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Stormwater Management Report

Outdoor Storage and Warehouse

518, 520, 522, 524 Tiffin Street, City of Barrie, Ontario

September 2024

The Jones Consulting Group Ltd.
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PIO-21060 (70)

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Stormwater Management Report

OUTDOOR STORAGE AND WAREHOUSE

Pioneer Pools, City of Barrie

1. Introduction

1.1. Appointment

The Jones Consulting Group Ltd. (TJCG) was retained by Pioneer Family Pools (Client) to provide engineering services for a proposed development consisting of an inventory storage yard on the properties located at 518, 520, 522, & 524 Tiffin Street, in the City of Barrie (City).

This *Stormwater Management Report* (SWMR) has been prepared in support of the *Site Plan Control applications* prepared by TJCG, and demonstrates how the site can be serviced from a stormwater management perspective.

1.2. Existing Property Description

The site is rectangular in shape and is approximately 0.494 hectares (ha) in size. bound to the south by Tiffin Street and existing industrial and vacant lands, to the east by residential property, and to the north and west by vacant properties. The site is located in the City of Barrie, Ontario.

The subject property is legally described as Part of Lot 25, Concession 7, Geographic Township of Vespra, City of Barrie.

The site location is shown in the following **Figure 1**.

The subject property comprises four separate lots with the western two lots currently vacant and two eastern lots currently being used as a storage yard. The storage yard consists of a fenced area with access from 520 Tiffin Street as well as an existing warehouse building with access from 518 Tiffin Street. There is an additional access into the vacant lot 524 Tiffin Street. The existing ground surface can be characterized as generally draining from north to south into the roadside ditches along Tiffin Street. The flow is divided along the frontage, with approximately two-thirds flowing towards the southwest and the remainder flowing to the southeast. Elevations range from a minimum of 234.20m near the properties southwest corner, to a maximum of 235.30m near the center of the north property boundary.



Figure 1: Site Location

The *Agricultural Information Atlas* (AgMaps) prepared by the *Ontario Ministry of Agriculture, Food and Rural Affairs* (OMAFRA) interprets the site as generally consisting of Urban soil (UR) with a historical inclusion in the Muck soil group (M). The Muck soils are noted to have very poor drainage characteristics. These soils belong predominately to the Group B of the SCS Hydrological Soils Group Classification System. The pertinent portion of the map is included below as **Figure 2: Soil Identification Maps**. Full copies of the maps have been attached in **Appendix A.**



Figure 2: Soil Identification Maps

1.3. Proposed Land Use

The proposed development of the site will include the construction of a storage yard for equipment and materials, as well as parking areas and stormwater management facilities. The existing warehouse space in the northeast corner of the property will remain.

1.4. Supporting Documents

The following documents have been referenced in the preparation of this report:

- Ministry of the Environment (MOE), Stormwater Management Planning and Design Manual, March 2003;
- Ministry of Transportation, Drainage Management Manual, February 2008;
- City of Barrie Stormwater Infrastructure Deign Standard, June 2023
- City of Barrie Drinking Water Infastructure Design Standard, June 2024
- Lake Simcoe Region Conservation Authority Stormwater Technical Guidelines for Stormwater Management Submissions, April 2022;
- Lake Simcoe Regional Conservation Authority Phosphorus Offsetting Policy, May 2023
- Hydrogeological and Geotechnical Investigation – Proposed Outdoor Storage Development, 518, 520, 522 and 524 Tiffin Street, Barrie, Ontario, GEI Consulting engineering and Scientists, March 4, 2022
- Low Impact Development Stormwater Management Planning & Design Guide Wiki, Sustainable Technologies Evaluation Program, 2021;

- Soils Map of Simcoe County, Ontario, Soil Survey Report No. 29;

2. Approval Agencies & Design Criteria

The proposed development is subject to the policies and requirements of the City of Barrie (City), the Lake Simcoe Region Conservation Authority (LSRCA), and the Ministry of the Environment, Conservation and Parks (MECP) with respect to drainage and stormwater management.

2.1. City of Barrie

The stormwater drainage recommendations must conform to the City of Barrie Stormwater infrastructure Design Standard, (June 2023). The City's documents were prepared to reflect current accepted design practices and is intended as a guide to provide a solid engineering basis for storm drainage and stormwater management design, to establish uniform guidelines of minimum standards, and to improve the processing of site plan and plan of subdivision applications for approval in the City. The documents provide legal and technical requirements specific to Stormwater Drainage Systems, Stormwater Management Systems, Site Grading, Requirements for Erosion & Sediment Control, Guidelines for Hydrologic and Hydraulic Analysis, and Stormwater Quantity & Quality Control Techniques, among other topics.

2.2. Lake Simcoe Region Conservation Authority (LSRCA)

The subject site is located within the Barrie Creeks Subwatershed within the LSRCA's jurisdiction. A map of the subwatersheds can be found in **Appendix A**. The property is located within LSRCA regulated lands. It is expected that the LSRCA will require the stormwater management plan to adhere to the LSRCA's *Technical Guidelines for Stormwater Management Submissions [LSRCA Guidelines]* (April 2022) as well as conform to the recommendations of the MECP's *Stormwater Management Planning and Design Manual* (March 2003). The goal of Stormwater Management is to mitigate the effects of urbanization on the hydrologic cycle including increased runoff and decreased infiltration of rain and snowmelt. The LSRCA Technical Guidelines provide a framework for the planning and design of stormwater management infrastructure to address flooding, water quality, erosion, water balance, and natural heritage.

2.3. Ministry of the Environment, Conservation and Parks (MECP)

An Environmental Compliance Approval (ECA) will be required from the MECP for the proposed SWM facilities. Once the detailed design for the site has been completed, this Report will be updated and submitted to the MECP in support of the application. Furthermore, stormwater drainage proposals are to be consistent with the guidelines of the MECP's *Stormwater Management Planning and Design Manual* (March 2003).

3. Site Physiography

3.1. Existing Drainage Conditions

The development site is approximately 0.494ha in size and contains a local high point with water flowing both east and west from a high point within the property. As a result, the site does not receive flow from any surrounding properties. Drainage from the eastern portion of the site flows towards the southeast into the roadside ditch along Tiffin Street. Drainage from the western portion of the site flows to two locations: the roadside ditch along Tiffin Street, flowing west and a low point in the adjacent property. The water accumulates in this low point until it overflows and makes its way to the same roadside ditch along Tiffin Street. The runoff collected in the Tiffin Street roadside ditch is conveyed in two directions from a high point in the roadside ditch. The high point is located in front of 522 Tiffin Street which directs runoff to the west from 522, 524 Tiffin Street and runoff from 518 and 520 Tiffin Street to the east.

3.2. Proposed Drainage Conditions

The proposed development will capture the stormwater from the development property. The runoff will flow to the stormwater detention facility consisting of filtration swales along the east, north and west property boundaries. The outflow from the swales is proposed to outlet to the existing roadside ditches along Tiffin Street.

4. Hydrology

4.1. Model

A hydrologic model was used to determine storage volumes and establish the required sizing of the enhanced grass swales. The design storms are based on the current City of Barrie Storm Stormwater Infrastructure Design Standard, June 2023. Supporting input parameter calculations

and Visual OTTHYMO model output are provided in **Appendix C**. A digital copy of the hydrologic modelling files is also provided in the digital submission.

The development was hydrologically modeled using the latest version of the Visual OTTHYMO computer software by Smart City Water. The hydrologic modelling includes a pre-development scenario representing current land usage, and a post-development scenario that represents the proposed development which utilizes grass filtration swales as stormwater controls. A detailed land use breakdown (provided in **Appendix C**) shows the actual calculated runoff coefficients for the overall site in both the pre- and post- development conditions.

The Visual OTTHYMO (VO) model created for the proposed development incorporates the internal drainage areas of the development; the subject property generally grades east and west including a portion of the site to the north and does not receive drainage from outside of the proposed limits. The internal site area for the post-development scenario is divided between catchments captured and treated by the proposed onsite LID's (filtration swales), labeled areas 201, 202 and 203. Area 201 represents the storage yard area located in the southwest portion of the site and consists mainly of gravel surfaces, draining from east to west to proposed LID#1 (denoted West Filtration Swale). Area 202 borders the northern limit of the proposed site, consisting of both pervious and impervious areas, draining towards the northern portion of the LID#1 (West Filtration Swale). Area 203 is located south of the existing building and consists of paved surface as well as hard packed gravel for outdoor storage. This area also encompasses a small patch of pervious area, all of which drains to LID #2 (denoted East Filtration Swale). Catchment 204 includes the top half of the 0.40m wide flat top berm that matches into existing ground along the site's western boundary, and ultimately drains south and into the existing Tiffin Street roadside ditch and flows westerly. Similar to catchment 204, catchment 205 directs drainage from the top half of the 0.40m wide flat top berm towards the side's eastern boundary and subsequently south to the Tiffin Street roadside ditch and flows easterly. Both areas are uncontrolled, however the combined post development flows from the uncontrolled areas and controlled areas are less than the pre-development flows outlined in **Table 5**. The pre- and post-development catchment areas are illustrated on **Drawings STM-1** and **STM-2**, respectively. The **Drawings** are provided in **Appendix E**. The VO model schematic is provided in **Appendix C** along with the model outputs.

Tables 1 & 2 summarize the hydrologic parameters that were used for the Pre-&-Post Development Visual OTTHYMO models.

Table 1 - Summary of NASHYD Hydrologic Model Inputs

Catchment	Area (ha)	Flow Length (m)	Slope (%)	CN
Pre-Development				
101	0.3619	77	0.65	77
Post-Development				
204	0.063	77	0.94	71
205	0.022	49	0.92	74

Table 2 - Summary of STANDYD Hydrologic Model Inputs

Catchment	Area (ha)	XIMP (%)	TIMP (%)	SLPP (%)	LGP (m)	SLPI (%)	LGI (m)	DT (min)
Pre-Development								
102	0.1316	66	73	0.78	51	0.78	29.6	1.0
Post-Development								
201	0.1696	78	78	1.0	20	1.0	33.6	1.0
202	0.1053	81	81	2.0	28	2.0	26.5	1.0
203	0.1335	75	75	2.0	8	2.0	29.8	1.0

4.2. Design Storms

The rainfall events used for the VO model simulations include the SCS Type II storm distribution for the 6-hour, 12-hour, and 24-hour durations as well as the Chicago type storms for the 4-hour durations. It was found that the 24-hour SCS storm distribution generated the highest peak flow and greatest volumes. The following events have been modeled:

- 6-hour SCS Type II rainfall distributions for the 2, 5, 10, 25, 50, and 100-year storm events;

- 12-hour SCS Type II rainfall distributions for the 2, 5, 10, 25, 50, and 100-year storm events;
- 24-hour SCS Type II rainfall distributions for the 2, 5, 10, 25, 50, and 100-year storm events;
- 4-hour Chicago rainfall distributions for the 2, 5, 10, 25, 50, and 100-year storm events;
- 25 mm 4-hour Chicago rainfall event; and
- Hurricane Hazel Regional Storm Event.

4.3. Soil Types

Mapping indicates that the site likely consists of Soil Group B, Muck. As development has occurred in the surrounding lands, this classification has changed to Urban soils, consistent with the importation of fill material. The *Hydrogeological and Geotechnical Investigation prepared by GEI Consulting Engineers and Scientists (Geotechnical Report)* indicates that the site consists of a layer of fill approximately 0.5m in depth overlaying a layer of peat approximately 1.0m thick with a layer of sand underneath that, to the full depth of the test pits. The infiltration rate of the soil was estimated using grain size distribution and it was determined that the sand is permeable but due to the high-water table, LID facilities utilizing infiltration are not favourable. A copy of the *Hydrogeological and Geotechnical Investigation – Proposed Outdoor Storage Development – 518, 520, 522 and 524 Tiffin Street, Barrie, Ontario prepared by GEI Consulting Engineers and Scientists*,, dated March 2022, has been submitted under separate cover for reference.

4.4. Discretization

The VO model was derived from topographical surveys, aerial photography, and the proposed design.

The impervious surface areas for the pre-development condition were derived using the topographical survey and are outlined below in **Table 3**.

Table 3: Land Use Imperviousness

Surface material	Area (ha)
Gravel	0.1634
Building	0.0210
Grass	0.3091
Total	**0.494**

The properties of the post-development catchments are summarized below in **Table 4**. Refer to **Appendix B** for supporting catchment property calculations.

Table 4: Summary of Hydrologic Model Inputs – Pre- and Post- Development

Catchment	Area (ha)	Total Impervious (%)	Slope (%)
Pre-Development			
101	0.3619	24	0.65
102	0.1316	73	0.78
Post-Development			
201	0.1696	78	1.0
202	0.1053	81	2.0
203	0.1335	75	2.0
204	0.0630	5	0.94
205	0.0220	15	0.92

The post development catchment areas are illustrated on **Drawing STM-2**, refer to **Appendix E**.

Some of the model input parameters are not included in the above tables as they are common among all catchment areas, including the following:

Manning's N for impervious area = 0.013

Manning's N for pervious area = 0.19

4.5. Model Results

The hydrologic modeling results are summarized herein. The stormwater system for the subject site is designed to match the post-development discharge rates with the existing, pre-development conditions. As previously mentioned in **Section 3.1** of this report runoff flows from the site are conveyed to the Tiffin Street roadside ditch and flows are directed to the East and West from the ditch high point.

The modelling results for the areas draining to the Tiffin Street ditches from the site are summarized in **Table 5** below and have been separated by East and West flow direction.

Table 5: Hydrologic Model Results

Storm Peak Event Flow (m^3/s)							
	Area (ha)	**Storm Distribution**					
Return Period (years)		**2**	**5**	**10**	**25**	**50**	**100**
Pre-Development Condition (101 West)							
SCS Type II - 6 hour	0.362	0.024	0.042	0.055	0.073	0.087	0.100
SCS Type II - 12 hour	0.362	0.026	0.046	0.061	0.080	0.094	0.107
SCS Type II - 24 hour	0.362	**0.031**	**0.054**	**0.071**	**0.093**	**0.110**	**0.123**
Chicago - 4 hour	0.362	0.019	0.034	0.046	0.061	0.073	0.086
Hazel Storm	0.362	0.064					
Post-Development Condition (201, 202, 204 West)							
SCS Type II - 6 hour	0.338	0.015	0.020	0.022	0.025	0.027	0.030
SCS Type II - 12 hour	0.338	0.016	0.021	0.023	0.026	0.029	0.031
SCS Type II - 24 hour	0.338	**0.016**	**0.021**	**0.024**	**0.027**	**0.030**	**0.032**
Chicago - 4 hour	0.338	0.014	0.019	0.020	0.023	0.025	0.027
Hazel Storm	0.338	0.060					

Post-Development Storm Peak Event Flow (m^3/s)							
	Area (ha)	**Storm Distribution**					
Return Period (years)		**2**	**5**	**10**	**25**	**50**	**100**
Pre-Development Condition (102 East)							
SCS Type II - 6 hour	0.132	0.017	0.024	0.029	0.036	0.041	0.045
SCS Type II - 12 hour	0.132	0.017	0.024	0.030	0.037	0.042	0.047
SCS Type II - 24 hour	0.132	**0.018**	**0.027**	**0.033**	**0.041**	**0.047**	**0.052**
Chicago - 4 hour	0.132	0.020	0.028	0.033	0.039	0.044	0.049
Hazel Storm	0.132	0.024					
Post-Development Condition (203, 205 East)							
SCS Type II - 6 hour	0.156	0.010	0.014	0.015	0.018	0.019	0.021
SCS Type II - 12 hour	0.156	0.011	0.014	0.016	0.019	0.020	0.021
SCS Type II - 24 hour	0.156	**0.011**	**0.015**	**0.016**	**0.019**	**0.021**	**0.022**
Chicago - 4 hour	0.156	0.009	0.012	0.014	0.016	0.017	0.019
Hazel Storm	0.156	0.028					

The results demonstrate that the proposed SWM Facility provides the required quantity control to reduce post development peak flows to the pre-development rates for all storms up to and including the 100-year event.

5. Stormwater Management Plan

5.1. Introduction

The stormwater management plan is intended to provide an environmentally sound approach to stormwater and drainage issues. The issues can be divided into four categories: stormwater quality control, stormwater quantity control, water balance, and erosion & sediment control.

The City of Barrie and the LSRCA require Level 1 (Enhanced) quality control for the stormwater runoff generated from this site. The proposed SWM Facilities (West Filtration Swale and East Filtration Swale) have been sized based on the combination of Level 1 quality control and quantity control of the 100-year post development flows and the extended detention/filtration (24 hour) for the 25mm storm event.

5.2. SWM Facility Overview

Two facilities are proposed to provide the required levels of quality and quantity control outlined above. Both facilities are filtration based swales that provide subsurface/surface storage for attenuation and are orifice controlled. This filtration swales incorporate a wood check dam to ensure the 25mm event is filtered through the underlying Soil Blend 'A' media layer. The swales incorporate an overflow catchbasin that collects all run-off in excess of the 25mm event. Both filtration swales are lined with impermeable liners due to proximity to groundwater.

The West Filtration Swale is approximately 97m long. The bottom of the swale is 2.6m wide and is set at an elevation of 234.60m. The top of the swale is approximately 5m wide and is set at an elevation of 235.00. Below the swale is the filter media layer that is comprised of Soil Blend 'A' filter media that is 0.3m deep. At the base of the media layer are two (2) 150mm diameter subdrains that collect filtered storm run-off, directing flows to the proposed catchbasin. The catchbasin outlets to the Tiffin Street ditch via a 150mm diameter storm sewer that is orifice controlled by a 125mm diameter orifice. The filtration swale includes a wood check dam that is set 0.20m above the base of the swale. This forces storm events up to and including the 25mm storm event to be filtered through the media layer. Flows greater than the 25mm storm event are captured by the catchbasin. The swale also includes an overflow weir set at an elevation of 234.85m. The overflow weir is designed to safely convey flows to the Tiffin Street ditch.

The East Filtration Swale is approximately 35m long. The bottom of the swale is 1.6m wide and is set at an elevation of 234.60m. The top of the swale is approximately 4m wide and is set at an elevation of 235.00. At the south limit of the swale is a square basin that is 6.6m wide/long at the bottom and 9.0m wide/long at the top. The square basin has a bottom and top elevation of

234.6m and 235.0m, respectively. Below the swale/basin is a filter media layer that is comprised of Soil Blend 'A' filter media that is 0.3m deep. At the base of the media layer are two (2) 150mm diameter subdrains that collect filtered storm run-off, directing flows to the proposed catchbasin. The catchbasin outlets to the Tiffin Street ditch via a 150mm diameter storm sewer that is orifice controlled by a 110mm diameter orifice. The filtration swale includes a wood check dam that is set 0.20m above the base of the swale. This forces storm events up to and including the 25mm storm event to be filtered through the media layer. Flows greater than the 25mm storm event are captured by the catchbasin. The swale also includes an overflow weir set at an elevation of 234.80m. The overflow weir is designed to safely convey flows to the Tiffin Street ditch.

5.3. SWM Facility - Quality Control

The filtration swales utilize infiltration through the soil layer to improve water quality and meet the 'Enhanced' level of treatment. Pollutants are removed from the swales through sedimentation, adsorption, and nutrient uptake, in both the vegetated surface of the swale and the filter media and underdrain portion.

In accordance with Table 3.2 of the MECP Stormwater Management Planning and Design Guidelines, the minimum infiltration volume to meet the 'Enhanced' level of protection was determined for each filtration swale. The West Filtration Swale has a drainage area of approximately 0.275Ha and an imperviousness of 79%. This corresponds to a minimum infiltration volume requirement of 10.4m^3. Based on the Otthymo Model, the 25mm event corresponds to a volume of 51.73m^3 (0.275Ha x 18.81mm). As this volume is greater than the extended detention volume stipulated by Table 3.2, the run-off from the 25mm event was used to set the elevation of the wood check dam. The volume storage between the bottom of the swale and the top of the wood check dam is 61m^3, ensuring the entire 25mm event is infiltrated/filtered through the media layer, ensuring the 'Enhanced' level of protection is achieved.

In order to ensure the surface area of the filter is sufficient, Equation 4.12 of the MECP Stormwater Management Planning and Design Guidelines was used. In order to drawdown the 25mm event run-off to the West Filtration Swale in a maximum of 24 hours, the minimum surface area of the swale is 44m^2. The actual provided surface area of the filtration swale is 217m^2, which greatly exceeds the minimum stipulated by the MECP.

The East Filtration Swale has a drainage area of approximately 0.134Ha and an imperviousness of 75%. The corresponds to a minimum infiltration volume requirement of 4.9m^3, as stipulated by Table 3.2 of the MECP Stormwater Management Planning and Design Guidelines. Based on the Otthymo Model, the 25mm event corresponds to a volume of 24.09m^3 (0.134Ha x 17.98mm). As

this volume is greater than the extended detention volume stipulated by Table 3.2, the run-off from the 25mm event was used to set the elevation of the wood check dam. The volume storage between the bottom of the swale and the top of the wood check dam is 26m^3, ensuring the entire 25mm event is infiltrated/filtered through the media layer, ensuring the 'Enhanced' level of protection is achieved.

In order to ensure the surface area of the filter is sufficient, Equation 4.12 of the MECP Stormwater Management Planning and Design Guidelines was used. In order to drawdown the 25mm event run-off to the East Filtration Swale in a maximum of 24 hours, the minimum surface area of the swale is 20m^2. The actual provided surface area of the filtration swale is 99m^2, which greatly exceeds the minimum stipulated by the MECP.

Supporting quality control calculations are included in **Appendix B**.

5.4. SWM Facility - Quantity Control

As a means of providing stormwater quantity control, the site will utilize Low Impact Development (LID) measures in the form of filtration swales. The LID Measures and outlet controls will attenuate post development stormwater peak runoff to the pre-development flow rates determined via hydrologic modelling.

Modelling of the post development condition and SWM Facility was completed using the latest version of the Visual OTTHYMO (VO) computer software by Smart City Water. Event modeling design storms included the 2 to 100-Year 4 hour Chicago Storms, 2 to 100-Year 6, 12 and 24 hour SCS, as well as the 25mm event and the Regional (Hurricane Hazel) storm. The stormwater facilities were modelled using the route reservoir routine of the modelling software. Supporting stage, storage and discharge calculations are provided in **Appendix B**, for reference.

Detailed VO outputs are provided in **Appendix C**. **Table 6** summarizes the determined event-based stage, storage and discharge functions of the proposed SWM Facility.

Table 6: SWM Facility – Event Modeling Stage Storage Discharge

Storm Event	Peak Flow and SWM Facility Operations Summary					
	West Swale			East Swale		
	Outflow m^3/s	Elevation m	Active Storage m^3	Outflow m^3/s	Elevation m	Active Storage m^3
Chicago – 4 Hour						
25mm	0.008	234.42	23	0.006	234.40	9
5 year	0.017	234.59	53	0.011	234.54	21
100 year	0.021	234.76	101	0.016	234.72	39
SCS – 24 Hour						
5 year	0.018	234.64	64	0.013	234.60	25
100 year	**0.023**	**234.81**	**121**	**0.018**	**234.79**	**49**
SCS – 12 Hour						
5 year	0.018	234.63	63	0.013	234.58	24
100 year	0.023	234.81	118	0.017	234.78	47
SCS – 6 Hour						
5 year	0.018	234.63	62	0.013	234.58	24
100 year	0.023	234.80	116	0.017	234.77	46
Regional – Hazel	0.050	**234.88**	148	0.024	234.81	52

The 100-year, 24-hour SCS storm is the governing storm, with the highest discharge rate, and volume required.

5.5. LSRCA Stormwater Volume Control Requirements

The LSRCA requires that proposed developments meet the following criteria attempt to infiltrate the runoff from the 25mm rainfall event from the development's impervious surfaces.

> *Any works that meet the **major development** definition outlined in the Lake Simcoe Protection Plan or that results in site disturbance that creates 0.5 hectares of new impervious surface or fully reconstructs 0.5 hectare or more of impervious surface, should*

meet the following control requirements. If full compliance is not possible due to any of the factors listed at the end of Section 2.2.2.2, the site would be considered a "site with restrictions" and as such, the Flexible Treatment Alternatives referred to in Section 2.2.2.2 will apply.

*"**major development**" means development consisting of:*

a. the creation of four or more lots;

b. the construction of a building or buildings within a ground floor area of 500 m^2 or more,;

or

c. the establishment of a major recreational use. (ORMCP)

The subject property is less than 0.5ha in size, and is not proposing division into four or more lots, does not propose the construction of any new buildings and is not intended for recreational use. Therefore it does not meet the criteria for Stormwater Volume Control Requirements and as such, is not required to infiltrate the runoff from the 25mm storm. However, the proposed development will make best efforts to infiltrate following the Flexible Treatment Alternatives outlined in the LSRCA Guidelines, see section 5.7 Water Balance, below.

5.6. Low Impact Development

Low impact development (LID) is a stormwater management strategy that seeks to mitigate the impacts of increased runoff and stormwater pollution by managing runoff as close to its source as possible. LID measures comprise of a set of site design strategies that minimize runoff using a variety of SWM features that mimic natural hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration and detention of stormwater. These practices can effectively remove nutrients, pathogens and metals from runoff, and reduce the volume and intensity of stormwater flows.

The stormwater design for the subject property consists of grassed Filtration Swales located along the east, west, and north property boundaries of the subject site.

5.7. Water Balance

Seasonal high groundwater readings were taken in January and February of 2022 and indicate that the groundwater is between 0.72m and 1.03m below the ground surface.

Due to the high groundwater levels, in-situ permeability tests were not completed. The permeability assessed using grain size analysis in the geotechnical report is quite high given the sandy layers in the soil however the high groundwater levels will be the limiting factor in the subject property's infiltration capacity.

The proposed stormwater management system is a series of enhanced vegetated swales along the property boundaries to capture and direct runoff to the southern property corners and into the Tiffin Street roadside ditches. The flat nature of the property and the existing building elevation will not allow for the import of fill to allow for substantial grading. As a result, the enhanced swales will be excavated down from at or near the existing ground elevation. Since groundwater was encountered at less than 0.75m below existing ground, it is recommended that the enhanced swales be lined with an impermeable liner to prevent groundwater infiltration into the stormwater management facility. While the native soil may promote infiltration during low groundwater times of the year, the existence of the impermeable liner will prevent this. The enhanced swales will promote evapotranspiration which will result in a lower runoff volume than other stormwater management systems.

The primary objective of the LSRCA's water balance target is to capture and manage annual rainfall on the development site to preserve pre-development hydrology (water balance) through a combination of infiltration, evapotranspiration, landscaping, rainwater reuse and/or other low impact development practices.

Various site-specific characteristics contribute to the ability to achieve water balance. They include, but are not limited to: soil permeability, the ability to collect and direct drainage into the ground, groundwater table elevations and seasonal fluctuations. A site-specific water balance is required, and best efforts will be made via the SWM plan to maintain groundwater recharge while considering site specific characteristics.

Water Balance is an accounting of the available water resources in a given area and can be estimated by the following general equation:

$$\mathbf{P = ET + R + I}$$

Where: P = Precipitation (Annual)

ET= Evapotranspiration/evaporation

R = Surface Water Runoff

I = Infiltration

The precise measurement of water balance components is difficult to ascertain. Typically, approximations and simplifications are made after reviewing precipitation and climatic data for a given time series and the annual quantities are estimated using statistical methods.

All water balance component data has been taken from Table 3.1 of the MOE *Stormwater Management Planning and Design Manual,* 2003.

In order to assess the impact the proposed development will have on the subject site's water budget, the pre- and post-development infiltration volumes have been calculated for the subject lands in **Table 7**, and a summary of the surplus runoff and infiltration deficit is provided in **Table 8**. The land areas used for the analysis are based on the *Site Plan* (4.94 ha).

Table 7 - Water Balance for Pre- & Post-Development Conditions

Land Use Description	Approx. Land Area (m^2)	Estimated TIMP Area (%)	Hydrologic Soils Group	Infiltration Factor	TOTAL Runoff Volume (m^3)	TOTAL Infiltration Volume (m^3)
Pre-Development						
Industrial / Urban Lawn	4,940	37	B	0.4/0.0	1,766	284
Post-Development						
Post-Dev. Totals	4,940	70	B	0.4/0.0	1,916	134

Table 8 - Water Balance Summary

Total Development Area (m)	Pre Development Infiltration (m^3)	Post Development Infiltration (m^3)	Net Change (%)	Pre-to-Post Infiltration Deficit (m^3)
4,940	**284**	**134**	-47.2	**150**

LID measures for Stormwater Management have been incorporated into the servicing strategy for the subject lands in an effort to offset the infiltration deficit for the post-development condition by promoting groundwater recharge, however the high groundwater table has required the LID features have an impervious liner.

The high groundwater levels also affect the pre-development infiltration rates. As a result, the infiltration deficit is small. Water Balance calculations are included in **Appendix D**.

5.8. Phosphorous Loading Calculations

A pre- to post- development Phosphorus Balance has been completed for the site using the Phosphorus Budget Tool to address the LSRCA policy requirements. Hutchinson Environmental Sciences Ltd., Greenland International Consulting Ltd. and Stoneleigh Associates Inc. were retained by the MECP to develop the software. The tool provides standardized methods to estimate and compare pre and post development phosphorus loadings with the implementation

of Best Management Practices (BMP's) and Low Impact Development (LID) techniques. The program uses phosphorus export estimates developed for specific land uses using recent and site-specific estimates.

The land areas used for the analysis are based on the *Application for Official Plan Amendment and Zoning Amendment* and for the purpose of determining the phosphorous loading, the subject areas include High Intensity – Commercial/Industrial representing the developed areas of the site. The Phosphorus Loading Tool printouts are provided in **Appendix D**.

Proposed LID's

The site's stormwater management plan includes the LID system described in **Section 5.5** above. The proposed system consists of filtration swales along the property boundaries. The Phosphorus removal rates for BMP's are per the values provided in the MOE's *Phosphorus Loading Tool* and *LSRCA SWM Guidelines*.

The proposed development results in a 86% increase in phosphorus loading without the consideration of BMPs. Through the use of the proposed filtration swales, further phosphorus removal is achieved. The filtration swales provide the following phosphorus removal rates:

- Sand or Media Filters 45%

The values calculated for the proposed development are summarized as follows:

- Pre-Development Loading: 0.48 kg/year
- Post-Development Loading: 0.90 kg/year
- Post-Development Loading with BMPs: 0.56 kg/year

The calculations show a 0.08 kg/year, or 17% net increase in the phosphorus load over pre-development conditions when implementing BMP's in the post development condition. The Phosphorus Loading Tool printouts are provided in **Appendix D.** As stipulated by the LSRCA, best efforts should be implemented to keep the increase in phosphorous loading between the existing and proposed development to zero.

5.9. Erosion & Sediment Control

During construction, the majority of the subject site will be stripped of vegetation. The exposed surface will be susceptible to erosion, increasing the potential for sediment runoff. To minimize local and downstream impacts from erosion and sedimentation during construction, the following measures have been recommended:

- Temporary sediment control fencing should be erected around the perimeter of all grading activities;
- Temporary rock flow check dams should be installed within drainage cut-off swales;
- A temporary construction access mud mat should be installed at the construction accesses to reduce the amount of materials that may be transported off site;
- Construction during drier months should be monitored for wind-borne transport of sediments. At the direction of the engineer, the contractor may be directed to water down exposed earth areas with an aqueous solution of calcium chloride.
- All disturbed areas not under immediate construction for 30 days, or not intended for building activities within a 3-month time period, should be stabilized with seeding.

Detailed *Erosion and Sediment Control Plans* (ESC Plans) are included in **Appendix E** for reference.

6. Conclusions

This *Stormwater Management Report* identifies the recommended stormwater management strategies for the proposed Pioneer Pools Development Site. This Report outlines the proposed infrastructure required to service the site with regards to stormwater management quality control, quantity control, water balance and erosion and sediment control.

In particular, this Report has recommended the following:

- The stormwater management plan for the subject site that includes the use of enhanced swales as stormwater quality and quantity control. This facility, detailed in **Section 5**.
- Prior to construction, the erosion and sediment control measures outlined in **Section 5.9** should be implemented. These controls are to be maintained throughout the construction period and only removed once exposed areas have been stabilized with vegetative cover.
- The Designs in this report are consistent with the City of Barrie Guidelines & Policies, LSRCA Technical Guidelines for SWM, and the MECP SWMP Design Guidelines.

In conclusion, it is recommended that this Report be accepted as fulfilling the stormwater management requirements for Site Plan Control.

All of which is respectfully submitted,

THE JONES CONSULTING GROUP LTD.



Carl Gagnon, CET
Engineering Designer

Jon W. Ingram, P. Eng.
Associate Partner

Appendix A

External Reference Information

- Soil Map of Simcoe County Ontario, South Sheet, Soil Survey Report No. 29
- Excerpt from AgMaps Online Mapping showing subject site and surrounding area
- LSRCA Subwatershed Map
- Hydrogeological and Geotechnical Investigation,
  Proposed Outdoor Storage Development 518, 520, 522 and 524 Tiffin Street, Ontario
  Prepared be GEI Consulting and engineers and Scientists

SOIL MAP
OF
SIMCOE COUNTY
ONTARIO

SOUTH SHEET

SOIL SURVEY REPORT No. 29

Scale 1 inch to 1 mile or 1:63360

Miles 1 ½ 0 1 2 3 4 Miles

CONTOUR INTERVAL 25 FEET
All Elevations in Feet above Mean Sea Level

SUBJECT SITE

REFERENCE

Roads:
- paved
- secondary
- other roads
- path
- Railway: double track (Upper / Lower)
- single track
- Bridge: Underpass or overpass
- Boundaries: County
- " township surveyed
- " Indian Reserve
- " section line
- " surveyed line
- Electric Power Line

- Telephone: trunk route
- Triangulation Station
- Boundary or Survey Monument
- Benchmark
- Spot Height (in feet)
- House, Barn
- Buildings
- Mill or Factory
- School
- Church
- " with Tower or Spire
- Post Office
- Telephone Exchange
- Mine or Open cut

- Cemetery or Churchyard
- Quarry
- Sand or Gravel Pit
- Cliff
- Cutting
- Embankment, Dump, etc.
- Lighthouse
- Wharf or Pier
- Foreshore Flats
- Swamp or Marsh
- Lake or Slough (non permanent)
- Stream (intermittent)
- Contours, elevation
- " depression

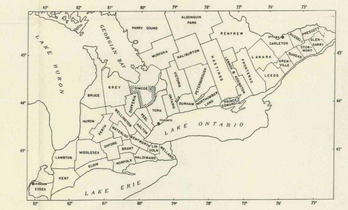
LEGEND

SERIES	OSPREY	VASEY	BONDHEAD	GUERIN	LYONS	HARRISTON	WIARTON	PARKHILL	HARKAWAY	OTONABEE
TYPE, SYMBOL, ACREAGE	loam Opl 1,300	sandy loam Vasl 71,700 sandy loam — stony phase Vasl-s 17,000 sandy loam — stony phase Vasb-s 12,400	loam Bl 41,400 sandy loam Bs 33,900 sandy loam — stony phase Bs-s 5,200 sandy loam — stony phase Bs-b 3,600	loam Gul 5,400 sandy loam Gus 1,700 loam — stony phase Gul-S 3,100 sandy loam — stony phase Gus-b 300	loam Ll 1,700 loam — stony phase Ll-b 100	loam Hl 8,800 loam — stony phase Hl-s 2,000 silt loam Hs 11,300	loam Wl 12,700 loam — stony phase Wl-b 900	loam Pal 2,100	loam Hal 1,400	loam Ol 17,100 loam — stony phase Ol-s 400 loam — stony phase Ol-b 2,200
COLOUR										
SOIL MATERIALS	Pale brown, calcareous, stony loam till.	Light grey, calcareous and non-calcareous, sandy loam till.	Light grey, calcareous, loam and sandy loam till			Pale yellow, calcareous, loam and silt loam till.			Pale yellow, calcareous, loam and silt loam till.	Light grey, calcareous, loam till.
DRAINAGE	Good.	Good.	Good.	Imperfect.	Poor.	Good.	Imperfect.	Poor.	Good.	
TOPOGRAPHY	Irregular, steeply sloping.	Smooth, moderately to steeply sloping.	Smooth, moderately to steeply sloping.	Smooth, gently sloping.	Smooth, very gently sloping.	Smooth, moderately to steeply sloping.	Smooth, gently sloping.	Smooth, very gently sloping.	Smooth, steeply sloping.	Smooth, moderately to steeply sloping.
SURFACE STONINESS	Very stony.	Moderately to very stony.	Slightly to very stony.	Slightly to moderately stony.	Slightly to very stony.	Slightly stony.	Slightly to very stony.	Slightly stony.	Moderately stony.	Moderately to very stony.
SURFACE REACTION	Neutral.	Slightly to medium acid.	Neutral.			Neutral.	Neutral to alkaline.	Alkaline.	Alkaline.	Neutral to alkaline.
GREAT SOIL GROUP	Brown Forest.	Brown Podzolic and Grey-Brown Podzolic	Grey-Brown Podzolic.		Dark Grey Gleisolic.	Grey-Brown Podzolic.		Dark Grey Gleisolic.	Brown Forest.	

SERIES	VINCENT	DUNEDIN	TIOGA	ALLISTON	GRANBY	CALEDON	BURFORD	SARGENT	GWILLIMBURY	GILFORD	WYEVALE	DUNDONALD	EDENVALE
TYPE, SYMBOL ACREAGE	clay loam Vc 2,700	clay Duc 500	loamy sand Tls 75,500 sandy loam Tisl 44,500 fine sandy loam Tisf 17,900 loamy sand — eroded phase Tis-e 1,300 loamy sand — stony phase Tis-s 9,500	sandy loam Als 63,500 fine sandy loam Alsf 1,300 sandy loam — stony phase Als-b 1,200	sandy loam Grl 17,900 fine sandy loam Grf 4,500 sandy loam — stony phase Grl-b 300	gravelly loam Cg 1,000	gravelly loam Bg 3,100	gravelly sandy loam Sgs 1,000 gravelly sandy loam — stony phase Sbs-s 1,200	gravelly sandy loam Gb 1,900 gravelly sandy loam — stony phase Gg-b 400	gravelly loam Gll 800	gravelly sandy loam Wg 10,000	sandy loam Ds 16,000 fine sandy loam Df 1,000	sandy loam Es 2,600
COLOUR													
SOIL MATERIALS	Light brown, calcareous clay loam till.	Dark reddish brown, calcareous clay till.	Grey, calcareous outwash sand.			Brown, calcareous gravel and cobble stone.	Pale brown to grey calcareous gravel and cobble stone.	Pale brown, calcareous outwash gravel.			Grey, non-calcareous gravel outwash.	Outwash sand underlain by grey calcareous loam or sandy loam till at depths of 3 feet or less.	
DRAINAGE	Good.	Good.	Good.	Imperfect.	Poor.	Good.	Good.	Good.	Imperfect.	Poor.	Good.	Good.	Imperfect.
TOPOGRAPHY	Smooth, moderately sloping.	Irregular, steeply sloping.	Smooth, gently to irregular, steeply sloping.	Smooth, very gently sloping.	Level.	Smooth, moderately sloping.	Smooth, gently sloping.	Smooth, gently sloping.	Smooth, very gently sloping.	Level to depressional.	Smooth, gently sloping.	Smooth, gently sloping.	Smooth, very gently sloping.
SURFACE STONINESS	Slightly stony.	Slightly stony.	Stonefree to moderately stony.		Stonefree.	Moderately cobbly.	Moderately to very cobbly.	Stonefree.	Moderate to very stony.	Stonefree.	Moderately Stony.	Stonefree.	
SURFACE REACTION	Neutral to alkaline.	Neutral.	Medium acid.		Slightly acid.	Slightly acid.	Slightly acid.	Neutral to alkaline.	Alkaline.		Medium acid.	Slightly acid.	
GREAT SOIL GROUP	Brown Forest.	Brown Forest.	Podzol.		Dark Grey Gleisolic.	Grey-Brown Podzolic.	Grey-Brown Podzolic.	Brown Forest.		Dark Grey Gleisolic.	Podzol.	Grey-Brown Podzolic.	

SERIES	BOOKTON	BERRIEN	WAUSEON	PERCY	SCHOMBERG	SMITHFIELD	SIMCOE	MINESING	BENNINGTON	FARMINGTON	ROCK	MUCK	MARSH	BOTTOM LAND
TYPE, SYMBOL ACREAGE	sandy loam Bcs 9,000 fine sandy loam Bcf 3,100	sandy loam Brs 10,200 fine sandy loam Brf 3,400	sandy loam Was 1,500 fine sandy loam Waf 1,500	fine sandy loam Pfs 1,700 fine sandy loam — stony phase Pfs-s 200	silty clay loam Shsc 47,800 silt loam Shs 2,100 silty clay loam-stony phase Shsc-s 300 silty clay loam-eroded phase Shsc-e 600 silt loam — stony phase Shs-s 700	silty clay loam Smsc 20,200 silt loam Sms 6,800	silty clay loam Sbsc 3,100 silty clay loam-stony phase Sbsc-b 100 silt loam Sis 3,900	mucky clay Mmsc 10,900 mucky silty clay loam Mms 4,200	very fine sandy loam Bnf 9,400	loam Fl 9,000	R 1,100	M 60,600	Ma 2,800	B.L. 4,900
COLOUR														
SOIL MATERIALS	Outwash sand underlain by calcareous clay or silty clay loam at depths of 3 feet or less.			Pale brown, calcareous outwash, fine loamy sand or fine sandy loam.	Calcareous lacustrine varved silt loam and clay.			Lacustrine, marl, silt, loam and clay.	Fine sandy loam or silt loam underlain by clay till or clay at depths less than 3 feet.	Calcareous loam till. Limestone rock at depths less than 1 foot.	Bare rock with little or no soil cover.	Well decomposed organic material over 1 foot. Usually underlain by rock, sand, silt or clay.	Variable.	Recent alluvium.
DRAINAGE	Good.	Imperfect.	Poor.	Good.	Good.	Imperfect.	Poor.	Poor.	Good.	Good.		Very poor.	Very poor.	Variable.
TOPOGRAPHY	Smooth, moderately sloping.	Smooth, gently sloping.	Smooth, very gently sloping.	Smooth, gently sloping.	Smooth, moderately to steeply sloping.	Smooth, gently sloping.	Smooth, very gently sloping.	Level.	Smooth, moderately sloping.	Smooth, very gently sloping.	Very steep.	Depressional.	Depressional.	Variable.
SURFACE STONINESS	Stonefree.			Stonefree.	Stonefree to very stony.	Stonefree.		Stonefree.	Stonefree.	Slightly stony.		Stonefree.	Stonefree.	Variable.
SURFACE REACTION	Slightly to medium acid.	Slightly acid.	Neutral.	Neutral.	Neutral.	Neutral to Alkaline.	Alkaline.	Alkaline.	Slightly acid.	Alkaline.		Neutral.	Neutral.	Variable.
GREAT SOIL GROUP	Grey-Brown Podzolic.		Dark Grey Gleisolic.	Grey-Brown Podzolic.	Grey-Brown Podzolic.		Dark Grey Gleisolic.	Dark Grey Gleisolic.	Grey-Brown Podzolic.	Brown Forest.		Organic.		Alluvial.

KEY MAP

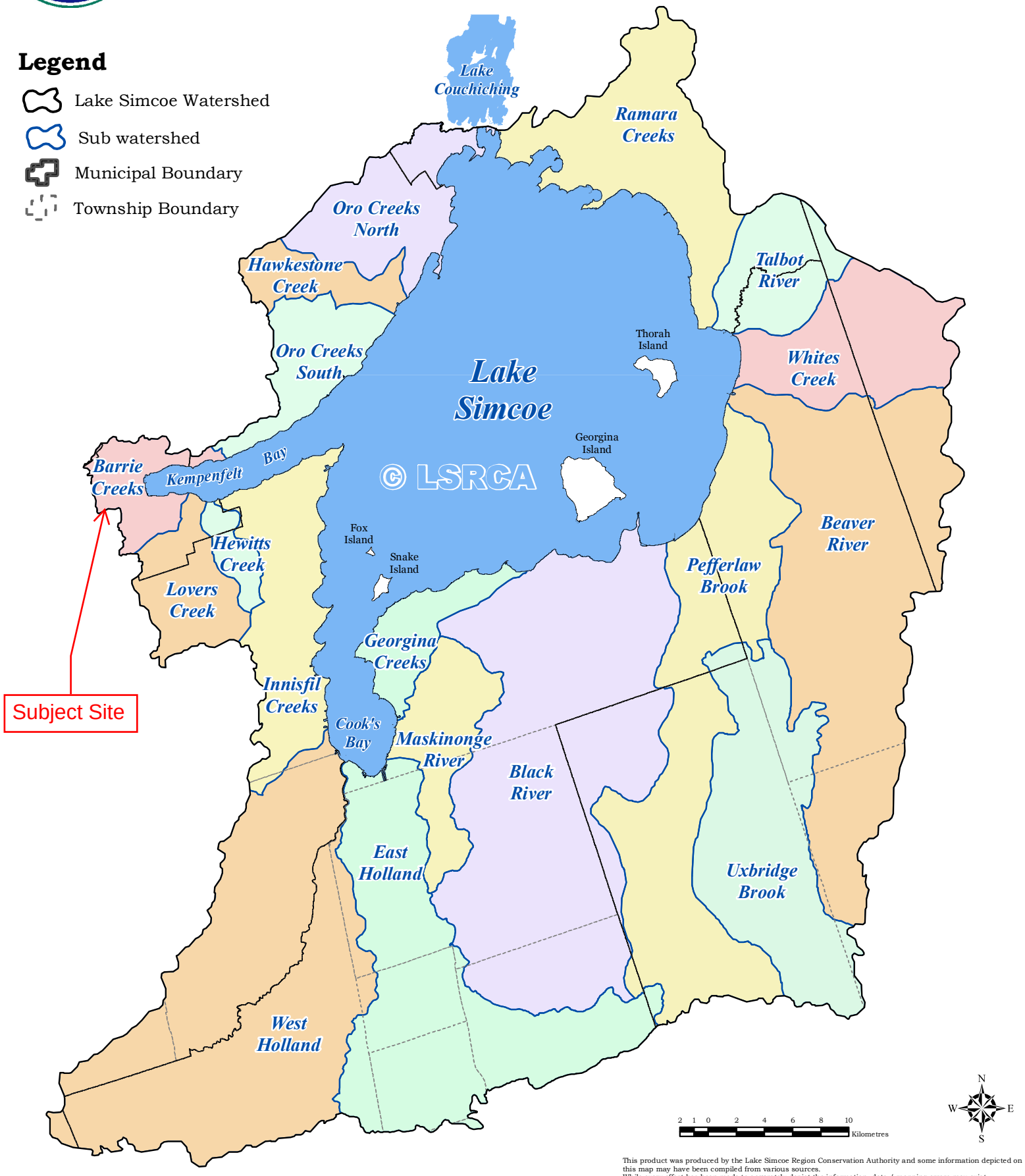


Soil Survey by the Department of Soils, Ontario Agricultural College, Guelph and the Research Branch, Canada Department of Agriculture, Ottawa.

Compiled, drawn and published by the Soil Research Institute, Research Branch, Canada Department of Agriculture, Ottawa, 1959, from base maps supplied by the Department of Mines and Technical Surveys, Ottawa.


Subject Site
ZUR
URBAN
Tiffin St
Ferndale Dr N
SPRINGWATER
Miller Dr
Boulton Crt
UR
ZUR
URBAN
ALLISTON SANDY LOAM
ALT B
Ans
C0
C0
TIG
D0 A
TIGGA SANDY LOAM
ZMK
B0
MUCK
M
D0
GNY
C
B0
Gsl
B0
M
B0
ZMK
B0
MUCK
D
GRANBY SANDY LOAM
Phillips St
Crawford St
Elizabeth St
Alva St
D0

Lake Simcoe Region Conservation Authority
Sub - Watersheds



This product was produced by the Lake Simcoe Region Conservation Authority and some information depicted on this map may have been compiled from various sources.
While every effort has been made to accurately depict the information, data / mapping errors may exist.
This map has been produced for illustrative purposes only.
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GEI Consultants

Consulting Engineers and Scientists

Hydrogeological and Geotechnical Investigation

Proposed Outdoor Storage Development

518, 520, 522 and 524 Tiffin Street, Barrie, Ontario

Submitted to:
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43 Anne Street South
Barrie, Ontario, L4N 2C9

Submitted by:
GEI Consultants Ltd.
647 Welham Road, Unit 14
Barrie, Ontario, L4N 0B7
705-719-7994

March 4, 2022
Project No. 2200026

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B. Test Pit Logs
C. Geotechnical Laboratory Data
D. Pavement Drainage Typical Details
E. Preliminary Water Balance

1. Introduction

GEI Consultants (GEI) was retained by Pioneer Family Pools to complete a hydrogeological and geotechnical investigation and report in support of the proposed outdoor storage facility at 518, 520, 522 and 524 Tiffin Street in Barrie, Ontario. A site location plan is enclosed as Figure 1.

The existing 0.5-hectare property is rectangular in shape and is approximately 73 metres long (east to west) and approximately 68 metres wide (north to south). The property is bounded by Tiffin Street to the south, residential properties to the west, and wooded undeveloped properties to the north and west. The western half of the property is vacant with some grass/trees and the eastern half of the property is currently being used for vehicle, boat and equipment storage. A small single slab-on-grade structure is in the northeastern corner of the property. The topography on-site and within the study area is relatively flat, about 1 m of relief, and is near approximate elevation 236 metres above sea level (masl). An aerial image of the site is provided on Figure 2A.

GEI was provided the following documents for review in preparation of this report:

- *"Official Plan/Zoning By-Law Amendment, Pre-Consultation Review, Planning Comments*", File: D28-082-2021, dated September 29, 2021, by the City of Barrie.
- *"Pioneer Family Pools Barrie Inc. Concept Plan"* File: PIO-21060, dated July 30, 2021, by Jones Consulting Group Ltd.

It is understood through email correspondence with The Jones Consulting Group (TJCG) and the above noted documents, that the Owner is proposing to continue utilizing the property for the storage of building materials, trailers, and equipment but intends to enhance the site by creating a more formal structure to the site by incorporating parking, internal driveways and set locations for storage. It is noted that the existing building in the northeastern corner of the property will remain. A concept plan is provided on Figure 2B.

Based on the comments from Ms. C. Papdatos from The City of Barrie, as of September 23, 2021 as part of the pre-consultation application package, the following is required:

> "*A geotechnical/hydrogeological report will be required in support of this rezoning. This report must address groundwater levels and any impact those levels may have on servicing and foundations. Opportunities for LID initiatives should be identified within this report"*

As such GEI has completed a combined geotechnical and hydrogeological report for the project.

1.1 Purpose and Scope of Work

The main objectives of the combined hydrogeological and geotechnical Investigation were to:

- Describe the existing site conditions including:
    - Site location and description of topography, drainage, with desktop review to provide background physiography, geology and overburden soil.
    - Subsurface conditions encountered within the four (4) test pits completed on-site including soil and groundwater observations.
    - In-situ percolation rates, groundwater flow direction and description of surface water features and functions.
- Provide geotechnical recommendations pertaining to:
    - Road and parking lot subgrade preparation, drainage considerations and pavement structure for new pavements.
    - Constructability requirements, such as excavations, soil compaction and temporary groundwater control.
- Provide hydrogeological recommendations including:
    - Commentary on the presence of high vulnerability aquifers, significant groundwater recharge areas and wellhead protection areas in the vicinity of the site.
    - Pre-construction and post-construction water balance calculation to assess changes in run-off and infiltration, and a discussion regarding potential mitigation measures.
    - Results of in-situ infiltration rates and discussion on factored infiltration rates to be used for infiltration based Low Impact Development (LID) features.

It is noted that Guelph Permeameter (GP) testing was proposed; however, relatively shallow saturated conditions inhibited the ability complete the proposed GP testing which is to be completed in unsaturated conditions.

1.2 Regulatory Requirements

1.2.1 Source Water Protection

The site is within the jurisdiction of Lake Simcoe Region Conservation Authority (LSRCA). The following documents should be used in determination of the regulatory requirements when it comes to maintaining hydrogeological function at this site:

- "*Lake Simcoe Protection Plan*", dated July 2009, by MOECC, MNR & LSRCA.
- "*Approved South Georgian Bay Lake Simcoe Source Protection Plan*", dated January 26, 2015, by LSRCA.
- *"Lake Simcoe Protection Plan Water Budget Policy for LSPP 4.8-DP and 6.40-DP,"* dated November 2018, by LSRCA.

It is noted that based on the comments from Mr. L. Munnoch with the LSRCA, dated September 24, 2021, a geotechnical / soils report is required; however, a hydrogeological investigation is not required. Although a hydrogeological investigation was noted to not be required by the LSRCA, the City of Barrie is requesting a hydrogeological investigation. As such, GEI has followed both the City of Barrie and LSRCA typical hydrogeological investigation requirements for the purposes of this investigation.

Based on Source Water Protection online mapping, the following is noted:

- Wellhead Protection Area (WHPA): The site is located within a WHPA-B (Figure 3).
- Intake Protection Zone (IPZ): The site is located within IPZ-3 (Figure 4)
- Highly Vulnerable Aquifer (HVA): The site is not located within an HVA (Figure 5).
- Significant Groundwater Recharge Area (SGRA): The site is not located within an SGRA (Figure 6).
- The site is not located within the Oak Ridges Moraine or Niagara Escarpment.

2. Site Setting

2.1 Physiography, Surficial and Bedrock Geology

The site is located within the physiographic region denoted as the Simcoe Lowlands comprising sand plains (Chapman and Putnam, 1984).

Quaternary geology mapping of the site by the Ontario Geological Survey indicates that the site is within an area mapped as glaciomarine deposits comprising sand, gravelly sand, and gravel. These findings are consistent with the subsurface soil conditions encountered in the test pits advanced on site, as discussed in Section 4.1.

The bedrock in the general area corresponds to the Verulam Formation, consisting of limestone and shale, and is part of the Simcoe Group. Bedrock is anticipated at depths greater than 75 m based on available drift thickness mapping for the Barrie Area (Ontario Division of Mines, Drift Thickness Series, Barrie Area Map P980).

2.2 Topography and Drainage

The existing site has relatively flat topography with relative elevations measured at the test pits ranging from 99.21 to 98.93 m, showing approximately 0.3 m of topographic relief across the site. Surficial runoff on-site is anticipated to follow the gentle topographic relief on-site towards the center of the site, and then to either the wetland to the north of the site and/or existing municipal infrastructure to the south of the site. Regional groundwater flow is anticipated to flow to the west/northwest towards Lake Simcoe.

No water bodies are located on the site; however, Dyment's Creek is located immediately south of the site within the Tiffin Street Right of Way (ROW). Further an unevaluated wetland is located immediately to the north of the site. The site is located within the Barrie Creeks subwatershed, in the jurisdiction of LSRCA.

2.3 MECP Water Well Records

MECP water well records were obtained within 500 metres of the site area to assess the general nature of the groundwater resource in the vicinity of the site, and historical/current uses of wells in the area. Twenty-five (25) well records were found, the approximate MECP well locations are shown on Figure 7 and a well records summary table is included in Appendix A.

The wells were installed for the following uses:

- Seven (7) of the records indicate domestic use.
- One (1) of the records indicate commercial use.

- Four (4) of the records indicate municipal use/public supply.
- One (1) of the records indicate industrial use.
- Five (5) of the records indicate monitoring/test holes.
- One (1) of the records indicate dewatering use.
- Four (4) of the records indicate not used/abandoned.
- Two (2) of the records did not specify the use and are of unknown use.

The stratigraphic descriptions within the MECP monitoring well records are typically inaccurate due to the methodology in which they are determined (observations of cuttings and no consistency between descriptions of soil between different drillers). Though in this case, an overall sense of the deep stratigraphy can be determined by looking at commonalities between most stratigraphic descriptions and where the wells were terminated in an aquifer. The well records typically indicate sand with variable clay and gravel deposits were encountered. The noted domestic water supply wells were typically installed in a sand unit at depths of approximately 11.3 to 73.2 m below existing grade.

The four (4) identified municipal water supply water well records are located 340 m southwest of the site and correspond to Municipal Water Supply Well W18. It is noted that Municipal Water Supply Well W18 is currently not online. Specifically, WWR #5734829 is installed at a depth of 92 m below existing grade. A pump test was completed where a pump rate of 500 GPM was utilized for a duration of 48-hours, resulting in a total drawdown of 1.5 m at the end of the pump test.

2.4 Visual Inspection of Site

A visual site inspection was carried out on January 12, 2022, by senior GEI staff to assess site drainage, topography and presence of surface water features.

The existing 0.5-hectare property is rectangular in shape and is approximately 73 metres long (east to west) and approximately 68 metres wide (north to south). The property is bounded by Tiffin Street to the south, residential properties to the west, and wooded undeveloped properties to the north and west. The western half of the property is vacant with some grass/trees and the eastern half of the property is currently being used for vehicle, boat and equipment storage. A small single storey slab-on-grade structure is in the northeastern corner of the property.

The topography at the site, within the study area, is relatively flat and has only about 1 m of relief, with the site at approximate elevation 236 masl.

3. Procedures and Methodology

GEI laid out the test pit locations in the field. Prior to the commencement of excavation activities, the locations of underground utilities including natural gas, electrical, telephone, water, etc. were marked out by public and private utility locating companies. The test pits were advanced cognizant of underground utilities.

The fieldwork for the test pit program was carried out on January 12, 2022. Test Pits (TP) 1 to 4 were advanced across the site to 2.0 to 2.1 metres depth below existing grade (local Elev. 99.2 to 93.2 masl) by an excavating subcontractor retained and supervised by GEI. The test pits were advanced using a rubber track excavator. Test Pit locations are shown on Figures 2A/2B, and test pit logs are provided in Appendix B.

Ground surface elevations of the test pits were measured using survey equipment in relation to a temporary benchmark (top of the fire hydrant spindle, located southeast of the site along Tiffin Street), with an assumed local elevation of 100.00 metres. GPS coordinates were measured with a handheld GPS unit and were referenced to the NAD 83 geodetic datum.

Three (3) standpipes were installed (TP1, TP2 and TP4) to facilitate long-term groundwater monitoring. All four test pits were backfilled upon completion with the excavated soil and leveled with the surrounding ground surface.

The GEI field staff examined and classified characteristics of the soils encountered in the test pits, including the presence of fill materials, made groundwater observations during and upon completion of excavation, recorded observations of test pit construction, and processed the recovered samples. Soil sampling was conducted at regular intervals for the full depth of the test pits. All recovered soil samples were logged in the field, carefully packaged and transported to the laboratory for more detailed examination and classification.

In the laboratory, the samples were classified as to their visual and textural characteristics. Three (3) samples were submitted to our laboratory for grain size analysis and the results are provided in Appendix C.

4. Subsurface Conditions

It should be noted that the conditions summarized below are for specific test pit locations only and can vary between and beyond the test pit locations. It should be noted these boundaries are intended to reflect approximate transition zones and should not be interpreted as exact planes of geological change. The passage of time also may result in changes in conditions interpreted to exist at locations where sampling was conducted.

4.1 Stratigraphy

The soil conditions encountered at the test pit locations are summarized below.

Test Pit	Ground Surface Elev. (m)	Northing (m)	Easting (m)	Total Depth (m)	Depth (m) and Stratigraphy	Seepage / Groundwater Comments
TP1	99.13	4913383	601453	2.1	0 to 0.8 – Fill: organic silt and sand, trace gravel with steel wire/metals, brown, moist 0.8 to 1.8 – Peat: black, wet 1.8 to 2.1* – Sand: trace silt, brown, wet	Seepage below 1.8 m Caving below 1.8 m
TP2	98.93	4913391	601484	2.0	0 to 0.5* – Fill: sand, trace silt, brown, moist 0.5 to 1.8 – Peat: black, wet 1.8 to 2.0 – Sand: trace silt, grey stain, wet	Seepage below 0.5 m Caving below 1.8 m
TP3	98.96	4913425	601447	2.0	0 to 0.5 – Fill: sand, trace organics, trace gravel, trace silt, brown, moist 0.5 to 1.6 – Peat: black, wet 1.6 to 2.0 – Sand: trace silt, brown, wet	Seepage below 1.0 m Caving below 1.6 m
TP4	99.21	49133430	601491	2.1	0 to 0.5 – Fill: sand, trace organics, trace gravel, trace silt, brown, moist 0.5 to 1.7 – Peat: black, wet 1.7 to 2.1* – Sand: trace silt, brown, wet	Seepage below 1.4 m Caving below 1.4 m

* A representative soil sample was submitted for particle size distribution as per the applicable Ontario LS standards in reference to ASTM D6913 and D7928.

All three (3) grain size distribution curves are shown in the graph in Appendix C.

4.2 Groundwater

4.2.1 Groundwater Levels

Unstabilized groundwater level measurements and cave measurements were taken upon completion of each test pit as shown on the table above. These measurements were taken to provide a rough estimate of the possible excavation and temporary groundwater control constructability considerations that may arise. Unstabilized groundwater measurements ranged between 0.5 and 1.8 metres below existing grade. Cave measurements taken ranged between 1.4 to 1.8 metres below existing grade.

Standpipes were installed in three (3) test pits (TP1, TP2 and TP4) to facilitate the measurements of stabilized groundwater levels. A 50 mm diameter PVC pipe with a 1.5-metre-long screen was installed in one (1) test pit and a 19 mm diameter PVC pipe with a 1.5-metre-long screen was installed in the remaining two (2) test pits. Groundwater measurements are shown in the table below.

Monitoring Well	Screen Location		Strata Screened	Depth / Local Elev. (m) of Groundwater Table		
	Depth (m)	Local Elev. (m)		2022-01-12	2022-01-19	2022-02-03
TP1	0.6 to 2.1	98.5 to 97.0	Peat and Sand	0.86 / 98.27	1.16 / 97.97	1.40 / 97.73
TP2	0.5 to 2.0	98.4 to 96.9	Peat and Sand	0.72 / 98.21	0.95 / 97.98	1.36 / 97.57
TP4	0.6 to 2.1	98.6 to 97.1	Peat and Sand	1.18 / 98.03	1.03 / 98.18	1.13 / 98.08

The groundwater levels from the last reading (February 3, 2022) ranged from 1.13 to 1.40 metres below existing grade (local elevation 98.08 to 97.57 masl). Based on the stabilized groundwater levels to-date, on-site near surface groundwater flow is anticipated to move towards the southwestern corner of the site.

The regional groundwater is anticipated to flow towards the west/northwest toward Lake Simcoe.

4.2.2 Hydraulic Conductivity

The hydraulic conductivity of selected soil samples was estimated using the grain size distribution determined by laboratory testing and an established empirical formula by Vukovic and Soro (1992). The grain size distribution curves are provided in Appendix C and the estimated K-values are summarized below:

Test Pit	Sample	Depth (m)	Material Type	Estimated Hydraulic Conductivity (m/s)
1	3	1.8 to 2.1	Fill: Sand, trace silt	2.3×10^{-4}
2	1	0 to 0.5	Sand: some silt, trace gravel	2.5×10^{-5}
4	3	1.7 to 2.1	Sand: trace silt	2.1×10^{-4}

According to Freeze and Cherry (1979), the typical hydraulic conductivity of the strata investigated are:

- Clean Sand: 10^{-2} m/s to 10^{-5} m/s
- Silty Sand: 10-3 m/s to 10^{-7} m/s

4.3 Infiltration

Determination of percolation rates are based on the "*Ministry of Municipal Affairs and Housing (MMAH) Supplementary Guidelines SB-6, Percolation Time and Soil Descriptions, September 14, 2012*". Based on this document, the estimated percolation rate (T-Time) of the earth fill is listed below and is related to an estimated infiltration rate using the relationship provided in *"Low Impact Development Stormwater Management Planning and Design Guide",* by CVC (Version 1.0, 2010).

The test pits indicate fill compromised of sand encountered near surface overlying peat, overlying native sand with trace to some silt. The Unified Soil Classification System classifications for the predominant soils encountered on-site are summarized below with the interpreted unfactored percolation rates (T-Time) and unfactored infiltration rates:

Unified Soil Classification System Classification	Sample	Unfactored Percolation Rate (T-Time) (mins/cm)	Unfactored Estimated Infiltration Rate (mm/hr)
S.P. Poorly graded sands gravelly sand, little or no fines	TP 1 (Sand) and TP 4 (Sand)	2 to 8	300 to 75
S.M. Silty sands, sand-silt mixtures	TP 2 (Fill)	8 to 20	75 to 30

This infiltration rate is not applicable below the groundwater table and is not applicable to the existing zones of earth fill across the site. Appendix C of the CVC guide suggests safety factors to be applied to infiltration rates. The safety factor applicable to the site is expected to be 2.5 but this must be confirmed once the final location and elevation of LID measures are known. It is also noted that the relationships noted above are not direct conversions and estimates only.

Overall, the site conditions are not favourable for LID facilities. The sand is permeable, but a high groundwater table is present. There does not appear enough space above the groundwater table to accommodate the requirement for a typical 1 m buffer between the base of the LID and the groundwater table.

Some additional general LID considerations are provided below for bioretention and perforated pipe exfiltration systems. Detailed design of LID features will be carried out by others.

- Bioretention infiltration elevations should be kept 1 metre or more above the seasonally high groundwater table to prevent groundwater from intersecting the filter bed and potentially contaminating the groundwater or causing the LID feature to fail.
- Care should be taken during construction to prevent disturbance or siltation of the cohesionless earth fill soils at the proposed infiltration elevations.

- There is a risk of groundwater contamination in urban and industrial areas, especially from higher traffic roadways where de-icing salts are applied. Pre-treatment of stormwater may be required.
- The LIDs should be kept at least 4 metres from any building foundations.
- Settlement of nearby dwellings due to infiltration is not considered to be an issue.
- Vegetation in bioretention facilities should be maintained to help reduce erosion.
- The bioretention facilities within or adjacent to the parking areas and roadway should be designed so that retained water is not allowed to pool within the granular base material of the pavement structure.

5. Discussion and Analysis

It is understood through email correspondence with TJCG that the Owner is proposing to continue utilizing the property for the storage of building materials, trailers, and equipment, but intends to enhance the site by creating a more formal structure to the site by incorporating parking, internal driveways and set locations for storage. It is noted that the existing building in the northeastern corner of the property will remain in its current condition.

5.1 Hydrogeological Assessment

5.1.1 Preliminary Water Balance

5.1.1.1 Water Balance Components

A water balance is an accounting of the water resources within a given area. The water balance equates the precipitation (P) over a given area to the summation of the change in ground water storage (S), evapotranspiration/evaporation (ET), surface water runoff (R) and infiltration (I) using the following equation:

$$\mathrm{P} = S + I + ET + R$$

The components of the water balance vary in space and time and depend on climatic conditions as well as the soil and land cover conditions (i.e., rainfall intensity, land slope, soil hydraulic conductivity and vegetation). For example, runoff occurs at a higher percentage during periods of snowmelt when the ground is frozen or during intense rainfall events.

Precise measurement of the water balance components is difficult, and as such, approximations and simplifications are made to characterize the water balance of a property. Field observations of the drainage conditions, land cover and soil types, groundwater levels and local climatic records are important inputs to the water balance calculations.

- Precipitation (P): For the purposes of approximating the annual precipitation at this site, the monthly rainfall between 1981 and 2010 was used based on Environment Canada historical weather data for the Barrie WPCC weather station (Climate ID 6110557, Latitude 44.38 N, Longitude -79.69 W, Elevation 221 masl), which is located about 3.5 km northeast of the site.
- Storage (S): Although there are groundwater storage gains and losses on a short-term basis, the net change in groundwater storage on a long-term basis is assumed to be zero.
- Evapotranspiration/Evaporation (PET): The evapotranspiration and evaporation components vary based on the characteristics of the land surface cover (i.e., type of vegetation, soil moisture conditions, perviousness of surfaces, etc.). Potential evapotranspiration refers to the water loss from a vegetated surface to the atmosphere

under conditions of an unlimited water supply. Evaporation occurs from a hard surface (such as flat rooftops, asphalt, gravel parking areas, etc.).

- Water Surplus (R + I): The difference between the mean precipitation and evapotranspiration is referred to as the water surplus. The water surplus is divided into two parts: as surface or overland runoff (R) and the infiltration into the surficial soil (I). The infiltration is comprised of two end member components: one component that moves vertically downward to underlying aquifers (referred to as percolation, deep infiltration or net recharge) and a second component that moves laterally through the near surface soil profile or shallow soils as interflow that re-emerges locally to surface (i.e., as runoff) at some short distance and time following precipitation.

5.1.1.2 Approach and Methodology

The analytical approach to calculate the water balance involves monthly soil-moisture balance calculations to determine the pre-development infiltration volumes. The detailed water balance calculation is provided in Appendix D, which is summarized in this and subsequent sections of the report. The following assumptions were used as part of the soil-moisture balance calculations:

- A soil moisture balance approach assumes that soils do not release water as potential recharge while a soil moisture deficit exists.
- During wetter periods, any excess of precipitation over evapotranspiration first goes to restore soil moisture. Considering the nature of the near surface soils (sand, trace silt), a soil moisture storage capacity of 75 mm was used for the site which is vegetated with shrubs, grasses and some trees. It is assumed that post-construction permeable areas will be shallow urban vegetation and the same storage capacity was used post-development for the permeable areas.
- Once the soil moisture deficit is overcome, any further excess water can then pass through the soil as infiltration and either become interflow (indirect runoff) or recharge (deep infiltration).

Monthly potential evapotranspiration calculations accounting for latitude, climate and the actual evapotranspiration and water surplus components of the water balance based on the monthly precipitation and soil moisture conditions was calculated. The *MECP SWM Planning and Design Manual* (2003) methodology for calculating total infiltration based on topography, soil type and land cover was used, and a corresponding infiltration factor was calculated for pre and post-development conditions. The water surplus was multiplied by the infiltration factor to determine both the pre-existing and post-condition annual volumes for run-off and infiltration for the property.

The post-development water balance scenario was estimated based on the assumption that 45% of the 0.5-hectare lands would comprise impermeable components (e.g. office building, laneways, parking, and shed). The water balance must be updated following final site configuration to reflect the final site plans.

It is noted that the infiltration and runoff values presented in Appendix D, are estimates only. Single values are used for the water balance calculations, but it is important to understand that infiltration rates are dependent upon the hydraulic conductivity of the surficial soils which may vary over several orders of magnitude. As such, the margins of error for the calculated infiltration and runoff component values are potentially quite large. These margins of error are recognized, but for the purposes of this assessment, the numbers used in the water balance calculations are considered reasonable estimates based on the site-specific conditions and useful for comparison of pre- to post-development conditions.

5.1.1.3 Pre and Post Development Water Balance

The detailed water balance calculations are included in Appendix D. The pre and post development calculations are summarized in this section are preliminary only and must be updated once site plans are finalized.

The table below summarizes the pre and post construction water balance for the 0.5 hectare site.

Condition	Permeable Areas	Impermeable Areas	Average Annual Runoff Volume (m^3/year)	Average Annual Infiltration Volume (m^3/year)
Pre-Development Land Use	70% (vegetated area)	30% (house, shed, walkway, and driveway)	1,556.2	907.7
Post-Development Land Use (Preliminary Plan)	55% (vegetated area)	45% (warehouse, office, laneways, parking, and shed)	2,056.4	713.2

These calculations suggest that, without mitigation such as Low Impact Development (LID) measures, the proposed outdoor storage development will decrease average infiltration by about 194.5 m^3/year (21% decrease). The proposed outdoor storage development will increase runoff by about 500.2 m^3/year (32% increase). This means about 195 m^3/year of infiltration is required to maintain the water balance. The potential impacts of these changes and recommended mitigation measures are discussed below.

5.1.1.4 Recommended Mitigation Measures

The three broad categories which typically need to be mitigated and accounted for are:

- Reducing the volume and speed in which additional surface water runoff occurs;
- Increasing the amount of infiltration to match pre-development conditions; and
- Ensuring that the quality of existing surface water features and groundwater will not be adversely impacted.

5.1.1.5 Runoff Quantity

Urban development of an area affects the natural water balance. The most significant difference is the addition of impervious surfaces as a type of surface cover (e.g. roads, parking lots, driveways, rooftops). Impervious surfaces prevent infiltration of water into the underlying soils and the removal of the vegetation reduces the evapotranspiration component of the natural water balance. The evaporation component from impervious surfaces is relatively minor (estimated to be 15% of precipitation) compared to the evapotranspiration component that occurs with vegetation in this area (up to two thirds of precipitation). So, the net effect of the urbanization of the site is that most of the precipitation that falls onto impervious surfaces increases the surplus water resulting in more direct runoff from developed areas and reduced natural infiltration.

In conjunction with increased runoff, there is a reduction in infiltration to the shallow groundwater system. A reduction in infiltration can potentially lead to a lowering of the local water table and reduce the potential for this seasonal water table intersection and discharge.

Methods which do not necessarily increase infiltration rate, but decrease the volume and concentration of surface water runoff can be considered at this site include (but are not limited to):

- Increasing the topsoil thickness by about two times the normal thickness (up to 30 cm) to retain more water in storage; and
- Implementation of rainwater harvesting which intercepts/diverts and stores roof runoff or parking lot run-off (i.e. cisterns/tanks) for future use.

5.1.1.6 Mitigation Measures for Maintaining Infiltration

The increases in surface water runoff that will occur with urban development and mitigation of the potential impacts to the local water table due to reduction of infiltration may be minimized by using appropriate stormwater management and using LID measures to promote infiltration. These measures can be implemented on-site.

The basic premise for LID is to try to minimize changes to runoff and infiltration. As outlined in the *MECP SWMP Design Manual* (2003) and *Low Impact Development Stormwater Management Planning and Design Guide* published by the Credit Valley Conservation (CVC) and TRCA (2010), there are a suite of techniques that may be considered to promote infiltration and reduce runoff.

In order to maintain groundwater function at the site the following typical LID measures can be considered as part of typical site developments (can depend on land use):

- Collection of runoff from the building rooftops and redirection to grass areas and overland flow. If feasible, it is recommended that there be a minimum 5 metre flow path over pervious areas to allow this mitigation method to be fully effective;

- Provision of gentle slopes in open areas or along grass swales in order to allow time for water infiltration;
- Construction of engineered infiltration measures such as soakaway pits, infiltration galleries or bioswales. Subsurface infiltration methods can only be considered in areas where there is sufficient soil permeability and depth to water table to accommodate the systems within the unsaturated zone (typically the infiltration elevation must be kept 1 metre or more above the seasonal high groundwater level).
- Construction of grass channels or filter strips which allow infiltration, discharge at a lower rate and direct roof runoff to overland flow.

Implementation of LID measures will not only allow for infiltration of the surface water into the near-surface groundwater regime but will also allow for increase in natural filtration of surficial runoff, prevent sedimentation transport and potential erosion, and help reduce flooding by increasing the transit time for water on the site. These types of LID techniques promote natural infiltration by providing additional water volumes in the permeable areas. This is particularly effective in the summer months when natural infiltration would not generally occur because the additional water overcomes the natural soil moisture deficit.

Details and designs for LID measures will be provided in a stormwater management report for the site (by others). This includes demonstrating through plans and sections (including all dimensions, materials used and including the seasonal high groundwater level) how this infiltration deficit will be mitigated.

As it is typically a requirement of maintaining the same levels of infiltration post construction, no appreciable change in the groundwater table elevation should occur over the long-term condition.

If the water balance cannot be fully maintained due to low soil permeability and higher groundwater levels, minimal impacts are expected for the following reasons:

- The site is not within a SGRA.
- The land surrounding the site is expected to be serviced by City water supply instead of domestic wells.
- Groundwater recharge and baseflow to creeks is anticipated to be low due to the existing City of Barrie stormwater management systems.

5.1.1.7 Groundwater Quality

Depending on land use, runoff from urban developments may contain a variety of dilute contaminants such as suspended solids, chloride from road salt, oil and grease, metals, pesticide residues, phosphorous, bacteria and viruses. For groundwater, generally except for the dissolved constituents such as nitrogen and salt, most contaminants are attenuated by filtration during groundwater flow through the soils.

LID measures or end treatments such as oil/grit separators or wet ponds also help to remove suspended solids and other contaminants in runoff prior to infiltration or conveying the flows off the site, especially when a treatment train approach is taken for stormwater management. The stormwater management facilities (to be designed by others) must be designed such that the water quality is maintained or improved prior to discharging water from the site or infiltrating water into the ground.

Runoff from residential developments (e.g., rooftops, landscaped areas) are typically considered "clean" and can be collected an infiltrated where possible. Further, infiltration-based practices would likely be permitted for impervious areas such paved/parking and driveways.

Since only clean or pre-treated runoff will be infiltrated, the groundwater quality will not be degraded and will not impact nearby domestic wells, the watercourse or other nearby environmental features. The surficial aquitard present across the site also limits the amount of water infiltrating deeper below grade as recharge.

5.2 Geotechnical Engineering

5.2.1 Pavement Design and Construction

5.2.1.1 Subgrade Preparation

Grading plans were not available for review at the time of preparing this report, however some minor grading (assumed to be less than 1 m) may be required to accommodate the proposed driveways and parking areas. It is noted that the peat at the site is compressible and if left in place under pavements or any grade raise, will potentially cause settlement and/or differential performance and ultimately cracking of the asphalt surface will occur relatively soon after placement.

In this regard two option are provided. Sub-excavate the peat in pavement/driveway areas and replaced with select fill, placed in 200 mm thick lifts and compacted to minimum 95% Standard Proctor Maximum Dry Density (SPMDD) to the subgrade level. It is noted that the sand underlying the peat is wet and proofrolling will likely not be possible. Further, the initial lift of fill should comprise a 500 mm thick lift of Granular B Type II. Where settlement can be tolerated, the peat can be left in place and a gravel surface pavement can be adopted, with regular on-going maintenance/grading to be expected.

The long-term performance of the pavement structure is highly dependent upon the subgrade support conditions. Stringent construction control procedures must be maintained to ensure that uniform subgrade moisture and density conditions are achieved as much as possible when fill is placed, and the natural subgrade is not disturbed or weakened after it is exposed.

5.2.1.2 Drainage

Control of surface water is an important factor in achieving a good pavement life. The need for adequate subgrade drainage cannot be over-emphasized. The subgrade must be free of depressions and sloped (at a minimum grade of 3 percent) to provide effective drainage toward subgrade drains or ditches / swales adjacent to the pavement. Grading adjacent to pavement areas should be designed to ensure that water is not allowed to pond adjacent to the outside edges of the pavement. Typical pavement drainage details are included in Appendix D.

5.2.1.3 Pavement Structure

The industry pavement design methods are based on a design life of 15 to 20 years for typical weather conditions depending on actual traffic volumes. Light duty pavement is recommended for car parking and driving areas. Heavy duty pavement is recommended for fire truck, garbage truck, or heavy equipment. The following pavement designs are provided based on the above noted considerations and subgrade improvement where peat is removed.

Pavement Layer	Compaction Requirements	Minimum Component Thickness	
		Light Duty	Heavy Duty
Surface Course Asphaltic Concrete: HL3 (OPSS 1150) with PG 58-28 Asphalt Cement (OPSS.MUNI 1101)	OPSS 310	40 mm	40 mm
Binder Course Asphaltic Concrete: HL8 (OPSS 1150) with PG 58-28 Asphalt Cement (OPSS.MUNI 1101)		50 mm	70 mm
Base Course: Granular A (OPSS.MUNI 1010)	100% Standard Proctor Maximum Dry Density (ASTM-D698)	150 mm	150 mm
Subbase Course: Granular B Type I or II (OPSS.MUNI 1010)		300 mm	450 mm

Where a gravel surface will be adopted (peat left in place and settlement is tolerable), the asphalt will not be placed, the Granular A base would be increased to 200 mm and be placed over the light duty or heavy duty Granular B subbase.

The granular materials should be placed in lifts 200 mm thick or less and be compacted to a minimum of 100% SPMDD for both granular base and subbase. Asphalt materials should be rolled and compacted as per OPSS 310.MUNI. The granular and asphalt pavement materials and their placement should conform to OPSS.MUNI 310, 501, 1010 and 1150.

If the pavement construction occurs in wet, winter or inclement weather, it may be necessary to provide additional subgrade support for heavy construction traffic by increasing the thickness of

the granular subbase, base or both. Further, traffic areas for construction equipment may experience unstable subgrade conditions. These areas may be stabilized utilizing additional thickness of granular materials or geogrid.

It should be noted that in addition to adherence of the above pavement design recommendations, a close control on the pavement construction process will also be required in order to obtain the desired pavement life. Therefore, it is recommended that regular inspection and testing should be conducted during the pavement construction to confirm material quality, thickness, and to ensure adequate compaction.

The most severe loading conditions on the subgrade may occur during construction. Consequently, special provisions such as end dumping and forward spreading of earth and aggregate fills, restricted construction lanes, and half-loads during paving and other work may be required, especially if construction is carried out during unfavorable weather.

5.2.2 Constructability Considerations

5.2.2.1 Excavations

Excavation where peat removal is carried out, will encounter the fill, the peat and the top of the underlying wet native sand. Where peat is to be left in place excavation will likely only encounter the fill, possibly the underlying peat.

Excavations must be carried out in accordance with the Occupational Health and Safety Act, Ontario Regulation 213/91 (as amended), Construction Projects, Part III - Excavations, Section 222 through 242. Where workers must enter a trench or excavation the soil must be suitably sloped and/or braced in accordance with the OHSA.

These regulations designate four (4) broad classifications of soils to stipulate appropriate measures for excavation safety. If more than one soil type is encountered in a trench, the soil type with the highest number will govern the trench/excavation sidewall geometry. Subject to adequate ground water control, as required and discussed in the next section, excavations for the pavement where peat is not encountered (peat is left in place) shall be carried out with Type 3 Soil geometry, with sidewalls to be constructed no steeper than 1 horizontal to 1 vertical (1H:1V) from the base of the excavation. Where the peart encountered (peat to be removed) Type 4 soil conditions are applicable. As such excavations that encounter peat will require side slopes to be flattened to 3H:1V from the base of the excavation. Further, depending on the thickness of the peat and moisture content, sidewalls flatter than 3H:1V may be required, subject to geotechnical review during construction.

Minimum support system requirements for steeper excavations are stipulated in Sections 235 through 238 and 241 of the OHSA and include provisions for timbering, shoring and moveable trench boxes. To reduce the potential for instability of the trench excavations, materials excavated from the service trenches and/or other fill materials or heavy equipment should not be placed near the crest of the trench excavations.

It is important to note that soils encountered in the construction excavations may vary significantly across the site. Our preliminary soil classifications are based solely on the materials encountered in the test pits advanced on site. The contractor should verify that similar conditions exist throughout the proposed area of excavation. If different subsurface conditions are encountered at the time of construction, we recommend that GEI be contacted immediately to evaluate the conditions encountered.

5.2.2.2 Temporary Construction Groundwater Control

The groundwater levels from the last reading (February 3, 2022) ranged from 1.13 to 1.40 metres below existing grade (local elevation 98.08 to 97.57 masl).

For excavations kept above the prevailing groundwater table (where peat removal is not attempted), any seepage from precipitation or minor perched water zones can be controlled using a conventional sump pump system.

For excavation the extends below the ground water table (where peat removal is carried out) sump pits created with a corrugated steel pipe filled with gravel which allows the water to enter the sumps and continuously pumping the sumps until all the water stored within the cohesionless soils are drained, may be required. Pumping from multiple sumps may be required.

It is recommended to carry out the work during the dry time of the year when the ground water table is lowest, to mitigate groundwater control measures. Also reducing the size of the excavation that is open at any one time will aid in reducing groundwater control requirements.

The exact scenario where these groundwater control techniques will work are estimates only and are directly correlated to how coarse/fine the native soils are in an excavation, and both the lateral and vertical extent of the cohesionless deposits encountered. If the groundwater table is not controlled during construction, the base of the excavations will probably be unstable, leading to difficulties in excavating and placement of pipes.

A preliminary assessment on the amount of dewatering required where peat excavation is carried out is likely less than 400,000 L/day. With reduced excavation size and carrying out work during the dry time of the year, dewatering is likely less than 50,000 L/day. Once design details are established, they should be provided to GEI to further assess dewatering requirements.

5.2.3 Compaction Specifications

Standard Proctor Maximum Dry Density (SPMDD) is the specification to indicate the degree to which soil or aggregate is compacted . To achieve the specified SPMDD as indicated in this report, all soils or aggregates must be placed in lift thicknesses no greater than 200 mm. If this is not the case, only the upper portion of the lift will be adequately compacted, and the lower portion of the lift has a high probability of not meeting compaction specifications. In addition, industry standard equipment used to determine the degree of compaction consists of nuclear densometers. These devices have an inherent limitation in that they cannot test beyond 300 mm in depth, and so the degree of compaction beyond this depth cannot be quantitatively determined.

Along with lift thickness, ensuring that the soil or aggregate is within 2% of its optimum moisture content ensures that the specified compaction can be reached. If the soil or aggregate is too dry/wet, it is either very difficult or impossible to reach the specified compaction. This is especially true for when higher compaction specifications such as 98% and 100% SPMDD are required.

Moisture can be increased by adding water and mixing the soil prior to re-use, or by importing soil to the site that is at optimum and can be readily compacted. Moisture can be reduced by tilling or spreading out the soil to dry or blending it with drier material. In-situ moisture contents can change based on the season and local groundwater levels and can also change for stockpiled material due to precipitation.

In addition to the above compaction specifications, in any areas where compacted fill will be placed over the exposed native soil subgrade, any loose, soft, wet or unstable areas should be sub-excavated, and backfilled with clean earth fill or Granular ‘B’ (OPSS.MUNI 1010) compacted to a minimum of 95% SPMDD. This recommendation applies to site servicing and pavement subgrades. Where structures/buildings require upfilling beneath the structure the fill should be compacted to 100% SPMDD.

5.2.4 Quality Verification Services

On-site quality verification services are an integral part of the geotechnical design function, and for foundations and retaining walls, are required under the Ontario Building Code (OBC). Quality verification services are used to confirm that construction is being conducted in general conformance with the requirements as outlined in the drawings, reports and specifications prepared for the proposed development.

GEI Consultants can provide all the on-site quality verification services outlined below:

- The subgrade for foundations must be field reviewed by the geotechnical engineer as required by the OBC.

- Installation of retaining structures over 1 metre in height and related backfilling operations must be field reviewed on a continuous basis by the geotechnical engineer as required by the OBC.
- Part-time monitoring of the subgrade support capabilities, material quality, lift thickness, moisture content, degree of compaction, etc. is recommended for the following areas to ensure the recommendations within this report are followed and they perform adequately in the long-term:
    a. Slabs-on-grade;
    b. Pavement structure (granular layers and asphalt); and
    c. Bedding/backfilling of site servicing.
- Full-time monitoring of the subgrade support capabilities, material quality, lift thickness, moisture content, degree of compaction, etc. is recommended for engineered fill under structures;
- Testing of the concrete (compressive strength, slump, air content, etc.) and testing of the asphalt (asphalt content and gradation) are recommended to ensure that the quality of the materials being brought to site meet the requirements of the project. This would only apply to poured in place foundations and not pre-cast structures.

6. Limitations and Conclusions

6.1 Limitations

The recommendations and comments provided are necessarily on-going as new information of underground conditions becomes available. More specific information with respect to the conditions between samples, or the lateral and vertical extent of materials may become apparent during excavation operations. The interpretation of the test pit information must, therefore, be validated during excavation operations. Consequently, conditions not observed during this investigation may become apparent. Should this occur, GEI should be contacted to assess the situation and additional testing and reporting may be required.

GEI should be retained for a general review of the final design drawings and specifications to verify that this report has been properly interpreted and implemented. If not accorded the privilege of making this review, GEI will assume no responsibility for interpretation of the recommendations in the report.

The comments given in this report are intended only for the guidance of the design engineers. The number of test pits required to determine the localized underground conditions between test pits affecting construction costs, techniques, sequencing, equipment, scheduling, etc. could be greater than has been carried out for design purposes. Contractors bidding on or undertaking the works should, in this light, decide on their own investigations, as well as their own interpretations of the factual test pit results, so that they may draw their own conclusions as to how the subsurface conditions may affect them.

This report was authorized by, and prepared by GEI for, the account of Pioneer Family Pools (as provided in the Standard Professional Services Agreement, signed December 23, 2021). Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. GEI accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this project.

6.2 Conclusion

It is recognized that municipal/regional governing bodies, in their capacity as the planning and building authority under Provincial statues, will make use of and rely upon this report, cognizant of the limitations thereof, both as are expressed and implied.

GEI trusts this report is complete within our terms of reference, and the information presented is sufficient for your present purposes. If you have any questions, or when we may be of further assistance, please do not hesitate to contact our office.

Yours Truly,

GEI Consultants

Prepared By:

Aiden Belfrage, B.E.S., Senior Environmental Technician

PROFESSIONAL GEOSCIENTIST ONTARIO
ALICIA KIMBERLEY
PRACTISING MEMBER
2949
Mar 4, 2022

Alicia Kimberley, MSc., P.Geo.
Geoenvironmental and Hydrogeological Practice Lead

Reviewed By:

LICENSED PROFESSIONAL ENGINEER
G. R. WHITE
PROVINCE OF ONTARIO

Geoffrey White, P.Eng
Geotechnical Practice Lead

Figures

Site Location Plan

Test Pit Location Plan (Aerial)

Test Pit Location Plan (Concept Plan)

Wellhead Protection Areas

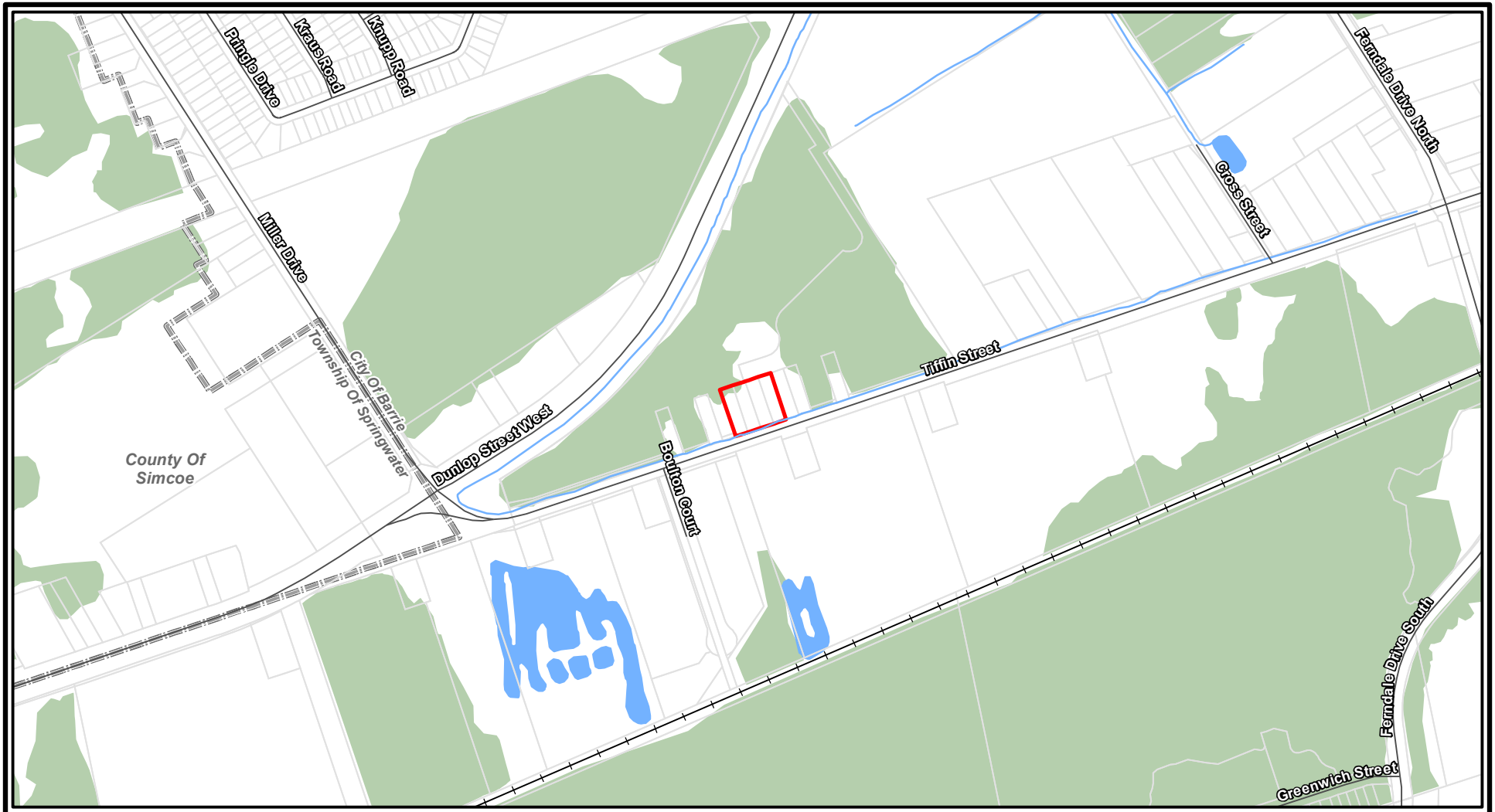
Intake Protection Zone

Highly Vulnerable Aquifers

Significant Groundwater Recharge Areas

MECP Well Record Locations

Groundwater Contour Map



Legend

- Site Location
- Railway
- Road
- Watercourse
- Municipal Boundary, Lower/Single Tier
- Municipal Boundary, Upper Tier
- Waterbody
- Wooded Area
- Parcels

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2022.
3. Parcel boundaries from 'CA ON Simco Parcels', AGOL Web Service. Accessed Jan 2022.

0 100 200 m

1:8,000

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

Pioneer Family Pools

GEI Consultants

Project 2200026

SITE LOCATION PLAN

March 2022 Fig. 1



Legend

Site Location

Test Pit Location

NOTES:
1. Coordinate System: NAD 1983 UTM Zone 17N.
3. Orthoimagery © First Base Solutions, 2022. Imagery taken in 2020.

0 8.5 17 m

1:700

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

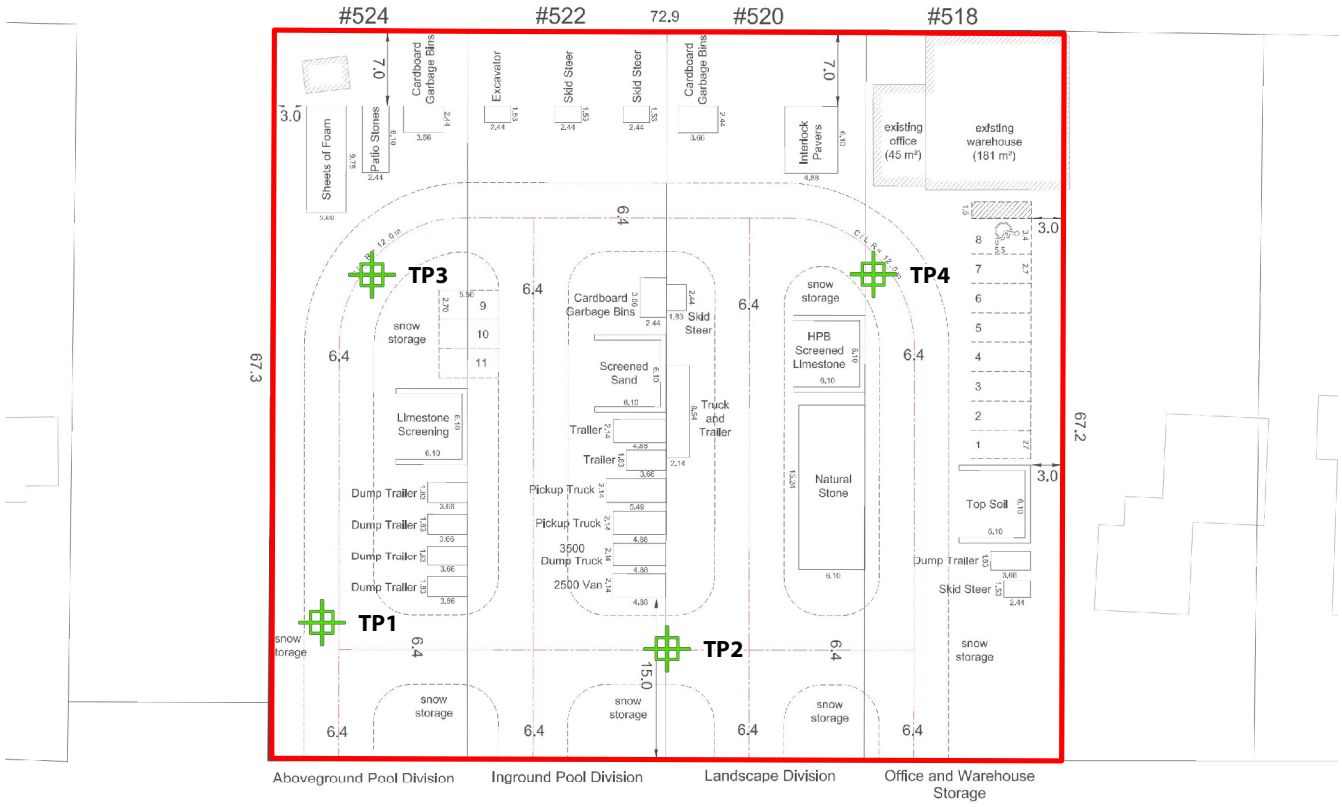
Pioneer Family Pools

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Project 2200026

TEST PIT LOCATION PLAN (AERIAL)

March 2022 Fig. 2A



Legend

Site Location

Test Pit Location

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Site Plan: 'Pioneer Family Pools Barrie Inc. Concept Plan'. File: PIO-21060-CP-1.dwg, Jones Consulting Group LTD., July 30, 2021.

0 8.5 17 m

1:700

N

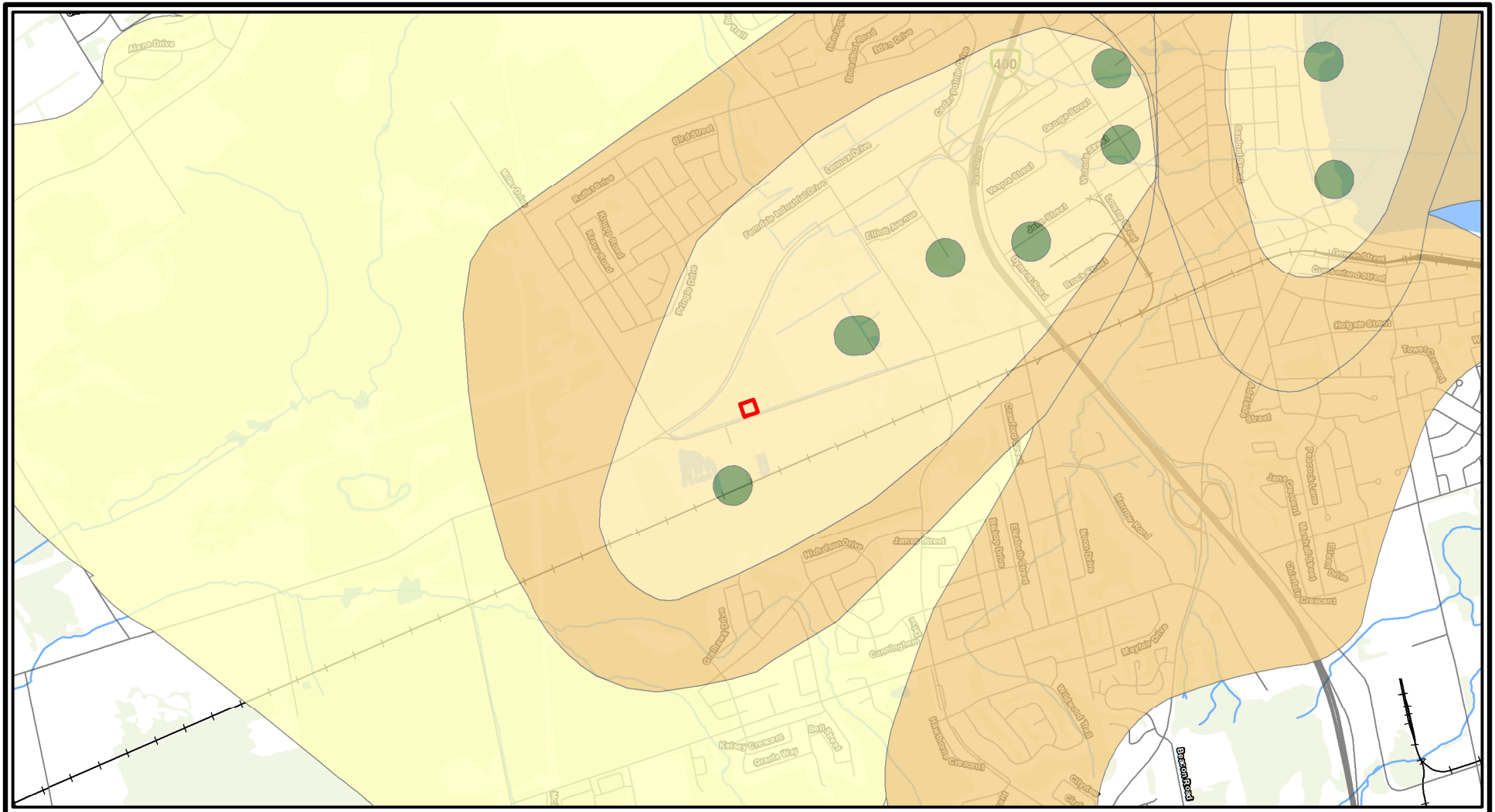
518, 520, 522, 524 Tiffin Street
Barrie, ON

Pioneer Family Pools

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TEST PIT LOCATION PLAN (SITE PLAN)

Project 2200026 | March 2022 | Fig. 2B



Legend

- Site Location
- Railway
- Highway
- Road
- Watercourse
- Waterbody
- Wooded Area

Wellhead Protection Area (LSRCA 2021)

Zone
- A
- B
- C
- D

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2022.
3. Site is within a Zone B Wellhead Protection Area.

0 380 760 m

1:30,000

N

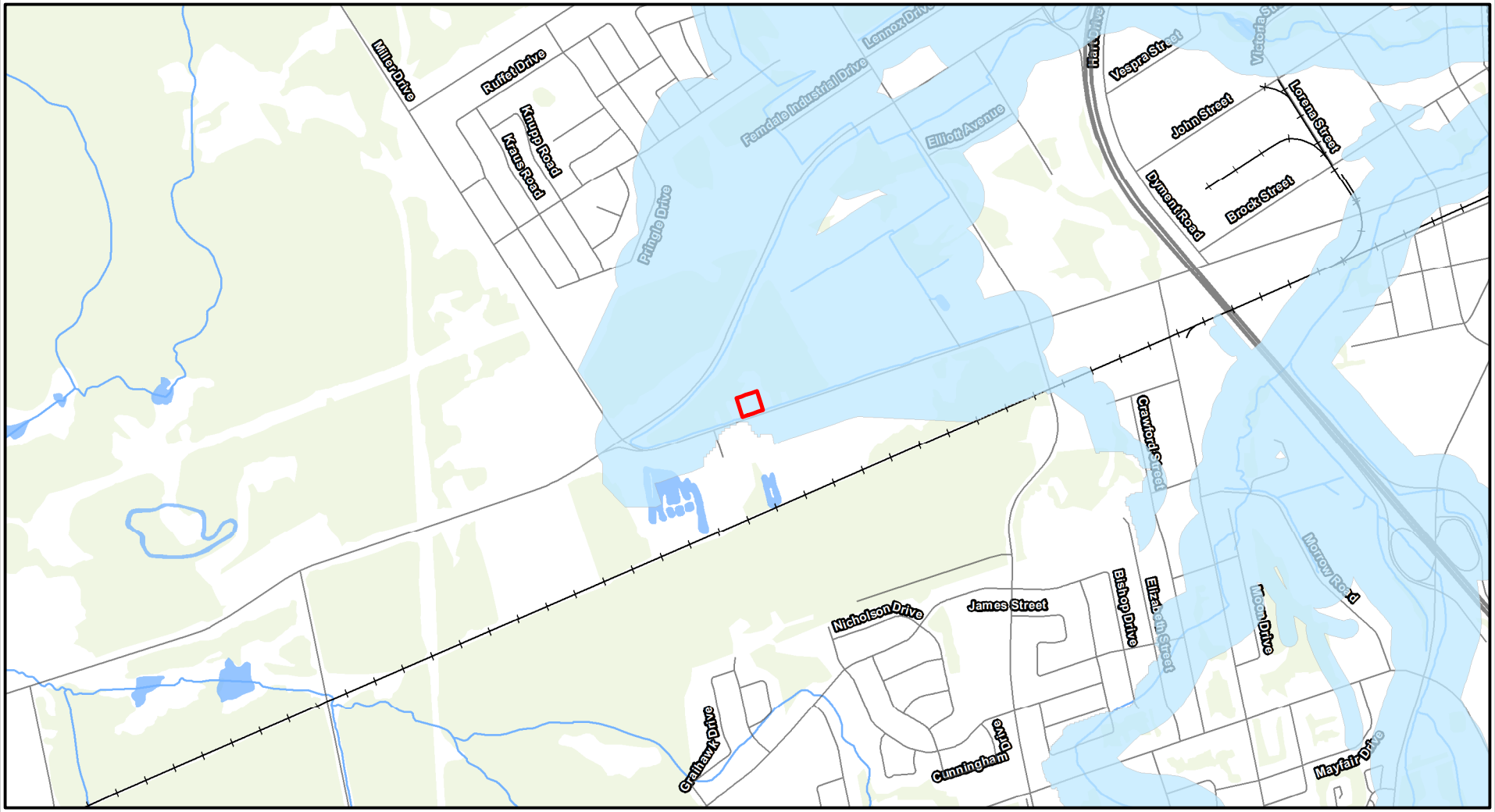
518, 520, 522, 524 Tiffin Street
Barrie, ON

Pioneer Family Pools

GEI Consultants

WELLHEAD PROTECTION AREAS

Project 2200026 | March 2022 | Fig. 3



Legend

- Site Location
- Railway
- Highway
- Road
- Watercourse
- Waterbody
- Wooded Area

Intake Protection Zone
- 3

NOTES:
1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2022.
3. Site is within Intake Protection Zone 3.

0 250 500 m

1:20,000

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

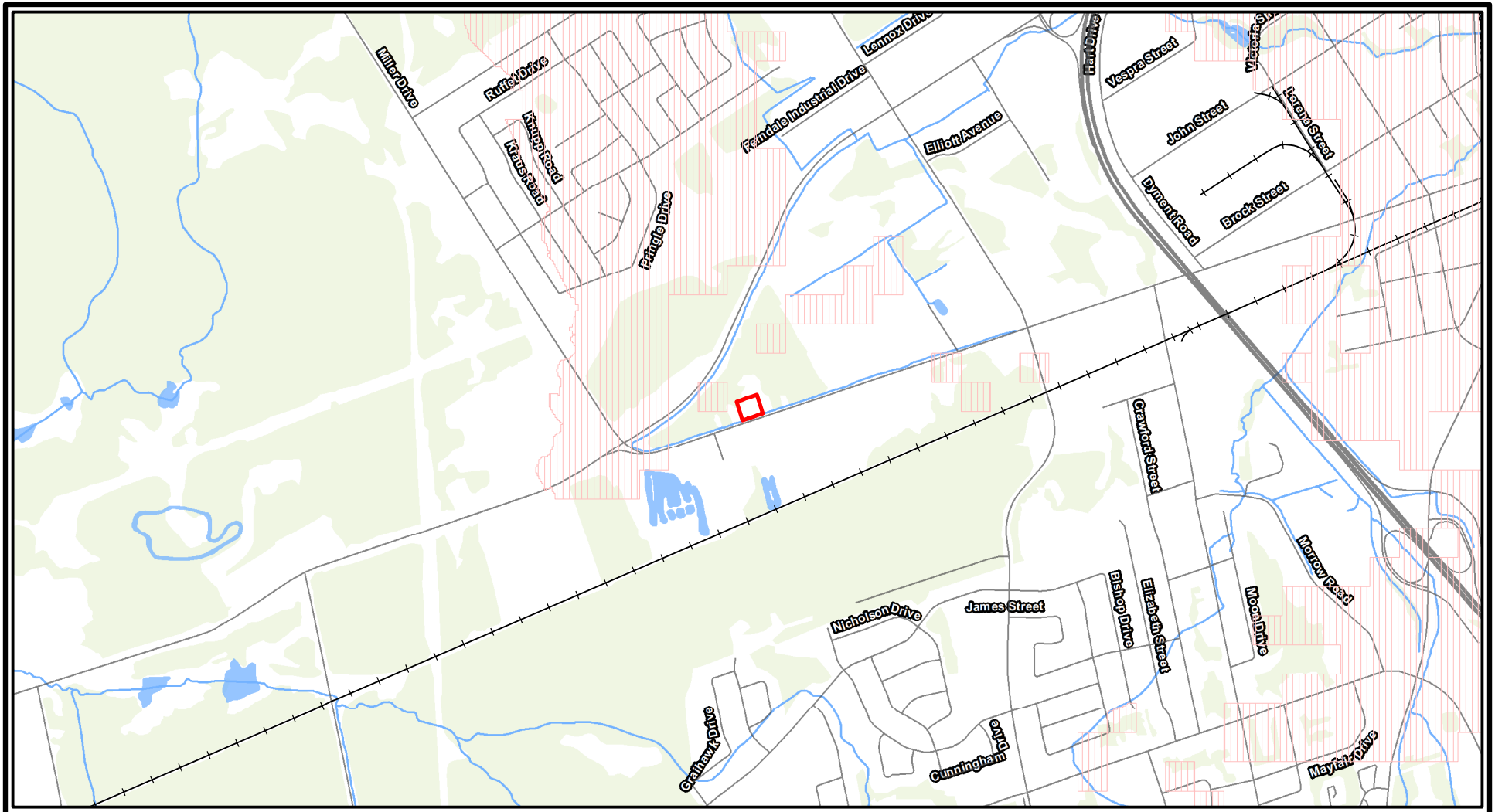
Pioneer Family Pools

GEI Consultants

Project 2200026

INTAKE PROTECTION ZONES

March 2022 Fig. 4



Legend

- Site Location
- Railway
- Highway
- Road
- Watercourse
- Waterbody
- Wooded Area
- Highly Vulnerable Aquifer (LSRCA 2021)

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2022.
3. Site is not within a Highly Vulnerable Aquifer.

0 250 500 m

1:20,000

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

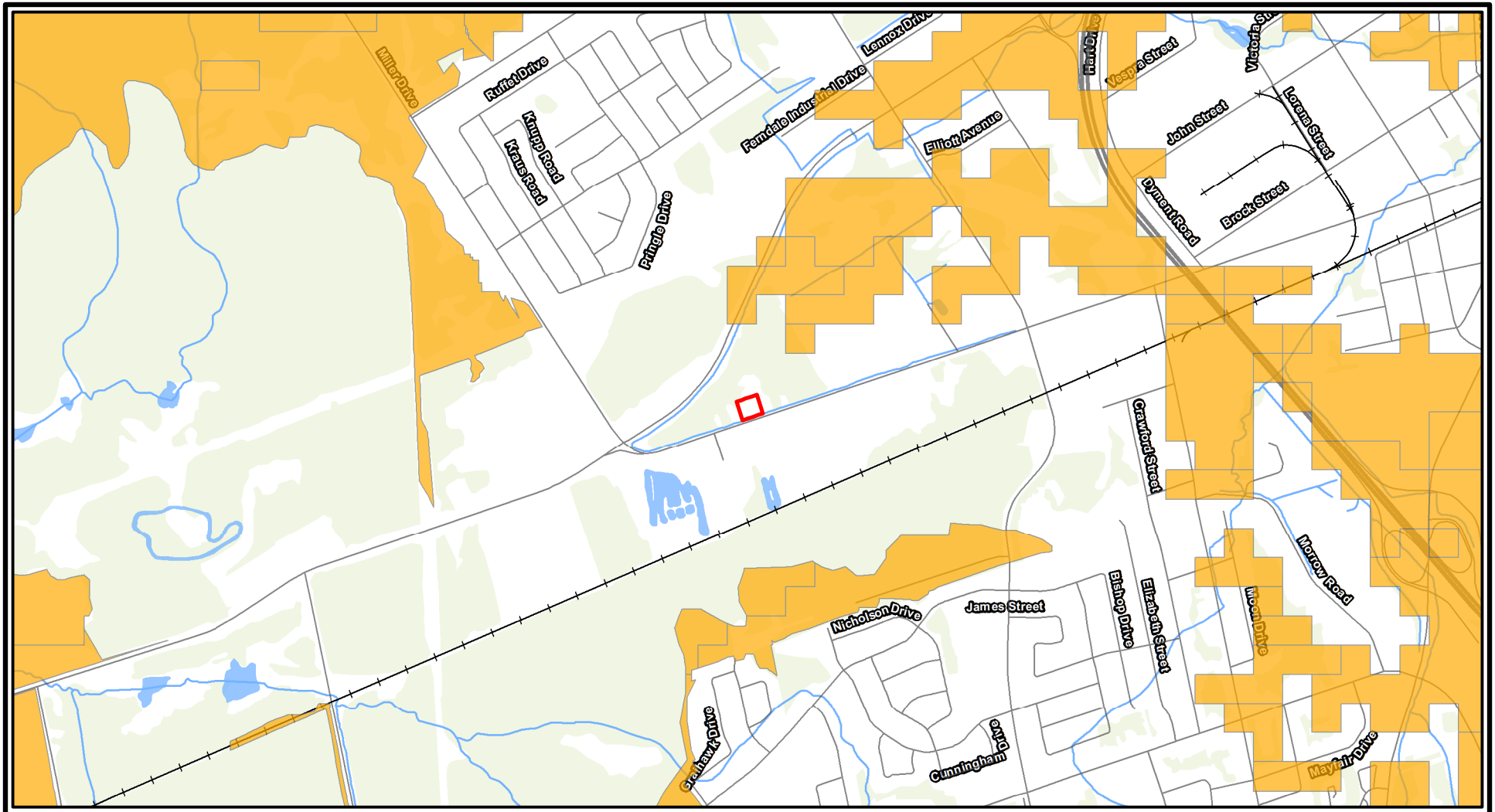
Pioneer Family Pools

GEI Consultants

Project 2200026

HIGHLY VULNERABLE AQUIFERS

March 2022 Fig. 5



Legend

- Site Location
- Railway
- Highway
- Road
- Watercourse
- Waterbody
- Wooded Area
- Significant Groundwater Recharge Areas (LSRCA 2021)

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2022.
3. Site is not within a Significant Groundwater Recharge Area.

0 250 500 m

1:20,000

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

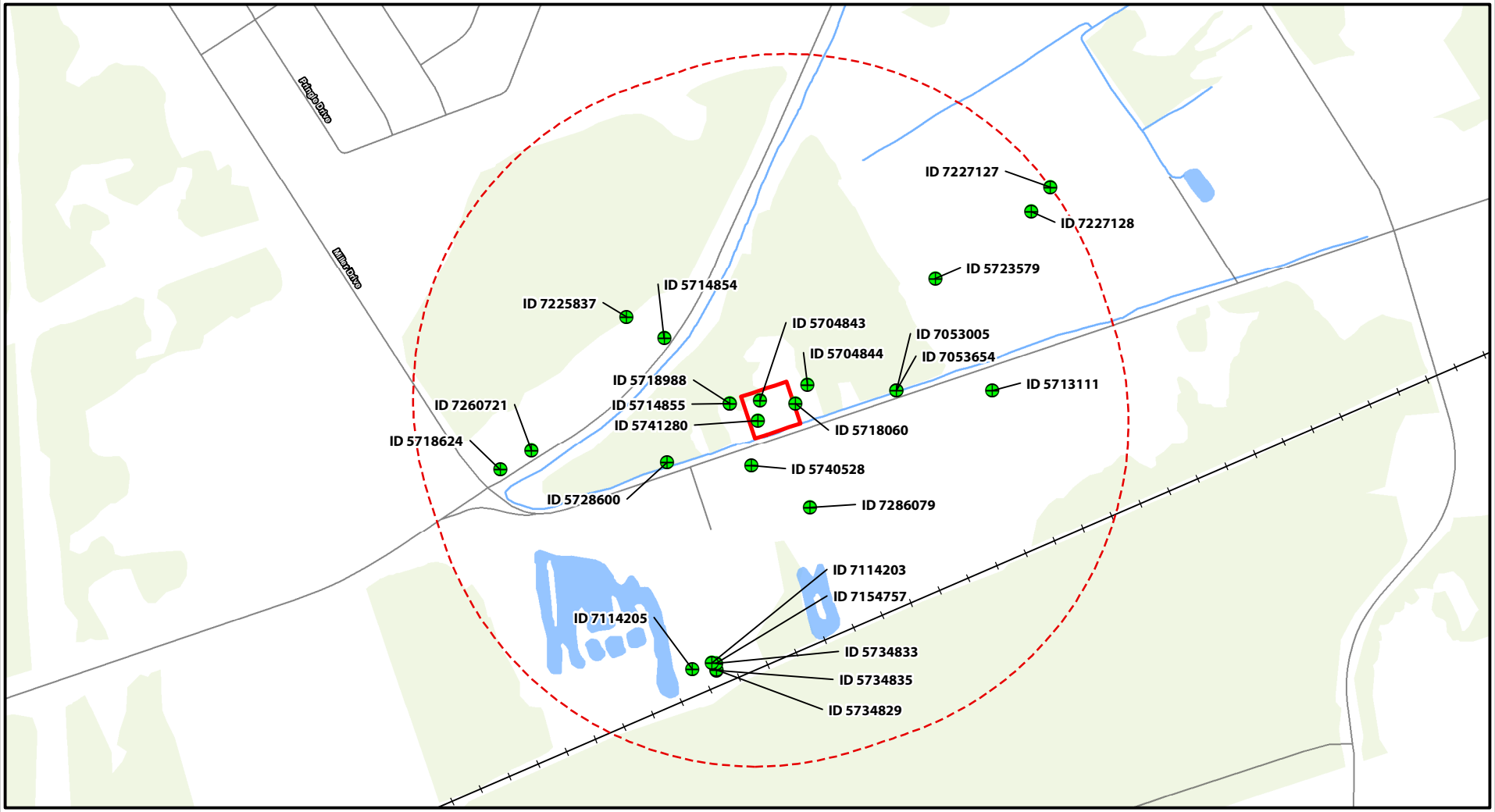
Pioneer Family Pools

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Project 2200026

SIGNIFICANT GROUNDWATER RECHARGE AREAS

March 2022 Fig. 6



Legend

- Site Location
- Site Location +500m
- MESP Well Record within 500m of Site Boundary (WWIS 2021)
- Railway
- Road
- Watercourse
- Waterbody
- Wooded Area

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2022.

0 110 220 m

1:9,000

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

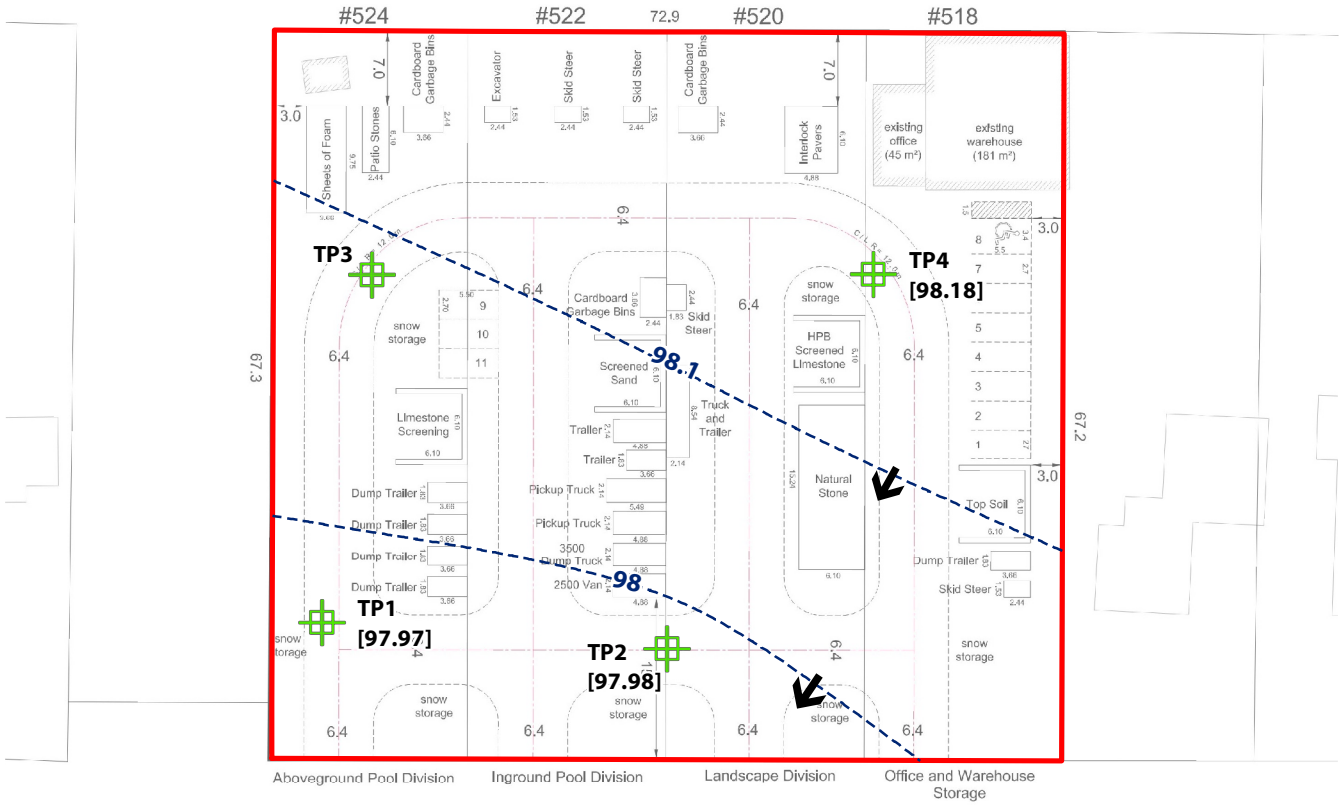
Pioneer Family Pools

GEI Consultants

Project 2200026

MECP WELL RECORD LOCATIONS

March 2022 Fig. 7



Legend

- Site Location
- Test Pit Location
- Groundwater Contours
- [xx.xx] Groundwater Level (masl) (January 19, 2022)
- Interpreted Direction of Groundwater Flow

NOTES:

1. Coordinate System: NAD 1983 UTM Zone 17N.
2. Site Plan: 'Pioneer Family Pools Barrie Inc. Concept Plan'. File: PIO-21060-CP-1.dwg, Jones Consulting Group LTD., July 30, 2021.
3. Water levels (masl) measured on January 19, 2022

0 8.5 17 m

1:700

N

518, 520, 522, 524 Tiffin Street
Barrie, ON

Pioneer Family Pools

GEI Consultants

GROUNDWATER CONTOURS

Project 2200026 | January 2022 | Fig. 8

Appendix A

MECP Well Record Summary Table

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
BARRIE CITY	17 601668 4913443 W	2007/11 6926	1.99	FR 0003		DE		7053005 (Z62263) A071567	GREY LOAM 0002 BRWN SAND SLTY CLAY 0015
BARRIE CITY	17 601668 4913443 W	2007/11 6926						7053654 (Z62275) A071567 A	GREY LOAM 0002 BRWN SAND SLTY CLAY 0015
BARRIE CITY (VESPRA)	17 601112 4913352 W	2015/06 7383	2	7		TH	0005 10	7260721 (Z208381) A182324	
BARRIE CITY (VESPRA)	17 601874 4913716 W	2014/08 7190	4 2	UT 0005		MT	0005 10	7227128 (Z186044) A146232	BLCK SAND 0002 BLCK SAND 0010 GREY SAND 0015
BARRIE CITY (VESPRA)	17 601257 4913555 W	2014/08 7201	2			MT	0009 5	7225837 (Z187563) A164187	BRWN SAND GRVL SILT 0004 BRWN SAND SILT CLAY 0010 GREY CLAY SAND 0015
BARRIE CITY (VESPRA) 07 025	17 601727 4913614 W	1988/06 2801	2 1 1	FR 0282	52/53/30/1: 20	NU	0297 20	5723579 (31211)	CLAY FILL 0006 BLCK MUCK 0008 BRWN SAND CLAY SLTY 0011 GREY SAND CLAY 0016 GREY CLAY SAND 0086 CLAY SAND SLTY 0092 SAND CLAY SLTY 0120 CLAY SAND SNDY 0155 CLAY SAND SNDY 0228 GREY CLAY GRVL SNDY 0232 GREY CLAY SAND SNDY 270 GREY CLAY GRVL SNDY 0289 GRVL SAND HARD 0292 SAND GRVL PCKD 0307 CLAY GRVL SNDY 0322 CLAY GRVL SNDY 0340 WHIT CLAY SAND GRVL 0349 WHIT CLAY GRVL CMTD 0352
BARRIE CITY (VESPRA) 524	17 601457 4913397 W	2006/09 2514				DO		5741280 (Z34744) A048099 A	
BARRIE CITY (VESPRA) CON 07 025	17 601460 4913428 W	1959/05 1637	4	FR 0060	6/40/7/2:0	DO	0062 5	5704843 ()	GRVL MUCK 0037 HPAN 0060 CSND 0067
BARRIE CITY (VESPRA) CON 07 025	17 601532 4913452 W	1964/10 4715	4	FR 0103 FR 0222	20/26/20/48 :0	DO		5704844 ()	FILL 0002 MSND SILT 0010 GREY CLAY 0040 CLAY MSND SILT 0095 GREY CLAY 0103 GRVL MSND 0105 CLAY SILT 0215 GREY CLAY 0222 CLAY SILT MSND 0226 FSND GRVL 0247
INNISFIL TOWNSHIP	17 601536 4913265 W	2017/03 7190	1.25	UT 0012	12///:	MO	0010 5	7286079 (Z255332) A216610	BRWN CLAY SILT DRY 0010 BRWN SILT CLAY SAND 0015
INNISFIL TOWNSHIP CON 14 002	17 601014 4913123 W	1984/11 4816	6	FR 0040	6/30/20/2:0	DO	0034 3	5719487 ()	SAND FILL 0002 BLCK SAND 0006 CLAY SAND 0020 MSND 0040
INNISFIL TOWNSHIP CON 14 003	17 601394 4913017 W	1999/08 2801	14 8		40/55/5004 /48:0	MN	0272 30	5734829 (173495)	BLCK LOAM 0005 SILT SAND GRVL 0010 GREY CLAY SOFT VERY 0016 SAND GRVL CLAY 0024 SAND GRVL 0046 CLAY SAND SOFT 0052 GRVL 0063 GREY CLAY 0066 SAND GRVL CLAY 0071 GREY CLAY SAND GRVL 080 GREY CLAY 0148 GREY CLAY STNY 0184 CLAY SAND GRVL 0192 GREY CLAY STNY 0230 GRVL BLDR GRVL 0272 GRVL SAND BLDR 0296 GRVL CMTD 0301 GRVL CMTD 0304 UNKN 0308 GREY CLAY STNY 0316
INNISFIL TOWNSHIP CON 14 003	17 601394 4913016 W	1999/08 2801	2		8///:	PS	0042 5	5734835 (173496)	BLCK LOAM 0005 SILT SLTY SAND 0010 GREY CLAY SOFT VERY 0016 SAND GRVL 0024 SAND GRVL 0045 SAND GRVL CLAY 0049

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
INNISFIL TOWNSHIP CON 14 003	17 601447 4913329 W	2006/02 2801	5.90 2.00 1.25		38//28/1:0	NU	0250 30	5740528 (Z33256) A011223	FILL 0002 BLCK LOAM 0004 SAND PCKD 0015 GREY CLAY 0021 FSND MSND 0061 FGVL FSND MGVL 0068 SAND PCKD 0087 GREY CLAY GRVL 0100 GREY CLAY SAND GRVL 0119 GREY SAND CLAY PCKD 0171 GREY SAND GRVL 0192 MSND PCKD FSND 0213 GREY CLAY HARD 0222 GREY CLAY GRVL 0238 GRVL SAND BLDR 0276 GRVL CLAY 0285 CLAY GRVL 0299
INNISFIL TOWNSHIP CON 14 003	17 601393 4913027 W	1999/05 2801	2		45/46/30/3: 0	MN	0234 20	5734833 (156613)	BLCK LOAM 0006 SAND GRVL CLAY 0015 SAND GRVL 0025 GRVL CLAY 0044 SAND 0059 GREY CLAY 0068 SAND CLAY 0071 GREY CLAY 0149 GREY CLAY SAND GRVL 0185 CLAY SAND GRVL 0192 GREY CLAY STNY 0206 CLAY SAND GRVL 0214 GREY CLAY STNY 0226 SAND GRVL CLAY 0232 SAND GRVL PCKD 0239 SAND GRVL PCKD 0255 GREY CLAY SNDY 0260 GREY CLAY 0272 GRVL SNDY CLAY 0297 GRVL SNDY CLAY 0302 GRVL CMTD 0304 GREY CLAY STNY 0325
INNISFIL TOWNSHIP CON 14 003	17 601357 4913018 W	2008/02 2801			37///:	TH		7114205 (Z68121) A011239	FILL 0008 SAND GRVL LYRD 0020 SAND GRVL PCKD 0092 GREY CLAY SAND LYRD 0160 SAND PCKD 0187 GREY CLAY HARD 0230 GRVL SAND CMTD 0240 SAND GRVL PCKD 0274 GRVL MRBL CMTD 0289 GRVL BLDR SAND 0311 SAND GRVL PCKD 0314 SAND GRVL 0331
INNISFIL TOWNSHIP CON 14 003	17 601393 4913027 W	2010/10 2801						7154757 (Z115271) A	
INNISFIL TOWNSHIP CON 14 003	17 601387 4913028 W	2007/12 2801	0.15	FR 0039	45///72:23	MN		7114203 (Z68141) A011235	FILL 0008 SAND CLAY LYRD 0020 SAND GRVL PCKD 0046 SAND PCKD 0072 GREY CLAY SAND LYRD 0084 GREY CLAY 0170 GREY CLAY GRVL 0196 GREY CLAY GRVL HARD 0224 GREY SAND CLAY PCKD 0233 GRVL BLDR 0238 GRVL MARL CMTD 0247 GREY CLAY SAND 0255 FGVL MARL CMTD 0262 FSND PCKD 0275 GRVL MARL BLDR 0292 GRVL MARL CMTD 0307 GREY CLAY GRVL 0314
INNISFIL TOWNSHIP CON 14 004	17 601814 4913443 W	1975/06 2514	6	FR 0063	7/64/5/2:0	IN	0064 3	5713111 ()	FILL 0005 MUCK DKCL 0007 GREY CLAY 0019 GREY SILT 0043 GREY SAND SILT 0063 GREY SAND GRVL SILT 0067
VESPRA TOWNSHIP CON 07 025	17 601318 4913333 W	1991/10 2514	6	FR 0237	35/55/35/1: 30	DO	0237 3	5728600 (108636)	BLCK LOAM 0002 BLCK MUCK 0004 GREY CLAY SNDY 0197 GREY FSND LYRD CLAY 0236 BRWN SAND GRVL 0240
VESPRA TOWNSHIP CON 07 025	17 601314 4913523 W	1977/11 2801	2		33/38/35/3: 0	NU	0330 10	5714854 ()	BLCK MUCK SOFT 0003 BRWN SAND GRVL LOOS 0010 GREY CLAY SOFT 0088 GREY CLAY SAND LYRD 0103 GREY SAND CLAY 0111 GREY CLAY HARD 0136 GREY CLAY FSND LYRD 0151 GREY FSND PCKD 0160 GREY CLAY HARD 0169 GREY FSND CLAY PCKD 0225 GREY CLAY SILT HARD 0253 GREY CLAY SAND LYRD 0265 GREY FSND FGVL PCKD 0275 GREY CLAY GRVL PCKD 0280 SAND GRVL BLDR 0283 GRVL SAND BLDR 0295 GREY SAND FGVL 0307 GRVL SAND PCKD 0338 GREY CLAY HARD 0346 GREY CLAY GRVL HARD 0361
VESPRA TOWNSHIP CON 07 025	17 601514 4913423 W	1982/04 3203	5	FR 0073	73/83/10/1: 0	DO	0083 3	5718060 ()	FILL 0002 BRWN CLAY 0017 GREY CLAY 0051 GREY SILT 0073 GREY MSND 0083

TOWNSHIP CON LOT	UTM	DATE CNTR	CASING DIA	WATER	PUMP TEST	WELL USE	SCREEN	WELL	FORMATION
VESPRA TOWNSHIP CON 07 025	17 601414 4913423 W	1977/11 2801	2 1			NU	0314 22	5714855 ()	BLCK MUCK 0003 BRWN SAND GRVL LOOS 0011 GREY CLAY STKY SOFT 0043 GREY FSND CLAY SOFT 0092 GREY FSND FGVL PCKD 0106 GREY CLAY HARD 0113 GREY FSND PCKD 0115 GREY CLAY FSND LYRD 0119 GREY CLAY HARD 0129 GREY FSND PCKD 0146 GREY CLAY FSND LYRD 0160 GREY FSND CLAY PCKD 0217 GREY CLAY FSND LYRD 0226 GREY FSND CLAY LYRD 0231 GREY CLAY FSND LYRD 0240 GREY CLAY HARD 0255 WHIT SAND GRVL CMTD 0267 GREY SAND GRVL PCKD 0292 GREY SAND FGVL BLDR 0324 GREY CLAY SAND HARD 0327 GRVL SAND BLDR 0339 GREY CLAY GRVL LYRD 0357
VESPRA TOWNSHIP CON 07 025	17 601064 4913323 W	1983/08 1467	5	FR 0019	8/15/30/1:0	CO	0041 3	5718624 ()	BRWN LOAM 0001 BRWN FILL 0003 GREY SAND DRY 0019 GREY MSND 0050
VESPRA TOWNSHIP CON 07 025	17 601414 4913423 W	1984/01 3660	5	MN 0054	13/35/20/24 :0	DO	0060 5	5718988 ()	BRWN SAND FILL 0005 BRWN SAND DRTY 0015 GREY CLAY 0054 GREY MSND WBRG 0065

Appendix B

Test Pit Logs

TEST PIT LOG

Project Name:	518 to 524 Tiffin St.	Test Pit #:	1
Project #:	2200026	Date/Time:	Jan. 12, 2022
Project Loc.:	Barrie	Inspector:	BH
Client:	Pioneer Family Pools	Weather:	Overcast 0C
Contractor:	Morris Shelswell	Equipment:	Rubber Track Excavator
Northing:	4913383	Easting:	601453

Depth (m)		Symbol	Stratigraphy	Samples	Notes
Top	Bottom				
0	0.8		FILL : Organic Silt and Sand, Trace Gravel with Steel wire/metals, Brown, Moist	0.5m	
0.8	1.8		Peat, Black, Wet	1.2m	
1.8	2.1		Sand, Trace Silt, Brown, Wet	2.0m	

Additional Notes

Seepage:	**Flowing water condition below 1.8m**
Caving:	**Below peat layer 1.8m**
Other:	**S/P Installed at 2.1m; Elev. 99.13**

GEI Consultants

647 Welham Road, Unit 14
Barrie, Ontario, L4N 0B7
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TEST PIT LOG

Project Name:	518 to 524 Tiffin St.	Test Pit #:	2
Project #:	2200026	Date/Time:	Jan. 12, 2022
Project Loc.:	Barrie	Inspector:	BH
Client:	Pioneer Family Pools	Weather:	Overcast 0C
Contractor:	Morris Shelswell	Equipment:	Rubber Track Excavator
Northing:	4913391	Easting:	601484

Depth (m)		Symbol	Stratigraphy	Samples	Notes
Top	Bottom				
0	0.5		Fill: Sand, Trace Silt, Brown, Moist	0.3m	
0.5	1.8		Peat, Black, Wet	1.0m	
1.8	2.0		Sand, Trace Silt, Grey Stain, Wet	2.0m	

Additional Notes

Seepage:	**Flowing water condition below 0.5m**
Caving:	**Below peat layer 1.8m**
Other:	**S/P Installed at 2.0m; Elev. 98.93**

GEI Consultants

647 Welham Road, Unit 14
Barrie, Ontario, L4N 0B7
T: (705) 719-7994

TEST PIT LOG

Project Name:	518 to 524 Tiffin St.	Test Pit #:	3
Project #:	2200026	Date/Time:	Jan. 12, 2022
Project Loc.:	Barrie	Inspector:	BH
Client:	Pioneer Family Pools	Weather:	Overcast 0C
Contractor:	Morris Shelswell	Equipment:	Rubber Track Excavator
Northing:	4913425	Easting:	601447

Depth (m)		Symbol	Stratigraphy	Samples	Notes
Top	Bottom				
0	0.5		FILL : Sand, Trace Organics, Trace Gravel, Trace Silt, Brown, Moist		
0.5	1.6		Peat, Black, Wet	0.7m	
1.6	2.0		Sand, Trace Silt, Brown, Wet	1.7m	

Additional Notes

Seepage:	**Flowing water condition below 1.0m**
Caving:	**Below peat layer 1.6m**
Other:	**Elev. 98.96**

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Barrie, Ontario, L4N 0B7
T: (705) 719-7994

TEST PIT LOG

Project Name:	518 to 524 Tiffin St.	Test Pit #:	4
Project #:	2200026	Date/Time:	Jan. 12, 2022
Project Loc.:	Barrie	Inspector:	BH
Client:	Pioneer Family Pools	Weather:	Overcast 0C
Contractor:	Morris Shelswell	Equipment:	Rubber Track Excavator
Northing:	49133430	Easting:	601491

Depth (m)		Symbol	Stratigraphy	Samples	Notes
Top	Bottom				
0	0.5		FILL : Sand, Trace Organics, Trace Gravel, Trace Silt, Brown, Moist	0.3m	
0.5	1.7		Peat, Black, Wet	1.0m	
1.7	2.1		Sand, Trace Silt, Brown, Wet	2.0m	

Additional Notes

Seepage:	**Water Seepage at 1.4m**
Caving:	**Below 1.4m**
Other:	**S/P Installed at 2.1m; Elev. 99.21**

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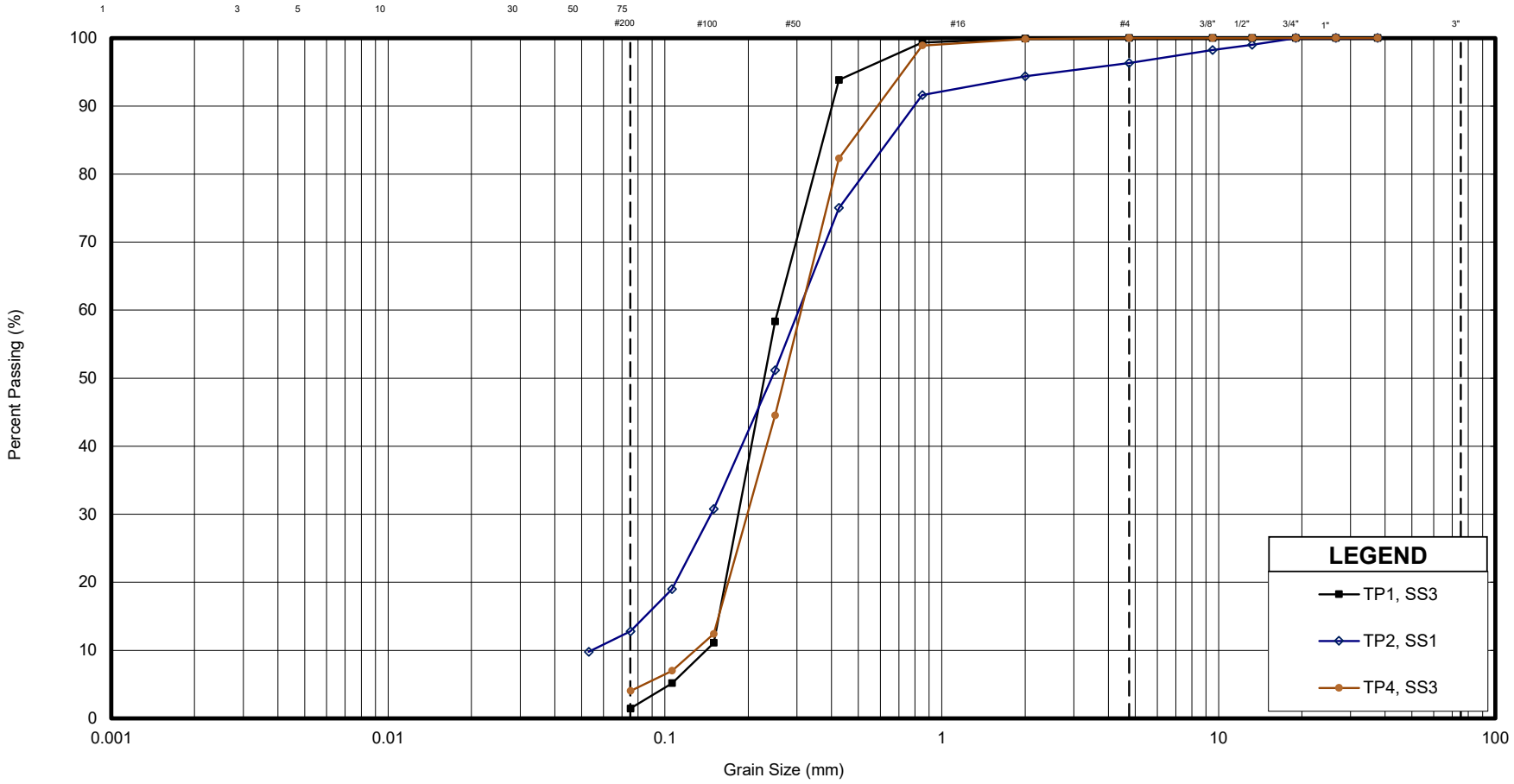
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Appendix C

Geotechnical Laboratory Results

UNIFIED SOIL CLASSIFICATION SYSTEM

CLAY AND SILT	SAND			GRAVEL	
	Fine	Medium	Coarse	Fine	Coarse



Sample	Description	Gr.	Sa.	Si.	Cl.	D_{10}	D_{30}	D_{60}	C_u	C_c
TP1, SS3	SAND, Trace Silt	0	99	1	-	0.141	0.184	0.256	1.8	0.9
TP2, SS1	SAND, Some Silt, Trace Gravel	4	84	12	-	0.055	0.147	0.304	5.5	1.3
TP4, SS3	SAND, Trace Silt	0	96	4	-	0.129	0.198	0.311	2.4	1.0

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GRAIN SIZE DISTRIBUTION - 518 to 524 Tiffin Street

SAND

FIGURE No.	Graph
REF. No.	2200026
DATE	March 2022

Appendix D

Preliminary Water Balance

File No. 2200026

Water Balance - 518 to 524 Tiffin Street, Barrie, Ontario

MONTHLY AND YEARLY WATER BALANCE COMPONENTS														
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
Potential Evapotranspiration Calculation	Average Temperature: T (^{o}C)	-7.7	-6.6	-2.1	5.6	12.3	17.9	20.8	19.7	15.3	8.7	2.7	-3.5	6.9
	Heat Index: $i=(T/5)^{1.514}$	0.00	0.00	0.00	1.19	3.91	6.90	8.66	7.97	5.44	2.31	0.39	0.00	36.8
	Unadjusted Daily Potential Evapotranspiration: U (mm)	0.0	0.0	0.0	25.2	59.0	88.5	104.1	98.1	74.7	40.6	11.5	0.0	501.7
	Adjusting Factor for U (Latitude 44^{o})	0.81	0.81	1.02	1.13	1.27	1.28	1.30	1.20	1.04	0.94	0.80	0.76	-
	Adjusted Potential Evapotranspiration - PET (mm)	0.0	0.0	0.0	28.5	74.9	113.3	135.3	117.8	77.7	38.1	9.2	0.0	594.8
Pervious Components	Precipitation: P (mm)	82.5	61.8	58.1	62.2	82.4	84.8	77.2	89.9	94.0	77.5	88.9	73.6	932.9
	Adjusted Potential Evapotranspiration: PET (mm)	0.0	0.0	0.0	28.5	74.9	113.3	135.3	117.8	77.7	38.1	9.2	0.0	594.8
	P - PET	82.5	61.8	58.1	33.7	7.5	-28.5	-58.1	-27.9	16.3	39.4	79.7	73.6	338.1
	Change in Soil Moisture Storage (mm)	0.0	0.0	0.0	0.0	0.0	-28.5	-58.1	-27.9	16.3	39.4	0.0	0.0	-
	Water Holding Capacity (max. 75 mm)	75.0	75.0	75.0	75.0	75.0	46.5	0.0	0.0	16.3	55.7	75.0	75.0	-
	Water Surplus Available for Infiltration or Runoff	82.5	61.8	58.1	33.7	7.5	0.0	0.0	0.0	0.0	0.0	60.4	73.6	377.6
	Potential Infiltration based on MECP Infiltration Factor (mm)	57.8	43.3	40.7	23.6	5.2	0.0	0.0	0.0	0.0	0.0	42.3	51.5	264.3
	Potential Surface Water Runoff (mm)	24.8	18.5	17.4	10.1	2.2	0.0	0.0	0.0	0.0	0.0	18.1	22.1	113.3
Impervious Components	Precipitation: P (mm)	-												932.9
	Potential Evaporation: PE (mm), Assume 15%	-												139.9
	Potential Surface Water Runoff: P - PE (mm)	-												793.0

PRE- AND POST-DEVELOPMENT WATER BALANCE (NO LOW IMPACT DEVELOPMENT MEASURES IN PLACE)							
		Total Land Area (m^2)	Est. Fraction of Land	Est. Land Area (m^2)	Runoff (m^3/annum)	Infiltration (m^3/annum)	**Runoff Increase Pre to Post**
Existing Land Use (Pre-Development)	Pervious Area	4906.2	70%	3434.3	389.0	907.7	32%
	Impervious Area (house, shed, walkway and driveway)		30%	1471.9	1167.1	0.0	**Infiltration Decrease Pre to Post**
	TOTAL	-	100%	4906.2	1556.2	907.7	-21%
Proposed Land Use (Post-Development)	Pervious Area	4906.2	55%	2698.4	305.7	713.2	**Infiltration Required to Meet Pre-Development Conditions (m^3)**
	Impervious Area (warehouse, office, laneways, parking and shed)		45%	2207.8	1750.7	0.0	
	TOTAL	-	100%	4906.2	2056.4	713.2	195

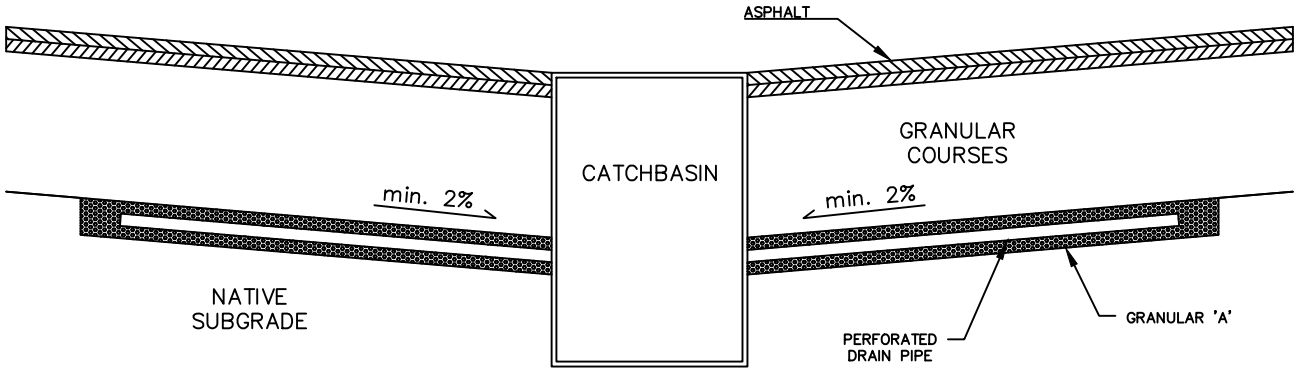
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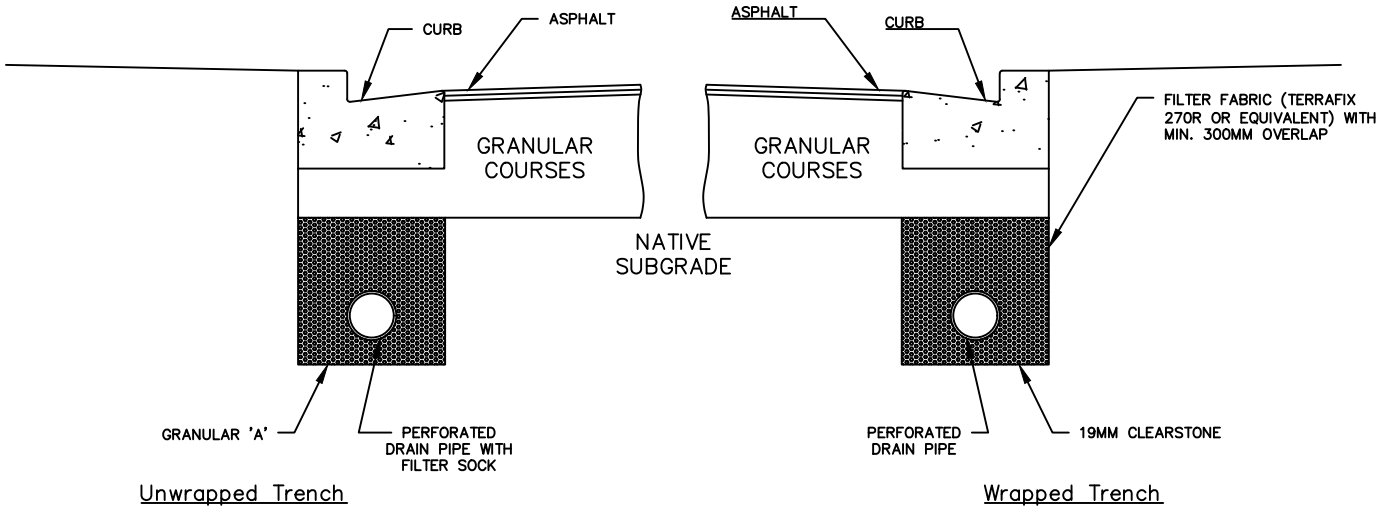
1. Both potential infiltration and surface water runoff are independent of temperature
2. Assumption is in January maximum soil moisture storage value is present (75mm)
3. Water Holding Capacity & Infiltration Factors taken from Table 3.1 of MOE SWMPDM, 2003
4. Average Temp. and Precip. taken from Environment Canada station "Barrie WPCC" between 1981 and 2010
5. Adjusting Factor for U based on Lorente, 1961

Infiltration Criteria	Site Description	Infiltration Factor
Topography	Rolling Land - Average Slope 2.8 to 3.8 m/km	0.2
Soils	Open Sandy Loam	0.4
Cover	Cultivated Land	0.1
	Sum of Infiltration Factors	**0.7**

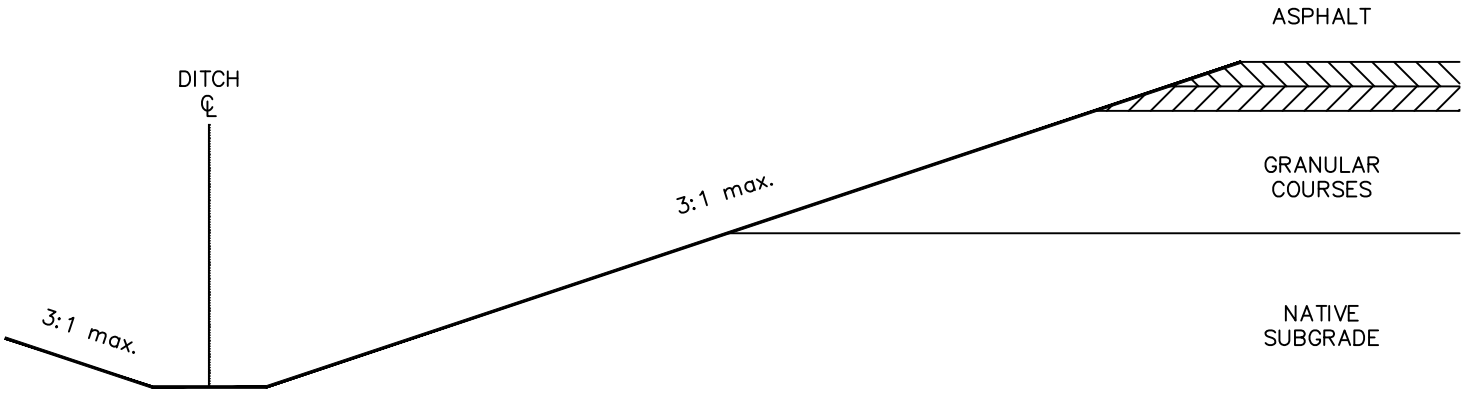
Appendix E

Pavement Drainage Typical Details





Urban Cross Sections



Rural Cross Section

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647 Welham Rd, Unit 14, Barrie, ON, L4N 0B7

PAVEMENT DRAINAGE ALTERNATIVES TYPICAL DETAILS

Appendix B

Supporting Stormwater Management Calculations

- Stage Storage Discharge Tables – West Filtration Swale
- Stage Storage Discharge Tables – East Filtration Swale
- West Filtration Swale Quality Calculations
- East Filtration Swale Quality Calculations

518-524 Tiffin Street
Filtration Swale Stage-Storage-Discharge Table - West Swale

CLIENT: Pioneer Pools
DATE: April 2023
PROJECT: 518-522 Tiffin Street, Barrie, ON
DESIGN: CG
FILE: PIO-21060 (50)
CHECKED: JWI

Orifice #1		
Radius	0.063	m
Outlet Diameter	125	mm
Invert Elevation	234.30	m

Orifice #2		
RADIUS	0.000	m
Outlet Diameter	0	mm
Invert Elevation	0.00	m

Weir Details - Rectangular Section		
Invert Elevation	234.85	m
Length	2.0	m
Sideslope	3	H : 1V
Width of EOW	0.50	m (travel length)

	Minimum		Provided		Elevation	
Total Permanent Pool Volume:	N/A	m^3	0	m^3	234.30	m
Extended Detention Volume:	N/A	m^3	200	m^3	235.00	m

Surface Area*	Total Storage	Active Detention Storage	Water Depth	Orifice Flow #1	Secondary Orifice Flow	Trapezoidal Weir with 3H : 1V Sideslopes			Total Flow	Elevation	Comments
						Triangular Section	Rectangular Section	Total Weir Flow			
m^2	m^3	m^3	m	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)	m	
473	0	0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	234.30	Bottom of underdrain
473	9	9	0.05	0.001	0.000	0.000	0.000	0.000	0.001	234.35	
473	19	19	0.10	0.007	0.000	0.000	0.000	0.000	0.007	234.40	25mm Storm (234.42m)
473	28	28	0.15	0.010	0.000	0.000	0.000	0.000	0.010	234.45	
473	38	38	0.20	0.013	0.000	0.000	0.000	0.000	0.013	234.50	2 Year Storm (234.54m)
473	47	47	0.25	0.015	0.000	0.000	0.000	0.000	0.015	234.55	
246	54	54	0.30	0.017	0.000	0.000	0.000	0.000	0.017	234.60	Bottom of Swale 5 Year Storm (234.64m)
275	67	67	0.35	0.018	0.000	0.000	0.000	0.000	0.018	234.65	10 Year Storm (234.69m)
304	82	82	0.40	0.020	0.000	0.000	0.000	0.000	0.020	234.70	25 Year Storm (234.74m)
334	98	98	0.45	0.021	0.000	0.000	0.000	0.000	0.021	234.75	50 Year Storm (234.78m)
364	115	115	0.50	0.023	0.000	0.000	0.000	0.000	0.023	234.80	100 Year Storm (234.81m)
394	134	134	0.55	0.024	0.000	0.000	0.000	0.000	0.024	234.85	Overflow Weir
424	155	155	0.60	0.025	0.000	0.002	0.035	0.037	0.062	234.90	Hazel Storm (234.88m)
454	177	177	0.65	0.026	0.000	0.011	0.102	0.114	0.140	234.95	
485	200	200	0.70	0.027	0.000	0.032	0.191	0.223	0.250	235.00	Top of SWM Facility

* Surface area of underdrain is assumed to be width of entire swale, void ratio is assumed to be 0.40

Orifice Outflow equation is for orifice flow given by: $Q=0.63A(2gH)^{0.5}$ Where ponding elevation is above orifice centroid

$Q=1.65\{[(\pi D^2/4)([2\cos^{-1}\{[(D/2)-H]/[D/2]\}\{180/\pi\}]/360)-([\{D/2\}-H][DH-H^2]^{(1/2)}/H)\}H^{(1.5)}$ Where ponding elevation is at or below orifice centroid

where;
Q = flow rate (m^3/s)
A = area of orifice (m^2)
g = Acceleration due to gravity 9.81m/s^2
D= diameter of orifice (m)
H = head on the orifice (m)

Trapezoidal Broad Crested Weir flow is determined by the combined discharge of representative triangular and rectangular broad crested weirs.

Rectangular Broad Crested Weir flow is given by: $Q=CL(H^{(3/2)})$
Triangular Broad Crested Weir Flow is given by: $Q=C[H^{(5/2)}]Tan(\alpha/2)$

Where C is a constant definied by, $y=(a+bx)/(1+cx+dx^2)$ for rectangular & triangular broad crested weirs. x = head divided by downstream Length of Weir (H/L)

where;
Q = flow rate (m^3/s)
L = length (m)
H = head on the weir (m)
α = angle at apex of triangle (radians)
C = constant (refer to Triangular and Rectangular 'C' Equations)

Rectangular 'C' Equation		Triangular 'C' Equation	
a	-10383.48985	a	-1.0071E-05
b	3418997.012	b	143.5986704
c	2131595.078	c	114.5046511
d	-235014.2466	d	-4.768574216

518-524 Tiffin Street, Barrie

Filtration Swale Stage-Storage-Discharge Table - East Swale

CLIENT: Pioneer Pools | **DATE:** April 2023

PROJECT: 518-524 Tiffin Street | **DESIGN:** CG

FILE: PIO-21060 | **CHECKED:** JWI

Orifice #1		
Radius	0.055	m
Outlet Diameter	110	mm
Invert Elevation	234.30	m

Orifice #2		
RADIUS	0.000	m
Outlet Diameter	0	mm
Invert Elevation	0.00	m

Weir Details - Rectangular Section		
Invert Elevation	234.80	m
Length	2.0	m
Sideslope	3	H : 1V
Width of EOW	0.50	m (travel length)

	Minimum		Provided		Elevation	
Total Permanent Pool Volume:	N/A	m^3	0	m^3	234.30	m
Extended Detention Volume:	N/A	m^3	89	m^3	235.00	m

Surface Area*	Total Storage	Active Detention Storage	Water Depth	Ext. Detention Orifice Flow	Secondary Orifice Flow	Trapezoidal Weir with 3H : 1V Sideslopes			Total Flow	Elevation	Comments
						Triangular Section	Rectangular Section	Total Weir Flow			
m^2	m^3	m^3	m	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)	(m^3/s)	m	
219	0	0	0.00	0.000	0.000	0.000	0.000	0.000	0.000	234.30	Bottom of underdrain
219	4	4	0.05	0.001	0.000	0.000	0.000	0.000	0.001	234.35	
219	9	9	0.10	0.006	0.000	0.000	0.000	0.000	0.006	234.40	25mm Storm (234.40m)
219	13	13	0.15	0.008	0.000	0.000	0.000	0.000	0.008	234.45	
219	17	17	0.20	0.010	0.000	0.000	0.000	0.000	0.010	234.50	2 Year Storm (234.50m)
219	22	22	0.25	0.012	0.000	0.000	0.000	0.000	0.012	234.55	5 Year Storm (234.60m)
99	25	25	0.30	0.013	0.000	0.000	0.000	0.000	0.013	234.60	Bottom of Swale
113	30	30	0.35	0.014	0.000	0.000	0.000	0.000	0.014	234.65	10 Year Storm (234.66m)
128	36	36	0.40	0.016	0.000	0.000	0.000	0.000	0.016	234.70	25 Year Storm (234.71m)
143	43	43	0.45	0.017	0.000	0.000	0.000	0.000	0.017	234.75	50 Year Storm (234.76m) 100 Year Storm (234.79m)
159	51	51	0.50	0.018	0.000	0.000	0.000	0.000	0.018	234.80	Overflow Weir
175	59	59	0.55	0.019	0.000	0.002	0.035	0.037	0.056	234.85	Hazel Storm (234.82m)
191	68	68	0.60	0.020	0.000	0.011	0.102	0.114	0.133	234.90	
207	78	78	0.65	0.020	0.000	0.032	0.191	0.223	0.243	234.95	
223	89	89	0.70	0.021	0.000	0.067	0.298	0.365	0.386	235.00	Top of SWM Facility

* Surface area of underdrain is assumed to be width of entire swale, void ratio is assumed to be 0.40

Orifice Outflow equation is for orifice flow given by:

$Q=0.63A(2gH)^{0.5}$ Where ponding elevation is above orifice centroid

$Q=1.65\{[(\pi D^2/4)][2\cos^{-1}\{[(D/2)-H]/[D/2]\}\{180/\pi\}]/360)-([\{(D/2)-H][DH-H^2]^{(1/2)}/H]\}H^{(1.5)}$ Where ponding elevation is at or below orifice centroid

where;

Q = flow rate (m^3/s) | A = area of orifice (m^2) | g = Acceleration due to gravity 9.81m/s²

D= diameter of orifice (m) | H = head on the orifice (m)

Trapezoidal Broad Crested Weir flow is determined by the combined discharge of representative triangular and rectangular broad crested weirs.

Rectangular Broad Crested Weir flow is given by: $Q=CL(H^{(3/2)})$

Triangular Broad Crested Weir Flow is given by: $Q=C[H^{(5/2)}]Tan(\alpha/2)$

Where C is a constant definied by, $y=(a+bx)/(1+cx+dx^2)$ for rectangular & triangular broad crested weirs. x = head divided by downstream Length of Weir (H/L)

where;

Q = flow rate (m^3/s) | α = angle at apex of triangle (radians)

L = length (m) | C = constant (refer to Triangular

H = head on the weir (m) | and Rectangular 'C' Equations)

Rectangular 'C' Equation		Triangular 'C' Equation	
a	-10383.48985	a	-1.0071E-05
b	3418997.012	b	143.5986704
c	2131595.078	c	114.5046511
d	-235014.2466	d	-4.768574216

West Filtration Swale
Quality Calculations

CLIENT: Pioneer Pools

PROJECT: 518-522 Tiffin Street, Barrie, ON

FILE: PIO-21060 (50)

DATE: April 2023

DESIGN: CG

CHECKED: JWI

		Area (ha)	TIMP(%)
Total Area	201 and 202	0.2749	79%
Post Development Drainage Area		**0.275**	**79%**

$$A = \frac{1{,}000\,V\,d}{k\,(h+d)\,t}$$

Based on Eqn. 4.12 MOE SWM Planning and Design Manual

25mm Event Runoff - Filter Sizing		
Design Volume, V	51.73	m^3
Depth of Controlling Filter Medium, d	0.300	m
Coefficient of Permeability, k (Soil Blend 'A' with 2.5 x safety factor applied)	30.00	mm/hr
Operating Head of Water on Filter, h	0.190	m
Design Drawdown Time hours, t	24	Hours

Surface Area of Filter, A (minimum)	44	m^2
Surface Area of Filter Provided (bottom of swale)	217	m^2

Permanent Pool and Extended Detention Volumes:

Drainage Area 0.275 ha

Imperviousness 79%

MOE Table 3.2, March 2003 Infiltration

35%	25 m^3/ha
55%	30 m^3/ha
70%	35 m^3/ha
85%	40 m^3/ha

Enhanced Protection Required Volume: 38.0 m^3/ha

Volume Req'd inc. Extend. Det. 10.4 m^3

25mm 4hr Chi. Runoff - Post Dev **51.73 m^3** [0.275Ha x 18.81mm (Run-off Volume taken from Otthymo Model)]

Infiltration Facility Volume Provided **61 m^3** [Volume between bottom of Infiltration Swale and Top of Check Dam]

East Filtration Swale
Quality Calculations

CLIENT: Pioneer Pools

PROJECT: 518-522 Tiffin Street, Barrie, ON

FILE: PIO-21060 (50)

DATE: April 2023

DESIGN: CG

CHECKED: JWI

		Area (ha)	TIMP(%)
Total Area	203	0.1335	75%
Post Development Drainage Area		**0.134**	**75%**

$$A = \frac{1{,}000\,V\,d}{k\,(h+d)\,t}$$

Permanent Pool and Extended Detention Volumes:

Drainage Area 0.134 ha

Imperviousness 75%

MOE Table 3.2, March 2003 Infiltration

35%	25 m^3/ha
55%	30 m^3/ha
70%	35 m^3/ha
85%	40 m^3/ha

Enhanced Protection Required Volume: 36.7 m^3/ha

Volume Req'd inc. Extend. Det. 4.9 m^3

25mm 4hr Chi. Runoff - Post Dev **24.09 m^3** [0.134Ha x 17.98mm (Run-off Volume taken from Otthymo Model)]

Infiltration Facility Volume Provided **26 m^3** [Volume between bottom of Infiltration Swale and Top of Check Dam]

Based on Eqn. 4.12 MOE SWM Planning and Design Manual

25mm Event Runoff - Filter Sizing		
Design Volume, V	24.09	m^3
Depth of Controlling Filter Medium, d	0.300	m
Coefficient of Permeability, k (Soil Blend 'A' with 2.5 x safety factor applied)	30.00	mm/hr
Operating Head of Water on Filter, h	0.190	m
Design Drawdown Time hours, t	24	Hours

Surface Area of Filter, A (minimum)	20	m^2
Surface Area of Filter Provided (bottom of swale)	99	m^2

Appendix C

Visual OTTHYMO Schematic and Model Output

- Pre-Development OTTHYMO Inputs
- Post-Development OTTHYMO Inputs
- Pre-Development Schematic
- Pre-Development model results
- Post-Development schematic
- Post-Development model results

Weighted Curve Number Calculator

Input:

Catchment ID	101		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	0.274	69.0	0.35
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	0.088	100.0	0.95

Calculated:

Area	0.3619
Average CN	77
Average Pervious CN	69
Average Runoff 'C'	0.50

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	4.27	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.00	m
Catchment Min. El.	234.50	m
Catchment Flow Length	77	m

Calculated:

Catchment Ave. Slope	0.65	%
Imperviousness	24.29%	
Directly Connected Imperviousness	20.70%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.50	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.55	
50YR Rational 'C'	0.59	
100YR Rational 'C'	0.62	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	19.93	min
Time of Concentration	0.33	hr
Time to Peak	0.22	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	5.30	min
Time of Concentration	0.09	hr
Time to Peak	0.06	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.09**	**hr**
Time to Peak	**0.06**	**hr**

Catchment Area Summary (101)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0.00	0.05	0.0000
Woods "A"	0	32	0.00	0.12	0.0000
Pasture/Lawn "A"	0	49	0.00	0.15	0.0000
Cultivated "A"	0	62	0.00	0.3	0.0000
Impervious "A" (Connected)	0	100	0.00	0.95	0.0000
Impervious "A" (Dis-Connected)	0	100	0.00	0.95	0.0000
Total Area "A"	0				
Weighted CN "A"			0		0.0000
Wetlands "AB"	0	50	0.00	0.05	0.0000
Woods "AB"	0	46	0.00	0.12	0.0000
Pasture/Lawn "AB"	0	59	0.00	0.15	0.0000
Cultivated "AB"	0	68	0.00	0.3	0.0000
Impervious "AB" (Connected)	0	100	0.00	0.95	0.0000
Impervious "AB" (Dis-Connected	0	100	0.00	0.95	0.0000
Total Area "AB"	0				
Weighted CN "AB"			0		0.0000
Wetlands "B"	0	50	0.00	0.05	0.0000
Woods "B"	0	60	0.00	0.3	0.0000
Pasture/Lawn "B"	0.274	69	18.91	0.35	0.0959
Cultivated "B"	0	74	0.00	0.45	0.0000
Impervious "B" (Connected)	0.0749	100	7.49	0.95	0.0712
Impervious "B" (Dis-Connected)	0.013	100	1.30	0.95	0.0124
Total Area "B"	0.3619				
Weighted CN "B"			76.52943		0.4957
Wetlands "BC"	0	50	0.00	0.05	0
Woods "BC"	0	67	0.00	0.3	0
Pasture/Lawn "BC"	0	74	0.00	0.35	0
Cultivated "BC"	0	78	0.00	0.45	0
Impervious "BC" (Connected)	0	100	0.00	0.95	0
Impervious "BC" (Dis-Connectec	0	100	0.00	0.95	0
Total Area "BC"	0				
Weighted CN "BC"			0		0
Totals:	0.3619	Weighted CN	76.52943	Weighted "C"	0.4957
Mannings Woods =	0.40		Average Pervious Mannings=		0.19
Mannings Pasture/Lawn =	0.19				

Weighted Curve Number Calculator

Input:

Catchment ID	102		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	0.035	69.0	0.35
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	0.097	100.0	0.95

Calculated:

Area	0.1316
Average CN	92
Average Pervious CN	69
Average Runoff 'C'	0.79

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	2.80	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.00	m
Catchment Min. El.	234.60	m
Catchment Flow Length	51	m

Calculated:

Catchment Ave. Slope	0.78	%
Imperviousness	73.33%	
Directly Connected Imperviousness	65.58%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.79	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.87	
50YR Rational 'C'	0.95	
100YR Rational 'C'	0.99	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	7.82	min
Time of Concentration	0.13	hr
Time to Peak	0.09	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	3.74	min
Time of Concentration	0.06	hr
Time to Peak	0.04	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.06**	**hr**
Time to Peak	**0.04**	**hr**

Catchment Area Summary (102)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0.00	0.05	0.0000
Woods "A"	0	32	0.00	0.12	0.0000
Pasture/Lawn "A"	0	49	0.00	0.15	0.0000
Cultivated "A"	0	62	0.00	0.3	0.0000
Impervious "A" (Connected)	0	100	0.00	0.95	0.0000
Impervious "A" (Dis-Connected)	0	100	0.00	0.95	0.0000
Total Area "A"	0				
Weighted CN "A"			0		0.0000
Wetlands "AB"	0	50	0.00	0.05	0.0000
Woods "AB"	0	46	0.00	0.12	0.0000
Pasture/Lawn "AB"	0	59	0.00	0.15	0.0000
Cultivated "AB"	0	68	0.00	0.3	0.0000
Impervious "AB" (Connected)	0	100	0.00	0.95	0.0000
Impervious "AB" (Dis-Connected	0	100	0.00	0.95	0.0000
Total Area "AB"	0				
Weighted CN "AB"			0		0.0000
Wetlands "B"	0	50	0.00	0.05	0.0000
Woods "B"	0	60	0.00	0.3	0.0000
Pasture/Lawn "B"	0.0351	69	2.42	0.35	0.0123
Cultivated "B"	0	74	0.00	0.45	0.0000
Impervious "B" (Connected)	0.0863	100	8.63	0.95	0.0820
Impervious "B" (Dis-Connected)	0.0102	100	1.02	0.95	0.0097
Total Area "B"	0.1316				
Weighted CN "B"			91.73176		0.7900
Wetlands "BC"	0	50	0.00	0.05	0
Woods "BC"	0	67	0.00	0.3	0
Pasture/Lawn "BC"	0	74	0.00	0.35	0
Cultivated "BC"	0	78	0.00	0.45	0
Impervious "BC" (Connected)	0	100	0.00	0.95	0
Impervious "BC" (Dis-Connectec	0	100	0.00	0.95	0
Total Area "BC"	0				
Weighted CN "BC"			0		0
Totals:	0.1316	Weighted CN	91.73176	Weighted "C"	0.7900

Mannings Woods =	0.40	Average Pervious Mannings=	0.19
Mannings Pasture/Lawn =	0.19		

Weighted Curve Number Calculator

Input:

Catchment ID	201-Draining to LID West Portion		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	368.000	69.0	0.16
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	1328.000	100.0	0.95

Calculated:

Area	1696.000
Average CN	93
Average Pervious CN	69
Average Runoff 'C'	0.78

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	2.65	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.47	m
Catchment Min. El.	235.00	m
Catchment Flow Length	20	m

Calculated:

Catchment Ave. Slope	1.00	%
Imperviousness	78%	
Directly Connected Imperviousness	78%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.78	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.86	
50YR Rational 'C'	0.93	
100YR Rational 'C'	0.97	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	4.69	min
Time of Concentration	0.08	hr
Time to Peak	0.05	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	0.54	min
Time of Concentration	0.01	hr
Time to Peak	0.01	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.009**	**hr**
Time to Peak	**0.006**	**hr**

Catchment Area Summary (201)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0	0.05	0
Woods "A"	0	32	0	0.08	0
Pasture/Lawn "A"	0	49	0	0.1	0
Cultivated "A"	0	62	0	0.22	0
Impervious "A" (Connected)	0	100	0	0.95	0
Impervious "A" (Dis-Connected)	0	100	0	0.95	0
Total Area "A"	0				
Weighted CN "A"			0		0
Wetlands "AB"	0	50	0	0.05	0
Woods "AB"	0	46	0	0.08	0
Pasture/Lawn "AB"	0	59	0	0.1	0
Cultivated "AB"	0	68	0	0.22	0
Impervious "AB" (Connected)	0	100	0	0.95	0
Impervious "AB" (Dis-Connected	0	100	0	0.95	0
Total Area "AB"	0				
Weighted CN "AB"			0		0
Wetlands "B"	0	50	0	0.05	0
Woods "B"	0	60	0	0.25	0
Pasture/Lawn "B"	368	69	25392	0.16	58.88
Cultivated "B"	0	74	0	0.35	0
Impervious "B" (Connected)	1328	100	132800	0.95	1261.6
Impervious "B" (Dis-Connected)	0	100	0	0.95	0
Total Area "B"	1696				
Weighted CN "B"			93.27358		0.778585
Wetlands "BC"	0	50	0	0.05	0
Woods "BC"	0	67	0	0.35	0
Pasture/Lawn "BC"	0	74	0	0.22	0
Cultivated "BC"	0	78	0	0.55	0
Impervious "BC" (Connected)	0	100	0	0.95	0
Impervious "BC" (Dis-Connected	0	100	0	0.95	0
Total Area "BC"	0				
Weighted CN "BC"			0		0
Totals:	1696	Weighted CN	93	Weighted "C"	0.7786
Mannings Woods =	0.50			Average Pervious Mannings=	0.19
Mannings Pasture/Lawn =	0.19				

Weighted Curve Number Calculator

Input:

Catchment ID	202 - draining to LID North Portion		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	198.000	69.0	0.16
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	855.000	100.0	0.95

Calculated:

Area	1053.000
Average CN	94
Average Pervious CN	69
Average Runoff 'C'	0.80

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	2.56	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.39	m
Catchment Min. El.	235.00	m
Catchment Flow Length	28	m

Calculated:

Catchment Ave. Slope	2.00	%
Imperviousness	81%	
Directly Connected Imperviousness	81%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.80	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.88	
50YR Rational 'C'	0.96	
100YR Rational 'C'	1.00	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	4.10	min
Time of Concentration	0.07	hr
Time to Peak	0.05	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	0.69	min
Time of Concentration	0.01	hr
Time to Peak	0.01	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.012**	**hr**
Time to Peak	**0.008**	**hr**

Catchment Area Summary (202)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0	0.05	0
Woods "A"	0	32	0	0.08	0
Pasture/Lawn "A"	0	49	0	0.10	0
Cultivated "A"	0	62	0	0.22	0
Impervious "A" (Connected)	0	100	0	0.95	0
Impervious "A" (Dis-Connected)	0	100	0	0.95	0
Total Area "A"	0				
Weighted CN "A"			0		0
Wetlands "AB"	0	50	0	0.05	0
Woods "AB"	0	46	0	0.08	0
Pasture/Lawn "AB"	0	59	0	0.10	0
Cultivated "AB"	0	68	0	0.22	0
Impervious "AB" (Connected)	0	100	0	0.95	0
Impervious "AB" (Dis-Connected	0	100	0	0.95	0
Total Area "AB"	0				
Weighted CN "AB"			0		0
Wetlands "B"	0	50	0	0.05	0
Woods "B"	0	60	0	0.25	0
Pasture/Lawn "B"	198	69	13662	0.16	31.68
Cultivated "B"	0	74	0	0.35	0
Impervious "B" (Connected)	855	100	85500	0.95	812.25
Impervious "B" (Dis-Connected)	0	100	0	0.95	0
Total Area "B"	1053				
Weighted CN "B"			94.17094		0.801453
Wetlands "BC"	0.0000	50	0.00	0.05	0.0000
Woods "BC"	0.0000	67	0.00	0.35	0.0000
Pasture/Lawn "BC"	0.0000	74	0.00	0.22	0.0000
Cultivated "BC"	0.0000	78	0.00	0.55	0.0000
Impervious "BC" (Connected)	0.0000	100	0.00	0.95	0.0000
Impervious "BC" (Dis-Connectec	0.0000	100	0.00	0.95	0.0000
Total Area "BC"	0.0000				
Weighted CN "BC"			0		0.0000
Totals:	1053.0000	Weighted CN	94	Weighted "C"	0.8015

Mannings Woods =	0.50	Average Pervious Mannings=	0.19
Mannings Pasture/Lawn =	0.19		

Weighted Curve Number Calculator

Input:

Catchment ID	203 - draining to LID #2		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	337.000	69.0	0.16
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	998.000	100.0	0.95

Calculated:

Area	1335.000
Average CN	92
Average Pervious CN	69
Average Runoff 'C'	0.75

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	2.76	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.46	m
Catchment Min. El.	235.00	m
Catchment Flow Length	8	m

Calculated:

Catchment Ave. Slope	2.00	%
Imperviousness	75%	
Directly Connected Imperviousness	75%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.75	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.83	
50YR Rational 'C'	0.90	
100YR Rational 'C'	0.94	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	2.56	min
Time of Concentration	0.04	hr
Time to Peak	0.03	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	0.19	min
Time of Concentration	0.00	hr
Time to Peak	0.00	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.003**	**hr**
Time to Peak	**0.002**	**hr**

Catchment Area Summary (203)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0	0.05	0
Woods "A"	0	32	0	0.08	0
Pasture/Lawn "A"	0	49	0	0.10	0
Cultivated "A"	0	62	0	0.22	0
Impervious "A" (Connected)	0	100	0	0.95	0
Impervious "A" (Dis-Connected)	0	100	0	0.95	0
Total Area "A"	0				
Weighted CN "A"			0		0
Wetlands "AB"	0	50	0	0.05	0
Woods "AB"	0	46	0	0.08	0
Pasture/Lawn "AB"	0	59	0	0.10	0
Cultivated "AB"	0	68	0	0.22	0
Impervious "AB" (Connected)	0	100	0	0.95	0
Impervious "AB" (Dis-Connected	0	100	0	0.95	0
Total Area "AB"	0				
Weighted CN "AB"			0		0
Wetlands "B"	0	50	0	0.05	0
Woods "B"	0	60	0	0.25	0
Pasture/Lawn "B"	337	69	23253	0.16	53.92
Cultivated "B"	0	74	0	0.35	0
Impervious "B" (Connected)	998	100	99800	0.95	948.1
Impervious "B" (Dis-Connected)	0	100	0	0.95	0
Total Area "B"	1335				
Weighted CN "B"			92.17453		0.750577
Wetlands "BC"	0.0000	50	0.00	0.05	0.0000
Woods "BC"	0.0000	67	0.00	0.35	0.0000
Pasture/Lawn "BC"	0.0000	74	0.00	0.22	0.0000
Cultivated "BC"	0.0000	78	0.00	0.55	0.0000
Impervious "BC" (Connected)	0.0000	100	0.00	0.95	0.0000
Impervious "BC" (Dis-Connectec	0.0000	100	0.00	0.95	0.0000
Total Area "BC"	0.0000				
Weighted CN "BC"			0		0.0000
Totals:	1335.0000	Weighted CN	92	Weighted "C"	0.7506

Mannings Woods =	0.50	Average Pervious Mannings=	0.19
Mannings Pasture/Lawn =	0.19		

Weighted Curve Number Calculator

Input:

Catchment ID	204-Uncontrolled		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	598.000	69.0	0.16
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	32.000	100.0	0.95

Calculated:

Area	630.000
Average CN	71
Average Pervious CN	69
Average Runoff 'C'	0.20

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	4.85	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.00	m
Catchment Min. El.	234.28	m
Catchment Flow Length	77	m

Calculated:

Catchment Ave. Slope	0.94	%
Imperviousness	5%	
Directly Connected Imperviousness	5%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.20	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.22	
50YR Rational 'C'	0.24	
100YR Rational 'C'	0.25	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	26.32	min
Time of Concentration	0.44	hr
Time to Peak	0.29	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	2.33	min
Time of Concentration	0.04	hr
Time to Peak	0.03	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.439**	**hr**
Time to Peak	**0.292**	**hr**

Catchment Area Summary (204)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0	0.05	0
Woods "A"	0	32	0	0.08	0
Pasture/Lawn "A"	0	49	0	0.1	0
Cultivated "A"	0	62	0	0.22	0
Impervious "A" (Connected)	0	100	0	0.95	0
Impervious "A" (Dis-Connected)	0	100	0	0.95	0
Total Area "A"	0				
Weighted CN "A"			0		0
Wetlands "AB"	0	50	0	0.05	0
Woods "AB"	0	46	0	0.08	0
Pasture/Lawn "AB"	0	59	0	0.1	0
Cultivated "AB"	0	68	0	0.22	0
Impervious "AB" (Connected)	0	100	0	0.95	0
Impervious "AB" (Dis-Connected	0	100	0	0.95	0
Total Area "AB"	0				
Weighted CN "AB"			0		0
Wetlands "B"	0	50	0	0.05	0
Woods "B"	0	60	0	0.25	0
Pasture/Lawn "B"	598	69	41262	0.16	95.68
Cultivated "B"	0	74	0	0.35	0
Impervious "B" (Connected)	32	100	3200	0.95	30.4
Impervious "B" (Dis-Connected)	0	100	0	0.95	0
Total Area "B"	630				
Weighted CN "B"			70.5746		0.200127
Wetlands "BC"	0	50	0	0.05	0
Woods "BC"	0	67	0	0.35	0
Pasture/Lawn "BC"	0	74	0	0.22	0
Cultivated "BC"	0	78	0	0.55	0
Impervious "BC" (Connected)	0	100	0	0.95	0
Impervious "BC" (Dis-Connectec	0	100	0	0.95	0
Total Area "BC"	0				
Weighted CN "BC"			0		0
Totals:	630	Weighted CN	71	Weighted "C"	0.2001
Mannings Woods =	0.50			Average Pervious Mannings=	0.19
Mannings Pasture/Lawn =	0.19				

Weighted Curve Number Calculator

Input:

Catchment ID	205-Uncontrolled		
Hydrologic Soil Group	B		
Soil Texture	Muck	Weighted Curve Number	Weighted Runoff 'C'
Wetland(ha)/CN	0.000	N/A	N/A
Woods(ha)/CN	0.000	N/A	N/A
Pasture/Lawn Area(ha)/CN	188.000	69.0	0.16
Cultivated(ha)/CN	0.000	N/A	N/A
Impervious Area(ha)/CN	32.000	100.0	0.95

Calculated:

Area	220.000
Average CN	74
Average Pervious CN	69
Average Runoff 'C'	0.27

Initial Abstraction Calculator

Input:

Wetland	16	mm
Woods	10	mm
Pasture/Lawns	5	mm
Cultivated	7	mm
Impervious Areas	2	mm

Calculated:

Total Average IA	4.56	mm
Average Pervious IA	5.00	mm

*Weighted Curve Numbers and Weighted Rational Coefficients are determined from the weighted average of the area and Curve Number or Rational Coefficient in a given soil type, i.e. Type A, B, C or D.

Time of Concentration Calculator

Input:

Catchment Max El.	235.00	m
Catchment Min. El.	234.55	m
Catchment Flow Length	49	m

Calculated:

Catchment Ave. Slope	0.92	%
Imperviousness	15%	
Directly Connected Imperviousness	15%	

Calculated: RATIONAL COEFFICIENT

5YR Rational 'C'	0.27	

Calculated: MTO DRAINAGE MANUAL

25YR Rational 'C'	0.30	
50YR Rational 'C'	0.33	
100YR Rational 'C'	0.34	

Calculated: AIRPORT METHOD (Runoff Coef <0.4)

Time of Concentration	19.37	min
Time of Concentration	0.32	hr
Time to Peak	0.22	hr

$Tc=3.26*(1.1-C)*L^{0.5}*S^{-0.33}$

Calculated: BRANSBY-WILLIAMS METHOD (Runoff Coef >=0.4)

Time of Concentration	1.66	min
Time of Concentration	0.03	hr
Time to Peak	0.02	hr

$Tc=0.057*L*S^{-0.2}*A^{-0.1}$

Use:		
Time of Concentration	**0.323**	**hr**
Time to Peak	**0.215**	**hr**

Catchment Area Summary (204)

	Areas	CN	CN*A	Rational "C"	C*A
Wetlands "A"	0	50	0	0.05	0
Woods "A"	0	32	0	0.08	0
Pasture/Lawn "A"	0	49	0	0.1	0
Cultivated "A"	0	62	0	0.22	0
Impervious "A" (Connected)	0	100	0	0.95	0
Impervious "A" (Dis-Connected)	0	100	0	0.95	0
Total Area "A"	0				
Weighted CN "A"			0		0
Wetlands "AB"	0	50	0	0.05	0
Woods "AB"	0	46	0	0.08	0
Pasture/Lawn "AB"	0	59	0	0.1	0
Cultivated "AB"	0	68	0	0.22	0
Impervious "AB" (Connected)	0	100	0	0.95	0
Impervious "AB" (Dis-Connected	0	100	0	0.95	0
Total Area "AB"	0				
Weighted CN "AB"			0		0
Wetlands "B"	0	50	0	0.05	0
Woods "B"	0	60	0	0.25	0
Pasture/Lawn "B"	188	69	12972	0.16	30.08
Cultivated "B"	0	74	0	0.35	0
Impervious "B" (Connected)	32	100	3200	0.95	30.4
Impervious "B" (Dis-Connected)	0	100	0	0.95	0
Total Area "B"	220				
Weighted CN "B"			73.50909		0.274909
Wetlands "BC"	0	50	0	0.05	0
Woods "BC"	0	67	0	0.35	0
Pasture/Lawn "BC"	0	74	0	0.22	0
Cultivated "BC"	0	78	0	0.55	0
Impervious "BC" (Connected)	0	100	0	0.95	0
Impervious "BC" (Dis-Connectec	0	100	0	0.95	0
Total Area "BC"	0				
Weighted CN "BC"			0		0
Totals:	220	Weighted CN	74	Weighted "C"	0.2749

Mannings Woods =	0.50	Average Pervious Mannings=	0.19
Mannings Pasture/Lawn =	0.19		

Visual OTTHYMO Model Schematic

Pre-Development Scenario



101



102

```
=============================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\041ecad1-e1
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\041ecad1-e1


DATE: 04-17-2023                          TIME: 01:21:48

USER:


COMMENTS: _____________________________________________________


-------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : A) 25mm Storm                 **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\5dbc7136
| Ptotal= 25.00 mm |    Comments: OS CHI FF 25mm.stm
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.17    2.07 |  1.17    5.70 |  2.17    5.19 |  3.17    2.80
               0.33    2.27 |  1.33   10.78 |  2.33    4.47 |  3.33    2.62
               0.50    2.52 |  1.50   50.21 |  2.50    3.95 |  3.50    2.48
               0.67    2.88 |  1.67   13.37 |  2.67    3.56 |  3.67    2.35
               0.83    3.38 |  1.83    8.29 |  2.83    3.25 |  3.83    2.23
               1.00    4.18 |  2.00    6.30 |  3.00    3.01 |  4.00    2.14

-------------------------------------------------------------------------------

--------------------
| CALIB            |
| NASHYD   (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.017    2.07 | 1.017    5.70 | 2.017    5.19 |  3.02    2.80
               0.033    2.07 | 1.033    5.70 | 2.033    5.19 |  3.03    2.80
               0.050    2.07 | 1.050    5.70 | 2.050    5.19 |  3.05    2.80
               0.067    2.07 | 1.067    5.70 | 2.067    5.19 |  3.07    2.80
               0.083    2.07 | 1.083    5.70 | 2.083    5.19 |  3.08    2.80
               0.100    2.07 | 1.100    5.70 | 2.100    5.19 |  3.10    2.80
               0.117    2.07 | 1.117    5.70 | 2.117    5.19 |  3.12    2.80
               0.133    2.07 | 1.133    5.70 | 2.133    5.19 |  3.13    2.80
               0.150    2.07 | 1.150    5.70 | 2.150    5.19 |  3.15    2.80
               0.167    2.07 | 1.167    5.70 | 2.167    5.19 |  3.17    2.80
               0.183    2.27 | 1.183   10.78 | 2.183    4.47 |  3.18    2.62
               0.200    2.27 | 1.200   10.78 | 2.200    4.47 |  3.20    2.62
               0.217    2.27 | 1.217   10.78 | 2.217    4.47 |  3.22    2.62
               0.233    2.27 | 1.233   10.78 | 2.233    4.47 |  3.23    2.62
               0.250    2.27 | 1.250   10.78 | 2.250    4.47 |  3.25    2.62
               0.267    2.27 | 1.267   10.78 | 2.267    4.47 |  3.27    2.62
               0.283    2.27 | 1.283   10.78 | 2.283    4.47 |  3.28    2.62
               0.300    2.27 | 1.300   10.78 | 2.300    4.47 |  3.30    2.62
               0.317    2.27 | 1.317   10.78 | 2.317    4.47 |  3.32    2.62
               0.333    2.27 | 1.333   10.78 | 2.333    4.47 |  3.33    2.62
               0.350    2.52 | 1.350   50.21 | 2.350    3.95 |  3.35    2.48
               0.367    2.52 | 1.367   50.21 | 2.367    3.95 |  3.37    2.48
               0.383    2.52 | 1.383   50.21 | 2.383    3.95 |  3.38    2.48
               0.400    2.52 | 1.400   50.21 | 2.400    3.95 |  3.40    2.48
               0.417    2.52 | 1.417   50.21 | 2.417    3.95 |  3.42    2.48
               0.433    2.52 | 1.433   50.21 | 2.433    3.95 |  3.43    2.48
               0.450    2.52 | 1.450   50.21 | 2.450    3.95 |  3.45    2.48
               0.467    2.52 | 1.467   50.21 | 2.467    3.95 |  3.47    2.48
               0.483    2.52 | 1.483   50.21 | 2.483    3.95 |  3.48    2.48
               0.500    2.52 | 1.500   50.21 | 2.500    3.95 |  3.50    2.48
               0.517    2.88 | 1.517   13.37 | 2.517    3.56 |  3.52    2.35
               0.533    2.88 | 1.533   13.37 | 2.533    3.56 |  3.53    2.35
               0.550    2.88 | 1.550   13.37 | 2.550    3.56 |  3.55    2.35
               0.567    2.88 | 1.567   13.37 | 2.567    3.56 |  3.57    2.35
               0.583    2.88 | 1.583   13.37 | 2.583    3.56 |  3.58    2.35
               0.600    2.88 | 1.600   13.37 | 2.600    3.56 |  3.60    2.35
               0.617    2.88 | 1.617   13.37 | 2.617    3.56 |  3.62    2.35
               0.633    2.88 | 1.633   13.37 | 2.633    3.56 |  3.63    2.35
               0.650    2.88 | 1.650   13.37 | 2.650    3.56 |  3.65    2.35
               0.667    2.88 | 1.667   13.37 | 2.667    3.56 |  3.67    2.35
               0.683    3.38 | 1.683    8.29 | 2.683    3.25 |  3.68    2.23
               0.700    3.38 | 1.700    8.29 | 2.700    3.25 |  3.70    2.23
               0.717    3.38 | 1.717    8.29 | 2.717    3.25 |  3.72    2.23
               0.733    3.38 | 1.733    8.29 | 2.733    3.25 |  3.73    2.23
               0.750    3.38 | 1.750    8.29 | 2.750    3.25 |  3.75    2.23
               0.767    3.38 | 1.767    8.29 | 2.767    3.25 |  3.77    2.23
               0.783    3.38 | 1.783    8.29 | 2.783    3.25 |  3.78    2.23
               0.800    3.38 | 1.800    8.29 | 2.800    3.25 |  3.80    2.23
               0.817    3.38 | 1.817    8.29 | 2.817    3.25 |  3.82    2.23
               0.833    3.38 | 1.833    8.29 | 2.833    3.25 |  3.83    2.23
               0.850    4.17 | 1.850    6.30 | 2.850    3.01 |  3.85    2.14
               0.867    4.18 | 1.867    6.30 | 2.867    3.01 |  3.87    2.14
               0.883    4.18 | 1.883    6.30 | 2.883    3.01 |  3.88    2.14
               0.900    4.18 | 1.900    6.30 | 2.900    3.01 |  3.90    2.14
               0.917    4.18 | 1.917    6.30 | 2.917    3.01 |  3.92    2.14
               0.933    4.18 | 1.933    6.30 | 2.933    3.01 |  3.93    2.14
               0.950    4.18 | 1.950    6.30 | 2.950    3.01 |  3.95    2.14
               0.967    4.18 | 1.967    6.30 | 2.967    3.01 |  3.97    2.14
               0.983    4.18 | 1.983    6.30 | 3.000    3.01 |  4.00    2.14
               1.000    4.18 | 2.000    6.30 | 3.000    3.01 |  4.00    2.14

     Unit Hyd Qpeak  (cms)=   0.230

     PEAK FLOW       (cms)=   0.007 (i)
     TIME TO PEAK    (hrs)=   1.517
     RUNOFF VOLUME    (mm)=   4.445
     TOTAL RAINFALL   (mm)=  24.996
     RUNOFF COEFFICIENT   =   0.178

     (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------

--------------------
| CALIB            |
| STANDHYD (  0102)|   Area    (ha)=   0.13
|ID= 1 DT= 1.0 min |   Total Imp(%)=  73.33   Dir. Conn.(%)=  65.58
--------------------

                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.10          0.04
     Dep. Storage     (mm)=       2.00          5.00
     Average Slope     (%)=       0.78          0.78
     Length            (m)=      29.62         51.00
     Mannings n            =      0.023         0.190

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.017    2.07 | 1.017    5.70 | 2.017    5.19 |  3.02    2.80
               0.033    2.07 | 1.033    5.70 | 2.033    5.19 |  3.03    2.80
               0.050    2.07 | 1.050    5.70 | 2.050    5.19 |  3.05    2.80
               0.067    2.07 | 1.067    5.70 | 2.067    5.19 |  3.07    2.80
               0.083    2.07 | 1.083    5.70 | 2.083    5.19 |  3.08    2.80
               0.100    2.07 | 1.100    5.70 | 2.100    5.19 |  3.10    2.80
               0.117    2.07 | 1.117    5.70 | 2.117    5.19 |  3.12    2.80
               0.133    2.07 | 1.133    5.70 | 2.133    5.19 |  3.13    2.80
               0.150    2.07 | 1.150    5.70 | 2.150    5.19 |  3.15    2.80
```

0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62
0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

Max.Eff.Inten.(mm/hr)=	50.21	7.82	
over (min)	5.00	11.00	
Storage Coeff. (min)=	2.46 (ii)	10.90 (ii)	
Unit Hyd. Tpeak (min)=	5.00	11.00	
Unit Hyd. peak (cms)=	0.34	0.10	
			TOTALS
PEAK FLOW (cms)=	0.01	0.00	0.012 (iii)
TIME TO PEAK (hrs)=	1.50	1.65	1.50
RUNOFF VOLUME (mm)=	23.00	4.07	16.44
TOTAL RAINFALL (mm)=	25.00	25.00	25.00
RUNOFF COEFFICIENT =	0.92	0.16	0.66

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
 V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
 V    V   I    SS     U   U   A A   L
  V  V    I     SS    U   U  AAAAA  L
  V  V    I      SS   U   U  A   A  L
   VV     I    SSSSS  UUUUU  A   A  LLLLL

  OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
 O   O    T      T    H   H   Y Y   MM MM  O   O
 O   O    T      T    H   H    Y    M   M  O   O
  OOO     T      T    H   H    Y    M   M   OOO
```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\f6d3e049-64
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\f6d3e049-64

DATE: 04-17-2023 TIME: 01:21:49

USER:

COMMENTS: _____

** SIMULATION : B) 2 yr 4hr 10min Chicago **

CHICAGO STORM
Ptotal= 36.96 mm

IDF curve parameters: A= 678.085
B= 4.699
C= 0.781
used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	2.47	1.17	18.78	2.17	5.73	3.17	2.92
0.33	2.82	1.33	83.11	2.33	4.89	3.33	2.72
0.50	3.31	1.50	24.57	2.50	4.28	3.50	2.55
0.67	4.05	1.67	13.01	2.67	3.82	3.67	2.39
0.83	5.30	1.83	9.01	2.83	3.46	3.83	2.26
1.00	7.98	2.00	6.97	3.00	3.17	4.00	2.15

CALIB
NASHYD (0101)
ID= 1 DT= 1.0 min

Area (ha)= 0.36 Curve Number (CN)= 77.0
Ia (mm)= 4.27 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.47	1.017	18.78	2.017	5.73	3.02	2.93
0.033	2.47	1.033	18.78	2.033	5.73	3.03	2.92
0.050	2.47	1.050	18.78	2.050	5.73	3.05	2.92
0.067	2.47	1.067	18.78	2.067	5.73	3.07	2.92
0.083	2.47	1.083	18.78	2.083	5.73	3.08	2.92
0.100	2.47	1.100	18.78	2.100	5.73	3.10	2.92
0.117	2.47	1.117	18.78	2.117	5.73	3.12	2.92
0.133	2.47	1.133	18.78	2.133	5.73	3.13	2.92
0.150	2.47	1.150	18.78	2.150	5.73	3.15	2.92
0.167	2.47	1.167	18.78	2.167	5.73	3.17	2.92
0.183	2.82	1.183	83.10	2.183	4.89	3.18	2.72
0.200	2.82	1.200	83.11	2.200	4.89	3.20	2.72
0.217	2.82	1.217	83.11	2.217	4.89	3.22	2.72
0.233	2.82	1.233	83.11	2.233	4.89	3.23	2.72
0.250	2.82	1.250	83.11	2.250	4.89	3.25	2.72
0.267	2.82	1.267	83.11	2.267	4.89	3.27	2.72
0.283	2.82	1.283	83.11	2.283	4.89	3.28	2.72
0.300	2.82	1.300	83.11	2.300	4.89	3.30	2.72
0.317	2.82	1.317	83.11	2.317	4.89	3.32	2.72
0.333	2.82	1.333	83.11	2.333	4.89	3.33	2.72
0.350	3.31	1.350	24.57	2.350	4.28	3.35	2.55
0.367	3.31	1.367	24.57	2.367	4.28	3.37	2.55
0.383	3.31	1.383	24.57	2.383	4.28	3.38	2.55
0.400	3.31	1.400	24.57	2.400	4.28	3.40	2.55

0.417	3.31	1.417	24.57	2.417	4.28	3.42	2.55
0.433	3.31	1.433	24.57	2.433	4.28	3.43	2.55
0.450	3.31	1.450	24.57	2.450	4.28	3.45	2.55
0.467	3.31	1.467	24.57	2.467	4.28	3.47	2.55
0.483	3.31	1.483	24.57	2.483	4.28	3.48	2.55
0.500	3.31	1.500	24.57	2.500	4.28	3.50	2.55
0.517	4.05	1.517	13.01	2.517	3.82	3.52	2.39
0.533	4.05	1.533	13.01	2.533	3.82	3.53	2.39
0.550	4.05	1.550	13.01	2.550	3.82	3.55	2.39
0.567	4.05	1.567	13.01	2.567	3.82	3.57	2.39
0.583	4.05	1.583	13.01	2.583	3.82	3.58	2.39
0.600	4.05	1.600	13.01	2.600	3.82	3.60	2.39
0.617	4.05	1.617	13.01	2.617	3.82	3.62	2.39
0.633	4.05	1.633	13.01	2.633	3.82	3.63	2.39
0.650	4.05	1.650	13.01	2.650	3.82	3.65	2.39
0.667	4.05	1.667	13.01	2.667	3.82	3.67	2.39
0.683	5.30	1.683	9.01	2.683	3.46	3.68	2.26
0.700	5.30	1.700	9.01	2.700	3.46	3.70	2.26
0.717	5.30	1.717	9.01	2.717	3.46	3.72	2.26
0.733	5.30	1.733	9.01	2.733	3.46	3.73	2.26
0.750	5.30	1.750	9.01	2.750	3.46	3.75	2.26
0.767	5.30	1.767	9.01	2.767	3.46	3.77	2.26
0.783	5.30	1.783	9.01	2.783	3.46	3.78	2.26
0.800	5.30	1.800	9.01	2.800	3.46	3.80	2.26
0.817	5.30	1.817	9.01	2.817	3.46	3.82	2.26
0.833	5.30	1.833	9.01	2.833	3.46	3.83	2.26
0.850	7.98	1.850	6.97	2.850	3.17	3.85	2.15
0.867	7.98	1.867	6.97	2.867	3.17	3.87	2.15
0.883	7.98	1.883	6.97	2.883	3.17	3.88	2.15
0.900	7.98	1.900	6.97	2.900	3.17	3.90	2.15
0.917	7.98	1.917	6.97	2.917	3.17	3.92	2.15
0.933	7.98	1.933	6.97	2.933	3.17	3.93	2.15
0.950	7.98	1.950	6.97	2.950	3.17	3.95	2.15
0.967	7.98	1.967	6.97	2.967	3.17	3.97	2.15
0.983	7.98	1.983	6.97	2.983	3.17	3.98	2.15
1.000	7.98	2.000	6.97	3.000	3.17	4.00	2.15

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.019 (i)
TIME TO PEAK (hrs)= 1.350
RUNOFF VOLUME (mm)= 9.837
TOTAL RAINFALL (mm)= 36.955
RUNOFF COEFFICIENT = 0.266

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.47	1.017	18.78	2.017	5.73	3.02	2.93
0.033	2.47	1.033	18.78	2.033	5.73	3.03	2.92
0.050	2.47	1.050	18.78	2.050	5.73	3.05	2.92
0.067	2.47	1.067	18.78	2.067	5.73	3.07	2.92
0.083	2.47	1.083	18.78	2.083	5.73	3.08	2.92
0.100	2.47	1.100	18.78	2.100	5.73	3.10	2.92
0.117	2.47	1.117	18.78	2.117	5.73	3.12	2.92
0.133	2.47	1.133	18.78	2.133	5.73	3.13	2.92
0.150	2.47	1.150	18.78	2.150	5.73	3.15	2.92
0.167	2.47	1.167	18.78	2.167	5.73	3.17	2.92
0.183	2.82	1.183	83.10	2.183	4.89	3.18	2.72
0.200	2.82	1.200	83.11	2.200	4.89	3.20	2.72
0.217	2.82	1.217	83.11	2.217	4.89	3.22	2.72
0.233	2.82	1.233	83.11	2.233	4.89	3.23	2.72
0.250	2.82	1.250	83.11	2.250	4.89	3.25	2.72
0.267	2.82	1.267	83.11	2.267	4.89	3.27	2.72
0.283	2.82	1.283	83.11	2.283	4.89	3.28	2.72
0.300	2.82	1.300	83.11	2.300	4.89	3.30	2.72
0.317	2.82	1.317	83.11	2.317	4.89	3.32	2.72
0.333	2.82	1.333	83.11	2.333	4.89	3.33	2.72
0.350	3.31	1.350	24.57	2.350	4.28	3.35	2.55
0.367	3.31	1.367	24.57	2.367	4.28	3.37	2.55
0.383	3.31	1.383	24.57	2.383	4.28	3.38	2.55
0.400	3.31	1.400	24.57	2.400	4.28	3.40	2.55
0.417	3.31	1.417	24.57	2.417	4.28	3.42	2.55
0.433	3.31	1.433	24.57	2.433	4.28	3.43	2.55
0.450	3.31	1.450	24.57	2.450	4.28	3.45	2.55
0.467	3.31	1.467	24.57	2.467	4.28	3.47	2.55
0.483	3.31	1.483	24.57	2.483	4.28	3.48	2.55
0.500	3.31	1.500	24.57	2.500	4.28	3.50	2.55
0.517	4.05	1.517	13.01	2.517	3.82	3.52	2.39
0.533	4.05	1.533	13.01	2.533	3.82	3.53	2.39
0.550	4.05	1.550	13.01	2.550	3.82	3.55	2.39
0.567	4.05	1.567	13.01	2.567	3.82	3.57	2.39
0.583	4.05	1.583	13.01	2.583	3.82	3.58	2.39
0.600	4.05	1.600	13.01	2.600	3.82	3.60	2.39
0.617	4.05	1.617	13.01	2.617	3.82	3.62	2.39
0.633	4.05	1.633	13.01	2.633	3.82	3.63	2.39
0.650	4.05	1.650	13.01	2.650	3.82	3.65	2.39
0.667	4.05	1.667	13.01	2.667	3.82	3.67	2.39
0.683	5.30	1.683	9.01	2.683	3.46	3.68	2.26
0.700	5.30	1.700	9.01	2.700	3.46	3.70	2.26
0.717	5.30	1.717	9.01	2.717	3.46	3.72	2.26
0.733	5.30	1.733	9.01	2.733	3.46	3.73	2.26
0.750	5.30	1.750	9.01	2.750	3.46	3.75	2.26
0.767	5.30	1.767	9.01	2.767	3.46	3.77	2.26
0.783	5.30	1.783	9.01	2.783	3.46	3.78	2.26
0.800	5.30	1.800	9.01	2.800	3.46	3.80	2.26
0.817	5.30	1.817	9.01	2.817	3.46	3.82	2.26
0.833	5.30	1.833	9.01	2.833	3.46	3.83	2.26
0.850	7.98	1.850	6.97	2.850	3.17	3.85	2.15
0.867	7.98	1.867	6.97	2.867	3.17	3.87	2.15
0.883	7.98	1.883	6.97	2.883	3.17	3.88	2.15
0.900	7.98	1.900	6.97	2.900	3.17	3.90	2.15
0.917	7.98	1.917	6.97	2.917	3.17	3.92	2.15
0.933	7.98	1.933	6.97	2.933	3.17	3.93	2.15
0.950	7.98	1.950	6.97	2.950	3.17	3.95	2.15
0.967	7.98	1.967	6.97	2.967	3.17	3.97	2.15
0.983	7.98	1.983	6.97	2.983	3.17	3.98	2.15
1.000	7.98	2.000	6.97	3.000	3.17	4.00	2.15

			TOTALS
Max.Eff.Inten.(mm/hr)=	83.11	21.15	
over (min)	5.00	9.00	
Storage Coeff. (min)=	2.01 (ii)	8.91 (ii)	
Unit Hyd. Tpeak (min)=	5.00	9.00	
Unit Hyd. peak (cms)=	0.37	0.13	
PEAK FLOW (cms)=	0.02	0.00	0.020 (iii)
TIME TO PEAK (hrs)=	1.33	1.45	1.33
RUNOFF VOLUME (mm)=	34.95	9.01	25.99
TOTAL RAINFALL (mm)=	36.96	36.96	36.96
RUNOFF COEFFICIENT =	0.95	0.24	0.70

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
       V  V    I      SS   U   U  A   A  L
        VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat

Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\165084ed-2d
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\165084ed-2d

DATE: 04-17-2023 TIME: 01:21:48

USER:

COMMENTS: _____

** SIMULATION : C) 5 yr 4hr 10min Chicago **

| CHICAGO STORM | IDF curve parameters: A= 853.608
| Ptotal= 50.52 mm | B= 4.699
C= 0.766

used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	3.57	1.17	25.64	2.17	8.12	3.17	4.22
0.33	4.07	1.33	108.92	2.33	6.96	3.33	3.93
0.50	4.76	1.50	33.31	2.50	6.12	3.50	3.68
0.67	5.79	1.67	17.99	2.67	5.48	3.67	3.47
0.83	7.53	1.83	12.60	2.83	4.97	3.83	3.28
1.00	11.20	2.00	9.82	3.00	4.56	4.00	3.12

| CALIB | NASHYD (0101) | ID= 1 DT= 1.0 min | Area (ha)= 0.36 Curve Number (CN)= 77.0
Ia (mm)= 4.27 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68
0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47
0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12
0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.034 (i)
TIME TO PEAK (hrs)= 1.350
RUNOFF VOLUME (mm)= 17.510
TOTAL RAINFALL (mm)= 50.521
RUNOFF COEFFICIENT = 0.347

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB | STANDHYD (0102) | ID= 1 DT= 1.0 min | Area (ha)= 0.13
Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68

0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47
0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12
0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

Max.Eff.Inten.(mm/hr)=	108.92	38.28	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.81 (ii)	8.00 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.39	0.14	
		TOTALS	
PEAK FLOW (cms)=	0.03	0.00	0.028 (iii)
TIME TO PEAK (hrs)=	1.33	1.43	1.33
RUNOFF VOLUME (mm)=	48.52	16.11	37.33
TOTAL RAINFALL (mm)=	50.52	50.52	50.52
RUNOFF COEFFICIENT =	0.96	0.32	0.74

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I      SS   U   U  AAAAA  L
        V  V    I       SS  U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\b4e46863-4d
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\b4e46863-4d

DATE: 04-17-2023 TIME: 01:21:49

USER:

COMMENTS: _____

****
** SIMULATION : D) 10 yr 4hr 10min Chicago **
****

CHICAGO STORM
Ptotal= 59.69 mm

IDF curve parameters: A= 975.865
B= 4.699
C= 0.760
used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	4.32	1.17	30.27	2.17	9.72	3.17	5.09
0.33	4.91	1.33	126.55	2.33	8.35	3.33	4.74
0.50	5.73	1.50	39.22	2.50	7.35	3.50	4.45
0.67	6.96	1.67	21.35	2.67	6.59	3.67	4.19
0.83	9.03	1.83	15.01	2.83	5.99	3.83	3.97
1.00	13.36	2.00	11.74	3.00	5.50	4.00	3.77

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45
0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19
0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19
0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97

0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.046 (i)
TIME TO PEAK (hrs)= 1.350
RUNOFF VOLUME (mm)= 23.387
TOTAL RAINFALL (mm)= 59.695
RUNOFF COEFFICIENT = 0.392

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0102) | Area (ha)= 0.13
ID= 1 DT= 1.0 min | Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45
0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19
0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19

0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97
0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Max.Eff.Inten.(mm/hr)=	126.55	51.80	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.70 (ii)	7.53 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.40	0.15	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.033 (iii)
TIME TO PEAK (hrs)=	1.33	1.42	1.33
RUNOFF VOLUME (mm)=	57.69	21.60	45.24
TOTAL RAINFALL (mm)=	59.69	59.69	59.69
RUNOFF COEFFICIENT =	0.97	0.36	0.76

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\ae974020-76
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\ae974020-76

DATE: 04-17-2023 TIME: 01:21:49

USER:

COMMENTS: _____

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** SIMULATION : E) 25 yr 4hr 10min Chicago **
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| CHICAGO STORM    |
| Ptotal= 71.24 mm |
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IDF curve parameters: A=1146.275
B= 4.922
C= 0.757
used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	5.22	1.17	36.37	2.17	11.74	3.17	6.15
0.33	5.94	1.33	148.15	2.33	10.09	3.33	5.74
0.50	6.93	1.50	47.06	2.50	8.89	3.50	5.38
0.67	8.42	1.67	25.72	2.67	7.96	3.67	5.08
0.83	10.91	1.83	18.11	2.83	7.24	3.83	4.80
1.00	16.13	2.00	14.17	3.00	6.65	4.00	4.57

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| CALIB            |
| NASHYD  (  0101) |   Area     (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia       (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06
```

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74
0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74
0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80
0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.061 (i)
TIME TO PEAK (hrs)= 1.350
RUNOFF VOLUME (mm)= 31.383
TOTAL RAINFALL (mm)= 71.236
RUNOFF COEFFICIENT = 0.441

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB            |
| STANDHYD (  0102)|   Area     (ha)=   0.13
|ID= 1 DT= 1.0 min |   Total Imp(%)=  73.33   Dir. Conn.(%)=  65.58
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		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74
0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74
0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80

0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

Max.Eff.Inten.(mm/hr)=	148.15	70.30	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.60 (ii)	7.07 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.41	0.15	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.039 (iii)
TIME TO PEAK (hrs)=	1.33	1.42	1.33
RUNOFF VOLUME (mm)=	69.24	29.13	55.40
TOTAL RAINFALL (mm)=	71.24	71.24	71.24
RUNOFF COEFFICIENT =	0.97	0.41	0.78

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\35a57b1c-63
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\35a57b1c-63

DATE: 04-17-2023 TIME: 01:21:49

USER:

COMMENTS: _____

****
** SIMULATION : F) 50 yr 4hr 10min Chicago **
****

CHICAGO STORM
Ptotal= 79.45 mm

IDF curve parameters: A=1236.152
B= 4.699
C= 0.751
used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	5.93	1.17	40.22	2.17	13.20	3.17	6.98
0.33	6.74	1.33	164.22	2.33	11.37	3.33	6.51
0.50	7.85	1.50	51.92	2.50	10.03	3.50	6.11
0.67	9.50	1.67	28.58	2.67	9.00	3.67	5.77
0.83	12.27	1.83	20.23	2.83	8.19	3.83	5.46
1.00	18.04	2.00	15.88	3.00	7.53	4.00	5.19

CALIB
NASHYD (0101) | ID= 1 DT= 1.0 min

Area (ha)= 0.36 Curve Number (CN)= 77.0
Ia (mm)= 4.27 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.93	1.017	40.22	2.017	13.20	3.02	6.98
0.033	5.93	1.033	40.22	2.033	13.20	3.03	6.98
0.050	5.93	1.050	40.22	2.050	13.20	3.05	6.98
0.067	5.93	1.067	40.22	2.067	13.20	3.07	6.98
0.083	5.93	1.083	40.22	2.083	13.20	3.08	6.98
0.100	5.93	1.100	40.22	2.100	13.20	3.10	6.98
0.117	5.93	1.117	40.22	2.117	13.20	3.12	6.98
0.133	5.93	1.133	40.22	2.133	13.20	3.13	6.98
0.150	5.93	1.150	40.22	2.150	13.20	3.15	6.98
0.167	5.93	1.167	40.22	2.167	13.20	3.17	6.98
0.183	6.74	1.183	164.22	2.183	11.37	3.18	6.51
0.200	6.74	1.200	164.22	2.200	11.37	3.20	6.51
0.217	6.74	1.217	164.22	2.217	11.37	3.22	6.51
0.233	6.74	1.233	164.22	2.233	11.37	3.23	6.51
0.250	6.74	1.250	164.22	2.250	11.37	3.25	6.51
0.267	6.74	1.267	164.22	2.267	11.37	3.27	6.51
0.283	6.74	1.283	164.22	2.283	11.37	3.28	6.51
0.300	6.74	1.300	164.22	2.300	11.37	3.30	6.51
0.317	6.74	1.317	164.22	2.317	11.37	3.32	6.51
0.333	6.74	1.333	164.22	2.333	11.37	3.33	6.51
0.350	7.85	1.350	51.92	2.350	10.03	3.35	6.11
0.367	7.85	1.367	51.92	2.367	10.03	3.37	6.11
0.383	7.85	1.383	51.92	2.383	10.03	3.38	6.11
0.400	7.85	1.400	51.92	2.400	10.03	3.40	6.11
0.417	7.85	1.417	51.92	2.417	10.03	3.42	6.11
0.433	7.85	1.433	51.92	2.433	10.03	3.43	6.11
0.450	7.85	1.450	51.92	2.450	10.03	3.45	6.11
0.467	7.85	1.467	51.92	2.467	10.03	3.47	6.11
0.483	7.85	1.483	51.92	2.483	10.03	3.48	6.11
0.500	7.85	1.500	51.92	2.500	10.03	3.50	6.11
0.517	9.50	1.517	28.58	2.517	9.00	3.52	5.77
0.533	9.50	1.533	28.58	2.533	9.00	3.53	5.77
0.550	9.50	1.550	28.58	2.550	9.00	3.55	5.77
0.567	9.50	1.567	28.58	2.567	9.00	3.57	5.77
0.583	9.50	1.583	28.58	2.583	9.00	3.58	5.77
0.600	9.50	1.600	28.58	2.600	9.00	3.60	5.77
0.617	9.50	1.617	28.58	2.617	9.00	3.62	5.77
0.633	9.50	1.633	28.58	2.633	9.00	3.63	5.77
0.650	9.50	1.650	28.58	2.650	9.00	3.65	5.77
0.667	9.50	1.667	28.58	2.667	9.00	3.67	5.77
0.683	12.27	1.683	20.23	2.683	8.19	3.68	5.46
0.700	12.27	1.700	20.23	2.700	8.19	3.70	5.46
0.717	12.27	1.717	20.23	2.717	8.19	3.72	5.46
0.733	12.27	1.733	20.23	2.733	8.19	3.73	5.46
0.750	12.27	1.750	20.23	2.750	8.19	3.75	5.46
0.767	12.27	1.767	20.23	2.767	8.19	3.77	5.46
0.783	12.27	1.783	20.23	2.783	8.19	3.78	5.46
0.800	12.27	1.800	20.23	2.800	8.19	3.80	5.46
0.817	12.27	1.817	20.23	2.817	8.19	3.82	5.46
0.833	12.27	1.833	20.23	2.833	8.19	3.83	5.46
0.850	18.04	1.850	15.88	2.850	7.53	3.85	5.19
0.867	18.04	1.867	15.88	2.867	7.53	3.87	5.19
0.883	18.04	1.883	15.88	2.883	7.53	3.88	5.19
0.900	18.04	1.900	15.88	2.900	7.53	3.90	5.19
0.917	18.04	1.917	15.88	2.917	7.53	3.92	5.19
0.933	18.04	1.933	15.88	2.933	7.53	3.93	5.19
0.950	18.04	1.950	15.88	2.950	7.53	3.95	5.19
0.967	18.04	1.967	15.88	2.967	7.53	3.97	5.19
0.983	18.04	1.983	15.88	2.983	7.53	3.98	5.19
1.000	18.04	2.000	15.88	3.000	7.53	4.00	5.19

```
     Unit Hyd Qpeak  (cms)=   0.230

     PEAK FLOW       (cms)=   0.073 (i)
     TIME TO PEAK    (hrs)=   1.350
     RUNOFF VOLUME    (mm)=  37.406
     TOTAL RAINFALL   (mm)=  79.453
     RUNOFF COEFFICIENT   =   0.471

     (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB              |
| STANDHYD (  0102)| Area    (ha)=   0.13
|ID= 1 DT= 1.0 min | Total Imp(%)=  73.33   Dir. Conn.(%)=  65.58
--------------------
                         IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      0.10         0.04
     Dep. Storage     (mm)=      2.00         5.00
     Average Slope     (%)=      0.78         0.78
     Length            (m)=     29.62        51.00
     Mannings n           =     0.023        0.190

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
  TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
   hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
 0.017    5.93 | 1.017   40.22 | 2.017   13.20 |  3.02    6.98
 0.033    5.93 | 1.033   40.22 | 2.033   13.20 |  3.03    6.98
 0.050    5.93 | 1.050   40.22 | 2.050   13.20 |  3.05    6.98
 0.067    5.93 | 1.067   40.22 | 2.067   13.20 |  3.07    6.98
 0.083    5.93 | 1.083   40.22 | 2.083   13.20 |  3.08    6.98
 0.100    5.93 | 1.100   40.22 | 2.100   13.20 |  3.10    6.98
 0.117    5.93 | 1.117   40.22 | 2.117   13.20 |  3.12    6.98
 0.133    5.93 | 1.133   40.22 | 2.133   13.20 |  3.13    6.98
 0.150    5.93 | 1.150   40.22 | 2.150   13.20 |  3.15    6.98
 0.167    5.93 | 1.167   40.22 | 2.167   13.20 |  3.17    6.98
 0.183    6.74 | 1.183  164.22 | 2.183   11.37 |  3.18    6.51
 0.200    6.74 | 1.200  164.22 | 2.200   11.37 |  3.20    6.51
 0.217    6.74 | 1.217  164.22 | 2.217   11.37 |  3.22    6.51
 0.233    6.74 | 1.233  164.22 | 2.233   11.37 |  3.23    6.51
 0.250    6.74 | 1.250  164.22 | 2.250   11.37 |  3.25    6.51
 0.267    6.74 | 1.267  164.22 | 2.267   11.37 |  3.27    6.51
 0.283    6.74 | 1.283  164.22 | 2.283   11.37 |  3.28    6.51
 0.300    6.74 | 1.300  164.22 | 2.300   11.37 |  3.30    6.51
 0.317    6.74 | 1.317  164.22 | 2.317   11.37 |  3.32    6.51
 0.333    6.74 | 1.333  164.22 | 2.333   11.37 |  3.33    6.51
 0.350    7.85 | 1.350   51.92 | 2.350   10.03 |  3.35    6.11
 0.367    7.85 | 1.367   51.92 | 2.367   10.03 |  3.37    6.11
 0.383    7.85 | 1.383   51.92 | 2.383   10.03 |  3.38    6.11
 0.400    7.85 | 1.400   51.92 | 2.400   10.03 |  3.40    6.11
 0.417    7.85 | 1.417   51.92 | 2.417   10.03 |  3.42    6.11
 0.433    7.85 | 1.433   51.92 | 2.433   10.03 |  3.43    6.11
 0.450    7.85 | 1.450   51.92 | 2.450   10.03 |  3.45    6.11
 0.467    7.85 | 1.467   51.92 | 2.467   10.03 |  3.47    6.11
 0.483    7.85 | 1.483   51.92 | 2.483   10.03 |  3.48    6.11
 0.500    7.85 | 1.500   51.92 | 2.500   10.03 |  3.50    6.11
 0.517    9.50 | 1.517   28.58 | 2.517    9.00 |  3.52    5.77
 0.533    9.50 | 1.533   28.58 | 2.533    9.00 |  3.53    5.77
 0.550    9.50 | 1.550   28.58 | 2.550    9.00 |  3.55    5.77
 0.567    9.50 | 1.567   28.58 | 2.567    9.00 |  3.57    5.77
 0.583    9.50 | 1.583   28.58 | 2.583    9.00 |  3.58    5.77
 0.600    9.50 | 1.600   28.58 | 2.600    9.00 |  3.60    5.77
 0.617    9.50 | 1.617   28.58 | 2.617    9.00 |  3.62    5.77
 0.633    9.50 | 1.633   28.58 | 2.633    9.00 |  3.63    5.77
 0.650    9.50 | 1.650   28.58 | 2.650    9.00 |  3.65    5.77
 0.667    9.50 | 1.667   28.58 | 2.667    9.00 |  3.67    5.77
 0.683   12.27 | 1.683   20.23 | 2.683    8.19 |  3.68    5.46
 0.700   12.27 | 1.700   20.23 | 2.700    8.19 |  3.70    5.46
 0.717   12.27 | 1.717   20.23 | 2.717    8.19 |  3.72    5.46
 0.733   12.27 | 1.733   20.23 | 2.733    8.19 |  3.73    5.46
 0.750   12.27 | 1.750   20.23 | 2.750    8.19 |  3.75    5.46
 0.767   12.27 | 1.767   20.23 | 2.767    8.19 |  3.77    5.46
 0.783   12.27 | 1.783   20.23 | 2.783    8.19 |  3.78    5.46
 0.800   12.27 | 1.800   20.23 | 2.800    8.19 |  3.80    5.46
 0.817   12.27 | 1.817   20.23 | 2.817    8.19 |  3.82    5.46
 0.833   12.27 | 1.833   20.23 | 2.833    8.19 |  3.83    5.46
 0.850   18.04 | 1.850   15.88 | 2.850    7.53 |  3.85    5.19
 0.867   18.04 | 1.867   15.88 | 2.867    7.53 |  3.87    5.19
 0.883   18.04 | 1.883   15.88 | 2.883    7.53 |  3.88    5.19
 0.900   18.04 | 1.900   15.88 | 2.900    7.53 |  3.90    5.19
 0.917   18.04 | 1.917   15.88 | 2.917    7.53 |  3.92    5.19
 0.933   18.04 | 1.933   15.88 | 2.933    7.53 |  3.93    5.19
 0.950   18.04 | 1.950   15.88 | 2.950    7.53 |  3.95    5.19
 0.967   18.04 | 1.967   15.88 | 2.967    7.53 |  3.97    5.19
 0.983   18.04 | 1.983   15.88 | 2.983    7.53 |  3.98    5.19
 1.000   18.04 | 2.000   15.88 | 3.000    7.53 |  4.00    5.19

     Max.Eff.Inten.(mm/hr)=     164.22        84.83
               over (min)          5.00         7.00
     Storage Coeff.  (min)=       1.53 (ii)    6.79 (ii)
     Unit Hyd. Tpeak (min)=       5.00         7.00
     Unit Hyd. peak  (cms)=       0.42         0.16
                                                    *TOTALS*
     PEAK FLOW       (cms)=       0.04         0.01          0.044 (iii)
     TIME TO PEAK    (hrs)=       1.33         1.40           1.33
     RUNOFF VOLUME    (mm)=      77.45        34.83          62.75
     TOTAL RAINFALL   (mm)=      79.45        79.45          79.45
     RUNOFF COEFFICIENT   =       0.97         0.44           0.79


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0b8c0ae1-83
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0b8c0ae1-83

DATE: 04-17-2023                          TIME: 01:21:49

USER:


COMMENTS: _____________________________________________________

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  ************************************************
  ** SIMULATION : G) 100 yr 4hr 10min Chicago   **
  ************************************************

--------------------
| CHICAGO STORM    |    IDF curve parameters: A=1426.408
| Ptotal= 87.58 mm |                          B=   5.273
--------------------                          C=   0.759
                       used in:   INTENSITY =  A / (t + B)^C

                       Duration of storm  =  4.00 hrs
                       Storm time step    = 10.00 min
                       Time to peak ratio =  0.33

  TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
   hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
  0.17    6.41 |  1.17   45.22 |  2.17   14.50 |  3.17    7.56
  0.33    7.29 |  1.33  180.15 |  2.33   12.44 |  3.33    7.04
  0.50    8.52 |  1.50   58.54 |  2.50   10.94 |  3.50    6.60
  0.67   10.36 |  1.67   31.96 |  2.67    9.80 |  3.67    6.22
  0.83   13.45 |  1.83   22.45 |  2.83    8.90 |  3.83    5.89
  1.00   19.96 |  2.00   17.52 |  3.00    8.16 |  4.00    5.59
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CALIB					
NASHYD (0101)	Area (ha)= 0.36	Curve Number (CN)= 77.0			
ID= 1 DT= 1.0 min	Ia (mm)= 4.27	# of Linear Res.(N)= 3.00			
	U.H. Tp(hrs)= 0.06				

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89
0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89
0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.086 (i)
TIME TO PEAK (hrs)= 1.350
RUNOFF VOLUME (mm)= 43.584
TOTAL RAINFALL (mm)= 87.580
RUNOFF COEFFICIENT = 0.498

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33	Dir. Conn.(%)= 65.58	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89
0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89
0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Max.Eff.Inten.(mm/hr)=		180.15	100.02
	over (min)	5.00	7.00

Storage Coeff. (min)=	1.48 (ii)	6.54 (ii)	
Unit Hyd. Tpeak (min)=	5.00	7.00	
Unit Hyd. peak (cms)=	0.42	0.17	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.049 (iii)
TIME TO PEAK (hrs)=	1.33	1.40	1.33
RUNOFF VOLUME (mm)=	85.58	40.71	70.10
TOTAL RAINFALL (mm)=	87.58	87.58	87.58
RUNOFF COEFFICIENT =	0.98	0.46	0.80

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
       V  V    I       SS  U   U  A   A  L
        VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\675d3e95-70
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\675d3e95-70

DATE: 04-17-2023 TIME: 01:21:49

USER:

COMMENTS: _____

****
** SIMULATION : H) 2yr 6hr 15min SCS Type II **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\26a78f48
Ptotal= 40.60 mm	Comments: 2yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	4.06	3.75	8.93	5.50	1.62
0.50	1.62	2.25	4.06	4.00	4.06	5.75	1.62
0.75	1.62	2.50	4.87	4.25	4.06	6.00	1.62
1.00	2.44	2.75	4.87	4.50	3.25	6.25	1.62
1.25	2.44	3.00	24.36	4.75	3.25		
1.50	2.44	3.25	63.34	5.00	2.44		
1.75	2.44	3.50	8.93	5.25	2.44		

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	2.44	3.150	63.34	4.72	3.25
0.033	0.00	1.600	2.44	3.167	63.34	4.73	3.25
0.050	0.00	1.617	2.44	3.183	63.34	4.75	3.25
0.067	0.00	1.633	2.44	3.200	63.34	4.77	2.44
0.083	0.00	1.650	2.44	3.217	63.34	4.78	2.44
0.100	0.00	1.667	2.44	3.233	63.34	4.80	2.44
0.117	0.00	1.683	2.44	3.250	63.34	4.82	2.44
0.133	0.00	1.700	2.44	3.267	8.94	4.83	2.44
0.150	0.00	1.717	2.44	3.283	8.93	4.85	2.44
0.167	0.00	1.733	2.44	3.300	8.93	4.87	2.44
0.183	0.00	1.750	2.44	3.317	8.93	4.88	2.44
0.200	0.00	1.767	4.06	3.333	8.93	4.90	2.44
0.217	0.00	1.783	4.06	3.350	8.93	4.92	2.44
0.233	0.00	1.800	4.06	3.367	8.93	4.93	2.44
0.250	0.00	1.817	4.06	3.383	8.93	4.95	2.44
0.267	1.62	1.833	4.06	3.400	8.93	4.97	2.44
0.283	1.62	1.850	4.06	3.417	8.93	4.98	2.44
0.300	1.62	1.867	4.06	3.433	8.93	5.00	2.44
0.317	1.62	1.883	4.06	3.450	8.93	5.02	2.44
0.333	1.62	1.900	4.06	3.467	8.93	5.03	2.44
0.350	1.62	1.917	4.06	3.483	8.93	5.05	2.44
0.367	1.62	1.933	4.06	3.500	8.93	5.07	2.44
0.383	1.62	1.950	4.06	3.517	8.93	5.08	2.44
0.400	1.62	1.967	4.06	3.533	8.93	5.10	2.44
0.417	1.62	1.983	4.06	3.550	8.93	5.12	2.44
0.433	1.62	2.000	4.06	3.567	8.93	5.13	2.44
0.450	1.62	2.017	4.06	3.583	8.93	5.15	2.44
0.467	1.62	2.033	4.06	3.600	8.93	5.17	2.44
0.483	1.62	2.050	4.06	3.617	8.93	5.18	2.44
0.500	1.62	2.067	4.06	3.633	8.93	5.20	2.44
0.517	1.62	2.083	4.06	3.650	8.93	5.22	2.44
0.533	1.62	2.100	4.06	3.667	8.93	5.23	2.44
0.550	1.62	2.117	4.06	3.683	8.93	5.25	2.44
0.567	1.62	2.133	4.06	3.700	8.93	5.27	1.62
0.583	1.62	2.150	4.06	3.717	8.93	5.28	1.62
0.600	1.62	2.167	4.06	3.733	8.93	5.30	1.62
0.617	1.62	2.183	4.06	3.750	8.93	5.32	1.62
0.633	1.62	2.200	4.06	3.767	4.06	5.33	1.62
0.650	1.62	2.217	4.06	3.783	4.06	5.35	1.62
0.667	1.62	2.233	4.06	3.800	4.06	5.37	1.62
0.683	1.62	2.250	4.06	3.817	4.06	5.38	1.62
0.700	1.62	2.267	4.87	3.833	4.06	5.40	1.62
0.717	1.62	2.283	4.87	3.850	4.06	5.42	1.62
0.733	1.62	2.300	4.87	3.867	4.06	5.43	1.62
0.750	1.62	2.317	4.87	3.883	4.06	5.45	1.62
0.767	2.44	2.333	4.87	3.900	4.06	5.47	1.62
0.783	2.44	2.350	4.87	3.917	4.06	5.48	1.62
0.800	2.44	2.367	4.87	3.933	4.06	5.50	1.62
0.817	2.44	2.383	4.87	3.950	4.06	5.52	1.62
0.833	2.44	2.400	4.87	3.967	4.06	5.53	1.62
0.850	2.44	2.417	4.87	3.983	4.06	5.55	1.62
0.867	2.44	2.433	4.87	4.000	4.06	5.57	1.62
0.883	2.44	2.450	4.87	4.017	4.06	5.58	1.62
0.900	2.44	2.467	4.87	4.033	4.06	5.60	1.62
0.917	2.44	2.483	4.87	4.050	4.06	5.62	1.62
0.933	2.44	2.500	4.87	4.067	4.06	5.63	1.62
0.950	2.44	2.517	4.87	4.083	4.06	5.65	1.62
0.967	2.44	2.533	4.87	4.100	4.06	5.67	1.62
0.983	2.44	2.550	4.87	4.117	4.06	5.68	1.62
1.000	2.44	2.567	4.87	4.133	4.06	5.70	1.62
1.017	2.44	2.583	4.87	4.150	4.06	5.72	1.62
1.033	2.44	2.600	4.87	4.167	4.06	5.73	1.62
1.050	2.44	2.617	4.87	4.183	4.06	5.75	1.62
1.067	2.44	2.633	4.87	4.200	4.06	5.77	1.62
1.083	2.44	2.650	4.87	4.217	4.06	5.78	1.62
1.100	2.44	2.667	4.87	4.233	4.06	5.80	1.62
1.117	2.44	2.683	4.87	4.250	4.06	5.82	1.62
1.133	2.44	2.700	4.87	4.267	3.25	5.83	1.62
1.150	2.44	2.717	4.87	4.283	3.25	5.85	1.62
1.167	2.44	2.733	4.87	4.300	3.25	5.87	1.62
1.183	2.44	2.750	4.87	4.317	3.25	5.88	1.62
1.200	2.44	2.767	24.36	4.333	3.25	5.90	1.62
1.217	2.44	2.783	24.36	4.350	3.25	5.92	1.62
1.233	2.44	2.800	24.36	4.367	3.25	5.93	1.62
1.250	2.44	2.817	24.36	4.383	3.25	5.95	1.62
1.267	2.44	2.833	24.36	4.400	3.25	5.97	1.62
1.283	2.44	2.850	24.36	4.417	3.25	5.98	1.62
1.300	2.44	2.867	24.36	4.433	3.25	6.00	1.62
1.317	2.44	2.883	24.36	4.450	3.25	6.02	1.62
1.333	2.44	2.900	24.36	4.467	3.25	6.03	1.62

1.350	2.44	2.917	24.36	4.483	3.25	6.05	1.62
1.367	2.44	2.933	24.36	4.500	3.25	6.07	1.62
1.383	2.44	2.950	24.36	4.517	3.25	6.08	1.62
1.400	2.44	2.967	24.36	4.533	3.25	6.10	1.62
1.417	2.44	2.983	24.36	4.550	3.25	6.12	1.62
1.433	2.44	3.000	24.36	4.567	3.25	6.13	1.62
1.450	2.44	3.017	63.33	4.583	3.25	6.15	1.62
1.467	2.44	3.033	63.34	4.600	3.25	6.17	1.62
1.483	2.44	3.050	63.34	4.617	3.25	6.18	1.62
1.500	2.44	3.067	63.34	4.633	3.25	6.20	1.62
1.517	2.44	3.083	63.34	4.650	3.25	6.22	1.62
1.533	2.44	3.100	63.34	4.667	3.25	6.23	1.62
1.550	2.44	3.117	63.34	4.683	3.25	6.25	1.62
1.567	2.44	3.133	63.34	4.700	3.25		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.024 (i)
TIME TO PEAK (hrs)= 3.250
RUNOFF VOLUME (mm)= 11.759
TOTAL RAINFALL (mm)= 40.600
RUNOFF COEFFICIENT = 0.290

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0102)	Area (ha)=	0.13
ID= 1 DT= 1.0 min	Total Imp(%)=	73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	2.44	3.150	63.34	4.72	3.25
0.033	0.00	1.600	2.44	3.167	63.34	4.73	3.25
0.050	0.00	1.617	2.44	3.183	63.34	4.75	3.25
0.067	0.00	1.633	2.44	3.200	63.34	4.77	2.44
0.083	0.00	1.650	2.44	3.217	63.34	4.78	2.44
0.100	0.00	1.667	2.44	3.233	63.34	4.80	2.44
0.117	0.00	1.683	2.44	3.250	63.34	4.82	2.44
0.133	0.00	1.700	2.44	3.267	8.94	4.83	2.44
0.150	0.00	1.717	2.44	3.283	8.93	4.85	2.44
0.167	0.00	1.733	2.44	3.300	8.93	4.87	2.44
0.183	0.00	1.750	2.44	3.317	8.93	4.88	2.44
0.200	0.00	1.767	4.06	3.333	8.93	4.90	2.44
0.217	0.00	1.783	4.06	3.350	8.93	4.92	2.44
0.233	0.00	1.800	4.06	3.367	8.93	4.93	2.44
0.250	0.00	1.817	4.06	3.383	8.93	4.95	2.44
0.267	1.62	1.833	4.06	3.400	8.93	4.97	2.44
0.283	1.62	1.850	4.06	3.417	8.93	4.98	2.44
0.300	1.62	1.867	4.06	3.433	8.93	5.00	2.44
0.317	1.62	1.883	4.06	3.450	8.93	5.02	2.44
0.333	1.62	1.900	4.06	3.467	8.93	5.03	2.44
0.350	1.62	1.917	4.06	3.483	8.93	5.05	2.44
0.367	1.62	1.933	4.06	3.500	8.93	5.07	2.44
0.383	1.62	1.950	4.06	3.517	8.93	5.08	2.44
0.400	1.62	1.967	4.06	3.533	8.93	5.10	2.44
0.417	1.62	1.983	4.06	3.550	8.93	5.12	2.44
0.433	1.62	2.000	4.06	3.567	8.93	5.13	2.44
0.450	1.62	2.017	4.06	3.583	8.93	5.15	2.44
0.467	1.62	2.033	4.06	3.600	8.93	5.17	2.44
0.483	1.62	2.050	4.06	3.617	8.93	5.18	2.44
0.500	1.62	2.067	4.06	3.633	8.93	5.20	2.44
0.517	1.62	2.083	4.06	3.650	8.93	5.22	2.44
0.533	1.62	2.100	4.06	3.667	8.93	5.23	2.44
0.550	1.62	2.117	4.06	3.683	8.93	5.25	2.44
0.567	1.62	2.133	4.06	3.700	8.93	5.27	1.62
0.583	1.62	2.150	4.06	3.717	8.93	5.28	1.62
0.600	1.62	2.167	4.06	3.733	8.93	5.30	1.62
0.617	1.62	2.183	4.06	3.750	8.93	5.32	1.62
0.633	1.62	2.200	4.06	3.767	4.06	5.33	1.62
0.650	1.62	2.217	4.06	3.783	4.06	5.35	1.62
0.667	1.62	2.233	4.06	3.800	4.06	5.37	1.62
0.683	1.62	2.250	4.06	3.817	4.06	5.38	1.62
0.700	1.62	2.267	4.87	3.833	4.06	5.40	1.62
0.717	1.62	2.283	4.87	3.850	4.06	5.42	1.62
0.733	1.62	2.300	4.87	3.867	4.06	5.43	1.62
0.750	1.62	2.317	4.87	3.883	4.06	5.45	1.62
0.767	2.44	2.333	4.87	3.900	4.06	5.47	1.62
0.783	2.44	2.350	4.87	3.917	4.06	5.48	1.62
0.800	2.44	2.367	4.87	3.933	4.06	5.50	1.62
0.817	2.44	2.383	4.87	3.950	4.06	5.52	1.62
0.833	2.44	2.400	4.87	3.967	4.06	5.53	1.62
0.850	2.44	2.417	4.87	3.983	4.06	5.55	1.62
0.867	2.44	2.433	4.87	4.000	4.06	5.57	1.62
0.883	2.44	2.450	4.87	4.017	4.06	5.58	1.62
0.900	2.44	2.467	4.87	4.033	4.06	5.60	1.62
0.917	2.44	2.483	4.87	4.050	4.06	5.62	1.62
0.933	2.44	2.500	4.87	4.067	4.06	5.63	1.62
0.950	2.44	2.517	4.87	4.083	4.06	5.65	1.62
0.967	2.44	2.533	4.87	4.100	4.06	5.67	1.62
0.983	2.44	2.550	4.87	4.117	4.06	5.68	1.62
1.000	2.44	2.567	4.87	4.133	4.06	5.70	1.62
1.017	2.44	2.583	4.87	4.150	4.06	5.72	1.62
1.033	2.44	2.600	4.87	4.167	4.06	5.73	1.62
1.050	2.44	2.617	4.87	4.183	4.06	5.75	1.62
1.067	2.44	2.633	4.87	4.200	4.06	5.77	1.62
1.083	2.44	2.650	4.87	4.217	4.06	5.78	1.62
1.100	2.44	2.667	4.87	4.233	4.06	5.80	1.62
1.117	2.44	2.683	4.87	4.250	4.06	5.82	1.62
1.133	2.44	2.700	4.87	4.267	3.25	5.83	1.62
1.150	2.44	2.717	4.87	4.283	3.25	5.85	1.62
1.167	2.44	2.733	4.87	4.300	3.25	5.87	1.62
1.183	2.44	2.750	4.87	4.317	3.25	5.88	1.62
1.200	2.44	2.767	24.36	4.333	3.25	5.90	1.62
1.217	2.44	2.783	24.36	4.350	3.25	5.92	1.62
1.233	2.44	2.800	24.36	4.367	3.25	5.93	1.62
1.250	2.44	2.817	24.36	4.383	3.25	5.95	1.62
1.267	2.44	2.833	24.36	4.400	3.25	5.97	1.62
1.283	2.44	2.850	24.36	4.417	3.25	5.98	1.62
1.300	2.44	2.867	24.36	4.433	3.25	6.00	1.62
1.317	2.44	2.883	24.36	4.450	3.25	6.02	1.62
1.333	2.44	2.900	24.36	4.467	3.25	6.03	1.62
1.350	2.44	2.917	24.36	4.483	3.25	6.05	1.62
1.367	2.44	2.933	24.36	4.500	3.25	6.07	1.62
1.383	2.44	2.950	24.36	4.517	3.25	6.08	1.62
1.400	2.44	2.967	24.36	4.533	3.25	6.10	1.62
1.417	2.44	2.983	24.36	4.550	3.25	6.12	1.62
1.433	2.44	3.000	24.36	4.567	3.25	6.13	1.62
1.450	2.44	3.017	63.33	4.583	3.25	6.15	1.62
1.467	2.44	3.033	63.34	4.600	3.25	6.17	1.62
1.483	2.44	3.050	63.34	4.617	3.25	6.18	1.62
1.500	2.44	3.067	63.34	4.633	3.25	6.20	1.62
1.517	2.44	3.083	63.34	4.650	3.25	6.22	1.62
1.533	2.44	3.100	63.34	4.667	3.25	6.23	1.62
1.550	2.44	3.117	63.34	4.683	3.25	6.25	1.62
1.567	2.44	3.133	63.34	4.700	3.25		

				TOTALS
Max.Eff.Inten.(mm/hr)=		63.34	27.73	
over (min)		5.00	10.00	
Storage Coeff. (min)=		2.24 (ii)	9.94 (ii)	
Unit Hyd. Tpeak (min)=		5.00	10.00	
Unit Hyd. peak (cms)=		0.36	0.11	
PEAK FLOW	(cms)=	0.02	0.00	0.017 (iii)
TIME TO PEAK	(hrs)=	3.25	3.33	3.25
RUNOFF VOLUME	(mm)=	38.60	10.78	28.99
TOTAL RAINFALL	(mm)=	40.60	40.60	40.60
RUNOFF COEFFICIENT	=	0.95	0.27	0.71

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

V V I SSSSS U U A L (v 6.1.2002)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTTT TTTTT H H Y Y M M OOO TM

```
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M  M  O   O
        OOO     T      T    H   H    Y    M  M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\a74bcf40-78
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\a74bcf40-78


DATE: 04-17-2023                          TIME: 01:21:49

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : I) 5yr 6hr 15min SCS Type II  **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-13427O4a05d9\152f0c83
| Ptotal= 55.84 mm |    Comments: 5yr 6hr 15min SCS Type II (MTO)
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.25    0.00 |  2.00    5.58 |  3.75   12.28 |  5.50    2.23
               0.50    2.23 |  2.25    5.58 |  4.00    5.58 |  5.75    2.23
               0.75    2.23 |  2.50    6.70 |  4.25    5.58 |  6.00    2.23
               1.00    3.35 |  2.75    6.70 |  4.50    4.47 |  6.25    2.23
               1.25    3.35 |  3.00   33.50 |  4.75    4.47 |
               1.50    3.35 |  3.25   87.11 |  5.00    3.35 |
               1.75    3.35 |  3.50   12.28 |  5.25    3.35 |

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| CALIB            |
| NASHYD  (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.017    0.00 | 1.583    3.35 | 3.150   87.11 |  4.72    4.47
               0.033    0.00 | 1.600    3.35 | 3.167   87.11 |  4.73    4.47
               0.050    0.00 | 1.617    3.35 | 3.183   87.11 |  4.75    4.47
               0.067    0.00 | 1.633    3.35 | 3.200   87.11 |  4.77    3.35
               0.083    0.00 | 1.650    3.35 | 3.217   87.11 |  4.78    3.35
               0.100    0.00 | 1.667    3.35 | 3.233   87.11 |  4.80    3.35
               0.117    0.00 | 1.683    3.35 | 3.250   87.11 |  4.82    3.35
               0.133    0.00 | 1.700    3.35 | 3.267   12.30 |  4.83    3.35
               0.150    0.00 | 1.717    3.35 | 3.283   12.28 |  4.85    3.35
               0.167    0.00 | 1.733    3.35 | 3.300   12.28 |  4.87    3.35
               0.183    0.00 | 1.750    3.35 | 3.317   12.28 |  4.88    3.35
               0.200    0.00 | 1.767    5.58 | 3.333   12.28 |  4.90    3.35
               0.217    0.00 | 1.783    5.58 | 3.350   12.28 |  4.92    3.35
               0.233    0.00 | 1.800    5.58 | 3.367   12.28 |  4.93    3.35
               0.250    0.00 | 1.817    5.58 | 3.383   12.28 |  4.95    3.35
               0.267    2.23 | 1.833    5.58 | 3.400   12.28 |  4.97    3.35
               0.283    2.23 | 1.850    5.58 | 3.417   12.28 |  4.98    3.35
               0.300    2.23 | 1.867    5.58 | 3.433   12.28 |  5.00    3.35
               0.317    2.23 | 1.883    5.58 | 3.450   12.28 |  5.02    3.35
               0.333    2.23 | 1.900    5.58 | 3.467   12.28 |  5.03    3.35
               0.350    2.23 | 1.917    5.58 | 3.483   12.28 |  5.05    3.35
               0.367    2.23 | 1.933    5.58 | 3.500   12.28 |  5.07    3.35
               0.383    2.23 | 1.950    5.58 | 3.517   12.28 |  5.08    3.35
               0.400    2.23 | 1.967    5.58 | 3.533   12.28 |  5.10    3.35
               0.417    2.23 | 1.983    5.58 | 3.550   12.28 |  5.12    3.35
               0.433    2.23 | 2.000    5.58 | 3.567   12.28 |  5.13    3.35
               0.450    2.23 | 2.017    5.58 | 3.583   12.28 |  5.15    3.35
               0.467    2.23 | 2.033    5.58 | 3.600   12.28 |  5.17    3.35
               0.483    2.23 | 2.050    5.58 | 3.617   12.28 |  5.18    3.35
               0.500    2.23 | 2.067    5.58 | 3.633   12.28 |  5.20    3.35
               0.517    2.23 | 2.083    5.58 | 3.650   12.28 |  5.22    3.35
               0.533    2.23 | 2.100    5.58 | 3.667   12.28 |  5.23    3.35
               0.550    2.23 | 2.117    5.58 | 3.683   12.28 |  5.25    3.35
               0.567    2.23 | 2.133    5.58 | 3.700   12.28 |  5.27    2.23
               0.583    2.23 | 2.150    5.58 | 3.717   12.28 |  5.28    2.23
               0.600    2.23 | 2.167    5.58 | 3.733   12.28 |  5.30    2.23
               0.617    2.23 | 2.183    5.58 | 3.750   12.28 |  5.32    2.23
               0.633    2.23 | 2.200    5.58 | 3.767    5.59 |  5.33    2.23
               0.650    2.23 | 2.217    5.58 | 3.783    5.58 |  5.35    2.23
               0.667    2.23 | 2.233    5.58 | 3.800    5.58 |  5.37    2.23
               0.683    2.23 | 2.250    5.58 | 3.817    5.58 |  5.38    2.23
               0.700    2.23 | 2.267    6.70 | 3.833    5.58 |  5.40    2.23
               0.717    2.23 | 2.283    6.70 | 3.850    5.58 |  5.42    2.23
               0.733    2.23 | 2.300    6.70 | 3.867    5.58 |  5.43    2.23
               0.750    2.23 | 2.317    6.70 | 3.883    5.58 |  5.45    2.23
               0.767    3.35 | 2.333    6.70 | 3.900    5.58 |  5.47    2.23
               0.783    3.35 | 2.350    6.70 | 3.917    5.58 |  5.48    2.23
               0.800    3.35 | 2.367    6.70 | 3.933    5.58 |  5.50    2.23
               0.817    3.35 | 2.383    6.70 | 3.950    5.58 |  5.52    2.23
               0.833    3.35 | 2.400    6.70 | 3.967    5.58 |  5.53    2.23
               0.850    3.35 | 2.417    6.70 | 3.983    5.58 |  5.55    2.23
               0.867    3.35 | 2.433    6.70 | 4.000    5.58 |  5.57    2.23
               0.883    3.35 | 2.450    6.70 | 4.017    5.58 |  5.58    2.23
               0.900    3.35 | 2.467    6.70 | 4.033    5.58 |  5.60    2.23
               0.917    3.35 | 2.483    6.70 | 4.050    5.58 |  5.62    2.23
               0.933    3.35 | 2.500    6.70 | 4.067    5.58 |  5.63    2.23
               0.950    3.35 | 2.517    6.70 | 4.083    5.58 |  5.65    2.23
               0.967    3.35 | 2.533    6.70 | 4.100    5.58 |  5.67    2.23
               0.983    3.35 | 2.550    6.70 | 4.117    5.58 |  5.68    2.23
               1.000    3.35 | 2.567    6.70 | 4.133    5.58 |  5.70    2.23
               1.017    3.35 | 2.583    6.70 | 4.150    5.58 |  5.72    2.23
               1.033    3.35 | 2.600    6.70 | 4.167    5.58 |  5.73    2.23
               1.050    3.35 | 2.617    6.70 | 4.183    5.58 |  5.75    2.23
               1.067    3.35 | 2.633    6.70 | 4.200    5.58 |  5.77    2.23
               1.083    3.35 | 2.650    6.70 | 4.217    5.58 |  5.78    2.23
               1.100    3.35 | 2.667    6.70 | 4.233    5.58 |  5.80    2.23
               1.117    3.35 | 2.683    6.70 | 4.250    5.58 |  5.82    2.23
               1.133    3.35 | 2.700    6.70 | 4.267    4.47 |  5.83    2.23
               1.150    3.35 | 2.717    6.70 | 4.283    4.47 |  5.85    2.23
               1.167    3.35 | 2.733    6.70 | 4.300    4.47 |  5.87    2.23
               1.183    3.35 | 2.750    6.70 | 4.317    4.47 |  5.88    2.23
               1.200    3.35 | 2.767   33.50 | 4.333    4.47 |  5.90    2.23
               1.217    3.35 | 2.783   33.50 | 4.350    4.47 |  5.92    2.23
               1.233    3.35 | 2.800   33.50 | 4.367    4.47 |  5.93    2.23
               1.250    3.35 | 2.817   33.50 | 4.383    4.47 |  5.95    2.23
               1.267    3.35 | 2.833   33.50 | 4.400    4.47 |  5.97    2.23
               1.283    3.35 | 2.850   33.50 | 4.417    4.47 |  5.98    2.23
               1.300    3.35 | 2.867   33.50 | 4.433    4.47 |  6.00    2.23
               1.317    3.35 | 2.883   33.50 | 4.450    4.47 |  6.02    2.23
               1.333    3.35 | 2.900   33.50 | 4.467    4.47 |  6.03    2.23
               1.350    3.35 | 2.917   33.50 | 4.483    4.47 |  6.05    2.23
               1.367    3.35 | 2.933   33.50 | 4.500    4.47 |  6.07    2.23
               1.383    3.35 | 2.950   33.50 | 4.517    4.47 |  6.08    2.23
               1.400    3.35 | 2.967   33.50 | 4.533    4.47 |  6.10    2.23
               1.417    3.35 | 2.983   33.50 | 4.550    4.47 |  6.12    2.23
               1.433    3.35 | 3.000   33.50 | 4.567    4.47 |  6.13    2.23
               1.450    3.35 | 3.017   87.10 | 4.583    4.47 |  6.15    2.23
               1.467    3.35 | 3.033   87.11 | 4.600    4.47 |  6.17    2.23
               1.483    3.35 | 3.050   87.11 | 4.617    4.47 |  6.18    2.23
               1.500    3.35 | 3.067   87.11 | 4.633    4.47 |  6.20    2.23
               1.517    3.35 | 3.083   87.11 | 4.650    4.47 |  6.22    2.23
               1.533    3.35 | 3.100   87.11 | 4.667    4.47 |  6.23    2.23
               1.550    3.35 | 3.117   87.11 | 4.683    4.47 |  6.25    2.23
               1.567    3.35 | 3.133   87.11 | 4.700    4.47 |

      Unit Hyd Qpeak  (cms)=   0.230

      PEAK FLOW       (cms)=   0.042 (i)
      TIME TO PEAK    (hrs)=   3.250
      RUNOFF VOLUME    (mm)=  20.860
      TOTAL RAINFALL   (mm)=  55.840
      RUNOFF COEFFICIENT   =   0.374

      (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB              |
| STANDHYD (  0102)|   Area    (ha)=   0.13
|ID= 1 DT= 1.0 min |   Total Imp(%)=  73.33   Dir. Conn.(%)=  65.58
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      0.10         0.04
     Dep. Storage     (mm)=      2.00         5.00
     Average Slope     (%)=      0.78         0.78
     Length            (m)=     29.62        51.00
     Mannings n           =     0.023        0.190

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.35	3.150	87.11	4.72	4.47
0.033	0.00	1.600	3.35	3.167	87.11	4.73	4.47
0.050	0.00	1.617	3.35	3.183	87.11	4.75	4.47
0.067	0.00	1.633	3.35	3.200	87.11	4.77	3.35
0.083	0.00	1.650	3.35	3.217	87.11	4.78	3.35
0.100	0.00	1.667	3.35	3.233	87.11	4.80	3.35
0.117	0.00	1.683	3.35	3.250	87.11	4.82	3.35
0.133	0.00	1.700	3.35	3.267	12.30	4.83	3.35
0.150	0.00	1.717	3.35	3.283	12.28	4.85	3.35
0.167	0.00	1.733	3.35	3.300	12.28	4.87	3.35
0.183	0.00	1.750	3.35	3.317	12.28	4.88	3.35
0.200	0.00	1.767	5.58	3.333	12.28	4.90	3.35
0.217	0.00	1.783	5.58	3.350	12.28	4.92	3.35
0.233	0.00	1.800	5.58	3.367	12.28	4.93	3.35
0.250	0.00	1.817	5.58	3.383	12.28	4.95	3.35
0.267	2.23	1.833	5.58	3.400	12.28	4.97	3.35
0.283	2.23	1.850	5.58	3.417	12.28	4.98	3.35
0.300	2.23	1.867	5.58	3.433	12.28	5.00	3.35
0.317	2.23	1.883	5.58	3.450	12.28	5.02	3.35
0.333	2.23	1.900	5.58	3.467	12.28	5.03	3.35
0.350	2.23	1.917	5.58	3.483	12.28	5.05	3.35
0.367	2.23	1.933	5.58	3.500	12.28	5.07	3.35
0.383	2.23	1.950	5.58	3.517	12.28	5.08	3.35
0.400	2.23	1.967	5.58	3.533	12.28	5.10	3.35
0.417	2.23	1.983	5.58	3.550	12.28	5.12	3.35
0.433	2.23	2.000	5.58	3.567	12.28	5.13	3.35
0.450	2.23	2.017	5.58	3.583	12.28	5.15	3.35
0.467	2.23	2.033	5.58	3.600	12.28	5.17	3.35
0.483	2.23	2.050	5.58	3.617	12.28	5.18	3.35
0.500	2.23	2.067	5.58	3.633	12.28	5.20	3.35
0.517	2.23	2.083	5.58	3.650	12.28	5.22	3.35
0.533	2.23	2.100	5.58	3.667	12.28	5.23	3.35
0.550	2.23	2.117	5.58	3.683	12.28	5.25	3.35
0.567	2.23	2.133	5.58	3.700	12.28	5.27	2.23
0.583	2.23	2.150	5.58	3.717	12.28	5.28	2.23
0.600	2.23	2.167	5.58	3.733	12.28	5.30	2.23
0.617	2.23	2.183	5.58	3.750	12.28	5.32	2.23
0.633	2.23	2.200	5.58	3.767	5.59	5.33	2.23
0.650	2.23	2.217	5.58	3.783	5.58	5.35	2.23
0.667	2.23	2.233	5.58	3.800	5.58	5.37	2.23
0.683	2.23	2.250	5.58	3.817	5.58	5.38	2.23
0.700	2.23	2.267	6.70	3.833	5.58	5.40	2.23
0.717	2.23	2.283	6.70	3.850	5.58	5.42	2.23
0.733	2.23	2.300	6.70	3.867	5.58	5.43	2.23
0.750	2.23	2.317	6.70	3.883	5.58	5.45	2.23
0.767	3.35	2.333	6.70	3.900	5.58	5.47	2.23
0.783	3.35	2.350	6.70	3.917	5.58	5.48	2.23
0.800	3.35	2.367	6.70	3.933	5.58	5.50	2.23
0.817	3.35	2.383	6.70	3.950	5.58	5.52	2.23
0.833	3.35	2.400	6.70	3.967	5.58	5.53	2.23
0.850	3.35	2.417	6.70	3.983	5.58	5.55	2.23
0.867	3.35	2.433	6.70	4.000	5.58	5.57	2.23
0.883	3.35	2.450	6.70	4.017	5.58	5.58	2.23
0.900	3.35	2.467	6.70	4.033	5.58	5.60	2.23
0.917	3.35	2.483	6.70	4.050	5.58	5.62	2.23
0.933	3.35	2.500	6.70	4.067	5.58	5.63	2.23
0.950	3.35	2.517	6.70	4.083	5.58	5.65	2.23
0.967	3.35	2.533	6.70	4.100	5.58	5.67	2.23
0.983	3.35	2.550	6.70	4.117	5.58	5.68	2.23
1.000	3.35	2.567	6.70	4.133	5.58	5.70	2.23
1.017	3.35	2.583	6.70	4.150	5.58	5.72	2.23
1.033	3.35	2.600	6.70	4.167	5.58	5.73	2.23
1.050	3.35	2.617	6.70	4.183	5.58	5.75	2.23
1.067	3.35	2.633	6.70	4.200	5.58	5.77	2.23
1.083	3.35	2.650	6.70	4.217	5.58	5.78	2.23
1.100	3.35	2.667	6.70	4.233	5.58	5.80	2.23
1.117	3.35	2.683	6.70	4.250	5.58	5.82	2.23
1.133	3.35	2.700	6.70	4.267	4.47	5.83	2.23
1.150	3.35	2.717	6.70	4.283	4.47	5.85	2.23
1.167	3.35	2.733	6.70	4.300	4.47	5.87	2.23
1.183	3.35	2.750	6.70	4.317	4.47	5.88	2.23
1.200	3.35	2.767	33.50	4.333	4.47	5.90	2.23
1.217	3.35	2.783	33.50	4.350	4.47	5.92	2.23
1.233	3.35	2.800	33.50	4.367	4.47	5.93	2.23
1.250	3.35	2.817	33.50	4.383	4.47	5.95	2.23
1.267	3.35	2.833	33.50	4.400	4.47	5.97	2.23
1.283	3.35	2.850	33.50	4.417	4.47	5.98	2.23
1.300	3.35	2.867	33.50	4.433	4.47	6.00	2.23
1.317	3.35	2.883	33.50	4.450	4.47	6.02	2.23
1.333	3.35	2.900	33.50	4.467	4.47	6.03	2.23
1.350	3.35	2.917	33.50	4.483	4.47	6.05	2.23
1.367	3.35	2.933	33.50	4.500	4.47	6.07	2.23
1.383	3.35	2.950	33.50	4.517	4.47	6.08	2.23
1.400	3.35	2.967	33.50	4.533	4.47	6.10	2.23
1.417	3.35	2.983	33.50	4.550	4.47	6.12	2.23
1.433	3.35	3.000	33.50	4.567	4.47	6.13	2.23
1.450	3.35	3.017	87.10	4.583	4.47	6.15	2.23
1.467	3.35	3.033	87.11	4.600	4.47	6.17	2.23
1.483	3.35	3.050	87.11	4.617	4.47	6.18	2.23
1.500	3.35	3.067	87.11	4.633	4.47	6.20	2.23
1.517	3.35	3.083	87.11	4.650	4.47	6.22	2.23
1.533	3.35	3.100	87.11	4.667	4.47	6.23	2.23
1.550	3.35	3.117	87.11	4.683	4.47	6.25	2.23
1.567	3.35	3.133	87.11	4.700	4.47		

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     Max.Eff.Inten.(mm/hr)=      87.11        49.11
               over (min)        5.00         9.00
     Storage Coeff.  (min)=      1.97 (ii)    8.75 (ii)
     Unit Hyd. Tpeak (min)=      5.00         9.00
     Unit Hyd. peak  (cms)=      0.38         0.13
                                                      *TOTALS*
     PEAK FLOW       (cms)=      0.02         0.00       0.024 (iii)
     TIME TO PEAK    (hrs)=      3.25         3.32        3.25
     RUNOFF VOLUME    (mm)=     53.84        19.24       41.89
     TOTAL RAINFALL   (mm)=     55.84        55.84       55.84
     RUNOFF COEFFICIENT   =      0.96         0.34        0.75


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

-------------------------------------------------------------------------------
===============================================================================================================

      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
       V  V    I      SS   U   U  A   A  L
        VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\165f3b5a-36
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\165f3b5a-36


DATE: 04-17-2023                          TIME: 01:21:49

USER:


COMMENTS: _____________________________________________________________


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  ************************************************
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** SIMULATION : J) 10yr 6hr 15min SCS Type II **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\fada1931
Ptotal= 66.14 mm	Comments: 10yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	6.61	3.75	14.55	5.50	2.65
0.50	2.65	2.25	6.61	4.00	6.61	5.75	2.65
0.75	2.65	2.50	7.94	4.25	6.61	6.00	2.65
1.00	3.97	2.75	7.94	4.50	5.29	6.25	2.65
1.25	3.97	3.00	39.68	4.75	5.29		
1.50	3.97	3.25	103.18	5.00	3.97		
1.75	3.97	3.50	14.55	5.25	3.97		

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97
0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97
0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65
0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65
1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.055 (i)
TIME TO PEAK (hrs)= 3.250
RUNOFF VOLUME (mm)= 27.780
TOTAL RAINFALL (mm)= 66.140
RUNOFF COEFFICIENT = 0.420

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)=	0.13	
ID= 1 DT= 1.0 min	Total Imp(%)=	73.33	Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97

0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97
0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65
0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65
1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Max.Eff.Inten.(mm/hr)=	103.18	65.38	
over (min)	5.00	9.00	
Storage Coeff. (min)=	1.84 (ii)	8.17 (ii)	
Unit Hyd. Tpeak (min)=	5.00	9.00	
Unit Hyd. peak (cms)=	0.39	0.13	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.029 (iii)
TIME TO PEAK (hrs)=	3.25	3.30	3.25
RUNOFF VOLUME (mm)=	64.14	25.73	50.88
TOTAL RAINFALL (mm)=	66.14	66.14	66.14
RUNOFF COEFFICIENT =	0.97	0.39	0.77

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\62d909d2-6d
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\62d909d2-6d

DATE: 04-17-2023 TIME: 01:21:50

USER:

COMMENTS: _____

```
  ************************************************
  ** SIMULATION : K) 25yr 6hr 15min SCS Type II **
  ************************************************
```

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\9c561ff2
Ptotal= 79.04 mm	Comments: 25yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	7.90	3.75	17.39	5.50	3.16
0.50	3.16	2.25	7.90	4.00	7.90	5.75	3.16
0.75	3.16	2.50	9.48	4.25	7.90	6.00	3.16
1.00	4.74	2.75	9.48	4.50	6.32	6.25	3.16
1.25	4.74	3.00	47.42	4.75	6.32		
1.50	4.74	3.25	123.30	5.00	4.74		
1.75	4.74	3.50	17.39	5.25	4.74		

CALIB NASHYD (0101) ID= 1 DT= 1.0 min	Area (ha)= 0.36	Curve Number (CN)= 77.0
	Ia (mm)= 4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	4.74	3.150	123.30	4.72	6.32
0.033	0.00	1.600	4.74	3.167	123.30	4.73	6.32
0.050	0.00	1.617	4.74	3.183	123.30	4.75	6.32
0.067	0.00	1.633	4.74	3.200	123.30	4.77	4.74
0.083	0.00	1.650	4.74	3.217	123.30	4.78	4.74
0.100	0.00	1.667	4.74	3.233	123.30	4.80	4.74
0.117	0.00	1.683	4.74	3.250	123.30	4.82	4.74
0.133	0.00	1.700	4.74	3.267	17.40	4.83	4.74
0.150	0.00	1.717	4.74	3.283	17.39	4.85	4.74
0.167	0.00	1.733	4.74	3.300	17.39	4.87	4.74
0.183	0.00	1.750	4.74	3.317	17.39	4.88	4.74
0.200	0.00	1.767	7.90	3.333	17.39	4.90	4.74
0.217	0.00	1.783	7.90	3.350	17.39	4.92	4.74
0.233	0.00	1.800	7.90	3.367	17.39	4.93	4.74
0.250	0.00	1.817	7.90	3.383	17.39	4.95	4.74
0.267	3.16	1.833	7.90	3.400	17.39	4.97	4.74
0.283	3.16	1.850	7.90	3.417	17.39	4.98	4.74
0.300	3.16	1.867	7.90	3.433	17.39	5.00	4.74
0.317	3.16	1.883	7.90	3.450	17.39	5.02	4.74
0.333	3.16	1.900	7.90	3.467	17.39	5.03	4.74
0.350	3.16	1.917	7.90	3.483	17.39	5.05	4.74
0.367	3.16	1.933	7.90	3.500	17.39	5.07	4.74
0.383	3.16	1.950	7.90	3.517	17.39	5.08	4.74
0.400	3.16	1.967	7.90	3.533	17.39	5.10	4.74
0.417	3.16	1.983	7.90	3.550	17.39	5.12	4.74
0.433	3.16	2.000	7.90	3.567	17.39	5.13	4.74
0.450	3.16	2.017	7.90	3.583	17.39	5.15	4.74
0.467	3.16	2.033	7.90	3.600	17.39	5.17	4.74
0.483	3.16	2.050	7.90	3.617	17.39	5.18	4.74
0.500	3.16	2.067	7.90	3.633	17.39	5.20	4.74
0.517	3.16	2.083	7.90	3.650	17.39	5.22	4.74
0.533	3.16	2.100	7.90	3.667	17.39	5.23	4.74
0.550	3.16	2.117	7.90	3.683	17.39	5.25	4.74
0.567	3.16	2.133	7.90	3.700	17.39	5.27	3.16
0.583	3.16	2.150	7.90	3.717	17.39	5.28	3.16
0.600	3.16	2.167	7.90	3.733	17.39	5.30	3.16
0.617	3.16	2.183	7.90	3.750	17.39	5.32	3.16
0.633	3.16	2.200	7.90	3.767	7.91	5.33	3.16
0.650	3.16	2.217	7.90	3.783	7.90	5.35	3.16
0.667	3.16	2.233	7.90	3.800	7.90	5.37	3.16
0.683	3.16	2.250	7.90	3.817	7.90	5.38	3.16
0.700	3.16	2.267	9.48	3.833	7.90	5.40	3.16
0.717	3.16	2.283	9.48	3.850	7.90	5.42	3.16
0.733	3.16	2.300	9.48	3.867	7.90	5.43	3.16
0.750	3.16	2.317	9.48	3.883	7.90	5.45	3.16
0.767	4.74	2.333	9.48	3.900	7.90	5.47	3.16
0.783	4.74	2.350	9.48	3.917	7.90	5.48	3.16
0.800	4.74	2.367	9.48	3.933	7.90	5.50	3.16
0.817	4.74	2.383	9.48	3.950	7.90	5.52	3.16
0.833	4.74	2.400	9.48	3.967	7.90	5.53	3.16
0.850	4.74	2.417	9.48	3.983	7.90	5.55	3.16
0.867	4.74	2.433	9.48	4.000	7.90	5.57	3.16
0.883	4.74	2.450	9.48	4.017	7.90	5.58	3.16
0.900	4.74	2.467	9.48	4.033	7.90	5.60	3.16
0.917	4.74	2.483	9.48	4.050	7.90	5.62	3.16
0.933	4.74	2.500	9.48	4.067	7.90	5.63	3.16
0.950	4.74	2.517	9.48	4.083	7.90	5.65	3.16
0.967	4.74	2.533	9.48	4.100	7.90	5.67	3.16
0.983	4.74	2.550	9.48	4.117	7.90	5.68	3.16
1.000	4.74	2.567	9.48	4.133	7.90	5.70	3.16
1.017	4.74	2.583	9.48	4.150	7.90	5.72	3.16
1.033	4.74	2.600	9.48	4.167	7.90	5.73	3.16
1.050	4.74	2.617	9.48	4.183	7.90	5.75	3.16
1.067	4.74	2.633	9.48	4.200	7.90	5.77	3.16
1.083	4.74	2.650	9.48	4.217	7.90	5.78	3.16
1.100	4.74	2.667	9.48	4.233	7.90	5.80	3.16
1.117	4.74	2.683	9.48	4.250	7.90	5.82	3.16
1.133	4.74	2.700	9.48	4.267	6.32	5.83	3.16
1.150	4.74	2.717	9.48	4.283	6.32	5.85	3.16
1.167	4.74	2.733	9.48	4.300	6.32	5.87	3.16
1.183	4.74	2.750	9.48	4.317	6.32	5.88	3.16
1.200	4.74	2.767	47.42	4.333	6.32	5.90	3.16
1.217	4.74	2.783	47.42	4.350	6.32	5.92	3.16
1.233	4.74	2.800	47.42	4.367	6.32	5.93	3.16
1.250	4.74	2.817	47.42	4.383	6.32	5.95	3.16
1.267	4.74	2.833	47.42	4.400	6.32	5.97	3.16
1.283	4.74	2.850	47.42	4.417	6.32	5.98	3.16
1.300	4.74	2.867	47.42	4.433	6.32	6.00	3.16
1.317	4.74	2.883	47.42	4.450	6.32	6.02	3.16
1.333	4.74	2.900	47.42	4.467	6.32	6.03	3.16
1.350	4.74	2.917	47.42	4.483	6.32	6.05	3.16
1.367	4.74	2.933	47.42	4.500	6.32	6.07	3.16
1.383	4.74	2.950	47.42	4.517	6.32	6.08	3.16
1.400	4.74	2.967	47.42	4.533	6.32	6.10	3.16
1.417	4.74	2.983	47.42	4.550	6.32	6.12	3.16
1.433	4.74	3.000	47.42	4.567	6.32	6.13	3.16
1.450	4.74	3.017	123.29	4.583	6.32	6.15	3.16
1.467	4.74	3.033	123.30	4.600	6.32	6.17	3.16
1.483	4.74	3.050	123.30	4.617	6.32	6.18	3.16
1.500	4.74	3.067	123.30	4.633	6.32	6.20	3.16
1.517	4.74	3.083	123.30	4.650	6.32	6.22	3.16
1.533	4.74	3.100	123.30	4.667	6.32	6.23	3.16
1.550	4.74	3.117	123.30	4.683	6.32	6.25	3.16
1.567	4.74	3.133	123.30	4.700	6.32		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.073 (i)
TIME TO PEAK (hrs)= 3.250
RUNOFF VOLUME (mm)= 37.097
TOTAL RAINFALL (mm)= 79.040
RUNOFF COEFFICIENT = 0.469

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	4.74	3.150	123.30	4.72	6.32
0.033	0.00	1.600	4.74	3.167	123.30	4.73	6.32
0.050	0.00	1.617	4.74	3.183	123.30	4.75	6.32
0.067	0.00	1.633	4.74	3.200	123.30	4.77	4.74
0.083	0.00	1.650	4.74	3.217	123.30	4.78	4.74
0.100	0.00	1.667	4.74	3.233	123.30	4.80	4.74
0.117	0.00	1.683	4.74	3.250	123.30	4.82	4.74
0.133	0.00	1.700	4.74	3.267	17.40	4.83	4.74
0.150	0.00	1.717	4.74	3.283	17.39	4.85	4.74
0.167	0.00	1.733	4.74	3.300	17.39	4.87	4.74
0.183	0.00	1.750	4.74	3.317	17.39	4.88	4.74
0.200	0.00	1.767	7.90	3.333	17.39	4.90	4.74
0.217	0.00	1.783	7.90	3.350	17.39	4.92	4.74
0.233	0.00	1.800	7.90	3.367	17.39	4.93	4.74
0.250	0.00	1.817	7.90	3.383	17.39	4.95	4.74
0.267	3.16	1.833	7.90	3.400	17.39	4.97	4.74
0.283	3.16	1.850	7.90	3.417	17.39	4.98	4.74
0.300	3.16	1.867	7.90	3.433	17.39	5.00	4.74
0.317	3.16	1.883	7.90	3.450	17.39	5.02	4.74
0.333	3.16	1.900	7.90	3.467	17.39	5.03	4.74
0.350	3.16	1.917	7.90	3.483	17.39	5.05	4.74
0.367	3.16	1.933	7.90	3.500	17.39	5.07	4.74
0.383	3.16	1.950	7.90	3.517	17.39	5.08	4.74
0.400	3.16	1.967	7.90	3.533	17.39	5.10	4.74
0.417	3.16	1.983	7.90	3.550	17.39	5.12	4.74
0.433	3.16	2.000	7.90	3.567	17.39	5.13	4.74
0.450	3.16	2.017	7.90	3.583	17.39	5.15	4.74
0.467	3.16	2.033	7.90	3.600	17.39	5.17	4.74
0.483	3.16	2.050	7.90	3.617	17.39	5.18	4.74
0.500	3.16	2.067	7.90	3.633	17.39	5.20	4.74
0.517	3.16	2.083	7.90	3.650	17.39	5.22	4.74
0.533	3.16	2.100	7.90	3.667	17.39	5.23	4.74
0.550	3.16	2.117	7.90	3.683	17.39	5.25	4.74
0.567	3.16	2.133	7.90	3.700	17.39	5.27	3.16
0.583	3.16	2.150	7.90	3.717	17.39	5.28	3.16
0.600	3.16	2.167	7.90	3.733	17.39	5.30	3.16
0.617	3.16	2.183	7.90	3.750	17.39	5.32	3.16

0.633	3.16	2.200	7.90	3.767	7.91	5.33	3.16
0.650	3.16	2.217	7.90	3.783	7.90	5.35	3.16
0.667	3.16	2.233	7.90	3.800	7.90	5.37	3.16
0.683	3.16	2.250	7.90	3.817	7.90	5.38	3.16
0.700	3.16	2.267	9.48	3.833	7.90	5.40	3.16
0.717	3.16	2.283	9.48	3.850	7.90	5.42	3.16
0.733	3.16	2.300	9.48	3.867	7.90	5.43	3.16
0.750	3.16	2.317	9.48	3.883	7.90	5.45	3.16
0.767	4.74	2.333	9.48	3.900	7.90	5.47	3.16
0.783	4.74	2.350	9.48	3.917	7.90	5.48	3.16
0.800	4.74	2.367	9.48	3.933	7.90	5.50	3.16
0.817	4.74	2.383	9.48	3.950	7.90	5.52	3.16
0.833	4.74	2.400	9.48	3.967	7.90	5.53	3.16
0.850	4.74	2.417	9.48	3.983	7.90	5.55	3.16
0.867	4.74	2.433	9.48	4.000	7.90	5.57	3.16
0.883	4.74	2.450	9.48	4.017	7.90	5.58	3.16
0.900	4.74	2.467	9.48	4.033	7.90	5.60	3.16
0.917	4.74	2.483	9.48	4.050	7.90	5.62	3.16
0.933	4.74	2.500	9.48	4.067	7.90	5.63	3.16
0.950	4.74	2.517	9.48	4.083	7.90	5.65	3.16
0.967	4.74	2.533	9.48	4.100	7.90	5.67	3.16
0.983	4.74	2.550	9.48	4.117	7.90	5.68	3.16
1.000	4.74	2.567	9.48	4.133	7.90	5.70	3.16
1.017	4.74	2.583	9.48	4.150	7.90	5.72	3.16
1.033	4.74	2.600	9.48	4.167	7.90	5.73	3.16
1.050	4.74	2.617	9.48	4.183	7.90	5.75	3.16
1.067	4.74	2.633	9.48	4.200	7.90	5.77	3.16
1.083	4.74	2.650	9.48	4.217	7.90	5.78	3.16
1.100	4.74	2.667	9.48	4.233	7.90	5.80	3.16
1.117	4.74	2.683	9.48	4.250	7.90	5.82	3.16
1.133	4.74	2.700	9.48	4.267	6.32	5.83	3.16
1.150	4.74	2.717	9.48	4.283	6.32	5.85	3.16
1.167	4.74	2.733	9.48	4.300	6.32	5.87	3.16
1.183	4.74	2.750	9.48	4.317	6.32	5.88	3.16
1.200	4.74	2.767	47.42	4.333	6.32	5.90	3.16
1.217	4.74	2.783	47.42	4.350	6.32	5.92	3.16
1.233	4.74	2.800	47.42	4.367	6.32	5.93	3.16
1.250	4.74	2.817	47.42	4.383	6.32	5.95	3.16
1.267	4.74	2.833	47.42	4.400	6.32	5.97	3.16
1.283	4.74	2.850	47.42	4.417	6.32	5.98	3.16
1.300	4.74	2.867	47.42	4.433	6.32	6.00	3.16
1.317	4.74	2.883	47.42	4.450	6.32	6.02	3.16
1.333	4.74	2.900	47.42	4.467	6.32	6.03	3.16
1.350	4.74	2.917	47.42	4.483	6.32	6.05	3.16
1.367	4.74	2.933	47.42	4.500	6.32	6.07	3.16
1.383	4.74	2.950	47.42	4.517	6.32	6.08	3.16
1.400	4.74	2.967	47.42	4.533	6.32	6.10	3.16
1.417	4.74	2.983	47.42	4.550	6.32	6.12	3.16
1.433	4.74	3.000	47.42	4.567	6.32	6.13	3.16
1.450	4.74	3.017	123.29	4.583	6.32	6.15	3.16
1.467	4.74	3.033	123.30	4.600	6.32	6.17	3.16
1.483	4.74	3.050	123.30	4.617	6.32	6.18	3.16
1.500	4.74	3.067	123.30	4.633	6.32	6.20	3.16
1.517	4.74	3.083	123.30	4.650	6.32	6.22	3.16
1.533	4.74	3.100	123.30	4.667	6.32	6.23	3.16
1.550	4.74	3.117	123.30	4.683	6.32	6.25	3.16
1.567	4.74	3.133	123.30	4.700	6.32		

Max.Eff.Inten.(mm/hr)=	123.30	87.26	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.72 (ii)	7.61 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.40	0.15	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.036 (iii)
TIME TO PEAK (hrs)=	3.25	3.30	3.25
RUNOFF VOLUME (mm)=	77.04	34.54	62.38
TOTAL RAINFALL (mm)=	79.04	79.04	79.04
RUNOFF COEFFICIENT =	0.97	0.44	0.79

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
        V  V   I      SS   U   U  A   A  L
```

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         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M M M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\e518a22f-ad
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\e518a22f-ad

DATE: 04-17-2023 TIME: 01:21:52

USER:

COMMENTS: _____

** SIMULATION : L) 50yr 6hr 15min SCS Type II **

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\deb1e3ea
Ptotal= 88.35 mm	Comments: 50yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	8.84	3.75	19.44	5.50	3.53
0.50	3.53	2.25	8.84	4.00	8.84	5.75	3.53
0.75	3.53	2.50	10.60	4.25	8.84	6.00	3.53
1.00	5.30	2.75	10.60	4.50	7.07	6.25	3.53
1.25	5.30	3.00	53.01	4.75	7.07		
1.50	5.30	3.25	137.83	5.00	5.30		
1.75	5.30	3.50	19.44	5.25	5.30		

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30
0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30
0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30

0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53
0.850	5.30	2.417	10.60	3.983	8.84	5.55	3.53
0.867	5.30	2.433	10.60	4.000	8.84	5.57	3.53
0.883	5.30	2.450	10.60	4.017	8.83	5.58	3.53
0.900	5.30	2.467	10.60	4.033	8.84	5.60	3.53
0.917	5.30	2.483	10.60	4.050	8.84	5.62	3.53
0.933	5.30	2.500	10.60	4.067	8.84	5.63	3.53
0.950	5.30	2.517	10.60	4.083	8.84	5.65	3.53
0.967	5.30	2.533	10.60	4.100	8.84	5.67	3.53
0.983	5.30	2.550	10.60	4.117	8.84	5.68	3.53
1.000	5.30	2.567	10.60	4.133	8.84	5.70	3.53
1.017	5.30	2.583	10.60	4.150	8.84	5.72	3.53
1.033	5.30	2.600	10.60	4.167	8.84	5.73	3.53
1.050	5.30	2.617	10.60	4.183	8.84	5.75	3.53
1.067	5.30	2.633	10.60	4.200	8.84	5.77	3.53
1.083	5.30	2.650	10.60	4.217	8.84	5.78	3.53
1.100	5.30	2.667	10.60	4.233	8.84	5.80	3.53
1.117	5.30	2.683	10.60	4.250	8.84	5.82	3.53
1.133	5.30	2.700	10.60	4.267	7.07	5.83	3.53
1.150	5.30	2.717	10.60	4.283	7.07	5.85	3.53
1.167	5.30	2.733	10.60	4.300	7.07	5.87	3.53
1.183	5.30	2.750	10.60	4.317	7.07	5.88	3.53
1.200	5.30	2.767	53.01	4.333	7.07	5.90	3.53
1.217	5.30	2.783	53.01	4.350	7.07	5.92	3.53
1.233	5.30	2.800	53.01	4.367	7.07	5.93	3.53
1.250	5.30	2.817	53.01	4.383	7.07	5.95	3.53
1.267	5.30	2.833	53.01	4.400	7.07	5.97	3.53
1.283	5.30	2.850	53.01	4.417	7.07	5.98	3.53
1.300	5.30	2.867	53.01	4.433	7.07	6.00	3.53
1.317	5.30	2.883	53.01	4.450	7.07	6.02	3.53
1.333	5.30	2.900	53.01	4.467	7.07	6.03	3.53
1.350	5.30	2.917	53.01	4.483	7.07	6.05	3.53
1.367	5.30	2.933	53.01	4.500	7.07	6.07	3.53
1.383	5.30	2.950	53.01	4.517	7.07	6.08	3.53
1.400	5.30	2.967	53.01	4.533	7.07	6.10	3.53
1.417	5.30	2.983	53.01	4.550	7.07	6.12	3.53
1.433	5.30	3.000	53.01	4.567	7.07	6.13	3.53
1.450	5.30	3.017	137.81	4.583	7.07	6.15	3.53
1.467	5.30	3.033	137.83	4.600	7.07	6.17	3.53
1.483	5.30	3.050	137.83	4.617	7.07	6.18	3.53
1.500	5.30	3.067	137.83	4.633	7.07	6.20	3.53
1.517	5.30	3.083	137.83	4.650	7.07	6.22	3.53
1.533	5.30	3.100	137.83	4.667	7.07	6.23	3.53
1.550	5.30	3.117	137.83	4.683	7.07	6.25	3.53
1.567	5.30	3.133	137.83	4.700	7.07		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.087 (i)
TIME TO PEAK (hrs)= 3.250
RUNOFF VOLUME (mm)= 44.180
TOTAL RAINFALL (mm)= 88.350
RUNOFF COEFFICIENT = 0.500

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33	Dir. Conn.(%)= 65.58	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30
0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30
0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30
0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53
0.850	5.30	2.417	10.60	3.983	8.84	5.55	3.53
0.867	5.30	2.433	10.60	4.000	8.84	5.57	3.53
0.883	5.30	2.450	10.60	4.017	8.83	5.58	3.53
0.900	5.30	2.467	10.60	4.033	8.84	5.60	3.53
0.917	5.30	2.483	10.60	4.050	8.84	5.62	3.53
0.933	5.30	2.500	10.60	4.067	8.84	5.63	3.53
0.950	5.30	2.517	10.60	4.083	8.84	5.65	3.53
0.967	5.30	2.533	10.60	4.100	8.84	5.67	3.53
0.983	5.30	2.550	10.60	4.117	8.84	5.68	3.53
1.000	5.30	2.567	10.60	4.133	8.84	5.70	3.53
1.017	5.30	2.583	10.60	4.150	8.84	5.72	3.53
1.033	5.30	2.600	10.60	4.167	8.84	5.73	3.53
1.050	5.30	2.617	10.60	4.183	8.84	5.75	3.53
1.067	5.30	2.633	10.60	4.200	8.84	5.77	3.53

1.083	5.30	2.650	10.60	4.217	8.84	5.78	3.53
1.100	5.30	2.667	10.60	4.233	8.84	5.80	3.53
1.117	5.30	2.683	10.60	4.250	8.84	5.82	3.53
1.133	5.30	2.700	10.60	4.267	7.07	5.83	3.53
1.150	5.30	2.717	10.60	4.283	7.07	5.85	3.53
1.167	5.30	2.733	10.60	4.300	7.07	5.87	3.53
1.183	5.30	2.750	10.60	4.317	7.07	5.88	3.53
1.200	5.30	2.767	53.01	4.333	7.07	5.90	3.53
1.217	5.30	2.783	53.01	4.350	7.07	5.92	3.53
1.233	5.30	2.800	53.01	4.367	7.07	5.93	3.53
1.250	5.30	2.817	53.01	4.383	7.07	5.95	3.53
1.267	5.30	2.833	53.01	4.400	7.07	5.97	3.53
1.283	5.30	2.850	53.01	4.417	7.07	5.98	3.53
1.300	5.30	2.867	53.01	4.433	7.07	6.00	3.53
1.317	5.30	2.883	53.01	4.450	7.07	6.02	3.53
1.333	5.30	2.900	53.01	4.467	7.07	6.03	3.53
1.350	5.30	2.917	53.01	4.483	7.07	6.05	3.53
1.367	5.30	2.933	53.01	4.500	7.07	6.07	3.53
1.383	5.30	2.950	53.01	4.517	7.07	6.08	3.53
1.400	5.30	2.967	53.01	4.533	7.07	6.10	3.53
1.417	5.30	2.983	53.01	4.550	7.07	6.12	3.53
1.433	5.30	3.000	53.01	4.567	7.07	6.13	3.53
1.450	5.30	3.017	137.81	4.583	7.07	6.15	3.53
1.467	5.30	3.033	137.83	4.600	7.07	6.17	3.53
1.483	5.30	3.050	137.83	4.617	7.07	6.18	3.53
1.500	5.30	3.067	137.83	4.633	7.07	6.20	3.53
1.517	5.30	3.083	137.83	4.650	7.07	6.22	3.53
1.533	5.30	3.100	137.83	4.667	7.07	6.23	3.53
1.550	5.30	3.117	137.83	4.683	7.07	6.25	3.53
1.567	5.30	3.133	137.83	4.700	7.07		

Max.Eff.Inten.(mm/hr)=	137.83	103.86	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.64 (ii)	7.28 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.41	0.15	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.041 (iii)
TIME TO PEAK (hrs)=	3.25	3.28	3.25
RUNOFF VOLUME (mm)=	86.35	41.27	70.80
TOTAL RAINFALL (mm)=	88.35	88.35	88.35
RUNOFF COEFFICIENT =	0.98	0.47	0.80

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

FINISH

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V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
V    V   I    SS     U   U   A A   L
 V  V    I     SS    U   U  AAAAA  L
 V  V    I      SS   U   U  A   A  L
  VV     I    SSSSS  UUUUU  A   A  LLLLL

 OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
O   O    T      T    H   H   Y Y   MM MM  O   O
O   O    T      T    H   H    Y    M   M  O   O
 OOO     T      T    H   H    Y    M   M   OOO
```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\c7020245-38
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\c7020245-38

DATE: 04-17-2023 TIME: 01:21:52

USER:

COMMENTS: _____

** SIMULATION : M) 100yr 6hr 15min SCS Type I **

READ STORM | Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\82fa0005
Ptotal= 97.13 mm | Comments: 100yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	9.71	3.75	21.37	5.50	3.89
0.50	3.89	2.25	9.71	4.00	9.71	5.75	3.89
0.75	3.89	2.50	11.66	4.25	9.71	6.00	3.89
1.00	5.83	2.75	11.66	4.50	7.77	6.25	3.89
1.25	5.83	3.00	58.28	4.75	7.77		
1.50	5.83	3.25	151.52	5.00	5.83		
1.75	5.83	3.50	21.37	5.25	5.83		

CALIB | NASHYD (0101) | ID= 1 DT= 1.0 min | Area (ha)= 0.36 Curve Number (CN)= 77.0 | Ia (mm)= 4.27 # of Linear Res.(N)= 3.00 | U.H. Tp(hrs)= 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	5.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	5.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	5.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	5.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	5.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	5.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	5.89
0.683	3.89	2.250	9.71	3.817	9.71	5.38	5.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	5.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	5.89

0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89
1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89
1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89
1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.100 (i)
TIME TO PEAK (hrs)= 3.250
RUNOFF VOLUME (mm)= 51.085
TOTAL RAINFALL (mm)= 97.130
RUNOFF COEFFICIENT = 0.526

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	3.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	3.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	3.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	3.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	3.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	3.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	3.89
0.683	3.89	2.250	9.71	3.817	9.71	5.38	3.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	3.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	3.89
0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89
1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89
1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89

1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Max.Eff.Inten.(mm/hr)=	151.52	120.01	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.58 (ii)	7.01 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.41	0.15	
		TOTALS	
PEAK FLOW (cms)=	0.04	0.01	0.045 (iii)
TIME TO PEAK (hrs)=	3.25	3.28	3.25
RUNOFF VOLUME (mm)=	95.13	47.87	78.83
TOTAL RAINFALL (mm)=	97.13	97.13	97.13
RUNOFF COEFFICIENT =	0.98	0.49	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

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  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\5e10cf86-21
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\5e10cf86-21

DATE: 04-17-2023                          TIME: 01:21:50

USER:


COMMENTS: _____________________________________________________
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  ************************************************
  ** SIMULATION : N) 2yr 12hr 15min SCS Type II **
  ************************************************


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|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\b2cc8c31
| Ptotal= 47.50 mm |    Comments: 2yr 12hr 15min SCS Type II (MTO)
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	1.90	6.75	8.55	10.00	1.66
0.50	1.19	3.75	1.90	7.00	3.80	10.25	1.66
0.75	1.19	4.00	1.90	7.25	3.80	10.50	0.95
1.00	1.19	4.25	1.90	7.50	2.85	10.75	0.95
1.25	1.19	4.50	2.85	7.75	2.85	11.00	0.95
1.50	1.19	4.75	2.85	8.00	2.85	11.25	0.95
1.75	1.19	5.00	3.80	8.25	2.85	11.50	0.95
2.00	1.19	5.25	3.80	8.50	1.66	11.75	0.95
2.25	1.19	5.50	5.70	8.75	1.66	12.00	0.95
2.50	1.42	5.75	5.70	9.00	1.66	12.25	0.95
2.75	1.42	6.00	22.80	9.25	1.66		
3.00	1.42	6.25	62.70	9.50	1.66		
3.25	1.42	6.50	8.55	9.75	1.66		

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| CALIB            |
| NASHYD  (  0101) |   Area     (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia       (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66
0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66
0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66
0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66
0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95

1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95
1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95
2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95
2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.026 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 15.685
TOTAL RAINFALL (mm)= 47.500
RUNOFF COEFFICIENT = 0.330

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33	Dir. Conn.(%)= 65.58	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66
0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66

0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66
0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66
0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95
1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95
1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95
2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95
2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Max.Eff.Inten.(mm/hr)= 62.70 30.88

```
            over (min)        5.00          10.00
      Storage Coeff.  (min)=      2.25 (ii)    9.98 (ii)
      Unit Hyd. Tpeak (min)=      5.00         10.00
      Unit Hyd. peak  (cms)=      0.35          0.11
                                                  *TOTALS*
      PEAK FLOW       (cms)=      0.01          0.00          0.017 (iii)
      TIME TO PEAK    (hrs)=      6.25          6.33          6.25
      RUNOFF VOLUME    (mm)=     45.50         14.41         34.77
      TOTAL RAINFALL   (mm)=     47.50         47.50         47.50
      RUNOFF COEFFICIENT   =      0.96          0.30          0.73


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I      SS   U   U  AAAAA  L
         V V    I       SS  U   U  A   A  L
          VV    I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\c0071aa4-35
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\c0071aa4-35


DATE: 04-17-2023                          TIME: 01:21:51

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : O) 5yr 12hr 15min SCS Type II **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\80a1c5bf
| Ptotal= 66.00 mm |    Comments: 5yr 12hr 15min SCS Type II (MTO)
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```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	2.64	6.75	11.88	10.00	2.31
0.50	1.65	3.75	2.64	7.00	5.28	10.25	2.31
0.75	1.65	4.00	2.64	7.25	5.28	10.50	1.32
1.00	1.65	4.25	2.64	7.50	3.96	10.75	1.32
1.25	1.65	4.50	3.96	7.75	3.96	11.00	1.32
1.50	1.65	4.75	3.96	8.00	3.96	11.25	1.32
1.75	1.65	5.00	5.28	8.25	3.96	11.50	1.32
2.00	1.65	5.25	5.28	8.50	2.31	11.75	1.32
2.25	1.65	5.50	7.92	8.75	2.31	12.00	1.32
2.50	1.98	5.75	7.92	9.00	2.31	12.25	1.32
2.75	1.98	6.00	31.68	9.25	2.31		
3.00	1.98	6.25	87.12	9.50	2.31		
3.25	1.98	6.50	11.88	9.75	2.31		

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| CALIB              |
| NASHYD   (  0101)  |   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min   |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31
0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31
1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32

1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32
1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32
1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32
2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32
2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.046 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 27.682
TOTAL RAINFALL (mm)= 66.000
RUNOFF COEFFICIENT = 0.419

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31

0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31
1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32
1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32
1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32
1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32
2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32
2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Max.Eff.Inten.(mm/hr)=	87.12	54.58	
over (min)	5.00	9.00	
Storage Coeff. (min)=	1.97 (ii)	8.75 (ii)	
Unit Hyd. Tpeak (min)=	5.00	9.00	
Unit Hyd. peak (cms)=	0.38	0.13	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.024 (iii)
TIME TO PEAK (hrs)=	6.25	6.30	6.25
RUNOFF VOLUME (mm)=	64.00	25.64	50.76
TOTAL RAINFALL (mm)=	66.00	66.00	66.00

```
     RUNOFF COEFFICIENT   =       0.97         0.39           0.77

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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===========================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\5da2e9c2-db
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\5da2e9c2-db


DATE: 04-17-2023                          TIME: 01:21:50

USER:


COMMENTS: _____________________________________________________


-------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : P) 10yr 12hr 15min SCS Type I **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\8142d492
| Ptotal= 78.50 mm |    Comments: 10yr 12hr 15min SCS Type II (MTO)
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.25    0.00 |  3.50    3.14 |  6.75   14.13 | 10.00    2.75
               0.50    1.96 |  3.75    3.14 |  7.00    6.28 | 10.25    2.75
               0.75    1.96 |  4.00    3.14 |  7.25    6.28 | 10.50    1.57
               1.00    1.96 |  4.25    3.14 |  7.50    4.71 | 10.75    1.57
               1.25    1.96 |  4.50    4.71 |  7.75    4.71 | 11.00    1.57
               1.50    1.96 |  4.75    4.71 |  8.00    4.71 | 11.25    1.57
               1.75    1.96 |  5.00    6.28 |  8.25    4.71 | 11.50    1.57
               2.00    1.96 |  5.25    6.28 |  8.50    2.75 | 11.75    1.57
               2.25    1.96 |  5.50    9.42 |  8.75    2.75 | 12.00    1.57
               2.50    2.36 |  5.75    9.42 |  9.00    2.75 | 12.25    1.57
               2.75    2.36 |  6.00   37.68 |  9.25    2.75 |
               3.00    2.36 |  6.25  103.62 |  9.50    2.75 |
               3.25    2.36 |  6.50   14.13 |  9.75    2.75 |

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| CALIB            |
| NASHYD   (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                           ---- TRANSFORMED HYETOGRAPH ----
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75
0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75
0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75
0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75
0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57
1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57

1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57
1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57
2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.061 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 36.695
TOTAL RAINFALL (mm)= 78.499
RUNOFF COEFFICIENT = 0.467

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75
0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75
0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75

0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75
0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57
1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57
1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57
1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57
2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Max.Eff.Inten.(mm/hr)=	103.62	72.40	
over (min)	5.00	9.00	
Storage Coeff. (min)=	1.84 (ii)	8.16 (ii)	
Unit Hyd. Tpeak (min)=	5.00	9.00	
Unit Hyd. peak (cms)=	0.39	0.13	
			TOTALS
PEAK FLOW (cms)=	0.02	0.01	0.030 (iii)
TIME TO PEAK (hrs)=	6.25	6.30	6.25
RUNOFF VOLUME (mm)=	76.50	34.15	61.89
TOTAL RAINFALL (mm)=	78.50	78.50	78.50
RUNOFF COEFFICIENT =	0.97	0.44	0.79

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M M M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\a0884fb4-5a
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\a0884fb4-5a


DATE: 04-17-2023                          TIME: 01:21:51

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : Q) 25yr 12hr 15min SCS Type I **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\d0168539
| Ptotal= 94.02 mm |    Comments: 25yr 12hr 15min SCS Type II (MTO)
--------------------
                TIME     RAIN |  TIME     RAIN |'  TIME     RAIN |  TIME     RAIN
                 hrs    mm/hr |   hrs    mm/hr |'   hrs    mm/hr |   hrs    mm/hr
               0.25     0.00 |  3.50     3.76 |  6.75    16.92 | 10.00     3.29
               0.50     2.35 |  3.75     3.76 |  7.00     7.52 | 10.25     3.29
               0.75     2.35 |  4.00     3.76 |  7.25     7.52 | 10.50     1.88
               1.00     2.35 |  4.25     3.76 |  7.50     5.64 | 10.75     1.88
               1.25     2.35 |  4.50     5.64 |  7.75     5.64 | 11.00     1.88
               1.50     2.35 |  4.75     5.64 |  8.00     5.64 | 11.25     1.88
               1.75     2.35 |  5.00     7.52 |  8.25     5.64 | 11.50     1.88
               2.00     2.35 |  5.25     7.52 |  8.50     3.29 | 11.75     1.88
               2.25     2.35 |  5.50    11.28 |  8.75     3.29 | 12.00     1.88
               2.50     2.82 |  5.75    11.28 |  9.00     3.29 | 12.25     1.88
               2.75     2.82 |  6.00    45.13 |  9.25     3.29 |
               3.00     2.82 |  6.25   124.11 |  9.50     3.29 |
               3.25     2.82 |  6.50    16.92 |  9.75     3.29 |

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--------------------
| CALIB            |
| NASHYD   (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                          ---- TRANSFORMED HYETOGRAPH ----
                TIME     RAIN |  TIME     RAIN |'  TIME     RAIN |  TIME     RAIN
                 hrs    mm/hr |   hrs    mm/hr |'   hrs    mm/hr |   hrs    mm/hr
               0.017     0.00 | 3.083     2.82 | 6.150   124.11 |  9.22     3.29
               0.033     0.00 | 3.100     2.82 | 6.167   124.11 |  9.23     3.29
               0.050     0.00 | 3.117     2.82 | 6.183   124.11 |  9.25     3.29
               0.067     0.00 | 3.133     2.82 | 6.200   124.11 |  9.27     3.29
               0.083     0.00 | 3.150     2.82 | 6.217   124.11 |  9.28     3.29
               0.100     0.00 | 3.167     2.82 | 6.233   124.11 |  9.30     3.29
               0.117     0.00 | 3.183     2.82 | 6.250   123.94 |  9.32     3.29
               0.133     0.00 | 3.200     2.82 | 6.267    16.92 |  9.33     3.29
               0.150     0.00 | 3.217     2.82 | 6.283    16.92 |  9.35     3.29
               0.167     0.00 | 3.233     2.82 | 6.300    16.92 |  9.37     3.29
               0.183     0.00 | 3.250     2.82 | 6.317    16.92 |  9.38     3.29
               0.200     0.00 | 3.267     3.76 | 6.333    16.92 |  9.40     3.29
               0.217     0.00 | 3.283     3.76 | 6.350    16.92 |  9.42     3.29
               0.233     0.00 | 3.300     3.76 | 6.367    16.92 |  9.43     3.29
               0.250     0.00 | 3.317     3.76 | 6.383    16.92 |  9.45     3.29
               0.267     2.35 | 3.333     3.76 | 6.400    16.92 |  9.47     3.29
               0.283     2.35 | 3.350     3.76 | 6.417    16.92 |  9.48     3.29
               0.300     2.35 | 3.367     3.76 | 6.433    16.92 |  9.50     3.29
               0.317     2.35 | 3.383     3.76 | 6.450    16.92 |  9.52     3.29
               0.333     2.35 | 3.400     3.76 | 6.467    16.92 |  9.53     3.29
               0.350     2.35 | 3.417     3.76 | 6.483    16.92 |  9.55     3.29
               0.367     2.35 | 3.433     3.76 | 6.500    16.92 |  9.57     3.29
               0.383     2.35 | 3.450     3.76 | 6.517    16.92 |  9.58     3.29
               0.400     2.35 | 3.467     3.76 | 6.533    16.92 |  9.60     3.29
               0.417     2.35 | 3.483     3.76 | 6.550    16.92 |  9.62     3.29
               0.433     2.35 | 3.500     3.76 | 6.567    16.92 |  9.63     3.29
               0.450     2.35 | 3.517     3.76 | 6.583    16.92 |  9.65     3.29
               0.467     2.35 | 3.533     3.76 | 6.600    16.92 |  9.67     3.29
               0.483     2.35 | 3.550     3.76 | 6.617    16.92 |  9.68     3.29
               0.500     2.35 | 3.567     3.76 | 6.633    16.92 |  9.70     3.29
               0.517     2.35 | 3.583     3.76 | 6.650    16.92 |  9.72     3.29
               0.533     2.35 | 3.600     3.76 | 6.667    16.92 |  9.73     3.29
               0.550     2.35 | 3.617     3.76 | 6.683    16.92 |  9.75     3.29
               0.567     2.35 | 3.633     3.76 | 6.700    16.92 |  9.77     3.29
               0.583     2.35 | 3.650     3.76 | 6.717    16.92 |  9.78     3.29
               0.600     2.35 | 3.667     3.76 | 6.733    16.92 |  9.80     3.29
               0.617     2.35 | 3.683     3.76 | 6.750    16.90 |  9.82     3.29
               0.633     2.35 | 3.700     3.76 | 6.767     7.52 |  9.83     3.29
               0.650     2.35 | 3.717     3.76 | 6.783     7.52 |  9.85     3.29
               0.667     2.35 | 3.733     3.76 | 6.800     7.52 |  9.87     3.29
               0.683     2.35 | 3.750     3.76 | 6.817     7.52 |  9.88     3.29
               0.700     2.35 | 3.767     3.76 | 6.833     7.52 |  9.90     3.29
               0.717     2.35 | 3.783     3.76 | 6.850     7.52 |  9.92     3.29
               0.733     2.35 | 3.800     3.76 | 6.867     7.52 |  9.93     3.29
               0.750     2.35 | 3.817     3.76 | 6.883     7.52 |  9.95     3.29
               0.767     2.35 | 3.833     3.76 | 6.900     7.52 |  9.97     3.29
               0.783     2.35 | 3.850     3.76 | 6.917     7.52 |  9.98     3.29
               0.800     2.35 | 3.867     3.76 | 6.933     7.52 | 10.00     3.29
               0.817     2.35 | 3.883     3.76 | 6.950     7.52 | 10.02     3.29
               0.833     2.35 | 3.900     3.76 | 6.967     7.52 | 10.03     3.29
               0.850     2.35 | 3.917     3.76 | 6.983     7.52 | 10.05     3.29
               0.867     2.35 | 3.933     3.76 | 7.000     7.52 | 10.07     3.29
               0.883     2.35 | 3.950     3.76 | 7.017     7.52 | 10.08     3.29
               0.900     2.35 | 3.967     3.76 | 7.033     7.52 | 10.10     3.29
               0.917     2.35 | 3.983     3.76 | 7.050     7.52 | 10.12     3.29
               0.933     2.35 | 4.000     3.76 | 7.067     7.52 | 10.13     3.29
               0.950     2.35 | 4.017     3.76 | 7.083     7.52 | 10.15     3.29
               0.967     2.35 | 4.033     3.76 | 7.100     7.52 | 10.17     3.29
               0.983     2.35 | 4.050     3.76 | 7.117     7.52 | 10.18     3.29
               1.000     2.35 | 4.067     3.76 | 7.133     7.52 | 10.20     3.29
               1.017     2.35 | 4.083     3.76 | 7.150     7.52 | 10.22     3.29
               1.033     2.35 | 4.100     3.76 | 7.167     7.52 | 10.23     3.29
               1.050     2.35 | 4.117     3.76 | 7.183     7.52 | 10.25     3.29
               1.067     2.35 | 4.133     3.76 | 7.200     7.52 | 10.27     1.88
               1.083     2.35 | 4.150     3.76 | 7.217     7.52 | 10.28     1.88
               1.100     2.35 | 4.167     3.76 | 7.233     7.52 | 10.30     1.88
               1.117     2.35 | 4.183     3.76 | 7.250     7.52 | 10.32     1.88
               1.133     2.35 | 4.200     3.76 | 7.267     5.64 | 10.33     1.88
               1.150     2.35 | 4.217     3.76 | 7.283     5.64 | 10.35     1.88
               1.167     2.35 | 4.233     3.76 | 7.300     5.64 | 10.37     1.88
               1.183     2.35 | 4.250     3.76 | 7.317     5.64 | 10.38     1.88
               1.200     2.35 | 4.267     5.64 | 7.333     5.64 | 10.40     1.88
               1.217     2.35 | 4.283     5.64 | 7.350     5.64 | 10.42     1.88
               1.233     2.35 | 4.300     5.64 | 7.367     5.64 | 10.43     1.88
               1.250     2.35 | 4.317     5.64 | 7.383     5.64 | 10.45     1.88
               1.267     2.35 | 4.333     5.64 | 7.400     5.64 | 10.47     1.88
               1.283     2.35 | 4.350     5.64 | 7.417     5.64 | 10.48     1.88
               1.300     2.35 | 4.367     5.64 | 7.433     5.64 | 10.50     1.88
               1.317     2.35 | 4.383     5.64 | 7.450     5.64 | 10.52     1.88
               1.333     2.35 | 4.400     5.64 | 7.467     5.64 | 10.53     1.88
               1.350     2.35 | 4.417     5.64 | 7.483     5.64 | 10.55     1.88
               1.367     2.35 | 4.433     5.64 | 7.500     5.64 | 10.57     1.88
               1.383     2.35 | 4.450     5.64 | 7.517     5.64 | 10.58     1.88
               1.400     2.35 | 4.467     5.64 | 7.533     5.64 | 10.60     1.88
               1.417     2.35 | 4.483     5.64 | 7.550     5.64 | 10.62     1.88
               1.433     2.35 | 4.500     5.64 | 7.567     5.64 | 10.63     1.88
               1.450     2.35 | 4.517     5.64 | 7.583     5.64 | 10.65     1.88
               1.467     2.35 | 4.533     5.64 | 7.600     5.64 | 10.67     1.88
               1.483     2.35 | 4.550     5.64 | 7.617     5.64 | 10.68     1.88
               1.500     2.35 | 4.567     5.64 | 7.633     5.64 | 10.70     1.88
               1.517     2.35 | 4.583     5.64 | 7.650     5.64 | 10.72     1.88
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1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88
1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88
2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88
2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88
3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.080 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 48.616
TOTAL RAINFALL (mm)= 94.019
RUNOFF COEFFICIENT = 0.517

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0102)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.82	6.150	124.11	9.22	3.29
0.033	0.00	3.100	2.82	6.167	124.11	9.23	3.29
0.050	0.00	3.117	2.82	6.183	124.11	9.25	3.29
0.067	0.00	3.133	2.82	6.200	124.11	9.27	3.29
0.083	0.00	3.150	2.82	6.217	124.11	9.28	3.29
0.100	0.00	3.167	2.82	6.233	124.11	9.30	3.29
0.117	0.00	3.183	2.82	6.250	123.94	9.32	3.29
0.133	0.00	3.200	2.82	6.267	16.92	9.33	3.29
0.150	0.00	3.217	2.82	6.283	16.92	9.35	3.29
0.167	0.00	3.233	2.82	6.300	16.92	9.37	3.29
0.183	0.00	3.250	2.82	6.317	16.92	9.38	3.29
0.200	0.00	3.267	3.76	6.333	16.92	9.40	3.29
0.217	0.00	3.283	3.76	6.350	16.92	9.42	3.29
0.233	0.00	3.300	3.76	6.367	16.92	9.43	3.29
0.250	0.00	3.317	3.76	6.383	16.92	9.45	3.29
0.267	2.35	3.333	3.76	6.400	16.92	9.47	3.29
0.283	2.35	3.350	3.76	6.417	16.92	9.48	3.29
0.300	2.35	3.367	3.76	6.433	16.92	9.50	3.29
0.317	2.35	3.383	3.76	6.450	16.92	9.52	3.29
0.333	2.35	3.400	3.76	6.467	16.92	9.53	3.29
0.350	2.35	3.417	3.76	6.483	16.92	9.55	3.29
0.367	2.35	3.433	3.76	6.500	16.92	9.57	3.29
0.383	2.35	3.450	3.76	6.517	16.92	9.58	3.29
0.400	2.35	3.467	3.76	6.533	16.92	9.60	3.29
0.417	2.35	3.483	3.76	6.550	16.92	9.62	3.29
0.433	2.35	3.500	3.76	6.567	16.92	9.63	3.29
0.450	2.35	3.517	3.76	6.583	16.92	9.65	3.29
0.467	2.35	3.533	3.76	6.600	16.92	9.67	3.29
0.483	2.35	3.550	3.76	6.617	16.92	9.68	3.29
0.500	2.35	3.567	3.76	6.633	16.92	9.70	3.29
0.517	2.35	3.583	3.76	6.650	16.92	9.72	3.29
0.533	2.35	3.600	3.76	6.667	16.92	9.73	3.29
0.550	2.35	3.617	3.76	6.683	16.92	9.75	3.29
0.567	2.35	3.633	3.76	6.700	16.92	9.77	3.29
0.583	2.35	3.650	3.76	6.717	16.92	9.78	3.29
0.600	2.35	3.667	3.76	6.733	16.92	9.80	3.29
0.617	2.35	3.683	3.76	6.750	16.90	9.82	3.29
0.633	2.35	3.700	3.76	6.767	7.52	9.83	3.29
0.650	2.35	3.717	3.76	6.783	7.52	9.85	3.29
0.667	2.35	3.733	3.76	6.800	7.52	9.87	3.29
0.683	2.35	3.750	3.76	6.817	7.52	9.88	3.29
0.700	2.35	3.767	3.76	6.833	7.52	9.90	3.29
0.717	2.35	3.783	3.76	6.850	7.52	9.92	3.29
0.733	2.35	3.800	3.76	6.867	7.52	9.93	3.29
0.750	2.35	3.817	3.76	6.883	7.52	9.95	3.29

0.767	2.35	3.833	3.76	6.900	7.52	9.97	3.29
0.783	2.35	3.850	3.76	6.917	7.52	9.98	3.29
0.800	2.35	3.867	3.76	6.933	7.52	10.00	3.29
0.817	2.35	3.883	3.76	6.950	7.52	10.02	3.29
0.833	2.35	3.900	3.76	6.967	7.52	10.03	3.29
0.850	2.35	3.917	3.76	6.983	7.52	10.05	3.29
0.867	2.35	3.933	3.76	7.000	7.52	10.07	3.29
0.883	2.35	3.950	3.76	7.017	7.52	10.08	3.29
0.900	2.35	3.967	3.76	7.033	7.52	10.10	3.29
0.917	2.35	3.983	3.76	7.050	7.52	10.12	3.29
0.933	2.35	4.000	3.76	7.067	7.52	10.13	3.29
0.950	2.35	4.017	3.76	7.083	7.52	10.15	3.29
0.967	2.35	4.033	3.76	7.100	7.52	10.17	3.29
0.983	2.35	4.050	3.76	7.117	7.52	10.18	3.29
1.000	2.35	4.067	3.76	7.133	7.52	10.20	3.29
1.017	2.35	4.083	3.76	7.150	7.52	10.22	3.29
1.033	2.35	4.100	3.76	7.167	7.52	10.23	3.29
1.050	2.35	4.117	3.76	7.183	7.52	10.25	3.29
1.067	2.35	4.133	3.76	7.200	7.52	10.27	1.88
1.083	2.35	4.150	3.76	7.217	7.52	10.28	1.88
1.100	2.35	4.167	3.76	7.233	7.52	10.30	1.88
1.117	2.35	4.183	3.76	7.250	7.52	10.32	1.88
1.133	2.35	4.200	3.76	7.267	5.64	10.33	1.88
1.150	2.35	4.217	3.76	7.283	5.64	10.35	1.88
1.167	2.35	4.233	3.76	7.300	5.64	10.37	1.88
1.183	2.35	4.250	3.76	7.317	5.64	10.38	1.88
1.200	2.35	4.267	5.64	7.333	5.64	10.40	1.88
1.217	2.35	4.283	5.64	7.350	5.64	10.42	1.88
1.233	2.35	4.300	5.64	7.367	5.64	10.43	1.88
1.250	2.35	4.317	5.64	7.383	5.64	10.45	1.88
1.267	2.35	4.333	5.64	7.400	5.64	10.47	1.88
1.283	2.35	4.350	5.64	7.417	5.64	10.48	1.88
1.300	2.35	4.367	5.64	7.433	5.64	10.50	1.88
1.317	2.35	4.383	5.64	7.450	5.64	10.52	1.88
1.333	2.35	4.400	5.64	7.467	5.64	10.53	1.88
1.350	2.35	4.417	5.64	7.483	5.64	10.55	1.88
1.367	2.35	4.433	5.64	7.500	5.64	10.57	1.88
1.383	2.35	4.450	5.64	7.517	5.64	10.58	1.88
1.400	2.35	4.467	5.64	7.533	5.64	10.60	1.88
1.417	2.35	4.483	5.64	7.550	5.64	10.62	1.88
1.433	2.35	4.500	5.64	7.567	5.64	10.63	1.88
1.450	2.35	4.517	5.64	7.583	5.64	10.65	1.88
1.467	2.35	4.533	5.64	7.600	5.64	10.67	1.88
1.483	2.35	4.550	5.64	7.617	5.64	10.68	1.88
1.500	2.35	4.567	5.64	7.633	5.64	10.70	1.88
1.517	2.35	4.583	5.64	7.650	5.64	10.72	1.88
1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88
1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88
2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88
2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88
3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Max.Eff.Inten.(mm/hr)=		124.11	95.93	
over (min)		5.00	8.00	
Storage Coeff. (min)=		1.71 (ii)	7.59 (ii)	
Unit Hyd. Tpeak (min)=		5.00	8.00	
Unit Hyd. peak (cms)=		0.40	0.15	
				TOTALS
PEAK FLOW	(cms)=	0.03	0.01	0.037 (iii)
TIME TO PEAK	(hrs)=	6.25	6.28	6.25
RUNOFF VOLUME	(mm)=	92.02	45.51	75.98
TOTAL RAINFALL	(mm)=	94.02	94.02	94.02
RUNOFF COEFFICIENT	=	0.98	0.48	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
V    V   I    SS     U   U   A A   L
 V  V    I     SS    U   U  AAAAA  L
 V  V    I      SS   U   U  A   A  L
  VV     I    SSSSS  UUUUU  A   A  LLLLL
```

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       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\a9e12b92-fc
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\a9e12b92-fc

DATE: 04-17-2023 TIME: 01:21:51

USER:

COMMENTS: _____

****
** SIMULATION : R) 50yr 12hr 15min SCS Type I **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\97f41826
Ptotal=105.51 mm	Comments: 50yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	4.22	6.75	18.99	10.00	3.69
0.50	2.64	3.75	4.22	7.00	8.44	10.25	3.69
0.75	2.64	4.00	4.22	7.25	8.44	10.50	2.11
1.00	2.64	4.25	4.22	7.50	6.33	10.75	2.11
1.25	2.64	4.50	6.33	7.75	6.33	11.00	2.11
1.50	2.64	4.75	6.33	8.00	6.33	11.25	2.11
1.75	2.64	5.00	8.44	8.25	6.33	11.50	2.11
2.00	2.64	5.25	8.44	8.50	3.69	11.75	2.11
2.25	2.64	5.50	12.66	8.75	3.69	12.00	2.11
2.50	3.17	5.75	12.66	9.00	3.69	12.25	2.11
2.75	3.17	6.00	50.64	9.25	3.69		
3.00	3.17	6.25	139.27	9.50	3.69		
3.25	3.17	6.50	18.99	9.75	3.69		

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69
0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69
0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11
1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11

1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11
1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11
2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11
2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.094 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 57.848
TOTAL RAINFALL (mm)= 105.509
RUNOFF COEFFICIENT = 0.548

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	STANDHYD (0102)	ID= 1 DT= 1.0 min

Area (ha)= 0.13
Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69
0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69

0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11
1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11
1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11
1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11
2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11
2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

Max.Eff.Inten.(mm/hr)=	139.27	114.11	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.64 (ii)	7.25 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.41	0.15	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.042 (iii)
TIME TO PEAK (hrs)=	6.25	6.28	6.25
RUNOFF VOLUME (mm)=	103.51	54.35	86.56
TOTAL RAINFALL (mm)=	105.51	105.51	105.51
RUNOFF COEFFICIENT =	0.98	0.52	0.82

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
       V  V    I      SS   U   U A   A  L
        VV     I    SSSSS  UUUUU A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\7b2708be-13
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\7b2708be-13

DATE: 04-17-2023 TIME: 01:21:51

USER:

COMMENTS: _____

****
** SIMULATION : S) 100yr 12hr 15min SCS Type **
****

READ STORM	Filename: C:\Users\cgagnon\AppD ata\Local\Temp\ 140f72bb-a7e2-4ae7-8c06-1342704a05d9\d9b7be09
Ptotal=115.43 mm	Comments: 100yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	4.62	6.75	20.78	10.00	4.04
0.50	2.89	3.75	4.62	7.00	9.23	10.25	4.04
0.75	2.89	4.00	4.62	7.25	9.23	10.50	2.31
1.00	2.89	4.25	4.62	7.50	6.93	10.75	2.31
1.25	2.89	4.50	6.93	7.75	6.93	11.00	2.31
1.50	2.89	4.75	6.93	8.00	6.93	11.25	2.31
1.75	2.89	5.00	9.23	8.25	6.93	11.50	2.31
2.00	2.89	5.25	9.23	8.50	4.04	11.75	2.31
2.25	2.89	5.50	13.85	8.75	4.04	12.00	2.31
2.50	3.46	5.75	13.85	9.00	4.04	12.25	2.31
2.75	3.46	6.00	55.41	9.25	4.04		
3.00	3.46	6.25	152.37	9.50	4.04		
3.25	3.46	6.50	20.78	9.75	4.04		

CALIB	
NASHYD (0101)	Area (ha)= 0.36 Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)= 4.27 # of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.46	6.150	152.37	9.22	4.04
0.033	0.00	3.100	3.46	6.167	152.37	9.23	4.04
0.050	0.00	3.117	3.46	6.183	152.37	9.25	4.04
0.067	0.00	3.133	3.46	6.200	152.37	9.27	4.04
0.083	0.00	3.150	3.46	6.217	152.37	9.28	4.04
0.100	0.00	3.167	3.46	6.233	152.37	9.30	4.04
0.117	0.00	3.183	3.46	6.250	152.16	9.32	4.04
0.133	0.00	3.200	3.46	6.267	20.78	9.33	4.04
0.150	0.00	3.217	3.46	6.283	20.78	9.35	4.04
0.167	0.00	3.233	3.46	6.300	20.78	9.37	4.04
0.183	0.00	3.250	3.46	6.317	20.78	9.38	4.04
0.200	0.00	3.267	4.62	6.333	20.78	9.40	4.04
0.217	0.00	3.283	4.62	6.350	20.78	9.42	4.04
0.233	0.00	3.300	4.62	6.367	20.78	9.43	4.04
0.250	0.00	3.317	4.62	6.383	20.78	9.45	4.04
0.267	2.89	3.333	4.62	6.400	20.78	9.47	4.04
0.283	2.89	3.350	4.62	6.417	20.78	9.48	4.04
0.300	2.89	3.367	4.62	6.433	20.78	9.50	4.04
0.317	2.89	3.383	4.62	6.450	20.78	9.52	4.04
0.333	2.89	3.400	4.62	6.467	20.78	9.53	4.04
0.350	2.89	3.417	4.62	6.483	20.78	9.55	4.04
0.367	2.89	3.433	4.62	6.500	20.78	9.57	4.04
0.383	2.89	3.450	4.62	6.517	20.78	9.58	4.04
0.400	2.89	3.467	4.62	6.533	20.78	9.60	4.04
0.417	2.89	3.483	4.62	6.550	20.78	9.62	4.04
0.433	2.89	3.500	4.62	6.567	20.78	9.63	4.04
0.450	2.89	3.517	4.62	6.583	20.78	9.65	4.04
0.467	2.89	3.533	4.62	6.600	20.78	9.67	4.04
0.483	2.89	3.550	4.62	6.617	20.78	9.68	4.04
0.500	2.89	3.567	4.62	6.633	20.78	9.70	4.04
0.517	2.89	3.583	4.62	6.650	20.78	9.72	4.04
0.533	2.89	3.600	4.62	6.667	20.78	9.73	4.04
0.550	2.89	3.617	4.62	6.683	20.78	9.75	4.04
0.567	2.89	3.633	4.62	6.700	20.78	9.77	4.04
0.583	2.89	3.650	4.62	6.717	20.78	9.78	4.04
0.600	2.89	3.667	4.62	6.733	20.78	9.80	4.04
0.617	2.89	3.683	4.62	6.750	20.75	9.82	4.04
0.633	2.89	3.700	4.62	6.767	9.23	9.83	4.04
0.650	2.89	3.717	4.62	6.783	9.23	9.85	4.04
0.667	2.89	3.733	4.62	6.800	9.23	9.87	4.04
0.683	2.89	3.750	4.62	6.817	9.23	9.88	4.04
0.700	2.89	3.767	4.62	6.833	9.23	9.90	4.04
0.717	2.89	3.783	4.62	6.850	9.23	9.92	4.04
0.733	2.89	3.800	4.62	6.867	9.23	9.93	4.04
0.750	2.89	3.817	4.62	6.883	9.23	9.95	4.04
0.767	2.89	3.833	4.62	6.900	9.23	9.97	4.04
0.783	2.89	3.850	4.62	6.917	9.23	9.98	4.04
0.800	2.89	3.867	4.62	6.933	9.23	10.00	4.04
0.817	2.89	3.883	4.62	6.950	9.23	10.02	4.04
0.833	2.89	3.900	4.62	6.967	9.23	10.03	4.04
0.850	2.89	3.917	4.62	6.983	9.23	10.05	4.04
0.867	2.89	3.933	4.62	7.000	9.23	10.07	4.04
0.883	2.89	3.950	4.62	7.017	9.23	10.08	4.04
0.900	2.89	3.967	4.62	7.033	9.23	10.10	4.04
0.917	2.89	3.983	4.62	7.050	9.23	10.12	4.04
0.933	2.89	4.000	4.62	7.067	9.23	10.13	4.04
0.950	2.89	4.017	4.62	7.083	9.23	10.15	4.04
0.967	2.89	4.033	4.62	7.100	9.23	10.17	4.04
0.983	2.89	4.050	4.62	7.117	9.23	10.18	4.04
1.000	2.89	4.067	4.62	7.133	9.23	10.20	4.04
1.017	2.89	4.083	4.62	7.150	9.23	10.22	4.04
1.033	2.89	4.100	4.62	7.167	9.23	10.23	4.04
1.050	2.89	4.117	4.62	7.183	9.23	10.25	4.04
1.067	2.89	4.133	4.62	7.200	9.23	10.27	2.31
1.083	2.89	4.150	4.62	7.217	9.23	10.28	2.31
1.100	2.89	4.167	4.62	7.233	9.23	10.30	2.31
1.117	2.89	4.183	4.62	7.250	9.23	10.32	2.31
1.133	2.89	4.200	4.62	7.267	6.93	10.33	2.31
1.150	2.89	4.217	4.62	7.283	6.93	10.35	2.31
1.167	2.89	4.233	4.62	7.300	6.93	10.37	2.31
1.183	2.89	4.250	4.62	7.317	6.93	10.38	2.31
1.200	2.89	4.267	6.93	7.333	6.93	10.40	2.31
1.217	2.89	4.283	6.93	7.350	6.93	10.42	2.31
1.233	2.89	4.300	6.93	7.367	6.93	10.43	2.31
1.250	2.89	4.317	6.93	7.383	6.93	10.45	2.31
1.267	2.89	4.333	6.93	7.400	6.93	10.47	2.31
1.283	2.89	4.350	6.93	7.417	6.93	10.48	2.31
1.300	2.89	4.367	6.93	7.433	6.93	10.50	2.31
1.317	2.89	4.383	6.93	7.450	6.93	10.52	2.31
1.333	2.89	4.400	6.93	7.467	6.93	10.53	2.31
1.350	2.89	4.417	6.93	7.483	6.93	10.55	2.31
1.367	2.89	4.433	6.93	7.500	6.93	10.57	2.31
1.383	2.89	4.450	6.93	7.517	6.93	10.58	2.31
1.400	2.89	4.467	6.93	7.533	6.93	10.60	2.31
1.417	2.89	4.483	6.93	7.550	6.93	10.62	2.31
1.433	2.89	4.500	6.93	7.567	6.93	10.63	2.31
1.450	2.89	4.517	6.93	7.583	6.93	10.65	2.31
1.467	2.89	4.533	6.93	7.600	6.93	10.67	2.31
1.483	2.89	4.550	6.93	7.617	6.93	10.68	2.31
1.500	2.89	4.567	6.93	7.633	6.93	10.70	2.31
1.517	2.89	4.583	6.93	7.650	6.93	10.72	2.31
1.533	2.89	4.600	6.93	7.667	6.93	10.73	2.31
1.550	2.89	4.617	6.93	7.683	6.93	10.75	2.31
1.567	2.89	4.633	6.93	7.700	6.93	10.77	2.31
1.583	2.89	4.650	6.93	7.717	6.93	10.78	2.31
1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31

1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31
2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.107 (i)
TIME TO PEAK (hrs)= 6.250
RUNOFF VOLUME (mm)= 66.040
TOTAL RAINFALL (mm)= 115.429
RUNOFF COEFFICIENT = 0.572

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)=	0.13	
ID= 1 DT= 1.0 min	Total Imp(%)=	73.33	Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.46	6.150	152.37	9.22	4.04
0.033	0.00	3.100	3.46	6.167	152.37	9.23	4.04
0.050	0.00	3.117	3.46	6.183	152.37	9.25	4.04
0.067	0.00	3.133	3.46	6.200	152.37	9.27	4.04
0.083	0.00	3.150	3.46	6.217	152.37	9.28	4.04
0.100	0.00	3.167	3.46	6.233	152.37	9.30	4.04
0.117	0.00	3.183	3.46	6.250	152.16	9.32	4.04
0.133	0.00	3.200	3.46	6.267	20.78	9.33	4.04
0.150	0.00	3.217	3.46	6.283	20.78	9.35	4.04
0.167	0.00	3.233	3.46	6.300	20.78	9.37	4.04
0.183	0.00	3.250	3.46	6.317	20.78	9.38	4.04
0.200	0.00	3.267	4.62	6.333	20.78	9.40	4.04
0.217	0.00	3.283	4.62	6.350	20.78	9.42	4.04
0.233	0.00	3.300	4.62	6.367	20.78	9.43	4.04
0.250	0.00	3.317	4.62	6.383	20.78	9.45	4.04
0.267	2.89	3.333	4.62	6.400	20.78	9.47	4.04
0.283	2.89	3.350	4.62	6.417	20.78	9.48	4.04
0.300	2.89	3.367	4.62	6.433	20.78	9.50	4.04
0.317	2.89	3.383	4.62	6.450	20.78	9.52	4.04
0.333	2.89	3.400	4.62	6.467	20.78	9.53	4.04
0.350	2.89	3.417	4.62	6.483	20.78	9.55	4.04
0.367	2.89	3.433	4.62	6.500	20.78	9.57	4.04
0.383	2.89	3.450	4.62	6.517	20.78	9.58	4.04
0.400	2.89	3.467	4.62	6.533	20.78	9.60	4.04
0.417	2.89	3.483	4.62	6.550	20.78	9.62	4.04
0.433	2.89	3.500	4.62	6.567	20.78	9.63	4.04
0.450	2.89	3.517	4.62	6.583	20.78	9.65	4.04
0.467	2.89	3.533	4.62	6.600	20.78	9.67	4.04
0.483	2.89	3.550	4.62	6.617	20.78	9.68	4.04
0.500	2.89	3.567	4.62	6.633	20.78	9.70	4.04
0.517	2.89	3.583	4.62	6.650	20.78	9.72	4.04
0.533	2.89	3.600	4.62	6.667	20.78	9.73	4.04
0.550	2.89	3.617	4.62	6.683	20.78	9.75	4.04
0.567	2.89	3.633	4.62	6.700	20.78	9.77	4.04
0.583	2.89	3.650	4.62	6.717	20.78	9.78	4.04
0.600	2.89	3.667	4.62	6.733	20.78	9.80	4.04
0.617	2.89	3.683	4.62	6.750	20.75	9.82	4.04
0.633	2.89	3.700	4.62	6.767	9.23	9.83	4.04
0.650	2.89	3.717	4.62	6.783	9.23	9.85	4.04
0.667	2.89	3.733	4.62	6.800	9.23	9.87	4.04
0.683	2.89	3.750	4.62	6.817	9.23	9.88	4.04
0.700	2.89	3.767	4.62	6.833	9.23	9.90	4.04
0.717	2.89	3.783	4.62	6.850	9.23	9.92	4.04
0.733	2.89	3.800	4.62	6.867	9.23	9.93	4.04
0.750	2.89	3.817	4.62	6.883	9.23	9.95	4.04
0.767	2.89	3.833	4.62	6.900	9.23	9.97	4.04
0.783	2.89	3.850	4.62	6.917	9.23	9.98	4.04
0.800	2.89	3.867	4.62	6.933	9.23	10.00	4.04
0.817	2.89	3.883	4.62	6.950	9.23	10.02	4.04
0.833	2.89	3.900	4.62	6.967	9.23	10.03	4.04
0.850	2.89	3.917	4.62	6.983	9.23	10.05	4.04
0.867	2.89	3.933	4.62	7.000	9.23	10.07	4.04
0.883	2.89	3.950	4.62	7.017	9.23	10.08	4.04
0.900	2.89	3.967	4.62	7.033	9.23	10.10	4.04
0.917	2.89	3.983	4.62	7.050	9.23	10.12	4.04
0.933	2.89	4.000	4.62	7.067	9.23	10.13	4.04
0.950	2.89	4.017	4.62	7.083	9.23	10.15	4.04
0.967	2.89	4.033	4.62	7.100	9.23	10.17	4.04
0.983	2.89	4.050	4.62	7.117	9.23	10.18	4.04
1.000	2.89	4.067	4.62	7.133	9.23	10.20	4.04
1.017	2.89	4.083	4.62	7.150	9.23	10.22	4.04
1.033	2.89	4.100	4.62	7.167	9.23	10.23	4.04
1.050	2.89	4.117	4.62	7.183	9.23	10.25	4.04

1.067	2.89	4.133	4.62	7.200	9.23	10.27	2.31
1.083	2.89	4.150	4.62	7.217	9.23	10.28	2.31
1.100	2.89	4.167	4.62	7.233	9.23	10.30	2.31
1.117	2.89	4.183	4.62	7.250	9.23	10.32	2.31
1.133	2.89	4.200	4.62	7.267	6.93	10.33	2.31
1.150	2.89	4.217	4.62	7.283	6.93	10.35	2.31
1.167	2.89	4.233	4.62	7.300	6.93	10.37	2.31
1.183	2.89	4.250	4.62	7.317	6.93	10.38	2.31
1.200	2.89	4.267	6.93	7.333	6.93	10.40	2.31
1.217	2.89	4.283	6.93	7.350	6.93	10.42	2.31
1.233	2.89	4.300	6.93	7.367	6.93	10.43	2.31
1.250	2.89	4.317	6.93	7.383	6.93	10.45	2.31
1.267	2.89	4.333	6.93	7.400	6.93	10.47	2.31
1.283	2.89	4.350	6.93	7.417	6.93	10.48	2.31
1.300	2.89	4.367	6.93	7.433	6.93	10.50	2.31
1.317	2.89	4.383	6.93	7.450	6.93	10.52	2.31
1.333	2.89	4.400	6.93	7.467	6.93	10.53	2.31
1.350	2.89	4.417	6.93	7.483	6.93	10.55	2.31
1.367	2.89	4.433	6.93	7.500	6.93	10.57	2.31
1.383	2.89	4.450	6.93	7.517	6.93	10.58	2.31
1.400	2.89	4.467	6.93	7.533	6.93	10.60	2.31
1.417	2.89	4.483	6.93	7.550	6.93	10.62	2.31
1.433	2.89	4.500	6.93	7.567	6.93	10.63	2.31
1.450	2.89	4.517	6.93	7.583	6.93	10.65	2.31
1.467	2.89	4.533	6.93	7.600	6.93	10.67	2.31
1.483	2.89	4.550	6.93	7.617	6.93	10.68	2.31
1.500	2.89	4.567	6.93	7.633	6.93	10.70	2.31
1.517	2.89	4.583	6.93	7.650	6.93	10.72	2.31
1.533	2.89	4.600	6.93	7.667	6.93	10.73	2.31
1.550	2.89	4.617	6.93	7.683	6.93	10.75	2.31
1.567	2.89	4.633	6.93	7.700	6.93	10.77	2.31
1.583	2.89	4.650	6.93	7.717	6.93	10.78	2.31
1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31
1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31
2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Max.Eff.Inten.(mm/hr)=	152.37	130.19	
over (min)	5.00	7.00	
Storage Coeff. (min)=	1.58 (ii)	6.99 (ii)	
Unit Hyd. Tpeak (min)=	5.00	7.00	
Unit Hyd. peak (cms)=	0.41	0.16	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.047 (iii)
TIME TO PEAK (hrs)=	6.25	6.28	6.25
RUNOFF VOLUME (mm)=	113.42	62.23	95.78
TOTAL RAINFALL (mm)=	115.43	115.43	115.43
RUNOFF COEFFICIENT =	0.98	0.54	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0ca8b26e-84
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0ca8b26e-84

DATE: 04-17-2023 TIME: 01:21:50

USER:

COMMENTS: _____

****
** SIMULATION : T) 2yr 24hr 15min SCS Type II **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\207475f0
Ptotal= 55.43 mm	Comments: 2yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	1.00	12.75	7.98	19.00	1.00
0.50	0.61	6.75	1.00	13.00	4.10	19.25	1.00
0.75	0.61	7.00	1.00	13.25	4.10	19.50	1.00
1.00	0.61	7.25	1.00	13.50	2.99	19.75	1.00
1.25	0.61	7.50	1.22	13.75	2.99	20.00	1.00
1.50	0.61	7.75	1.22	14.00	2.33	20.25	1.00
1.75	0.61	8.00	1.22	14.25	2.33	20.50	0.67
2.00	0.61	8.25	1.22	14.50	1.66	20.75	0.67
2.25	0.61	8.50	1.44	14.75	1.66	21.00	0.67
2.50	0.72	8.75	1.44	15.00	1.66	21.25	0.67
2.75	0.72	9.00	1.55	15.25	1.66	21.50	0.67
3.00	0.72	9.25	1.55	15.50	1.66	21.75	0.67
3.25	0.72	9.50	1.77	15.75	1.66	22.00	0.67
3.50	0.72	9.75	1.77	16.00	1.66	22.25	0.67
3.75	0.72	10.00	2.00	16.25	1.66	22.50	0.67
4.00	0.72	10.25	2.00	16.50	1.00	22.75	0.67
4.25	0.72	10.50	2.55	16.75	1.00	23.00	0.67
4.50	0.89	10.75	2.55	17.00	1.00	23.25	0.67
4.75	0.89	11.00	3.44	17.25	1.00	23.50	0.67
5.00	0.89	11.25	3.44	17.50	1.00	23.75	0.67
5.25	0.89	11.50	5.32	17.75	1.00	24.00	0.67
5.50	0.89	11.75	5.32	18.00	1.00	24.25	0.67
5.75	0.89	12.00	16.41	18.25	1.00		
6.00	0.89	12.25	67.85	18.50	1.00		
6.25	0.89	12.50	7.98	18.75	1.00		

CALIB NASHYD (0101) ID= 1 DT= 1.0 min	Area (ha)= 0.36 Curve Number (CN)= 77.0 Ia (mm)= 4.27 # of Linear Res.(N)= 3.00 U.H. Tp(hrs)= 0.06

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00
0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00
0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00
1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00
1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00

1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67
2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67
2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67
3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67
3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67
3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67
3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67

4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67
4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67
5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67
6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.031 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 16.637
TOTAL RAINFALL (mm)= 55.430
RUNOFF COEFFICIENT = 0.300

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33	Dir. Conn.(%)= 65.58	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00
0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00

0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00
1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00
1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00
1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67
2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67
2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67
3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67

3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67
3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67
3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67
4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67
4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67
5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67
6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

Max.Eff.Inten.(mm/hr)=	67.85	36.25	
over (min)	5.00	10.00	
Storage Coeff. (min)=	2.18 (ii)	9.67 (ii)	
Unit Hyd. Tpeak (min)=	5.00	10.00	
Unit Hyd. peak (cms)=	0.36	0.12	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.018 (iii)
TIME TO PEAK (hrs)=	12.25	12.32	12.25
RUNOFF VOLUME (mm)=	53.43	18.99	41.55
TOTAL RAINFALL (mm)=	55.43	55.43	55.43
RUNOFF COEFFICIENT =	0.96	0.34	0.75

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M M M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\6788cee5-e5
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\6788cee5-e5


DATE: 04-17-2023                          TIME: 01:21:51

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : U) 5yr 24hr 15min SCS Type II **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\6f87c807
| Ptotal= 77.82 mm |    Comments: 5yr 24hr 15min SCS Type II (MTO)
--------------------
                TIME     RAIN |  TIME     RAIN |'  TIME     RAIN |  TIME     RAIN
                 hrs    mm/hr |   hrs    mm/hr |'   hrs    mm/hr |   hrs    mm/hr
               0.25     0.00 |  6.50     1.40 | 12.75    11.21 | 19.00     1.40
               0.50     0.86 |  6.75     1.40 | 13.00     5.76 | 19.25     1.40
               0.75     0.86 |  7.00     1.40 | 13.25     5.76 | 19.50     1.40
               1.00     0.86 |  7.25     1.40 | 13.50     4.20 | 19.75     1.40
               1.25     0.86 |  7.50     1.71 | 13.75     4.20 | 20.00     1.40
               1.50     0.86 |  7.75     1.71 | 14.00     3.27 | 20.25     1.40
               1.75     0.86 |  8.00     1.71 | 14.25     3.27 | 20.50     0.93
               2.00     0.86 |  8.25     1.71 | 14.50     2.33 | 20.75     0.93
               2.25     0.86 |  8.50     2.02 | 14.75     2.33 | 21.00     0.93
               2.50     1.01 |  8.75     2.02 | 15.00     2.33 | 21.25     0.93
               2.75     1.01 |  9.00     2.18 | 15.25     2.33 | 21.50     0.93
               3.00     1.01 |  9.25     2.18 | 15.50     2.33 | 21.75     0.93
               3.25     1.01 |  9.50     2.49 | 15.75     2.33 | 22.00     0.93
               3.50     1.01 |  9.75     2.49 | 16.00     2.33 | 22.25     0.93
               3.75     1.01 | 10.00     2.80 | 16.25     2.33 | 22.50     0.93
               4.00     1.01 | 10.25     2.80 | 16.50     1.40 | 22.75     0.93
               4.25     1.01 | 10.50     3.58 | 16.75     1.40 | 23.00     0.93
               4.50     1.25 | 10.75     3.58 | 17.00     1.40 | 23.25     0.93
               4.75     1.25 | 11.00     4.82 | 17.25     1.40 | 23.50     0.93
               5.00     1.25 | 11.25     4.82 | 17.50     1.40 | 23.75     0.93
               5.25     1.25 | 11.50     7.47 | 17.75     1.40 | 24.00     0.93
               5.50     1.25 | 11.75     7.47 | 18.00     1.40 | 24.25     0.93
               5.75     1.25 | 12.00    23.03 | 18.25     1.40 |
               6.00     1.25 | 12.25    95.25 | 18.50     1.40 |
               6.25     1.25 | 12.50    11.21 | 18.75     1.40 |

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| CALIB            |
| NASHYD   (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40
0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40
0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40
1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40

1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40
1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40
1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93
2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93
2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93
3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93
3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93

4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93
4.583	1.25	10.650	3.58	16.717	1.40	22.78	0.93
4.600	1.25	10.667	3.58	16.733	1.40	22.80	0.93
4.617	1.25	10.683	3.58	16.750	1.40	22.82	0.93
4.633	1.25	10.700	3.58	16.767	1.40	22.83	0.93
4.650	1.25	10.717	3.58	16.783	1.40	22.85	0.93
4.667	1.25	10.733	3.58	16.800	1.40	22.87	0.93
4.683	1.25	10.750	3.58	16.817	1.40	22.88	0.93
4.700	1.25	10.767	4.82	16.833	1.40	22.90	0.93
4.717	1.25	10.783	4.82	16.850	1.40	22.92	0.93
4.733	1.25	10.800	4.82	16.867	1.40	22.93	0.93
4.750	1.25	10.817	4.82	16.883	1.40	22.95	0.93
4.767	1.25	10.833	4.82	16.900	1.40	22.97	0.93
4.783	1.25	10.850	4.82	16.917	1.40	22.98	0.93
4.800	1.25	10.867	4.82	16.933	1.40	23.00	0.93
4.817	1.25	10.883	4.82	16.950	1.40	23.02	0.93
4.833	1.25	10.900	4.82	16.967	1.40	23.03	0.93
4.850	1.25	10.917	4.82	16.983	1.40	23.05	0.93
4.867	1.25	10.933	4.82	17.000	1.40	23.07	0.93
4.883	1.25	10.950	4.82	17.017	1.40	23.08	0.93
4.900	1.25	10.967	4.82	17.033	1.40	23.10	0.93
4.917	1.25	10.983	4.82	17.050	1.40	23.12	0.93
4.933	1.25	11.000	4.82	17.067	1.40	23.13	0.93
4.950	1.25	11.017	4.82	17.083	1.40	23.15	0.93
4.967	1.25	11.033	4.82	17.100	1.40	23.17	0.93
4.983	1.25	11.050	4.82	17.117	1.40	23.18	0.93
5.000	1.25	11.067	4.82	17.133	1.40	23.20	0.93
5.017	1.25	11.083	4.82	17.150	1.40	23.22	0.93
5.033	1.25	11.100	4.82	17.167	1.40	23.23	0.93
5.050	1.25	11.117	4.82	17.183	1.40	23.25	0.93
5.067	1.25	11.133	4.82	17.200	1.40	23.27	0.93
5.083	1.25	11.150	4.82	17.217	1.40	23.28	0.93
5.100	1.25	11.167	4.82	17.233	1.40	23.30	0.93
5.117	1.25	11.183	4.82	17.250	1.40	23.32	0.93
5.133	1.25	11.200	4.82	17.267	1.40	23.33	0.93
5.150	1.25	11.217	4.82	17.283	1.40	23.35	0.93
5.167	1.25	11.233	4.82	17.300	1.40	23.37	0.93
5.183	1.25	11.250	4.82	17.317	1.40	23.38	0.93
5.200	1.25	11.267	7.47	17.333	1.40	23.40	0.93
5.217	1.25	11.283	7.47	17.350	1.40	23.42	0.93
5.233	1.25	11.300	7.47	17.367	1.40	23.43	0.93
5.250	1.25	11.317	7.47	17.383	1.40	23.45	0.93
5.267	1.25	11.333	7.47	17.400	1.40	23.47	0.93
5.283	1.25	11.350	7.47	17.417	1.40	23.48	0.93
5.300	1.25	11.367	7.47	17.433	1.40	23.50	0.93
5.317	1.25	11.383	7.47	17.450	1.40	23.52	0.93
5.333	1.25	11.400	7.47	17.467	1.40	23.53	0.93
5.350	1.25	11.417	7.47	17.483	1.40	23.55	0.93
5.367	1.25	11.433	7.47	17.500	1.40	23.57	0.93
5.383	1.25	11.450	7.47	17.517	1.40	23.58	0.93
5.400	1.25	11.467	7.47	17.533	1.40	23.60	0.93
5.417	1.25	11.483	7.47	17.550	1.40	23.62	0.93
5.433	1.25	11.500	7.47	17.567	1.40	23.63	0.93
5.450	1.25	11.517	7.47	17.583	1.40	23.65	0.93
5.467	1.25	11.533	7.47	17.600	1.40	23.67	0.93
5.483	1.25	11.550	7.47	17.617	1.40	23.68	0.93
5.500	1.25	11.567	7.47	17.633	1.40	23.70	0.93
5.517	1.25	11.583	7.47	17.650	1.40	23.72	0.93
5.533	1.25	11.600	7.47	17.667	1.40	23.73	0.93
5.550	1.25	11.617	7.47	17.683	1.40	23.75	0.93
5.567	1.25	11.633	7.47	17.700	1.40	23.77	0.93
5.583	1.25	11.650	7.47	17.717	1.40	23.78	0.93
5.600	1.25	11.667	7.47	17.733	1.40	23.80	0.93
5.617	1.25	11.683	7.47	17.750	1.40	23.82	0.93
5.633	1.25	11.700	7.47	17.767	1.40	23.83	0.93
5.650	1.25	11.717	7.47	17.783	1.40	23.85	0.93
5.667	1.25	11.733	7.47	17.800	1.40	23.87	0.93
5.683	1.25	11.750	7.47	17.817	1.40	23.88	0.93
5.700	1.25	11.767	23.03	17.833	1.40	23.90	0.93
5.717	1.25	11.783	23.03	17.850	1.40	23.92	0.93
5.733	1.25	11.800	23.03	17.867	1.40	23.93	0.93
5.750	1.25	11.817	23.03	17.883	1.40	23.95	0.93
5.767	1.25	11.833	23.03	17.900	1.40	23.97	0.93
5.783	1.25	11.850	23.03	17.917	1.40	23.98	0.93
5.800	1.25	11.867	23.03	17.933	1.40	24.00	0.93
5.817	1.25	11.883	23.03	17.950	1.40	24.02	0.93
5.833	1.25	11.900	23.03	17.967	1.40	24.03	0.93
5.850	1.25	11.917	23.03	17.983	1.40	24.05	0.93
5.867	1.25	11.933	23.03	18.000	1.40	24.07	0.93
5.883	1.25	11.950	23.03	18.017	1.40	24.08	0.93
5.900	1.25	11.967	23.03	18.033	1.40	24.10	0.93
5.917	1.25	11.983	23.03	18.050	1.40	24.12	0.93
5.933	1.25	12.000	23.03	18.067	1.40	24.13	0.93
5.950	1.25	12.017	95.20	18.083	1.40	24.15	0.93
5.967	1.25	12.033	95.25	18.100	1.40	24.17	0.93
5.983	1.25	12.050	95.25	18.117	1.40	24.18	0.93
6.000	1.25	12.067	95.25	18.133	1.40	24.20	0.93
6.017	1.25	12.083	95.25	18.150	1.40	24.22	0.93
6.033	1.25	12.100	95.25	18.167	1.40	24.23	0.93
6.050	1.25	12.117	95.25	18.183	1.40	24.25	0.93
6.067	1.25	12.133	95.25	18.200	1.40		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.054 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 29.730
TOTAL RAINFALL (mm)= 77.821
RUNOFF COEFFICIENT = 0.382

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0102)
ID= 1 DT= 1.0 min

Area (ha)= 0.13
Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40
0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40

0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40
1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40
1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40

1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40
1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93
2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93
2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93

3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93
3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93
4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93
4.583	1.25	10.650	3.58	16.717	1.40	22.78	0.93
4.600	1.25	10.667	3.58	16.733	1.40	22.80	0.93
4.617	1.25	10.683	3.58	16.750	1.40	22.82	0.93
4.633	1.25	10.700	3.58	16.767	1.40	22.83	0.93
4.650	1.25	10.717	3.58	16.783	1.40	22.85	0.93
4.667	1.25	10.733	3.58	16.800	1.40	22.87	0.93
4.683	1.25	10.750	3.58	16.817	1.40	22.88	0.93
4.700	1.25	10.767	4.82	16.833	1.40	22.90	0.93
4.717	1.25	10.783	4.82	16.850	1.40	22.92	0.93
4.733	1.25	10.800	4.82	16.867	1.40	22.93	0.93
4.750	1.25	10.817	4.82	16.883	1.40	22.95	0.93
4.767	1.25	10.833	4.82	16.900	1.40	22.97	0.93
4.783	1.25	10.850	4.82	16.917	1.40	22.98	0.93
4.800	1.25	10.867	4.82	16.933	1.40	23.00	0.93
4.817	1.25	10.883	4.82	16.950	1.40	23.02	0.93
4.833	1.25	10.900	4.82	16.967	1.40	23.03	0.93
4.850	1.25	10.917	4.82	16.983	1.40	23.05	0.93
4.867	1.25	10.933	4.82	17.000	1.40	23.07	0.93
4.883	1.25	10.950	4.82	17.017	1.40	23.08	0.93
4.900	1.25	10.967	4.82	17.033	1.40	23.10	0.93
4.917	1.25	10.983	4.82	17.050	1.40	23.12	0.93
4.933	1.25	11.000	4.82	17.067	1.40	23.13	0.93
4.950	1.25	11.017	4.82	17.083	1.40	23.15	0.93
4.967	1.25	11.033	4.82	17.100	1.40	23.17	0.93
4.983	1.25	11.050	4.82	17.117	1.40	23.18	0.93
5.000	1.25	11.067	4.82	17.133	1.40	23.20	0.93
5.017	1.25	11.083	4.82	17.150	1.40	23.22	0.93
5.033	1.25	11.100	4.82	17.167	1.40	23.23	0.93
5.050	1.25	11.117	4.82	17.183	1.40	23.25	0.93
5.067	1.25	11.133	4.82	17.200	1.40	23.27	0.93
5.083	1.25	11.150	4.82	17.217	1.40	23.28	0.93
5.100	1.25	11.167	4.82	17.233	1.40	23.30	0.93
5.117	1.25	11.183	4.82	17.250	1.40	23.32	0.93
5.133	1.25	11.200	4.82	17.267	1.40	23.33	0.93
5.150	1.25	11.217	4.82	17.283	1.40	23.35	0.93
5.167	1.25	11.233	4.82	17.300	1.40	23.37	0.93
5.183	1.25	11.250	4.82	17.317	1.40	23.38	0.93
5.200	1.25	11.267	7.47	17.333	1.40	23.40	0.93
5.217	1.25	11.283	7.47	17.350	1.40	23.42	0.93
5.233	1.25	11.300	7.47	17.367	1.40	23.43	0.93
5.250	1.25	11.317	7.47	17.383	1.40	23.45	0.93
5.267	1.25	11.333	7.47	17.400	1.40	23.47	0.93
5.283	1.25	11.350	7.47	17.417	1.40	23.48	0.93
5.300	1.25	11.367	7.47	17.433	1.40	23.50	0.93
5.317	1.25	11.383	7.47	17.450	1.40	23.52	0.93
5.333	1.25	11.400	7.47	17.467	1.40	23.53	0.93
5.350	1.25	11.417	7.47	17.483	1.40	23.55	0.93
5.367	1.25	11.433	7.47	17.500	1.40	23.57	0.93
5.383	1.25	11.450	7.47	17.517	1.40	23.58	0.93
5.400	1.25	11.467	7.47	17.533	1.40	23.60	0.93
5.417	1.25	11.483	7.47	17.550	1.40	23.62	0.93
5.433	1.25	11.500	7.47	17.567	1.40	23.63	0.93
5.450	1.25	11.517	7.47	17.583	1.40	23.65	0.93
5.467	1.25	11.533	7.47	17.600	1.40	23.67	0.93
5.483	1.25	11.550	7.47	17.617	1.40	23.68	0.93
5.500	1.25	11.567	7.47	17.633	1.40	23.70	0.93
5.517	1.25	11.583	7.47	17.650	1.40	23.72	0.93
5.533	1.25	11.600	7.47	17.667	1.40	23.73	0.93
5.550	1.25	11.617	7.47	17.683	1.40	23.75	0.93
5.567	1.25	11.633	7.47	17.700	1.40	23.77	0.93
5.583	1.25	11.650	7.47	17.717	1.40	23.78	0.93
5.600	1.25	11.667	7.47	17.733	1.40	23.80	0.93
5.617	1.25	11.683	7.47	17.750	1.40	23.82	0.93
5.633	1.25	11.700	7.47	17.767	1.40	23.83	0.93
5.650	1.25	11.717	7.47	17.783	1.40	23.85	0.93
5.667	1.25	11.733	7.47	17.800	1.40	23.87	0.93
5.683	1.25	11.750	7.47	17.817	1.40	23.88	0.93
5.700	1.25	11.767	23.03	17.833	1.40	23.90	0.93
5.717	1.25	11.783	23.03	17.850	1.40	23.92	0.93
5.733	1.25	11.800	23.03	17.867	1.40	23.93	0.93
5.750	1.25	11.817	23.03	17.883	1.40	23.95	0.93
5.767	1.25	11.833	23.03	17.900	1.40	23.97	0.93
5.783	1.25	11.850	23.03	17.917	1.40	23.98	0.93
5.800	1.25	11.867	23.03	17.933	1.40	24.00	0.93
5.817	1.25	11.883	23.03	17.950	1.40	24.02	0.93
5.833	1.25	11.900	23.03	17.967	1.40	24.03	0.93
5.850	1.25	11.917	23.03	17.983	1.40	24.05	0.93
5.867	1.25	11.933	23.03	18.000	1.40	24.07	0.93
5.883	1.25	11.950	23.03	18.017	1.40	24.08	0.93
5.900	1.25	11.967	23.03	18.033	1.40	24.10	0.93
5.917	1.25	11.983	23.03	18.050	1.40	24.12	0.93
5.933	1.25	12.000	23.03	18.067	1.40	24.13	0.93
5.950	1.25	12.017	95.20	18.083	1.40	24.15	0.93

5.967	1.25	12.033	95.25	18.100	1.40	24.17	0.93
5.983	1.25	12.050	95.25	18.117	1.40	24.18	0.93
6.000	1.25	12.067	95.25	18.133	1.40	24.20	0.93
6.017	1.25	12.083	95.25	18.150	1.40	24.22	0.93
6.033	1.25	12.100	95.25	18.167	1.40	24.23	0.93
6.050	1.25	12.117	95.25	18.183	1.40	24.25	0.93
6.067	1.25	12.133	95.25	18.200	1.40		

Max.Eff.Inten.(mm/hr)=	95.25	64.23	
over (min)	5.00	9.00	
Storage Coeff. (min)=	1.90 (ii)	8.44 (ii)	
Unit Hyd. Tpeak (min)=	5.00	9.00	
Unit Hyd. peak (cms)=	0.38	0.13	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.027 (iii)
TIME TO PEAK (hrs)=	12.25	12.30	12.25
RUNOFF VOLUME (mm)=	75.82	33.67	61.29
TOTAL RAINFALL (mm)=	77.82	77.82	77.82
RUNOFF COEFFICIENT =	0.97	0.43	0.79

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

```
  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\74ef01c4-eb
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\74ef01c4-eb

DATE: 04-17-2023                          TIME: 01:21:51

USER:


COMMENTS: _____________________________________________________
```

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  ************************************************
  ** SIMULATION : V) 10yr 24hr 15min SCS Type I **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\63ac96bf
| Ptotal= 92.93 mm |    Comments: 10yr 24hr 15min SCS Type II (MTO)
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	1.67	12.75	13.38	19.00	1.67
0.50	1.02	6.75	1.67	13.00	6.88	19.25	1.67
0.75	1.02	7.00	1.67	13.25	6.88	19.50	1.67
1.00	1.02	7.25	1.67	13.50	5.02	19.75	1.67
1.25	1.02	7.50	2.04	13.75	5.02	20.00	1.67
1.50	1.02	7.75	2.04	14.00	3.90	20.25	1.67
1.75	1.02	8.00	2.04	14.25	3.90	20.50	1.12
2.00	1.02	8.25	2.04	14.50	2.79	20.75	1.12
2.25	1.02	8.50	2.42	14.75	2.79	21.00	1.12
2.50	1.21	8.75	2.42	15.00	2.79	21.25	1.12
2.75	1.21	9.00	2.60	15.25	2.79	21.50	1.12
3.00	1.21	9.25	2.60	15.50	2.79	21.75	1.12
3.25	1.21	9.50	2.97	15.75	2.79	22.00	1.12
3.50	1.21	9.75	2.97	16.00	2.79	22.25	1.12
3.75	1.21	10.00	3.35	16.25	2.79	22.50	1.12
4.00	1.21	10.25	3.35	16.50	1.67	22.75	1.12
4.25	1.21	10.50	4.27	16.75	1.67	23.00	1.12
4.50	1.49	10.75	4.27	17.00	1.67	23.25	1.12
4.75	1.49	11.00	5.76	17.25	1.67	23.50	1.12
5.00	1.49	11.25	5.76	17.50	1.67	23.75	1.12
5.25	1.49	11.50	8.92	17.75	1.67	24.00	1.12
5.50	1.49	11.75	8.92	18.00	1.67	24.25	1.12
5.75	1.49	12.00	27.51	18.25	1.67		
6.00	1.49	12.25	113.75	18.50	1.67		
6.25	1.49	12.50	13.38	18.75	1.67		

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| CALIB            |
| NASHYD  (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67
0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67
0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67

0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67
1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12
2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12
2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12
3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12
3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12

3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12
4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12
5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12
5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.071 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 39.546
TOTAL RAINFALL (mm)= 92.931
RUNOFF COEFFICIENT = 0.426

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0102)
ID= 1 DT= 1.0 min

Area (ha)= 0.13
Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67
0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67
0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67
0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67
1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12
2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12

2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12
3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12
3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12
3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12
4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12
5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12

5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

Max.Eff.Inten.(mm/hr)=	113.75	85.07	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.77 (ii)	7.86 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.39	0.14	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.033 (iii)
TIME TO PEAK (hrs)=	12.25	12.30	12.25
RUNOFF VOLUME (mm)=	90.93	44.68	74.99
TOTAL RAINFALL (mm)=	92.93	92.93	92.93
RUNOFF COEFFICIENT =	0.98	0.48	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\3c0a688e-1f
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\3c0a688e-1f

DATE: 04-17-2023 TIME: 01:21:50

USER:

COMMENTS: _____

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  ************************************************
  ** SIMULATION : W) 25yr 24hr 15min SCS Type I **
  ************************************************
```

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\7ca5777e
Ptotal=111.56 mm	Comments: 25yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.01	12.75	16.06	19.00	2.01
0.50	1.23	6.75	2.01	13.00	8.26	19.25	2.01
0.75	1.23	7.00	2.01	13.25	8.26	19.50	2.01
1.00	1.23	7.25	2.01	13.50	6.02	19.75	2.01
1.25	1.23	7.50	2.45	13.75	6.02	20.00	2.01
1.50	1.23	7.75	2.45	14.00	4.69	20.25	2.01
1.75	1.23	8.00	2.45	14.25	4.69	20.50	1.34
2.00	1.23	8.25	2.45	14.50	3.35	20.75	1.34
2.25	1.23	8.50	2.90	14.75	3.35	21.00	1.34
2.50	1.45	8.75	2.90	15.00	3.35	21.25	1.34
2.75	1.45	9.00	3.12	15.25	3.35	21.50	1.34
3.00	1.45	9.25	3.12	15.50	3.35	21.75	1.34
3.25	1.45	9.50	3.57	15.75	3.35	22.00	1.34
3.50	1.45	9.75	3.57	16.00	3.35	22.25	1.34
3.75	1.45	10.00	4.02	16.25	3.35	22.50	1.34
4.00	1.45	10.25	4.02	16.50	2.01	22.75	1.34
4.25	1.45	10.50	5.13	16.75	2.01	23.00	1.34
4.50	1.78	10.75	5.13	17.00	2.01	23.25	1.34
4.75	1.78	11.00	6.92	17.25	2.01	23.50	1.34
5.00	1.78	11.25	6.92	17.50	2.01	23.75	1.34
5.25	1.78	11.50	10.71	17.75	2.01	24.00	1.34
5.50	1.78	11.75	10.71	18.00	2.01	24.25	1.34
5.75	1.78	12.00	33.02	18.25	2.01		
6.00	1.78	12.25	136.55	18.50	2.01		
6.25	1.78	12.50	16.06	18.75	2.01		

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01
0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01

0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01
1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01
1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34
2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34
2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34
3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34

3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34
4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34
4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34
5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34
5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34
5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34

6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.093 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 52.418
TOTAL RAINFALL (mm)= 111.561
RUNOFF COEFFICIENT = 0.470

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0102) | Area (ha)= 0.13
ID= 1 DT= 1.0 min | Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.10	0.04
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	0.78	0.78
Length (m)=	29.62	51.00
Mannings n =	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01
0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01
0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01
1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01
1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34

2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34
2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34
3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34
3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34
4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34
4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34

5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34
5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34
5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34
6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Max.Eff.Inten.(mm/hr)=	136.55	112.20	
over (min)	5.00	8.00	
Storage Coeff. (min)=	1.65 (ii)	7.31 (ii)	
Unit Hyd. Tpeak (min)=	5.00	8.00	
Unit Hyd. peak (cms)=	0.40	0.15	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.041 (iii)
TIME TO PEAK (hrs)=	12.25	12.28	12.25
RUNOFF VOLUME (mm)=	109.56	59.13	92.17
TOTAL RAINFALL (mm)=	111.56	111.56	111.56
RUNOFF COEFFICIENT =	0.98	0.53	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\9d5be672-58
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\9d5be672-58

DATE: 04-17-2023 TIME: 01:21:51

USER:

COMMENTS: _____

** SIMULATION : X) 50yr 24hr 15min SCS Type I **

READ STORM	Filename: C:\Users\cgagnon\AppD ata\Local\Temp\ 140f72bb-a7e2-4ae7-8c06-1342704a05d9\7f384309
Ptotal=125.69 mm	Comments: 50yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.26	12.75	18.10	19.00	2.26
0.50	1.38	6.75	2.26	13.00	9.30	19.25	2.26
0.75	1.38	7.00	2.26	13.25	9.30	19.50	2.26
1.00	1.38	7.25	2.26	13.50	6.79	19.75	2.26
1.25	1.38	7.50	2.77	13.75	6.79	20.00	2.26
1.50	1.38	7.75	2.77	14.00	5.28	20.25	2.26
1.75	1.38	8.00	2.77	14.25	5.28	20.50	1.51
2.00	1.38	8.25	2.77	14.50	3.77	20.75	1.51
2.25	1.38	8.50	3.27	14.75	3.77	21.00	1.51
2.50	1.63	8.75	3.27	15.00	3.77	21.25	1.51
2.75	1.63	9.00	3.52	15.25	3.77	21.50	1.51
3.00	1.63	9.25	3.52	15.50	3.77	21.75	1.51
3.25	1.63	9.50	4.02	15.75	3.77	22.00	1.51
3.50	1.63	9.75	4.02	16.00	3.77	22.25	1.51
3.75	1.63	10.00	4.52	16.25	3.77	22.50	1.51
4.00	1.63	10.25	4.52	16.50	2.26	22.75	1.51
4.25	1.63	10.50	5.78	16.75	2.26	23.00	1.51
4.50	2.01	10.75	5.78	17.00	2.26	23.25	1.51
4.75	2.01	11.00	7.79	17.25	2.26	23.50	1.51
5.00	2.01	11.25	7.79	17.50	2.26	23.75	1.51
5.25	2.01	11.50	12.07	17.75	2.26	24.00	1.51
5.50	2.01	11.75	12.07	18.00	2.26	24.25	1.51
5.75	2.01	12.00	37.20	18.25	2.26		
6.00	2.01	12.25	153.84	18.50	2.26		
6.25	2.01	12.50	18.10	18.75	2.26		

CALIB			
NASHYD (0101)	Area (ha)=	0.36	Curve Number (CN)= 77.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.27	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.06	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.017	0.00	6.083	2.01	12.150	153.84	18.22	2.26
0.033	0.00	6.100	2.01	12.167	153.84	18.23	2.26
0.050	0.00	6.117	2.01	12.183	153.84	18.25	2.26
0.067	0.00	6.133	2.01	12.200	153.84	18.27	2.26
0.083	0.00	6.150	2.01	12.217	153.84	18.28	2.26
0.100	0.00	6.167	2.01	12.233	153.84	18.30	2.26
0.117	0.00	6.183	2.01	12.250	153.84	18.32	2.26
0.133	0.00	6.200	2.01	12.267	18.22	18.33	2.26
0.150	0.00	6.217	2.01	12.283	18.10	18.35	2.26
0.167	0.00	6.233	2.01	12.300	18.10	18.37	2.26
0.183	0.00	6.250	2.01	12.317	18.10	18.38	2.26
0.200	0.00	6.267	2.26	12.333	18.10	18.40	2.26
0.217	0.00	6.283	2.26	12.350	18.10	18.42	2.26
0.233	0.00	6.300	2.26	12.367	18.10	18.43	2.26
0.250	0.00	6.317	2.26	12.383	18.10	18.45	2.26
0.267	1.38	6.333	2.26	12.400	18.10	18.47	2.26
0.283	1.38	6.350	2.26	12.417	18.10	18.48	2.26
0.300	1.38	6.367	2.26	12.433	18.10	18.50	2.26
0.317	1.38	6.383	2.26	12.450	18.10	18.52	2.26
0.333	1.38	6.400	2.26	12.467	18.10	18.53	2.26
0.350	1.38	6.417	2.26	12.483	18.10	18.55	2.26
0.367	1.38	6.433	2.26	12.500	18.10	18.57	2.26
0.383	1.38	6.450	2.26	12.517	18.10	18.58	2.26
0.400	1.38	6.467	2.26	12.533	18.10	18.60	2.26
0.417	1.38	6.483	2.26	12.550	18.10	18.62	2.26
0.433	1.38	6.500	2.26	12.567	18.10	18.63	2.26
0.450	1.38	6.517	2.26	12.583	18.10	18.65	2.26
0.467	1.38	6.533	2.26	12.600	18.10	18.67	2.26
0.483	1.38	6.550	2.26	12.617	18.10	18.68	2.26
0.500	1.38	6.567	2.26	12.633	18.10	18.70	2.26
0.517	1.38	6.583	2.26	12.650	18.10	18.72	2.26
0.533	1.38	6.600	2.26	12.667	18.10	18.73	2.26
0.550	1.38	6.617	2.26	12.683	18.10	18.75	2.26
0.567	1.38	6.633	2.26	12.700	18.10	18.77	2.26
0.583	1.38	6.650	2.26	12.717	18.10	18.78	2.26
0.600	1.38	6.667	2.26	12.733	18.10	18.80	2.26
0.617	1.38	6.683	2.26	12.750	18.10	18.82	2.26
0.633	1.38	6.700	2.26	12.767	9.31	18.83	2.26
0.650	1.38	6.717	2.26	12.783	9.30	18.85	2.26
0.667	1.38	6.733	2.26	12.800	9.30	18.87	2.26
0.683	1.38	6.750	2.26	12.817	9.30	18.88	2.26
0.700	1.38	6.767	2.26	12.833	9.30	18.90	2.26
0.717	1.38	6.783	2.26	12.850	9.30	18.92	2.26
0.733	1.38	6.800	2.26	12.867	9.30	18.93	2.26
0.750	1.38	6.817	2.26	12.883	9.30	18.95	2.26
0.767	1.38	6.833	2.26	12.900	9.30	18.97	2.26
0.783	1.38	6.850	2.26	12.917	9.30	18.98	2.26
0.800	1.38	6.867	2.26	12.933	9.30	19.00	2.26
0.817	1.38	6.883	2.26	12.950	9.30	19.02	2.26
0.833	1.38	6.900	2.26	12.967	9.30	19.03	2.26
0.850	1.38	6.917	2.26	12.983	9.30	19.05	2.26
0.867	1.38	6.933	2.26	13.000	9.30	19.07	2.26
0.883	1.38	6.950	2.26	13.017	9.30	19.08	2.26
0.900	1.38	6.967	2.26	13.033	9.30	19.10	2.26
0.917	1.38	6.983	2.26	13.050	9.30	19.12	2.26
0.933	1.38	7.000	2.26	13.067	9.30	19.13	2.26
0.950	1.38	7.017	2.26	13.083	9.30	19.15	2.26
0.967	1.38	7.033	2.26	13.100	9.30	19.17	2.26
0.983	1.38	7.050	2.26	13.117	9.30	19.18	2.26
1.000	1.38	7.067	2.26	13.133	9.30	19.20	2.26
1.017	1.38	7.083	2.26	13.150	9.30	19.22	2.26
1.033	1.38	7.100	2.26	13.167	9.30	19.23	2.26
1.050	1.38	7.117	2.26	13.183	9.30	19.25	2.26
1.067	1.38	7.133	2.26	13.200	9.30	19.27	2.26
1.083	1.38	7.150	2.26	13.217	9.30	19.28	2.26
1.100	1.38	7.167	2.26	13.233	9.30	19.30	2.26
1.117	1.38	7.183	2.26	13.250	9.30	19.32	2.26
1.133	1.38	7.200	2.26	13.267	6.79	19.33	2.26
1.150	1.38	7.217	2.26	13.283	6.79	19.35	2.26
1.167	1.38	7.233	2.26	13.300	6.79	19.37	2.26
1.183	1.38	7.250	2.26	13.317	6.79	19.38	2.26
1.200	1.38	7.267	2.77	13.333	6.79	19.40	2.26
1.217	1.38	7.283	2.77	13.350	6.79	19.42	2.26
1.233	1.38	7.300	2.77	13.367	6.79	19.43	2.26
1.250	1.38	7.317	2.77	13.383	6.79	19.45	2.26
1.267	1.38	7.333	2.77	13.400	6.79	19.47	2.26
1.283	1.38	7.350	2.77	13.417	6.79	19.48	2.26
1.300	1.38	7.367	2.77	13.433	6.79	19.50	2.26
1.317	1.38	7.383	2.77	13.450	6.79	19.52	2.26
1.333	1.38	7.400	2.77	13.467	6.79	19.53	2.26
1.350	1.38	7.417	2.77	13.483	6.79	19.55	2.26
1.367	1.38	7.433	2.77	13.500	6.79	19.57	2.26
1.383	1.38	7.450	2.77	13.517	6.79	19.58	2.26
1.400	1.38	7.467	2.77	13.533	6.79	19.60	2.26
1.417	1.38	7.483	2.77	13.550	6.79	19.62	2.26
1.433	1.38	7.500	2.77	13.567	6.79	19.63	2.26
1.450	1.38	7.517	2.77	13.583	6.79	19.65	2.26
1.467	1.38	7.533	2.77	13.600	6.79	19.67	2.26
1.483	1.38	7.550	2.77	13.617	6.79	19.68	2.26
1.500	1.38	7.567	2.77	13.633	6.79	19.70	2.26
1.517	1.38	7.583	2.77	13.650	6.79	19.72	2.26
1.533	1.38	7.600	2.77	13.667	6.79	19.73	2.26
1.550	1.38	7.617	2.77	13.683	6.79	19.75	2.26
1.567	1.38	7.633	2.77	13.700	6.79	19.77	2.26
1.583	1.38	7.650	2.77	13.717	6.79	19.78	2.26
1.600	1.38	7.667	2.77	13.733	6.79	19.80	2.26
1.617	1.38	7.683	2.77	13.750	6.79	19.82	2.26
1.633	1.38	7.700	2.77	13.767	5.28	19.83	2.26
1.650	1.38	7.717	2.77	13.783	5.28	19.85	2.26
1.667	1.38	7.733	2.77	13.800	5.28	19.87	2.26
1.683	1.38	7.750	2.77	13.817	5.28	19.88	2.26
1.700	1.38	7.767	2.77	13.833	5.28	19.90	2.26
1.717	1.38	7.783	2.77	13.850	5.28	19.92	2.26
1.733	1.38	7.800	2.77	13.867	5.28	19.93	2.26
1.750	1.38	7.817	2.77	13.883	5.28	19.95	2.26
1.767	1.38	7.833	2.77	13.900	5.28	19.97	2.26
1.783	1.38	7.850	2.77	13.917	5.28	19.98	2.26
1.800	1.38	7.867	2.77	13.933	5.28	20.00	2.26
1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26
1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51

2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51
2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51
3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51
4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51
4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51

5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51
5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.110 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 62.616
TOTAL RAINFALL (mm)= 125.691
RUNOFF COEFFICIENT = 0.498

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0102)
ID= 1 DT= 1.0 min

Area (ha)= 0.13
Total Imp(%)= 73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.01	12.150	153.84	18.22	2.26
0.033	0.00	6.100	2.01	12.167	153.84	18.23	2.26
0.050	0.00	6.117	2.01	12.183	153.84	18.25	2.26
0.067	0.00	6.133	2.01	12.200	153.84	18.27	2.26
0.083	0.00	6.150	2.01	12.217	153.84	18.28	2.26
0.100	0.00	6.167	2.01	12.233	153.84	18.30	2.26
0.117	0.00	6.183	2.01	12.250	153.84	18.32	2.26
0.133	0.00	6.200	2.01	12.267	18.22	18.33	2.26
0.150	0.00	6.217	2.01	12.283	18.10	18.35	2.26
0.167	0.00	6.233	2.01	12.300	18.10	18.37	2.26
0.183	0.00	6.250	2.01	12.317	18.10	18.38	2.26
0.200	0.00	6.267	2.26	12.333	18.10	18.40	2.26
0.217	0.00	6.283	2.26	12.350	18.10	18.42	2.26
0.233	0.00	6.300	2.26	12.367	18.10	18.43	2.26
0.250	0.00	6.317	2.26	12.383	18.10	18.45	2.26
0.267	1.38	6.333	2.26	12.400	18.10	18.47	2.26
0.283	1.38	6.350	2.26	12.417	18.10	18.48	2.26
0.300	1.38	6.367	2.26	12.433	18.10	18.50	2.26
0.317	1.38	6.383	2.26	12.450	18.10	18.52	2.26
0.333	1.38	6.400	2.26	12.467	18.10	18.53	2.26
0.350	1.38	6.417	2.26	12.483	18.10	18.55	2.26
0.367	1.38	6.433	2.26	12.500	18.10	18.57	2.26
0.383	1.38	6.450	2.26	12.517	18.10	18.58	2.26
0.400	1.38	6.467	2.26	12.533	18.10	18.60	2.26
0.417	1.38	6.483	2.26	12.550	18.10	18.62	2.26
0.433	1.38	6.500	2.26	12.567	18.10	18.63	2.26
0.450	1.38	6.517	2.26	12.583	18.10	18.65	2.26
0.467	1.38	6.533	2.26	12.600	18.10	18.67	2.26
0.483	1.38	6.550	2.26	12.617	18.10	18.68	2.26
0.500	1.38	6.567	2.26	12.633	18.10	18.70	2.26
0.517	1.38	6.583	2.26	12.650	18.10	18.72	2.26
0.533	1.38	6.600	2.26	12.667	18.10	18.73	2.26
0.550	1.38	6.617	2.26	12.683	18.10	18.75	2.26
0.567	1.38	6.633	2.26	12.700	18.10	18.77	2.26
0.583	1.38	6.650	2.26	12.717	18.10	18.78	2.26
0.600	1.38	6.667	2.26	12.733	18.10	18.80	2.26
0.617	1.38	6.683	2.26	12.750	18.10	18.82	2.26
0.633	1.38	6.700	2.26	12.767	9.31	18.83	2.26
0.650	1.38	6.717	2.26	12.783	9.30	18.85	2.26
0.667	1.38	6.733	2.26	12.800	9.30	18.87	2.26
0.683	1.38	6.750	2.26	12.817	9.30	18.88	2.26
0.700	1.38	6.767	2.26	12.833	9.30	18.90	2.26
0.717	1.38	6.783	2.26	12.850	9.30	18.92	2.26
0.733	1.38	6.800	2.26	12.867	9.30	18.93	2.26
0.750	1.38	6.817	2.26	12.883	9.30	18.95	2.26
0.767	1.38	6.833	2.26	12.900	9.30	18.97	2.26
0.783	1.38	6.850	2.26	12.917	9.30	18.98	2.26
0.800	1.38	6.867	2.26	12.933	9.30	19.00	2.26
0.817	1.38	6.883	2.26	12.950	9.30	19.02	2.26
0.833	1.38	6.900	2.26	12.967	9.30	19.03	2.26
0.850	1.38	6.917	2.26	12.983	9.30	19.05	2.26
0.867	1.38	6.933	2.26	13.000	9.30	19.07	2.26
0.883	1.38	6.950	2.26	13.017	9.30	19.08	2.26
0.900	1.38	6.967	2.26	13.033	9.30	19.10	2.26
0.917	1.38	6.983	2.26	13.050	9.30	19.12	2.26
0.933	1.38	7.000	2.26	13.067	9.30	19.13	2.26
0.950	1.38	7.017	2.26	13.083	9.30	19.15	2.26
0.967	1.38	7.033	2.26	13.100	9.30	19.17	2.26
0.983	1.38	7.050	2.26	13.117	9.30	19.18	2.26
1.000	1.38	7.067	2.26	13.133	9.30	19.20	2.26
1.017	1.38	7.083	2.26	13.150	9.30	19.22	2.26
1.033	1.38	7.100	2.26	13.167	9.30	19.23	2.26
1.050	1.38	7.117	2.26	13.183	9.30	19.25	2.26
1.067	1.38	7.133	2.26	13.200	9.30	19.27	2.26
1.083	1.38	7.150	2.26	13.217	9.30	19.28	2.26
1.100	1.38	7.167	2.26	13.233	9.30	19.30	2.26
1.117	1.38	7.183	2.26	13.250	9.30	19.32	2.26
1.133	1.38	7.200	2.26	13.267	6.79	19.33	2.26
1.150	1.38	7.217	2.26	13.283	6.79	19.35	2.26
1.167	1.38	7.233	2.26	13.300	6.79	19.37	2.26
1.183	1.38	7.250	2.26	13.317	6.79	19.38	2.26
1.200	1.38	7.267	2.77	13.333	6.79	19.40	2.26
1.217	1.38	7.283	2.77	13.350	6.79	19.42	2.26
1.233	1.38	7.300	2.77	13.367	6.79	19.43	2.26
1.250	1.38	7.317	2.77	13.383	6.79	19.45	2.26
1.267	1.38	7.333	2.77	13.400	6.79	19.47	2.26
1.283	1.38	7.350	2.77	13.417	6.79	19.48	2.26
1.300	1.38	7.367	2.77	13.433	6.79	19.50	2.26
1.317	1.38	7.383	2.77	13.450	6.79	19.52	2.26
1.333	1.38	7.400	2.77	13.467	6.79	19.53	2.26
1.350	1.38	7.417	2.77	13.483	6.79	19.55	2.26
1.367	1.38	7.433	2.77	13.500	6.79	19.57	2.26
1.383	1.38	7.450	2.77	13.517	6.79	19.58	2.26
1.400	1.38	7.467	2.77	13.533	6.79	19.60	2.26
1.417	1.38	7.483	2.77	13.550	6.79	19.62	2.26
1.433	1.38	7.500	2.77	13.567	6.79	19.63	2.26
1.450	1.38	7.517	2.77	13.583	6.79	19.65	2.26
1.467	1.38	7.533	2.77	13.600	6.79	19.67	2.26
1.483	1.38	7.550	2.77	13.617	6.79	19.68	2.26
1.500	1.38	7.567	2.77	13.633	6.79	19.70	2.26
1.517	1.38	7.583	2.77	13.650	6.79	19.72	2.26
1.533	1.38	7.600	2.77	13.667	6.79	19.73	2.26
1.550	1.38	7.617	2.77	13.683	6.79	19.75	2.26
1.567	1.38	7.633	2.77	13.700	6.79	19.77	2.26
1.583	1.38	7.650	2.77	13.717	6.79	19.78	2.26
1.600	1.38	7.667	2.77	13.733	6.79	19.80	2.26
1.617	1.38	7.683	2.77	13.750	6.79	19.82	2.26
1.633	1.38	7.700	2.77	13.767	5.28	19.83	2.26
1.650	1.38	7.717	2.77	13.783	5.28	19.85	2.26
1.667	1.38	7.733	2.77	13.800	5.28	19.87	2.26
1.683	1.38	7.750	2.77	13.817	5.28	19.88	2.26
1.700	1.38	7.767	2.77	13.833	5.28	19.90	2.26
1.717	1.38	7.783	2.77	13.850	5.28	19.92	2.26
1.733	1.38	7.800	2.77	13.867	5.28	19.93	2.26
1.750	1.38	7.817	2.77	13.883	5.28	19.95	2.26
1.767	1.38	7.833	2.77	13.900	5.28	19.97	2.26
1.783	1.38	7.850	2.77	13.917	5.28	19.98	2.26
1.800	1.38	7.867	2.77	13.933	5.28	20.00	2.26

1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26
1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51
2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51
2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51
3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51

4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51
4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51
5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51
5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Max.Eff.Inten.(mm/hr)=		153.84	133.54	
	over (min)	5.00	7.00	
Storage Coeff. (min)=		1.57 (ii)	6.97 (ii)	
Unit Hyd. Tpeak (min)=		5.00	7.00	
Unit Hyd. peak (cms)=		0.41	0.16	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.01	0.047 (iii)
TIME TO PEAK	(hrs)=	12.25	12.28	12.25
RUNOFF VOLUME	(mm)=	123.69	70.58	105.38
TOTAL RAINFALL	(mm)=	125.69	125.69	125.69
RUNOFF COEFFICIENT	=	0.98	0.56	0.84

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

V V I SSSSS U U A L (v 6.1.2002)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\2e593772-62
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\2e593772-62

DATE: 04-17-2023 TIME: 01:21:50

USER:

COMMENTS: _____

****
** SIMULATION : Y) 100yr 24hr 15min SCS Type **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\140f72bb-a7e2-4ae7-8c06-1342704a05d9\b676e08a
Ptotal=136.79 mm	Comments: 100yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.46	12.75	19.70	19.00	2.46
0.50	1.50	6.75	2.46	13.00	10.12	19.25	2.46
0.75	1.50	7.00	2.46	13.25	10.12	19.50	2.46
1.00	1.50	7.25	2.46	13.50	7.39	19.75	2.46
1.25	1.50	7.50	3.01	13.75	7.39	20.00	2.46
1.50	1.50	7.75	3.01	14.00	5.75	20.25	2.46
1.75	1.50	8.00	3.01	14.25	5.75	20.50	1.64
2.00	1.50	8.25	3.01	14.50	4.10	20.75	1.64
2.25	1.50	8.50	3.56	14.75	4.10	21.00	1.64
2.50	1.78	8.75	3.56	15.00	4.10	21.25	1.64
2.75	1.78	9.00	3.83	15.25	4.10	21.50	1.64

3.00	1.78	9.25	3.83	15.50	4.10	21.75	1.64
3.25	1.78	9.50	4.38	15.75	4.10	22.00	1.64
3.50	1.78	9.75	4.38	16.00	4.10	22.25	1.64
3.75	1.78	10.00	4.92	16.25	4.10	22.50	1.64
4.00	1.78	10.25	4.92	16.50	2.46	22.75	1.64
4.25	1.78	10.50	6.29	16.75	2.46	23.00	1.64
4.50	2.19	10.75	6.29	17.00	2.46	23.25	1.64
4.75	2.19	11.00	8.48	17.25	2.46	23.50	1.64
5.00	2.19	11.25	8.48	17.50	2.46	23.75	1.64
5.25	2.19	11.50	13.13	17.75	2.46	24.00	1.64
5.50	2.19	11.75	13.13	18.00	2.46	24.25	1.64
5.75	2.19	12.00	40.49	18.25	2.46		
6.00	2.19	12.25	167.43	18.50	2.46		
6.25	2.19	12.50	19.70	18.75	2.46		

CALIB					
NASHYD (0101)	Area	(ha)=	0.36	Curve Number	(CN)= 77.0
ID= 1 DT= 1.0 min	Ia	(mm)=	4.27	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=		0.06		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.19	12.150	167.43	18.22	2.46
0.033	0.00	6.100	2.19	12.167	167.43	18.23	2.46
0.050	0.00	6.117	2.19	12.183	167.43	18.25	2.46
0.067	0.00	6.133	2.19	12.200	167.43	18.27	2.46
0.083	0.00	6.150	2.19	12.217	167.43	18.28	2.46
0.100	0.00	6.167	2.19	12.233	167.43	18.30	2.46
0.117	0.00	6.183	2.19	12.250	167.43	18.32	2.46
0.133	0.00	6.200	2.19	12.267	19.83	18.33	2.46
0.150	0.00	6.217	2.19	12.283	19.70	18.35	2.46
0.167	0.00	6.233	2.19	12.300	19.70	18.37	2.46
0.183	0.00	6.250	2.19	12.317	19.70	18.38	2.46
0.200	0.00	6.267	2.46	12.333	19.70	18.40	2.46
0.217	0.00	6.283	2.46	12.350	19.70	18.42	2.46
0.233	0.00	6.300	2.46	12.367	19.70	18.43	2.46
0.250	0.00	6.317	2.46	12.383	19.70	18.45	2.46
0.267	1.50	6.333	2.46	12.400	19.70	18.47	2.46
0.283	1.50	6.350	2.46	12.417	19.70	18.48	2.46
0.300	1.50	6.367	2.46	12.433	19.70	18.50	2.46
0.317	1.50	6.383	2.46	12.450	19.70	18.52	2.46
0.333	1.50	6.400	2.46	12.467	19.70	18.53	2.46
0.350	1.50	6.417	2.46	12.483	19.70	18.55	2.46
0.367	1.50	6.433	2.46	12.500	19.70	18.57	2.46
0.383	1.50	6.450	2.46	12.517	19.70	18.58	2.46
0.400	1.50	6.467	2.46	12.533	19.70	18.60	2.46
0.417	1.50	6.483	2.46	12.550	19.70	18.62	2.46
0.433	1.50	6.500	2.46	12.567	19.70	18.63	2.46
0.450	1.50	6.517	2.46	12.583	19.70	18.65	2.46
0.467	1.50	6.533	2.46	12.600	19.70	18.67	2.46
0.483	1.50	6.550	2.46	12.617	19.70	18.68	2.46
0.500	1.50	6.567	2.46	12.633	19.70	18.70	2.46
0.517	1.50	6.583	2.46	12.650	19.70	18.72	2.46
0.533	1.50	6.600	2.46	12.667	19.70	18.73	2.46
0.550	1.50	6.617	2.46	12.683	19.70	18.75	2.46
0.567	1.50	6.633	2.46	12.700	19.70	18.77	2.46
0.583	1.50	6.650	2.46	12.717	19.70	18.78	2.46
0.600	1.50	6.667	2.46	12.733	19.70	18.80	2.46
0.617	1.50	6.683	2.46	12.750	19.70	18.82	2.46
0.633	1.50	6.700	2.46	12.767	10.14	18.83	2.46
0.650	1.50	6.717	2.46	12.783	10.12	18.85	2.46
0.667	1.50	6.733	2.46	12.800	10.12	18.87	2.46
0.683	1.50	6.750	2.46	12.817	10.12	18.88	2.46
0.700	1.50	6.767	2.46	12.833	10.12	18.90	2.46
0.717	1.50	6.783	2.46	12.850	10.12	18.92	2.46
0.733	1.50	6.800	2.46	12.867	10.12	18.93	2.46
0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46
1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46
1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64

2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64
2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64
2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64
3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64
4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64
4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64

5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64
5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64
5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.123 (i)
TIME TO PEAK (hrs)= 12.250
RUNOFF VOLUME (mm)= 70.838
TOTAL RAINFALL (mm)= 136.791
RUNOFF COEFFICIENT = 0.518

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0102)	Area (ha)=	0.13
ID= 1 DT= 1.0 min	Total Imp(%)=	73.33 Dir. Conn.(%)= 65.58

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00
Mannings n	=	0.023	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.19	12.150	167.43	18.22	2.46
0.033	0.00	6.100	2.19	12.167	167.43	18.23	2.46
0.050	0.00	6.117	2.19	12.183	167.43	18.25	2.46
0.067	0.00	6.133	2.19	12.200	167.43	18.27	2.46
0.083	0.00	6.150	2.19	12.217	167.43	18.28	2.46
0.100	0.00	6.167	2.19	12.233	167.43	18.30	2.46
0.117	0.00	6.183	2.19	12.250	167.43	18.32	2.46
0.133	0.00	6.200	2.19	12.267	19.83	18.33	2.46
0.150	0.00	6.217	2.19	12.283	19.70	18.35	2.46
0.167	0.00	6.233	2.19	12.300	19.70	18.37	2.46
0.183	0.00	6.250	2.19	12.317	19.70	18.38	2.46
0.200	0.00	6.267	2.46	12.333	19.70	18.40	2.46
0.217	0.00	6.283	2.46	12.350	19.70	18.42	2.46
0.233	0.00	6.300	2.46	12.367	19.70	18.43	2.46
0.250	0.00	6.317	2.46	12.383	19.70	18.45	2.46
0.267	1.50	6.333	2.46	12.400	19.70	18.47	2.46
0.283	1.50	6.350	2.46	12.417	19.70	18.48	2.46
0.300	1.50	6.367	2.46	12.433	19.70	18.50	2.46
0.317	1.50	6.383	2.46	12.450	19.70	18.52	2.46
0.333	1.50	6.400	2.46	12.467	19.70	18.53	2.46
0.350	1.50	6.417	2.46	12.483	19.70	18.55	2.46
0.367	1.50	6.433	2.46	12.500	19.70	18.57	2.46
0.383	1.50	6.450	2.46	12.517	19.70	18.58	2.46
0.400	1.50	6.467	2.46	12.533	19.70	18.60	2.46
0.417	1.50	6.483	2.46	12.550	19.70	18.62	2.46
0.433	1.50	6.500	2.46	12.567	19.70	18.63	2.46
0.450	1.50	6.517	2.46	12.583	19.70	18.65	2.46
0.467	1.50	6.533	2.46	12.600	19.70	18.67	2.46
0.483	1.50	6.550	2.46	12.617	19.70	18.68	2.46
0.500	1.50	6.567	2.46	12.633	19.70	18.70	2.46
0.517	1.50	6.583	2.46	12.650	19.70	18.72	2.46
0.533	1.50	6.600	2.46	12.667	19.70	18.73	2.46
0.550	1.50	6.617	2.46	12.683	19.70	18.75	2.46
0.567	1.50	6.633	2.46	12.700	19.70	18.77	2.46
0.583	1.50	6.650	2.46	12.717	19.70	18.78	2.46
0.600	1.50	6.667	2.46	12.733	19.70	18.80	2.46
0.617	1.50	6.683	2.46	12.750	19.70	18.82	2.46
0.633	1.50	6.700	2.46	12.767	10.14	18.83	2.46
0.650	1.50	6.717	2.46	12.783	10.12	18.85	2.46
0.667	1.50	6.733	2.46	12.800	10.12	18.87	2.46
0.683	1.50	6.750	2.46	12.817	10.12	18.88	2.46
0.700	1.50	6.767	2.46	12.833	10.12	18.90	2.46
0.717	1.50	6.783	2.46	12.850	10.12	18.92	2.46
0.733	1.50	6.800	2.46	12.867	10.12	18.93	2.46
0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46

1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46
1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64
2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64
2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64
2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64
3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64

4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64
4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64
5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64
5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64
5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Max.Eff.Inten.(mm/hr)=		167.43	150.65	
over (min)		5.00	7.00	
Storage Coeff. (min)=		1.52 (ii)	6.74 (ii)	
Unit Hyd. Tpeak (min)=		5.00	7.00	
Unit Hyd. peak (cms)=		0.42	0.17	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.01	0.052 (iii)
TIME TO PEAK	(hrs)=	12.25	12.28	12.25
RUNOFF VOLUME	(mm)=	134.79	79.81	115.84
TOTAL RAINFALL	(mm)=	136.79	136.79	136.79
RUNOFF COEFFICIENT	=	0.99	0.58	0.85

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U A   A  L
         VV     I    SSSSS  UUUUU A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\596723dc-47
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\596723dc-47

DATE: 04-17-2023 TIME: 01:21:50

USER:

COMMENTS: _____

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---------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : Z) Barrie Hazel Design Storm  **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              140f72bb-a7e2-4ae7-8c06-1342704a05d9\a08a7059
| Ptotal=242.80 mm |    Comments: Barrie Hazel Design Storm
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.20	6.00	3.40	13.00	6.60	23.00	9.80	53.00
0.40	6.00	3.60	13.00	6.80	23.00	10.00	53.00
0.60	6.00	3.80	13.00	7.00	23.00	10.20	53.00
0.80	6.00	4.00	13.00	7.20	23.00	10.40	68.00
1.00	6.00	4.20	13.00	7.40	13.00	10.60	68.00
1.20	4.00	4.40	17.00	7.60	13.00	10.80	68.00
1.40	4.00	4.60	17.00	7.80	13.00	11.00	68.00
1.60	4.00	4.80	17.00	8.00	13.00	11.20	68.00
1.80	4.00	5.00	17.00	8.20	13.00	11.40	13.00
2.00	4.00	5.20	17.00	8.40	13.00	11.60	13.00
2.20	4.00	5.40	13.00	8.60	13.00	11.80	13.00
2.40	6.00	5.60	13.00	8.80	13.00	12.00	13.00
2.60	6.00	5.80	13.00	9.00	13.00	12.20	13.00
2.80	6.00	6.00	13.00	9.20	13.00		
3.00	6.00	6.20	13.00	9.40	53.00		
3.20	6.00	6.40	23.00	9.60	53.00		

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| CALIB            |
| NASHYD  (  0101)|   Area    (ha)=   0.36   Curve Number   (CN)= 77.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.27   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.06

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00
0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00
0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01
1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00
1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00

2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00
2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Unit Hyd Qpeak (cms)= 0.230

PEAK FLOW (cms)= 0.064 (i)
TIME TO PEAK (hrs)= 11.200
RUNOFF VOLUME (mm)= 180.899
TOTAL RAINFALL (mm)= 242.801
RUNOFF COEFFICIENT = 0.745

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0102)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 73.33	Dir. Conn.(%)= 65.58	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	0.78	0.78
Length	(m)=	29.62	51.00

Mannings n = 0.023 0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00
0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00
0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01
1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00

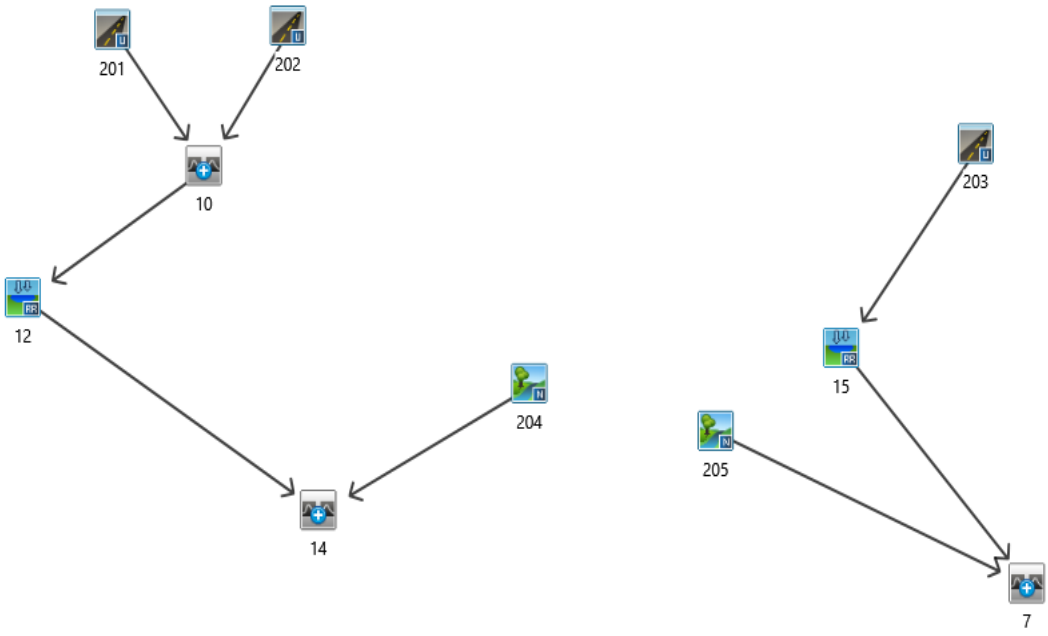
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00
1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00
2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00
2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Max.Eff.Inten.(mm/hr)=	68.00	80.56		
over (min)	5.00	10.00		
Storage Coeff. (min)=	2.18 (ii)	9.66 (ii)		
Unit Hyd. Tpeak (min)=	5.00	10.00		
Unit Hyd. peak (cms)=	0.36	0.12		
			TOTALS	
PEAK FLOW (cms)=	0.02	0.01	0.024 (iii)	
TIME TO PEAK (hrs)=	10.78	11.20	11.20	
RUNOFF VOLUME (mm)=	240.80	174.39	217.90	
TOTAL RAINFALL (mm)=	242.80	242.80	242.80	
RUNOFF COEFFICIENT =	0.99	0.72	0.90	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

Visual OTTHYMO Model Schematic

Post Development Scenario



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=============================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
         V V    I      SS   U   U  A   A  L
          VV    I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\35ca1da0-88
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\35ca1da0-88


DATE: 04-17-2023                          TIME: 01:25:43

USER:


COMMENTS: _____________________________________________________


-------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : A) 25mm Storm                 **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\5dbc7136
| Ptotal= 25.00 mm |    Comments: OS CHI FF 25mm.stm
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	2.07	1.17	5.70	2.17	5.19	3.17	2.80
0.33	2.27	1.33	10.78	2.33	4.47	3.33	2.62
0.50	2.52	1.50	50.21	2.50	3.95	3.50	2.48
0.67	2.88	1.67	13.37	2.67	3.56	3.67	2.35
0.83	3.38	1.83	8.29	2.83	3.25	3.83	2.23
1.00	4.18	2.00	6.30	3.00	3.01	4.00	2.14

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| CALIB            |
| NASHYD  (  0204) |   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80
0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62
0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

```
      Unit Hyd Qpeak  (cms)=   0.008

      PEAK FLOW       (cms)=   0.000 (i)
      TIME TO PEAK    (hrs)=   1.917
      RUNOFF VOLUME    (mm)=   3.258
      TOTAL RAINFALL   (mm)=  24.996
      RUNOFF COEFFICIENT   =   0.130

      (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| CALIB            |
| STANDHYD (  0201) |   Area    (ha)=   0.17
|ID= 1 DT= 1.0 min |   Total Imp(%)=  78.00   Dir. Conn.(%)=  78.00
--------------------

                          IMPERVIOUS    PERVIOUS (i)
      Surface Area     (ha)=       0.13          0.04
      Dep. Storage     (mm)=       2.00          5.00
      Average Slope     (%)=       1.00          1.00
      Length            (m)=      33.63         20.00
      Mannings n           =      0.013         0.190

          NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
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TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80

0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62
0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

Max.Eff.Inten.(mm/hr)=	50.21	4.06		
over (min)	5.00	6.00		
Storage Coeff. (min)=	1.75 (ii)	5.61 (ii)		
Unit Hyd. Tpeak (min)=	5.00	6.00		
Unit Hyd. peak (cms)=	0.40	0.20		
			TOTALS	
PEAK FLOW (cms)=	0.02	0.00	0.018 (iii)	
TIME TO PEAK (hrs)=	1.50	1.57	1.50	
RUNOFF VOLUME (mm)=	23.00	2.98	18.58	
TOTAL RAINFALL (mm)=	25.00	25.00	25.00	
RUNOFF COEFFICIENT =	0.92	0.12	0.74	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80
0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62
0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

Max.Eff.Inten.(mm/hr)=	50.21	4.06		
over (min)	5.00	5.00		
Storage Coeff. (min)=	1.23 (ii)	4.80 (ii)		
Unit Hyd. Tpeak (min)=	5.00	5.00		
Unit Hyd. peak (cms)=	0.45	0.23		
			TOTALS	
PEAK FLOW (cms)=	0.01	0.00	0.012 (iii)	
TIME TO PEAK (hrs)=	1.50	1.55	1.50	
RUNOFF VOLUME (mm)=	23.00	2.98	19.18	
TOTAL RAINFALL (mm)=	25.00	25.00	25.00	
RUNOFF COEFFICIENT =	0.92	0.12	0.77	

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.018	1.50	18.58
+ ID2= 2 (0202):		0.11	0.012	1.50	19.18
ID = 3 (0010):		0.27	0.031	1.50	18.81

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.031	1.50	18.81
OUTFLOW: ID= 1 (0012)	0.275	0.008	1.68	17.99

PEAK FLOW REDUCTION [Qout/Qin](%)= 27.24
TIME SHIFT OF PEAK FLOW (min)= 11.00
MAXIMUM STORAGE USED (ha.m.)= 0.0023

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.008	1.68	17.99
+ ID2= 2 (0204):		0.06	0.000	1.92	3.26
ID = 3 (0014):		0.34	0.009	1.72	15.24

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0205)	Area (ha)= 0.02	Curve Number (CN)= 74.0	
ID= 1 DT= 1.0 min	Ia (mm)= 4.56	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80
0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62
0.267	2.27	1.267	10.78	2.267	4.47	3.27	2.62
0.283	2.27	1.283	10.78	2.283	4.47	3.28	2.62
0.300	2.27	1.300	10.78	2.300	4.47	3.30	2.62
0.317	2.27	1.317	10.78	2.317	4.47	3.32	2.62
0.333	2.27	1.333	10.78	2.333	4.47	3.33	2.62
0.350	2.52	1.350	50.21	2.350	3.95	3.35	2.48
0.367	2.52	1.367	50.21	2.367	3.95	3.37	2.48
0.383	2.52	1.383	50.21	2.383	3.95	3.38	2.48
0.400	2.52	1.400	50.21	2.400	3.95	3.40	2.48
0.417	2.52	1.417	50.21	2.417	3.95	3.42	2.48
0.433	2.52	1.433	50.21	2.433	3.95	3.43	2.48
0.450	2.52	1.450	50.21	2.450	3.95	3.45	2.48
0.467	2.52	1.467	50.21	2.467	3.95	3.47	2.48
0.483	2.52	1.483	50.21	2.483	3.95	3.48	2.48
0.500	2.52	1.500	50.21	2.500	3.95	3.50	2.48
0.517	2.88	1.517	13.37	2.517	3.56	3.52	2.35
0.533	2.88	1.533	13.37	2.533	3.56	3.53	2.35
0.550	2.88	1.550	13.37	2.550	3.56	3.55	2.35
0.567	2.88	1.567	13.37	2.567	3.56	3.57	2.35
0.583	2.88	1.583	13.37	2.583	3.56	3.58	2.35
0.600	2.88	1.600	13.37	2.600	3.56	3.60	2.35
0.617	2.88	1.617	13.37	2.617	3.56	3.62	2.35
0.633	2.88	1.633	13.37	2.633	3.56	3.63	2.35
0.650	2.88	1.650	13.37	2.650	3.56	3.65	2.35
0.667	2.88	1.667	13.37	2.667	3.56	3.67	2.35
0.683	3.38	1.683	8.29	2.683	3.25	3.68	2.23
0.700	3.38	1.700	8.29	2.700	3.25	3.70	2.23
0.717	3.38	1.717	8.29	2.717	3.25	3.72	2.23
0.733	3.38	1.733	8.29	2.733	3.25	3.73	2.23
0.750	3.38	1.750	8.29	2.750	3.25	3.75	2.23
0.767	3.38	1.767	8.29	2.767	3.25	3.77	2.23
0.783	3.38	1.783	8.29	2.783	3.25	3.78	2.23
0.800	3.38	1.800	8.29	2.800	3.25	3.80	2.23
0.817	3.38	1.817	8.29	2.817	3.25	3.82	2.23
0.833	3.38	1.833	8.29	2.833	3.25	3.83	2.23
0.850	4.17	1.850	6.30	2.850	3.01	3.85	2.14
0.867	4.18	1.867	6.30	2.867	3.01	3.87	2.14
0.883	4.18	1.883	6.30	2.883	3.01	3.88	2.14
0.900	4.18	1.900	6.30	2.900	3.01	3.90	2.14
0.917	4.18	1.917	6.30	2.917	3.01	3.92	2.14
0.933	4.18	1.933	6.30	2.933	3.01	3.93	2.14
0.950	4.18	1.950	6.30	2.950	3.01	3.95	2.14
0.967	4.18	1.967	6.30	2.967	3.01	3.97	2.14
0.983	4.18	1.983	6.30	2.983	3.01	3.98	2.14
1.000	4.18	2.000	6.30	3.000	3.01	4.00	2.14

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.000 (i)
TIME TO PEAK (hrs)= 1.767
RUNOFF VOLUME (mm)= 3.744
TOTAL RAINFALL (mm)= 24.996
RUNOFF COEFFICIENT = 0.150

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00	Dir. Conn.(%)= 75.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.07	1.017	5.70	2.017	5.19	3.02	2.80
0.033	2.07	1.033	5.70	2.033	5.19	3.03	2.80
0.050	2.07	1.050	5.70	2.050	5.19	3.05	2.80
0.067	2.07	1.067	5.70	2.067	5.19	3.07	2.80
0.083	2.07	1.083	5.70	2.083	5.19	3.08	2.80
0.100	2.07	1.100	5.70	2.100	5.19	3.10	2.80
0.117	2.07	1.117	5.70	2.117	5.19	3.12	2.80
0.133	2.07	1.133	5.70	2.133	5.19	3.13	2.80
0.150	2.07	1.150	5.70	2.150	5.19	3.15	2.80
0.167	2.07	1.167	5.70	2.167	5.19	3.17	2.80
0.183	2.27	1.183	10.78	2.183	4.47	3.18	2.62
0.200	2.27	1.200	10.78	2.200	4.47	3.20	2.62
0.217	2.27	1.217	10.78	2.217	4.47	3.22	2.62
0.233	2.27	1.233	10.78	2.233	4.47	3.23	2.62
0.250	2.27	1.250	10.78	2.250	4.47	3.25	2.62

```
              0.267    2.27 | 1.267   10.78 | 2.267    4.47 |  3.27    2.62
              0.283    2.27 | 1.283   10.78 | 2.283    4.47 |  3.28    2.62
              0.300    2.27 | 1.300   10.78 | 2.300    4.47 |  3.30    2.62
              0.317    2.27 | 1.317   10.78 | 2.317    4.47 |  3.32    2.62
              0.333    2.27 | 1.333   10.78 | 2.333    4.47 |  3.33    2.62
              0.350    2.52 | 1.350   50.21 | 2.350    3.95 |  3.35    2.48
              0.367    2.52 | 1.367   50.21 | 2.367    3.95 |  3.37    2.48
              0.383    2.52 | 1.383   50.21 | 2.383    3.95 |  3.38    2.48
              0.400    2.52 | 1.400   50.21 | 2.400    3.95 |  3.40    2.48
              0.417    2.52 | 1.417   50.21 | 2.417    3.95 |  3.42    2.48
              0.433    2.52 | 1.433   50.21 | 2.433    3.95 |  3.43    2.48
              0.450    2.52 | 1.450   50.21 | 2.450    3.95 |  3.45    2.48
              0.467    2.52 | 1.467   50.21 | 2.467    3.95 |  3.47    2.48
              0.483    2.52 | 1.483   50.21 | 2.483    3.95 |  3.48    2.48
              0.500    2.52 | 1.500   50.21 | 2.500    3.95 |  3.50    2.48
              0.517    2.88 | 1.517   13.37 | 2.517    3.56 |  3.52    2.35
              0.533    2.88 | 1.533   13.37 | 2.533    3.56 |  3.53    2.35
              0.550    2.88 | 1.550   13.37 | 2.550    3.56 |  3.55    2.35
              0.567    2.88 | 1.567   13.37 | 2.567    3.56 |  3.57    2.35
              0.583    2.88 | 1.583   13.37 | 2.583    3.56 |  3.58    2.35
              0.600    2.88 | 1.600   13.37 | 2.600    3.56 |  3.60    2.35
              0.617    2.88 | 1.617   13.37 | 2.617    3.56 |  3.62    2.35
              0.633    2.88 | 1.633   13.37 | 2.633    3.56 |  3.63    2.35
              0.650    2.88 | 1.650   13.37 | 2.650    3.56 |  3.65    2.35
              0.667    2.88 | 1.667   13.37 | 2.667    3.56 |  3.67    2.35
              0.683    3.38 | 1.683    8.29 | 2.683    3.25 |  3.68    2.23
              0.700    3.38 | 1.700    8.29 | 2.700    3.25 |  3.70    2.23
              0.717    3.38 | 1.717    8.29 | 2.717    3.25 |  3.72    2.23
              0.733    3.38 | 1.733    8.29 | 2.733    3.25 |  3.73    2.23
              0.750    3.38 | 1.750    8.29 | 2.750    3.25 |  3.75    2.23
              0.767    3.38 | 1.767    8.29 | 2.767    3.25 |  3.77    2.23
              0.783    3.38 | 1.783    8.29 | 2.783    3.25 |  3.78    2.23
              0.800    3.38 | 1.800    8.29 | 2.800    3.25 |  3.80    2.23
              0.817    3.38 | 1.817    8.29 | 2.817    3.25 |  3.82    2.23
              0.833    3.38 | 1.833    8.29 | 2.833    3.25 |  3.83    2.23
              0.850    4.17 | 1.850    6.30 | 2.850    3.01 |  3.85    2.14
              0.867    4.18 | 1.867    6.30 | 2.867    3.01 |  3.87    2.14
              0.883    4.18 | 1.883    6.30 | 2.883    3.01 |  3.88    2.14
              0.900    4.18 | 1.900    6.30 | 2.900    3.01 |  3.90    2.14
              0.917    4.18 | 1.917    6.30 | 2.917    3.01 |  3.92    2.14
              0.933    4.18 | 1.933    6.30 | 2.933    3.01 |  3.93    2.14
              0.950    4.18 | 1.950    6.30 | 2.950    3.01 |  3.95    2.14
              0.967    4.18 | 1.967    6.30 | 2.967    3.01 |  3.97    2.14
              0.983    4.18 | 1.983    6.30 | 2.983    3.01 |  3.98    2.14
              1.000    4.18 | 2.000    6.30 | 3.000    3.01 |  4.00    2.14

    Max.Eff.Inten.(mm/hr)=      50.21         4.06
              over (min)         5.00         4.00
    Storage Coeff.  (min)=       1.32 (ii)    3.26 (ii)
    Unit Hyd. Tpeak (min)=       5.00         4.00
    Unit Hyd. peak  (cms)=       0.44         0.32
                                                    *TOTALS*
    PEAK FLOW       (cms)=       0.01         0.00          0.014 (iii)
    TIME TO PEAK    (hrs)=       1.50         1.53           1.50
    RUNOFF VOLUME    (mm)=      23.00         2.98          17.98
    TOTAL RAINFALL   (mm)=      25.00        25.00          25.00
    RUNOFF COEFFICIENT   =       0.92         0.12           0.72


      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  69.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                         0.0000     0.0000    |  0.0160     0.0036
                         0.0010     0.0004    |  0.0170     0.0043
                         0.0060     0.0009    |  0.0180     0.0051
                         0.0080     0.0013    |  0.0560     0.0059
                         0.0100     0.0017    |  0.1330     0.0068
                         0.0120     0.0022    |  0.2430     0.0078
                         0.0130     0.0025    |  0.3860     0.0089
                         0.0140     0.0030    |  0.0000     0.0000

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)    0.133     0.014      1.50      17.98
   OUTFLOW: ID= 1 (  0015)    0.133     0.006      1.58      17.24

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)= 42.43
                    TIME SHIFT OF PEAK FLOW         (min)=  5.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=  0.0009

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)      (mm)
       ID1= 1 (  0015):      0.13    0.006     1.58     17.24
     + ID2= 2 (  0205):      0.02    0.000     1.77      3.74
       ================================================
       ID = 3 (  0007):      0.16    0.006     1.60     15.33

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\09f3c5b3-e5
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\09f3c5b3-e5


DATE: 04-17-2023                          TIME: 01:25:42

USER:


COMMENTS: _____________________________________________________________


--------------------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : B) 2 yr 4hr 10min Chicago     **
  ************************************************

--------------------
| CHICAGO STORM    |    IDF curve parameters: A= 678.085
| Ptotal= 36.96 mm |                          B=   4.699
--------------------                          C=   0.781
                         used in:   INTENSITY =  A / (t + B)^C

                         Duration of storm  =  4.00 hrs
                         Storm time step    = 10.00 min
                         Time to peak ratio =  0.33

                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.17    2.47 |  1.17   18.78 |  2.17    5.73 |  3.17    2.92
                0.33    2.82 |  1.33   83.11 |  2.33    4.89 |  3.33    2.72
                0.50    3.31 |  1.50   24.57 |  2.50    4.28 |  3.50    2.55
                0.67    4.05 |  1.67   13.01 |  2.67    3.82 |  3.67    2.39
                0.83    5.30 |  1.83    9.01 |  2.83    3.46 |  3.83    2.26
                1.00    7.98 |  2.00    6.97 |  3.00    3.17 |  4.00    2.15


--------------------------------------------------------------------------------
--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31
```

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.47	1.017	18.78	2.017	5.73	3.02	2.93
0.033	2.47	1.033	18.78	2.033	5.73	3.03	2.92
0.050	2.47	1.050	18.78	2.050	5.73	3.05	2.92
0.067	2.47	1.067	18.78	2.067	5.73	3.07	2.92
0.083	2.47	1.083	18.78	2.083	5.73	3.08	2.92
0.100	2.47	1.100	18.78	2.100	5.73	3.10	2.92
0.117	2.47	1.117	18.78	2.117	5.73	3.12	2.92
0.133	2.47	1.133	18.78	2.133	5.73	3.13	2.92
0.150	2.47	1.150	18.78	2.150	5.73	3.15	2.92
0.167	2.47	1.167	18.78	2.167	5.73	3.17	2.92
0.183	2.82	1.183	83.10	2.183	4.89	3.18	2.72
0.200	2.82	1.200	83.11	2.200	4.89	3.20	2.72
0.217	2.82	1.217	83.11	2.217	4.89	3.22	2.72
0.233	2.82	1.233	83.11	2.233	4.89	3.23	2.72
0.250	2.82	1.250	83.11	2.250	4.89	3.25	2.72
0.267	2.82	1.267	83.11	2.267	4.89	3.27	2.72
0.283	2.82	1.283	83.11	2.283	4.89	3.28	2.72
0.300	2.82	1.300	83.11	2.300	4.89	3.30	2.72
0.317	2.82	1.317	83.11	2.317	4.89	3.32	2.72
0.333	2.82	1.333	83.11	2.333	4.89	3.33	2.72
0.350	3.31	1.350	24.57	2.350	4.28	3.35	2.55
0.367	3.31	1.367	24.57	2.367	4.28	3.37	2.55
0.383	3.31	1.383	24.57	2.383	4.28	3.38	2.55
0.400	3.31	1.400	24.57	2.400	4.28	3.40	2.55
0.417	3.31	1.417	24.57	2.417	4.28	3.42	2.55
0.433	3.31	1.433	24.57	2.433	4.28	3.43	2.55
0.450	3.31	1.450	24.57	2.450	4.28	3.45	2.55
0.467	3.31	1.467	24.57	2.467	4.28	3.47	2.55
0.483	3.31	1.483	24.57	2.483	4.28	3.48	2.55
0.500	3.31	1.500	24.57	2.500	4.28	3.50	2.55
0.517	4.05	1.517	13.01	2.517	3.82	3.52	2.39
0.533	4.05	1.533	13.01	2.533	3.82	3.53	2.39
0.550	4.05	1.550	13.01	2.550	3.82	3.55	2.39
0.567	4.05	1.567	13.01	2.567	3.82	3.57	2.39
0.583	4.05	1.583	13.01	2.583	3.82	3.58	2.39
0.600	4.05	1.600	13.01	2.600	3.82	3.60	2.39
0.617	4.05	1.617	13.01	2.617	3.82	3.62	2.39
0.633	4.05	1.633	13.01	2.633	3.82	3.63	2.39
0.650	4.05	1.650	13.01	2.650	3.82	3.65	2.39
0.667	4.05	1.667	13.01	2.667	3.82	3.67	2.39
0.683	5.30	1.683	9.01	2.683	3.46	3.68	2.26
0.700	5.30	1.700	9.01	2.700	3.46	3.70	2.26
0.717	5.30	1.717	9.01	2.717	3.46	3.72	2.26
0.733	5.30	1.733	9.01	2.733	3.46	3.73	2.26
0.750	5.30	1.750	9.01	2.750	3.46	3.75	2.26
0.767	5.30	1.767	9.01	2.767	3.46	3.77	2.26
0.783	5.30	1.783	9.01	2.783	3.46	3.78	2.26
0.800	5.30	1.800	9.01	2.800	3.46	3.80	2.26
0.817	5.30	1.817	9.01	2.817	3.46	3.82	2.26
0.833	5.30	1.833	9.01	2.833	3.46	3.83	2.26
0.850	7.98	1.850	6.97	2.850	3.17	3.85	2.15
0.867	7.98	1.867	6.97	2.867	3.17	3.87	2.15
0.883	7.98	1.883	6.97	2.883	3.17	3.88	2.15
0.900	7.98	1.900	6.97	2.900	3.17	3.90	2.15
0.917	7.98	1.917	6.97	2.917	3.17	3.92	2.15
0.933	7.98	1.933	6.97	2.933	3.17	3.93	2.15
0.950	7.98	1.950	6.97	2.950	3.17	3.95	2.15
0.967	7.98	1.967	6.97	2.967	3.17	3.97	2.15
0.983	7.98	1.983	6.97	2.983	3.17	3.98	2.15
1.000	7.98	2.000	6.97	3.000	3.17	4.00	2.15

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 1.717
RUNOFF VOLUME (mm)= 7.571
TOTAL RAINFALL (mm)= 36.955
RUNOFF COEFFICIENT = 0.205

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.17
STANDHYD (0201)	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00
ID= 1 DT= 1.0 min	

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.13	0.04
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	1.00	1.00
Length (m)=	33.63	20.00
Mannings n =	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.47	1.017	18.78	2.017	5.73	3.02	2.93
0.033	2.47	1.033	18.78	2.033	5.73	3.03	2.92
0.050	2.47	1.050	18.78	2.050	5.73	3.05	2.92
0.067	2.47	1.067	18.78	2.067	5.73	3.07	2.92
0.083	2.47	1.083	18.78	2.083	5.73	3.08	2.92
0.100	2.47	1.100	18.78	2.100	5.73	3.10	2.92
0.117	2.47	1.117	18.78	2.117	5.73	3.12	2.92
0.133	2.47	1.133	18.78	2.133	5.73	3.13	2.92
0.150	2.47	1.150	18.78	2.150	5.73	3.15	2.92
0.167	2.47	1.167	18.78	2.167	5.73	3.17	2.92
0.183	2.82	1.183	83.10	2.183	4.89	3.18	2.72
0.200	2.82	1.200	83.11	2.200	4.89	3.20	2.72
0.217	2.82	1.217	83.11	2.217	4.89	3.22	2.72
0.233	2.82	1.233	83.11	2.233	4.89	3.23	2.72
0.250	2.82	1.250	83.11	2.250	4.89	3.25	2.72
0.267	2.82	1.267	83.11	2.267	4.89	3.27	2.72
0.283	2.82	1.283	83.11	2.283	4.89	3.28	2.72
0.300	2.82	1.300	83.11	2.300	4.89	3.30	2.72
0.317	2.82	1.317	83.11	2.317	4.89	3.32	2.72
0.333	2.82	1.333	83.11	2.333	4.89	3.33	2.72
0.350	3.31	1.350	24.57	2.350	4.28	3.35	2.55
0.367	3.31	1.367	24.57	2.367	4.28	3.37	2.55
0.383	3.31	1.383	24.57	2.383	4.28	3.38	2.55
0.400	3.31	1.400	24.57	2.400	4.28	3.40	2.55
0.417	3.31	1.417	24.57	2.417	4.28	3.42	2.55
0.433	3.31	1.433	24.57	2.433	4.28	3.43	2.55
0.450	3.31	1.450	24.57	2.450	4.28	3.45	2.55
0.467	3.31	1.467	24.57	2.467	4.28	3.47	2.55
0.483	3.31	1.483	24.57	2.483	4.28	3.48	2.55
0.500	3.31	1.500	24.57	2.500	4.28	3.50	2.55
0.517	4.05	1.517	13.01	2.517	3.82	3.52	2.39
0.533	4.05	1.533	13.01	2.533	3.82	3.53	2.39
0.550	4.05	1.550	13.01	2.550	3.82	3.55	2.39
0.567	4.05	1.567	13.01	2.567	3.82	3.57	2.39
0.583	4.05	1.583	13.01	2.583	3.82	3.58	2.39
0.600	4.05	1.600	13.01	2.600	3.82	3.60	2.39
0.617	4.05	1.617	13.01	2.617	3.82	3.62	2.39
0.633	4.05	1.633	13.01	2.633	3.82	3.63	2.39
0.650	4.05	1.650	13.01	2.650	3.82	3.65	2.39
0.667	4.05	1.667	13.01	2.667	3.82	3.67	2.39
0.683	5.30	1.683	9.01	2.683	3.46	3.68	2.26
0.700	5.30	1.700	9.01	2.700	3.46	3.70	2.26
0.717	5.30	1.717	9.01	2.717	3.46	3.72	2.26
0.733	5.30	1.733	9.01	2.733	3.46	3.73	2.26
0.750	5.30	1.750	9.01	2.750	3.46	3.75	2.26
0.767	5.30	1.767	9.01	2.767	3.46	3.77	2.26
0.783	5.30	1.783	9.01	2.783	3.46	3.78	2.26
0.800	5.30	1.800	9.01	2.800	3.46	3.80	2.26
0.817	5.30	1.817	9.01	2.817	3.46	3.82	2.26
0.833	5.30	1.833	9.01	2.833	3.46	3.83	2.26
0.850	7.98	1.850	6.97	2.850	3.17	3.85	2.15
0.867	7.98	1.867	6.97	2.867	3.17	3.87	2.15
0.883	7.98	1.883	6.97	2.883	3.17	3.88	2.15
0.900	7.98	1.900	6.97	2.900	3.17	3.90	2.15
0.917	7.98	1.917	6.97	2.917	3.17	3.92	2.15
0.933	7.98	1.933	6.97	2.933	3.17	3.93	2.15
0.950	7.98	1.950	6.97	2.950	3.17	3.95	2.15
0.967	7.98	1.967	6.97	2.967	3.17	3.97	2.15
0.983	7.98	1.983	6.97	2.983	3.17	3.98	2.15
1.000	7.98	2.000	6.97	3.000	3.17	4.00	2.15

			TOTALS
Max.Eff.Inten.(mm/hr)=	83.11	12.06	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.43 (ii)	4.59 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.43	0.24	
PEAK FLOW (cms)=	0.03	0.00	0.031 (iii)
TIME TO PEAK (hrs)=	1.33	1.38	1.33
RUNOFF VOLUME (mm)=	34.96	6.99	28.79
TOTAL RAINFALL (mm)=	36.96	36.96	36.96
RUNOFF COEFFICIENT =	0.95	0.19	0.78

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      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| CALIB            |
| STANDHYD (  0202)|   Area    (ha)=   0.11
|ID= 1 DT= 1.0 min |   Total Imp(%)=  81.00   Dir. Conn.(%)=  81.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.09         0.02
     Dep. Storage     (mm)=       2.00         5.00
     Average Slope     (%)=       2.00         2.00
     Length            (m)=      26.50        28.00
     Mannings n           =      0.013        0.190

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                        ---- TRANSFORMED HYETOGRAPH ----
  TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
   hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
 0.017    2.47 | 1.017   18.78 | 2.017    5.73 |  3.02    2.93
 0.033    2.47 | 1.033   18.78 | 2.033    5.73 |  3.03    2.92
 0.050    2.47 | 1.050   18.78 | 2.050    5.73 |  3.05    2.92
 0.067    2.47 | 1.067   18.78 | 2.067    5.73 |  3.07    2.92
 0.083    2.47 | 1.083   18.78 | 2.083    5.73 |  3.08    2.92
 0.100    2.47 | 1.100   18.78 | 2.100    5.73 |  3.10    2.92
 0.117    2.47 | 1.117   18.78 | 2.117    5.73 |  3.12    2.92
 0.133    2.47 | 1.133   18.78 | 2.133    5.73 |  3.13    2.92
 0.150    2.47 | 1.150   18.78 | 2.150    5.73 |  3.15    2.92
 0.167    2.47 | 1.167   18.78 | 2.167    5.73 |  3.17    2.92
 0.183    2.82 | 1.183   83.10 | 2.183    4.89 |  3.18    2.72
 0.200    2.82 | 1.200   83.11 | 2.200    4.89 |  3.20    2.72
 0.217    2.82 | 1.217   83.11 | 2.217    4.89 |  3.22    2.72
 0.233    2.82 | 1.233   83.11 | 2.233    4.89 |  3.23    2.72
 0.250    2.82 | 1.250   83.11 | 2.250    4.89 |  3.25    2.72
 0.267    2.82 | 1.267   83.11 | 2.267    4.89 |  3.27    2.72
 0.283    2.82 | 1.283   83.11 | 2.283    4.89 |  3.28    2.72
 0.300    2.82 | 1.300   83.11 | 2.300    4.89 |  3.30    2.72
 0.317    2.82 | 1.317   83.11 | 2.317    4.89 |  3.32    2.72
 0.333    2.82 | 1.333   83.11 | 2.333    4.89 |  3.33    2.72
 0.350    3.31 | 1.350   24.57 | 2.350    4.28 |  3.35    2.55
 0.367    3.31 | 1.367   24.57 | 2.367    4.28 |  3.37    2.55
 0.383    3.31 | 1.383   24.57 | 2.383    4.28 |  3.38    2.55
 0.400    3.31 | 1.400   24.57 | 2.400    4.28 |  3.40    2.55
 0.417    3.31 | 1.417   24.57 | 2.417    4.28 |  3.42    2.55
 0.433    3.31 | 1.433   24.57 | 2.433    4.28 |  3.43    2.55
 0.450    3.31 | 1.450   24.57 | 2.450    4.28 |  3.45    2.55
 0.467    3.31 | 1.467   24.57 | 2.467    4.28 |  3.47    2.55
 0.483    3.31 | 1.483   24.57 | 2.483    4.28 |  3.48    2.55
 0.500    3.31 | 1.500   24.57 | 2.500    4.28 |  3.50    2.55
 0.517    4.05 | 1.517   13.01 | 2.517    3.82 |  3.52    2.39
 0.533    4.05 | 1.533   13.01 | 2.533    3.82 |  3.53    2.39
 0.550    4.05 | 1.550   13.01 | 2.550    3.82 |  3.55    2.39
 0.567    4.05 | 1.567   13.01 | 2.567    3.82 |  3.57    2.39
 0.583    4.05 | 1.583   13.01 | 2.583    3.82 |  3.58    2.39
 0.600    4.05 | 1.600   13.01 | 2.600    3.82 |  3.60    2.39
 0.617    4.05 | 1.617   13.01 | 2.617    3.82 |  3.62    2.39
 0.633    4.05 | 1.633   13.01 | 2.633    3.82 |  3.63    2.39
 0.650    4.05 | 1.650   13.01 | 2.650    3.82 |  3.65    2.39
 0.667    4.05 | 1.667   13.01 | 2.667    3.82 |  3.67    2.39
 0.683    5.30 | 1.683    9.01 | 2.683    3.46 |  3.68    2.26
 0.700    5.30 | 1.700    9.01 | 2.700    3.46 |  3.70    2.26
 0.717    5.30 | 1.717    9.01 | 2.717    3.46 |  3.72    2.26
 0.733    5.30 | 1.733    9.01 | 2.733    3.46 |  3.73    2.26
 0.750    5.30 | 1.750    9.01 | 2.750    3.46 |  3.75    2.26
 0.767    5.30 | 1.767    9.01 | 2.767    3.46 |  3.77    2.26
 0.783    5.30 | 1.783    9.01 | 2.783    3.46 |  3.78    2.26
 0.800    5.30 | 1.800    9.01 | 2.800    3.46 |  3.80    2.26
 0.817    5.30 | 1.817    9.01 | 2.817    3.46 |  3.82    2.26
 0.833    5.30 | 1.833    9.01 | 2.833    3.46 |  3.83    2.26
 0.850    7.98 | 1.850    6.97 | 2.850    3.17 |  3.85    2.15
 0.867    7.98 | 1.867    6.97 | 2.867    3.17 |  3.87    2.15
 0.883    7.98 | 1.883    6.97 | 2.883    3.17 |  3.88    2.15
 0.900    7.98 | 1.900    6.97 | 2.900    3.17 |  3.90    2.15
 0.917    7.98 | 1.917    6.97 | 2.917    3.17 |  3.92    2.15
 0.933    7.98 | 1.933    6.97 | 2.933    3.17 |  3.93    2.15
 0.950    7.98 | 1.950    6.97 | 2.950    3.17 |  3.95    2.15
 0.967    7.98 | 1.967    6.97 | 2.967    3.17 |  3.97    2.15
 0.983    7.98 | 1.983    6.97 | 2.983    3.17 |  3.98    2.15
 1.000    7.98 | 2.000    6.97 | 3.000    3.17 |  4.00    2.15

     Max.Eff.Inten.(mm/hr)=      83.11        12.06
              over (min)         5.00         4.00
     Storage Coeff.  (min)=      1.01 (ii)    3.92 (ii)
     Unit Hyd. Tpeak (min)=      5.00         4.00
     Unit Hyd. peak  (cms)=      0.47         0.29
                                                      *TOTALS*
     PEAK FLOW       (cms)=      0.02         0.00       0.020 (iii)
     TIME TO PEAK    (hrs)=      1.33         1.37        1.33
     RUNOFF VOLUME    (mm)=     34.95         6.99       29.64
     TOTAL RAINFALL   (mm)=     36.96        36.96       36.96
     RUNOFF COEFFICIENT   =      0.95         0.19        0.80


      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0010)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0201):     0.17   0.031     1.33    28.79
     + ID2= 2 (  0202):     0.11   0.020     1.33    29.64
       ================================================
       ID = 3 (  0010):     0.27   0.052     1.33    29.12

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| RESERVOIR(  0012)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)    |   (cms)     (ha.m.)
                         0.0000     0.0000     |  0.0200     0.0082
                         0.0010     0.0009     |  0.0210     0.0098
                         0.0070     0.0019     |  0.0230     0.0115
                         0.0100     0.0028     |  0.0240     0.0134
                         0.0130     0.0038     |  0.0620     0.0155
                         0.0150     0.0047     |  0.1400     0.0177
                         0.0170     0.0054     |  0.2500     0.0200
                         0.0180     0.0067     |  0.0000     0.0000

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0010)     0.275     0.052      1.33      29.12
   OUTFLOW: ID= 1 (  0012)     0.275     0.013      1.55      28.29

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 25.34
                  TIME SHIFT OF PEAK FLOW         (min)= 13.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0038

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0012):     0.27   0.013     1.55    28.29
     + ID2= 2 (  0204):     0.06   0.001     1.72     7.57
       ================================================
       ID = 3 (  0014):     0.34   0.014     1.58    24.42

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| CALIB            |
| NASHYD   (  0205)|   Area    (ha)=   0.02   Curve Number   (CN)= 74.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.56   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.22

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                        ---- TRANSFORMED HYETOGRAPH ----
  TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
   hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
```

0.017	2.47	1.017	18.78	2.017	5.73	3.02	2.93
0.033	2.47	1.033	18.78	2.033	5.73	3.03	2.92
0.050	2.47	1.050	18.78	2.050	5.73	3.05	2.92
0.067	2.47	1.067	18.78	2.067	5.73	3.07	2.92
0.083	2.47	1.083	18.78	2.083	5.73	3.08	2.92
0.100	2.47	1.100	18.78	2.100	5.73	3.10	2.92
0.117	2.47	1.117	18.78	2.117	5.73	3.12	2.92
0.133	2.47	1.133	18.78	2.133	5.73	3.13	2.92
0.150	2.47	1.150	18.78	2.150	5.73	3.15	2.92
0.167	2.47	1.167	18.78	2.167	5.73	3.17	2.92
0.183	2.82	1.183	83.10	2.183	4.89	3.18	2.72
0.200	2.82	1.200	83.11	2.200	4.89	3.20	2.72
0.217	2.82	1.217	83.11	2.217	4.89	3.22	2.72
0.233	2.82	1.233	83.11	2.233	4.89	3.23	2.72
0.250	2.82	1.250	83.11	2.250	4.89	3.25	2.72
0.267	2.82	1.267	83.11	2.267	4.89	3.27	2.72
0.283	2.82	1.283	83.11	2.283	4.89	3.28	2.72
0.300	2.82	1.300	83.11	2.300	4.89	3.30	2.72
0.317	2.82	1.317	83.11	2.317	4.89	3.32	2.72
0.333	2.82	1.333	83.11	2.333	4.89	3.33	2.72
0.350	3.31	1.350	24.57	2.350	4.28	3.35	2.55
0.367	3.31	1.367	24.57	2.367	4.28	3.37	2.55
0.383	3.31	1.383	24.57	2.383	4.28	3.38	2.55
0.400	3.31	1.400	24.57	2.400	4.28	3.40	2.55
0.417	3.31	1.417	24.57	2.417	4.28	3.42	2.55
0.433	3.31	1.433	24.57	2.433	4.28	3.43	2.55
0.450	3.31	1.450	24.57	2.450	4.28	3.45	2.55
0.467	3.31	1.467	24.57	2.467	4.28	3.47	2.55
0.483	3.31	1.483	24.57	2.483	4.28	3.48	2.55
0.500	3.31	1.500	24.57	2.500	4.28	3.50	2.55
0.517	4.05	1.517	13.01	2.517	3.82	3.52	2.39
0.533	4.05	1.533	13.01	2.533	3.82	3.53	2.39
0.550	4.05	1.550	13.01	2.550	3.82	3.55	2.39
0.567	4.05	1.567	13.01	2.567	3.82	3.57	2.39
0.583	4.05	1.583	13.01	2.583	3.82	3.58	2.39
0.600	4.05	1.600	13.01	2.600	3.82	3.60	2.39
0.617	4.05	1.617	13.01	2.617	3.82	3.62	2.39
0.633	4.05	1.633	13.01	2.633	3.82	3.63	2.39
0.650	4.05	1.650	13.01	2.650	3.82	3.65	2.39
0.667	4.05	1.667	13.01	2.667	3.82	3.67	2.39
0.683	5.30	1.683	9.01	2.683	3.46	3.68	2.26
0.700	5.30	1.700	9.01	2.700	3.46	3.70	2.26
0.717	5.30	1.717	9.01	2.717	3.46	3.72	2.26
0.733	5.30	1.733	9.01	2.733	3.46	3.73	2.26
0.750	5.30	1.750	9.01	2.750	3.46	3.75	2.26
0.767	5.30	1.767	9.01	2.767	3.46	3.77	2.26
0.783	5.30	1.783	9.01	2.783	3.46	3.78	2.26
0.800	5.30	1.800	9.01	2.800	3.46	3.80	2.26
0.817	5.30	1.817	9.01	2.817	3.46	3.82	2.26
0.833	5.30	1.833	9.01	2.833	3.46	3.83	2.26
0.850	7.98	1.850	6.97	2.850	3.17	3.85	2.15
0.867	7.98	1.867	6.97	2.867	3.17	3.87	2.15
0.883	7.98	1.883	6.97	2.883	3.17	3.88	2.15
0.900	7.98	1.900	6.97	2.900	3.17	3.90	2.15
0.917	7.98	1.917	6.97	2.917	3.17	3.92	2.15
0.933	7.98	1.933	6.97	2.933	3.17	3.93	2.15
0.950	7.98	1.950	6.97	2.950	3.17	3.95	2.15
0.967	7.98	1.967	6.97	2.967	3.17	3.97	2.15
0.983	7.98	1.983	6.97	2.983	3.17	3.98	2.15
1.000	7.98	2.000	6.97	3.000	3.17	4.00	2.15

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 1.583
RUNOFF VOLUME (mm)= 8.573
TOTAL RAINFALL (mm)= 36.955
RUNOFF COEFFICIENT = 0.232

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	2.47	1.017	18.78	2.017	5.73	3.02	2.93
0.033	2.47	1.033	18.78	2.033	5.73	3.03	2.92
0.050	2.47	1.050	18.78	2.050	5.73	3.05	2.92
0.067	2.47	1.067	18.78	2.067	5.73	3.07	2.92
0.083	2.47	1.083	18.78	2.083	5.73	3.08	2.92
0.100	2.47	1.100	18.78	2.100	5.73	3.10	2.92
0.117	2.47	1.117	18.78	2.117	5.73	3.12	2.92
0.133	2.47	1.133	18.78	2.133	5.73	3.13	2.92
0.150	2.47	1.150	18.78	2.150	5.73	3.15	2.92
0.167	2.47	1.167	18.78	2.167	5.73	3.17	2.92
0.183	2.82	1.183	83.10	2.183	4.89	3.18	2.72
0.200	2.82	1.200	83.11	2.200	4.89	3.20	2.72
0.217	2.82	1.217	83.11	2.217	4.89	3.22	2.72
0.233	2.82	1.233	83.11	2.233	4.89	3.23	2.72
0.250	2.82	1.250	83.11	2.250	4.89	3.25	2.72
0.267	2.82	1.267	83.11	2.267	4.89	3.27	2.72
0.283	2.82	1.283	83.11	2.283	4.89	3.28	2.72
0.300	2.82	1.300	83.11	2.300	4.89	3.30	2.72
0.317	2.82	1.317	83.11	2.317	4.89	3.32	2.72
0.333	2.82	1.333	83.11	2.333	4.89	3.33	2.72
0.350	3.31	1.350	24.57	2.350	4.28	3.35	2.55
0.367	3.31	1.367	24.57	2.367	4.28	3.37	2.55
0.383	3.31	1.383	24.57	2.383	4.28	3.38	2.55
0.400	3.31	1.400	24.57	2.400	4.28	3.40	2.55
0.417	3.31	1.417	24.57	2.417	4.28	3.42	2.55
0.433	3.31	1.433	24.57	2.433	4.28	3.43	2.55
0.450	3.31	1.450	24.57	2.450	4.28	3.45	2.55
0.467	3.31	1.467	24.57	2.467	4.28	3.47	2.55
0.483	3.31	1.483	24.57	2.483	4.28	3.48	2.55
0.500	3.31	1.500	24.57	2.500	4.28	3.50	2.55
0.517	4.05	1.517	13.01	2.517	3.82	3.52	2.39
0.533	4.05	1.533	13.01	2.533	3.82	3.53	2.39
0.550	4.05	1.550	13.01	2.550	3.82	3.55	2.39
0.567	4.05	1.567	13.01	2.567	3.82	3.57	2.39
0.583	4.05	1.583	13.01	2.583	3.82	3.58	2.39
0.600	4.05	1.600	13.01	2.600	3.82	3.60	2.39
0.617	4.05	1.617	13.01	2.617	3.82	3.62	2.39
0.633	4.05	1.633	13.01	2.633	3.82	3.63	2.39
0.650	4.05	1.650	13.01	2.650	3.82	3.65	2.39
0.667	4.05	1.667	13.01	2.667	3.82	3.67	2.39
0.683	5.30	1.683	9.01	2.683	3.46	3.68	2.26
0.700	5.30	1.700	9.01	2.700	3.46	3.70	2.26
0.717	5.30	1.717	9.01	2.717	3.46	3.72	2.26
0.733	5.30	1.733	9.01	2.733	3.46	3.73	2.26
0.750	5.30	1.750	9.01	2.750	3.46	3.75	2.26
0.767	5.30	1.767	9.01	2.767	3.46	3.77	2.26
0.783	5.30	1.783	9.01	2.783	3.46	3.78	2.26
0.800	5.30	1.800	9.01	2.800	3.46	3.80	2.26
0.817	5.30	1.817	9.01	2.817	3.46	3.82	2.26
0.833	5.30	1.833	9.01	2.833	3.46	3.83	2.26
0.850	7.98	1.850	6.97	2.850	3.17	3.85	2.15
0.867	7.98	1.867	6.97	2.867	3.17	3.87	2.15
0.883	7.98	1.883	6.97	2.883	3.17	3.88	2.15
0.900	7.98	1.900	6.97	2.900	3.17	3.90	2.15
0.917	7.98	1.917	6.97	2.917	3.17	3.92	2.15
0.933	7.98	1.933	6.97	2.933	3.17	3.93	2.15
0.950	7.98	1.950	6.97	2.950	3.17	3.95	2.15
0.967	7.98	1.967	6.97	2.967	3.17	3.97	2.15
0.983	7.98	1.983	6.97	2.983	3.17	3.98	2.15
1.000	7.98	2.000	6.97	3.000	3.17	4.00	2.15

Max.Eff.Inten.(mm/hr)=		83.11	12.06	
over (min)		5.00	3.00	
Storage Coeff. (min)=		1.08 (ii)	2.66 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.46	0.41	
				TOTALS
PEAK FLOW	(cms)=	0.02	0.00	0.024 (iii)
TIME TO PEAK	(hrs)=	1.33	1.35	1.33
RUNOFF VOLUME	(mm)=	34.95	6.99	27.96
TOTAL RAINFALL	(mm)=	36.96	36.96	36.96
RUNOFF COEFFICIENT	=	0.95	0.19	0.76

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) IN= 2---> OUT= 1 DT= 1.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0160	0.0036
	0.0010	0.0004	0.0170	0.0043
	0.0060	0.0009	0.0180	0.0051
	0.0080	0.0013	0.0560	0.0059
	0.0100	0.0017	0.1330	0.0068
	0.0120	0.0022	0.2430	0.0078
	0.0130	0.0025	0.3860	0.0089
	0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.024	1.33	27.96
OUTFLOW: ID= 1 (0015)	0.133	0.009	1.43	27.21

PEAK FLOW REDUCTION [Qout/Qin](%)= 37.00
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0015

ADD HYD (0007) 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.009	1.43	27.21
+ ID2= 2 (0205):	0.02	0.001	1.58	8.57
ID = 3 (0007):	0.16	0.009	1.45	24.57

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

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  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\72876558-14
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\72876558-14

DATE: 04-17-2023                          TIME: 01:25:45

USER:


COMMENTS: _____________________________________________________
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  ************************************************
  ** SIMULATION : C) 5 yr 4hr 10min Chicago     **
  ************************************************
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CHICAGO STORM Ptotal= 50.52 mm	IDF curve parameters: A= 853.608 B= 4.699 C= 0.766

used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	3.57	1.17	25.64	2.17	8.12	3.17	4.22
0.33	4.07	1.33	108.92	2.33	6.96	3.33	3.93
0.50	4.76	1.50	33.31	2.50	6.12	3.50	3.68
0.67	5.79	1.67	17.99	2.67	5.48	3.67	3.47
0.83	7.53	1.83	12.60	2.83	4.97	3.83	3.28
1.00	11.20	2.00	9.82	3.00	4.56	4.00	3.12

CALIB NASHYD (0204) ID= 1 DT= 1.0 min	Area (ha)= 0.06	Curve Number (CN)= 71.0 Ia (mm)= 4.85	# of Linear Res.(N)= 3.00 U.H. Tp(hrs)= 0.31

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68
0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47
0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12

0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 1.700
RUNOFF VOLUME (mm)= 13.944
TOTAL RAINFALL (mm)= 50.521
RUNOFF COEFFICIENT = 0.276

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.17
STANDHYD (0201)	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00
ID= 1 DT= 1.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68
0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47
0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12
0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

Max.Eff.Inten.(mm/hr)=		108.92	22.75	
over (min)		5.00	5.00	
Storage Coeff. (min)=		1.28 (ii)	4.12 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00	
Unit Hyd. peak (cms)=		0.44	0.26	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.00	0.042 (iii)
TIME TO PEAK	(hrs)=	1.33	1.37	1.33
RUNOFF VOLUME	(mm)=	48.52	12.98	40.69
TOTAL RAINFALL	(mm)=	50.52	50.52	50.52
RUNOFF COEFFICIENT	=	0.96	0.26	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.11
STANDHYD (0202)	Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00
ID= 1 DT= 1.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68
0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47

0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12
0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

Max.Eff.Inten.(mm/hr)=	108.92	22.75	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.90 (ii)	3.52 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.49	0.31	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.027 (iii)
TIME TO PEAK (hrs)=	1.33	1.35	1.33
RUNOFF VOLUME (mm)=	48.52	12.98	41.76
TOTAL RAINFALL (mm)=	50.52	50.52	50.52
RUNOFF COEFFICIENT =	0.96	0.26	0.83

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):	0.17	0.042	1.33	40.69
+ ID2= 2 (0202):	0.11	0.027	1.33	41.76
ID = 3 (0010):	0.27	0.069	1.33	41.10

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012) IN= 2---> OUT= 1 DT= 1.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.069	1.33	41.10
OUTFLOW: ID= 1 (0012)	0.275	0.017	1.57	40.27

PEAK FLOW REDUCTION [Qout/Qin](%)= 24.39
TIME SHIFT OF PEAK FLOW (min)= 14.00
MAXIMUM STORAGE USED (ha.m.)= 0.0053

ADD HYD (0014)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.017	1.57	40.27
+ ID2= 2 (0204):	0.06	0.002	1.70	13.94
ID = 3 (0014):	0.34	0.019	1.58	35.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB NASHYD (0205) ID= 1 DT= 1.0 min				
	Area	(ha)=	0.02	Curve Number (CN)= 74.0
	Ia	(mm)=	4.56	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=		0.22	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68
0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47
0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12
0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

Unit Hyd Qpeak (cms)= 0.004

```
      PEAK FLOW       (cms)=   0.001 (i)
      TIME TO PEAK    (hrs)=   1.583
      RUNOFF VOLUME    (mm)=  15.565
      TOTAL RAINFALL   (mm)=  50.521
      RUNOFF COEFFICIENT   =   0.308

      (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.
```

CALIB STANDHYD (0203) ID= 1 DT= 1.0 min	Area (ha)= 0.13 Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.10	0.03
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	2.00	2.00
Length (m)=	29.83	8.00
Mannings n =	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	3.57	1.017	25.64	2.017	8.12	3.02	4.22
0.033	3.57	1.033	25.64	2.033	8.12	3.03	4.22
0.050	3.57	1.050	25.64	2.050	8.12	3.05	4.22
0.067	3.57	1.067	25.64	2.067	8.12	3.07	4.22
0.083	3.57	1.083	25.64	2.083	8.12	3.08	4.22
0.100	3.57	1.100	25.64	2.100	8.12	3.10	4.22
0.117	3.57	1.117	25.64	2.117	8.12	3.12	4.22
0.133	3.57	1.133	25.64	2.133	8.12	3.13	4.22
0.150	3.57	1.150	25.64	2.150	8.12	3.15	4.22
0.167	3.57	1.167	25.64	2.167	8.12	3.17	4.22
0.183	4.07	1.183	108.92	2.183	6.96	3.18	3.93
0.200	4.07	1.200	108.92	2.200	6.96	3.20	3.93
0.217	4.07	1.217	108.92	2.217	6.96	3.22	3.93
0.233	4.07	1.233	108.92	2.233	6.96	3.23	3.93
0.250	4.07	1.250	108.92	2.250	6.96	3.25	3.93
0.267	4.07	1.267	108.92	2.267	6.96	3.27	3.93
0.283	4.07	1.283	108.92	2.283	6.96	3.28	3.93
0.300	4.07	1.300	108.92	2.300	6.96	3.30	3.93
0.317	4.07	1.317	108.92	2.317	6.96	3.32	3.93
0.333	4.07	1.333	108.92	2.333	6.96	3.33	3.93
0.350	4.76	1.350	33.32	2.350	6.12	3.35	3.68
0.367	4.76	1.367	33.31	2.367	6.12	3.37	3.68
0.383	4.76	1.383	33.31	2.383	6.12	3.38	3.68
0.400	4.76	1.400	33.31	2.400	6.12	3.40	3.68
0.417	4.76	1.417	33.31	2.417	6.12	3.42	3.68
0.433	4.76	1.433	33.31	2.433	6.12	3.43	3.68
0.450	4.76	1.450	33.31	2.450	6.12	3.45	3.68
0.467	4.76	1.467	33.31	2.467	6.12	3.47	3.68
0.483	4.76	1.483	33.31	2.483	6.12	3.48	3.68
0.500	4.76	1.500	33.31	2.500	6.12	3.50	3.68
0.517	5.79	1.517	17.99	2.517	5.48	3.52	3.47
0.533	5.79	1.533	17.99	2.533	5.48	3.53	3.47
0.550	5.79	1.550	17.99	2.550	5.48	3.55	3.47
0.567	5.79	1.567	17.99	2.567	5.48	3.57	3.47
0.583	5.79	1.583	17.99	2.583	5.48	3.58	3.47
0.600	5.79	1.600	17.99	2.600	5.48	3.60	3.47
0.617	5.79	1.617	17.99	2.617	5.48	3.62	3.47
0.633	5.79	1.633	17.99	2.633	5.48	3.63	3.47
0.650	5.79	1.650	17.99	2.650	5.48	3.65	3.47
0.667	5.79	1.667	17.99	2.667	5.48	3.67	3.47
0.683	7.53	1.683	12.60	2.683	4.97	3.68	3.28
0.700	7.53	1.700	12.60	2.700	4.97	3.70	3.28
0.717	7.53	1.717	12.60	2.717	4.97	3.72	3.28
0.733	7.53	1.733	12.60	2.733	4.97	3.73	3.28
0.750	7.53	1.750	12.60	2.750	4.97	3.75	3.28
0.767	7.53	1.767	12.60	2.767	4.97	3.77	3.28
0.783	7.53	1.783	12.60	2.783	4.97	3.78	3.28
0.800	7.53	1.800	12.60	2.800	4.97	3.80	3.28
0.817	7.53	1.817	12.60	2.817	4.97	3.82	3.28
0.833	7.53	1.833	12.60	2.833	4.97	3.83	3.28
0.850	11.20	1.850	9.82	2.850	4.56	3.85	3.12
0.867	11.20	1.867	9.82	2.867	4.56	3.87	3.12
0.883	11.20	1.883	9.82	2.883	4.56	3.88	3.12
0.900	11.20	1.900	9.82	2.900	4.56	3.90	3.12
0.917	11.20	1.917	9.82	2.917	4.56	3.92	3.12
0.933	11.20	1.933	9.82	2.933	4.56	3.93	3.12
0.950	11.20	1.950	9.82	2.950	4.56	3.95	3.12
0.967	11.20	1.967	9.82	2.967	4.56	3.97	3.12
0.983	11.20	1.983	9.82	2.983	4.56	3.98	3.12
1.000	11.20	2.000	9.82	3.000	4.56	4.00	3.12

			TOTALS
Max.Eff.Inten.(mm/hr)=	108.92	22.75	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.97 (ii)	2.39 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.48	0.43	
PEAK FLOW (cms)=	0.03	0.00	0.033 (iii)
TIME TO PEAK (hrs)=	1.33	1.35	1.33
RUNOFF VOLUME (mm)=	48.52	12.98	39.63
TOTAL RAINFALL (mm)=	50.52	50.52	50.52
RUNOFF COEFFICIENT =	0.96	0.26	0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) IN= 2---> OUT= 1 DT= 1.0 min	OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.033	1.33	39.63
OUTFLOW: ID= 1 (0015)	0.133	0.011	1.43	38.88

PEAK FLOW REDUCTION [Qout/Qin](%)= 35.01
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0021

ADD HYD (0007) 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.011	1.43	38.88
+ ID2= 2 (0205):	0.02	0.001	1.58	15.57
ID = 3 (0007):	0.16	0.012	1.50	35.58

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
       V  V    I      SS   U   U  A   A  L
        VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


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DATE: 04-17-2023 TIME: 01:25:46

USER:

COMMENTS: _____

****
** SIMULATION : D) 10 yr 4hr 10min Chicago **
****

CHICAGO STORM
Ptotal= 59.69 mm

IDF curve parameters: A= 975.865
B= 4.699
C= 0.760
used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	4.32	1.17	30.27	2.17	9.72	3.17	5.09
0.33	4.91	1.33	126.55	2.33	8.35	3.33	4.74
0.50	5.73	1.50	39.22	2.50	7.35	3.50	4.45
0.67	6.96	1.67	21.35	2.67	6.59	3.67	4.19
0.83	9.03	1.83	15.01	2.83	5.99	3.83	3.97
1.00	13.36	2.00	11.74	3.00	5.50	4.00	3.77

CALIB
NASHYD (0204)
ID= 1 DT= 1.0 min

Area (ha)= 0.06 Curve Number (CN)= 71.0
Ia (mm)= 4.85 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.31

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45
0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19
0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19
0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97
0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 1.700
RUNOFF VOLUME (mm)= 18.950
TOTAL RAINFALL (mm)= 59.695
RUNOFF COEFFICIENT = 0.317

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45

0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19
0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19
0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97
0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Max.Eff.Inten.(mm/hr)=		126.55	31.49	
over (min)		5.00	4.00	
Storage Coeff. (min)=		1.21 (ii)	3.88 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.45	0.29	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.00	0.049 (iii)
TIME TO PEAK	(hrs)=	1.33	1.35	1.33
RUNOFF VOLUME	(mm)=	57.69	17.72	48.89
TOTAL RAINFALL	(mm)=	59.69	59.69	59.69
RUNOFF COEFFICIENT	=	0.97	0.30	0.82

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202)
ID= 1 DT= 1.0 min

Area (ha)= 0.11
Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45
0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19
0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19
0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97
0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Max.Eff.Inten.(mm/hr)=		126.55	31.49	
over (min)		5.00	4.00	
Storage Coeff. (min)=		0.85 (ii)	3.31 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.49	0.32	
				TOTALS
PEAK FLOW	(cms)=	0.03	0.00	0.032 (iii)
TIME TO PEAK	(hrs)=	1.33	1.35	1.33
RUNOFF VOLUME	(mm)=	57.69	17.72	50.09
TOTAL RAINFALL	(mm)=	59.69	59.69	59.69
RUNOFF COEFFICIENT	=	0.97	0.30	0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)
1 + 2 = 3

		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):		0.17	0.049	1.33	48.89
+ ID2= 2 (0202):		0.11	0.032	1.33	50.09
ID = 3 (0010):		0.27	0.081	1.33	49.35

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF
IN= 2---> OUT= 1	

DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.081	1.33	49.35
OUTFLOW: ID= 1 (0012)	0.275	0.018	1.58	48.52

PEAK FLOW REDUCTION [Qout/Qin](%)= 21.94
TIME SHIFT OF PEAK FLOW (min)= 15.00
MAXIMUM STORAGE USED (ha.m.)= 0.0064

ADD HYD (0014)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.018	1.58	48.52
+ ID2= 2 (0204):	0.06	0.003	1.70	18.95
ID = 3 (0014):	0.34	0.020	1.67	43.01

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
NASHYD (0205)
ID= 1 DT= 1.0 min

Area (ha)= 0.02 Curve Number (CN)= 74.0
Ia (mm)= 4.56 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45
0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19
0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19
0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97
0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 1.567
RUNOFF VOLUME (mm)= 20.996
TOTAL RAINFALL (mm)= 59.695
RUNOFF COEFFICIENT = 0.352

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0203)
ID= 1 DT= 1.0 min

Area (ha)= 0.13
Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	4.32	1.017	30.27	2.017	9.72	3.02	5.09
0.033	4.32	1.033	30.27	2.033	9.72	3.03	5.09
0.050	4.32	1.050	30.27	2.050	9.72	3.05	5.09
0.067	4.32	1.067	30.27	2.067	9.72	3.07	5.09
0.083	4.32	1.083	30.27	2.083	9.72	3.08	5.09
0.100	4.32	1.100	30.27	2.100	9.72	3.10	5.09
0.117	4.32	1.117	30.27	2.117	9.72	3.12	5.09
0.133	4.32	1.133	30.27	2.133	9.72	3.13	5.09
0.150	4.32	1.150	30.27	2.150	9.72	3.15	5.09
0.167	4.32	1.167	30.27	2.167	9.72	3.17	5.09
0.183	4.91	1.183	126.54	2.183	8.35	3.18	4.74
0.200	4.91	1.200	126.55	2.200	8.35	3.20	4.74
0.217	4.91	1.217	126.55	2.217	8.35	3.22	4.74
0.233	4.91	1.233	126.55	2.233	8.35	3.23	4.74
0.250	4.91	1.250	126.55	2.250	8.35	3.25	4.74
0.267	4.91	1.267	126.55	2.267	8.35	3.27	4.74
0.283	4.91	1.283	126.55	2.283	8.35	3.28	4.74
0.300	4.91	1.300	126.55	2.300	8.35	3.30	4.74
0.317	4.91	1.317	126.55	2.317	8.35	3.32	4.74
0.333	4.91	1.333	126.55	2.333	8.35	3.33	4.74
0.350	5.73	1.350	39.23	2.350	7.35	3.35	4.45
0.367	5.73	1.367	39.22	2.367	7.35	3.37	4.45
0.383	5.73	1.383	39.22	2.383	7.35	3.38	4.45
0.400	5.73	1.400	39.22	2.400	7.35	3.40	4.45
0.417	5.73	1.417	39.22	2.417	7.35	3.42	4.45
0.433	5.73	1.433	39.22	2.433	7.35	3.43	4.45
0.450	5.73	1.450	39.22	2.450	7.35	3.45	4.45
0.467	5.73	1.467	39.22	2.467	7.35	3.47	4.45
0.483	5.73	1.483	39.22	2.483	7.35	3.48	4.45
0.500	5.73	1.500	39.22	2.500	7.35	3.50	4.45
0.517	6.96	1.517	21.35	2.517	6.59	3.52	4.19
0.533	6.96	1.533	21.35	2.533	6.59	3.53	4.19
0.550	6.96	1.550	21.35	2.550	6.59	3.55	4.19

0.567	6.96	1.567	21.35	2.567	6.59	3.57	4.19
0.583	6.96	1.583	21.35	2.583	6.59	3.58	4.19
0.600	6.96	1.600	21.35	2.600	6.59	3.60	4.19
0.617	6.96	1.617	21.35	2.617	6.59	3.62	4.19
0.633	6.96	1.633	21.35	2.633	6.59	3.63	4.19
0.650	6.96	1.650	21.35	2.650	6.59	3.65	4.19
0.667	6.96	1.667	21.35	2.667	6.59	3.67	4.19
0.683	9.03	1.683	15.01	2.683	5.99	3.68	3.97
0.700	9.03	1.700	15.01	2.700	5.99	3.70	3.97
0.717	9.03	1.717	15.01	2.717	5.99	3.72	3.97
0.733	9.03	1.733	15.01	2.733	5.99	3.73	3.97
0.750	9.03	1.750	15.01	2.750	5.99	3.75	3.97
0.767	9.03	1.767	15.01	2.767	5.99	3.77	3.97
0.783	9.03	1.783	15.01	2.783	5.99	3.78	3.97
0.800	9.03	1.800	15.01	2.800	5.99	3.80	3.97
0.817	9.03	1.817	15.01	2.817	5.99	3.82	3.97
0.833	9.03	1.833	15.01	2.833	5.99	3.83	3.97
0.850	13.36	1.850	11.74	2.850	5.50	3.85	3.77
0.867	13.36	1.867	11.74	2.867	5.50	3.87	3.77
0.883	13.36	1.883	11.74	2.883	5.50	3.88	3.77
0.900	13.36	1.900	11.74	2.900	5.50	3.90	3.77
0.917	13.36	1.917	11.74	2.917	5.50	3.92	3.77
0.933	13.36	1.933	11.74	2.933	5.50	3.93	3.77
0.950	13.36	1.950	11.74	2.950	5.50	3.95	3.77
0.967	13.36	1.967	11.74	2.967	5.50	3.97	3.77
0.983	13.36	1.983	11.74	2.983	5.50	3.98	3.77
1.000	13.36	2.000	11.74	3.000	5.50	4.00	3.77

Max.Eff.Inten.(mm/hr)=	126.55	31.49	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.91 (ii)	2.25 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.48	0.45	
			TOTALS
PEAK FLOW (cms)=	0.04	0.00	0.039 (iii)
TIME TO PEAK (hrs)=	1.33	1.33	1.33
RUNOFF VOLUME (mm)=	57.69	17.72	47.69
TOTAL RAINFALL (mm)=	59.69	59.69	59.69
RUNOFF COEFFICIENT =	0.97	0.30	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)| IN= 2---> OUT= 1 | DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
OVERFLOW IS OFF				
	0.0000	0.0000	0.0160	0.0036
	0.0010	0.0004	0.0170	0.0043
	0.0060	0.0009	0.0180	0.0051
	0.0080	0.0013	0.0560	0.0059
	0.0100	0.0017	0.1330	0.0068
	0.0120	0.0022	0.2430	0.0078
	0.0130	0.0025	0.3860	0.0089
	0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.039	1.33	47.69
OUTFLOW: ID= 1 (0015)	0.133	0.013	1.45	46.94

PEAK FLOW REDUCTION [Qout/Qin](%)= 33.38
TIME SHIFT OF PEAK FLOW (min)= 7.00
MAXIMUM STORAGE USED (ha.m.)= 0.0025

ADD HYD (0007)| 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.013	1.45	46.94
+ ID2= 2 (0205):	0.02	0.001	1.57	21.00
ID = 3 (0007):	0.16	0.014	1.52	43.27

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M M M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\05f8cd91-d3
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\05f8cd91-d3

DATE: 04-17-2023 TIME: 01:25:42

USER:

COMMENTS: _____

****
** SIMULATION : E) 25 yr 4hr 10min Chicago **
****

CHICAGO STORM | Ptotal= 71.24 mm |	IDF curve parameters: A=1146.275 B= 4.922 C= 0.757

used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	5.22	1.17	36.37	2.17	11.74	3.17	6.15
0.33	5.94	1.33	148.15	2.33	10.09	3.33	5.74
0.50	6.93	1.50	47.06	2.50	8.89	3.50	5.38
0.67	8.42	1.67	25.72	2.67	7.96	3.67	5.08
0.83	10.91	1.83	18.11	2.83	7.24	3.83	4.80
1.00	16.13	2.00	14.17	3.00	6.65	4.00	4.57

CALIB NASHYD (0204)| ID= 1 DT= 1.0 min |	Area (ha)= 0.06 Ia (mm)= 4.85 U.H. Tp(hrs)= 0.31	Curve Number (CN)= 71.0 # of Linear Res.(N)= 3.00

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74

0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74
0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80
0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 1.700
RUNOFF VOLUME (mm)= 25.887
TOTAL RAINFALL (mm)= 71.236
RUNOFF COEFFICIENT = 0.363

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74
0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74
0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80
0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

				TOTALS
Max.Eff.Inten.(mm/hr)=		148.15	43.67	
over (min)		5.00	4.00	
Storage Coeff. (min)=		1.14 (ii)	3.64 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.46	0.30	
PEAK FLOW	(cms)=	0.05	0.00	0.059 (iii)
TIME TO PEAK	(hrs)=	1.33	1.35	1.33
RUNOFF VOLUME	(mm)=	69.24	24.33	59.35
TOTAL RAINFALL	(mm)=	71.24	71.24	71.24
RUNOFF COEFFICIENT	=	0.97	0.34	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0202)	Area (ha)= 0.11
ID= 1 DT= 1.0 min	Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00

Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74
0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74
0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80
0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

Max.Eff.Inten.(mm/hr)=		148.15	43.67	
over (min)		5.00	4.00	
Storage Coeff. (min)=		0.80 (ii)	3.11 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.50	0.33	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.00	0.038 (iii)
TIME TO PEAK	(hrs)=	1.33	1.35	1.33
RUNOFF VOLUME	(mm)=	69.24	24.33	60.69
TOTAL RAINFALL	(mm)=	71.24	71.24	71.24
RUNOFF COEFFICIENT	=	0.97	0.34	0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
	ID1= 1 (0201):	0.17	0.059	1.33	59.35
	+ ID2= 2 (0202):	0.11	0.038	1.33	60.69
	ID = 3 (0010):	0.27	0.096	1.33	59.86

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.096	1.33	59.86
OUTFLOW: ID= 1 (0012)	0.275	0.020	1.58	59.03

PEAK FLOW REDUCTION [Qout/Qin](%)= 20.36
TIME SHIFT OF PEAK FLOW (min)= 15.00
MAXIMUM STORAGE USED (ha.m.)= 0.0079

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
	ID1= 1 (0012):	0.27	0.020	1.58	59.03
	+ ID2= 2 (0204):	0.06	0.004	1.70	25.89
	ID = 3 (0014):	0.34	0.023	1.67	52.85

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB					
NASHYD (0205)	Area	(ha)=	0.02	Curve Number	(CN)= 74.0
ID= 1 DT= 1.0 min	Ia	(mm)=	4.56	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=		0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74
0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74

0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80
0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 1.567
RUNOFF VOLUME (mm)= 28.455
TOTAL RAINFALL (mm)= 71.236
RUNOFF COEFFICIENT = 0.399

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.13
STANDHYD (0203)	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00
ID= 1 DT= 1.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.22	1.017	36.37	2.017	11.74	3.02	6.15
0.033	5.22	1.033	36.37	2.033	11.74	3.03	6.15
0.050	5.22	1.050	36.37	2.050	11.74	3.05	6.15
0.067	5.22	1.067	36.37	2.067	11.74	3.07	6.15
0.083	5.22	1.083	36.37	2.083	11.74	3.08	6.15
0.100	5.22	1.100	36.37	2.100	11.74	3.10	6.15
0.117	5.22	1.117	36.37	2.117	11.74	3.12	6.15
0.133	5.22	1.133	36.37	2.133	11.74	3.13	6.15
0.150	5.22	1.150	36.37	2.150	11.74	3.15	6.15
0.167	5.22	1.167	36.37	2.167	11.74	3.17	6.15
0.183	5.94	1.183	148.15	2.183	10.09	3.18	5.74
0.200	5.94	1.200	148.15	2.200	10.09	3.20	5.74
0.217	5.94	1.217	148.15	2.217	10.09	3.22	5.74
0.233	5.94	1.233	148.15	2.233	10.09	3.23	5.74
0.250	5.94	1.250	148.15	2.250	10.09	3.25	5.74
0.267	5.94	1.267	148.15	2.267	10.09	3.27	5.74
0.283	5.94	1.283	148.15	2.283	10.09	3.28	5.74
0.300	5.94	1.300	148.15	2.300	10.09	3.30	5.74
0.317	5.94	1.317	148.15	2.317	10.09	3.32	5.74
0.333	5.94	1.333	148.15	2.333	10.09	3.33	5.74
0.350	6.93	1.350	47.06	2.350	8.89	3.35	5.38
0.367	6.93	1.367	47.06	2.367	8.89	3.37	5.38
0.383	6.93	1.383	47.06	2.383	8.89	3.38	5.38
0.400	6.93	1.400	47.06	2.400	8.89	3.40	5.38
0.417	6.93	1.417	47.06	2.417	8.89	3.42	5.38
0.433	6.93	1.433	47.06	2.433	8.89	3.43	5.38
0.450	6.93	1.450	47.06	2.450	8.89	3.45	5.38
0.467	6.93	1.467	47.06	2.467	8.89	3.47	5.38
0.483	6.93	1.483	47.06	2.483	8.89	3.48	5.38
0.500	6.93	1.500	47.06	2.500	8.89	3.50	5.38
0.517	8.42	1.517	25.72	2.517	7.96	3.52	5.08
0.533	8.42	1.533	25.72	2.533	7.96	3.53	5.08
0.550	8.42	1.550	25.72	2.550	7.96	3.55	5.08
0.567	8.42	1.567	25.72	2.567	7.96	3.57	5.08
0.583	8.42	1.583	25.72	2.583	7.96	3.58	5.08
0.600	8.42	1.600	25.72	2.600	7.96	3.60	5.08
0.617	8.42	1.617	25.72	2.617	7.96	3.62	5.08
0.633	8.42	1.633	25.72	2.633	7.96	3.63	5.08
0.650	8.42	1.650	25.72	2.650	7.96	3.65	5.08
0.667	8.42	1.667	25.72	2.667	7.96	3.67	5.08
0.683	10.91	1.683	18.11	2.683	7.24	3.68	4.80
0.700	10.91	1.700	18.11	2.700	7.24	3.70	4.80
0.717	10.91	1.717	18.11	2.717	7.24	3.72	4.80
0.733	10.91	1.733	18.11	2.733	7.24	3.73	4.80
0.750	10.91	1.750	18.11	2.750	7.24	3.75	4.80
0.767	10.91	1.767	18.11	2.767	7.24	3.77	4.80
0.783	10.91	1.783	18.11	2.783	7.24	3.78	4.80
0.800	10.91	1.800	18.11	2.800	7.24	3.80	4.80
0.817	10.91	1.817	18.11	2.817	7.24	3.82	4.80
0.833	10.91	1.833	18.11	2.833	7.24	3.83	4.80
0.850	16.13	1.850	14.17	2.850	6.65	3.85	4.57
0.867	16.13	1.867	14.17	2.867	6.65	3.87	4.57
0.883	16.13	1.883	14.17	2.883	6.65	3.88	4.57
0.900	16.13	1.900	14.17	2.900	6.65	3.90	4.57
0.917	16.13	1.917	14.17	2.917	6.65	3.92	4.57
0.933	16.13	1.933	14.17	2.933	6.65	3.93	4.57
0.950	16.13	1.950	14.17	2.950	6.65	3.95	4.57
0.967	16.13	1.967	14.17	2.967	6.65	3.97	4.57
0.983	16.13	1.983	14.17	2.983	6.65	3.98	4.57
1.000	16.13	2.000	14.17	3.000	6.65	4.00	4.57

				TOTALS
Max.Eff.Inten.(mm/hr)=		148.15	43.67	
over (min)		5.00	3.00	
Storage Coeff. (min)=		0.86 (ii)	2.11 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.49	0.47	
PEAK FLOW	(cms)=	0.04	0.00	0.046 (iii)
TIME TO PEAK	(hrs)=	1.33	1.33	1.33
RUNOFF VOLUME	(mm)=	69.24	24.33	58.00
TOTAL RAINFALL	(mm)=	71.24	71.24	71.24
RUNOFF COEFFICIENT	=	0.97	0.34	0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 1.0 min	

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089

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                        0.0140     0.0030   |   0.0000      0.0000

                             AREA     QPEAK     TPEAK       R.V.
                             (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)     0.133     0.046      1.33      58.00
   OUTFLOW: ID= 1 (  0015)     0.133     0.014      1.53      57.24

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 30.65
                  TIME SHIFT OF PEAK FLOW         (min)= 12.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0030

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--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):     0.13   0.014     1.53    57.24
     + ID2= 2 (  0205):     0.02   0.002     1.57    28.45
       ================================================
       ID = 3 (  0007):     0.16   0.016     1.53    53.17

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================================


       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\d408c769-a1
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\d408c769-a1


DATE: 04-17-2023                          TIME: 01:25:48

USER:



COMMENTS: _____________________________________________________


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  ************************************************
  ** SIMULATION : F) 50 yr 4hr 10min Chicago    **
  ************************************************

--------------------
| CHICAGO STORM    |    IDF curve parameters: A=1236.152
| Ptotal= 79.45 mm |                          B=   4.699
--------------------                          C=   0.751
                         used in:   INTENSITY =  A / (t + B)^C

                         Duration of storm  =  4.00 hrs
                         Storm time step    = 10.00 min
                         Time to peak ratio =  0.33

                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.17    5.93 |  1.17   40.22 |  2.17   13.20 |  3.17    6.98
                0.33    6.74 |  1.33  164.22 |  2.33   11.37 |  3.33    6.51
                0.50    7.85 |  1.50   51.92 |  2.50   10.03 |  3.50    6.11
                0.67    9.50 |  1.67   28.58 |  2.67    9.00 |  3.67    5.77
                0.83   12.27 |  1.83   20.23 |  2.83    8.19 |  3.83    5.46
                1.00   18.04 |  2.00   15.88 |  3.00    7.53 |  4.00    5.19


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| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                                ---- TRANSFORMED HYETOGRAPH ----
              TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
               hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
              0.017    5.93 | 1.017   40.22 | 2.017   13.20 |  3.02    6.98
              0.033    5.93 | 1.033   40.22 | 2.033   13.20 |  3.03    6.98
              0.050    5.93 | 1.050   40.22 | 2.050   13.20 |  3.05    6.98
              0.067    5.93 | 1.067   40.22 | 2.067   13.20 |  3.07    6.98
              0.083    5.93 | 1.083   40.22 | 2.083   13.20 |  3.08    6.98
              0.100    5.93 | 1.100   40.22 | 2.100   13.20 |  3.10    6.98
              0.117    5.93 | 1.117   40.22 | 2.117   13.20 |  3.12    6.98
              0.133    5.93 | 1.133   40.22 | 2.133   13.20 |  3.13    6.98
              0.150    5.93 | 1.150   40.22 | 2.150   13.20 |  3.15    6.98
              0.167    5.93 | 1.167   40.22 | 2.167   13.20 |  3.17    6.98
              0.183    6.74 | 1.183  164.22 | 2.183   11.37 |  3.18    6.51
              0.200    6.74 | 1.200  164.22 | 2.200   11.37 |  3.20    6.51
              0.217    6.74 | 1.217  164.22 | 2.217   11.37 |  3.22    6.51
              0.233    6.74 | 1.233  164.22 | 2.233   11.37 |  3.23    6.51
              0.250    6.74 | 1.250  164.22 | 2.250   11.37 |  3.25    6.51
              0.267    6.74 | 1.267  164.22 | 2.267   11.37 |  3.27    6.51
              0.283    6.74 | 1.283  164.22 | 2.283   11.37 |  3.28    6.51
              0.300    6.74 | 1.300  164.22 | 2.300   11.37 |  3.30    6.51
              0.317    6.74 | 1.317  164.22 | 2.317   11.37 |  3.32    6.51
              0.333    6.74 | 1.333  164.22 | 2.333   11.37 |  3.33    6.51
              0.350    7.85 | 1.350   51.92 | 2.350   10.03 |  3.35    6.11
              0.367    7.85 | 1.367   51.92 | 2.367   10.03 |  3.37    6.11
              0.383    7.85 | 1.383   51.92 | 2.383   10.03 |  3.38    6.11
              0.400    7.85 | 1.400   51.92 | 2.400   10.03 |  3.40    6.11
              0.417    7.85 | 1.417   51.92 | 2.417   10.03 |  3.42    6.11
              0.433    7.85 | 1.433   51.92 | 2.433   10.03 |  3.43    6.11
              0.450    7.85 | 1.450   51.92 | 2.450   10.03 |  3.45    6.11
              0.467    7.85 | 1.467   51.92 | 2.467   10.03 |  3.47    6.11
              0.483    7.85 | 1.483   51.92 | 2.483   10.03 |  3.48    6.11
              0.500    7.85 | 1.500   51.92 | 2.500   10.03 |  3.50    6.11
              0.517    9.50 | 1.517   28.58 | 2.517    9.00 |  3.52    5.77
              0.533    9.50 | 1.533   28.58 | 2.533    9.00 |  3.53    5.77
              0.550    9.50 | 1.550   28.58 | 2.550    9.00 |  3.55    5.77
              0.567    9.50 | 1.567   28.58 | 2.567    9.00 |  3.57    5.77
              0.583    9.50 | 1.583   28.58 | 2.583    9.00 |  3.58    5.77
              0.600    9.50 | 1.600   28.58 | 2.600    9.00 |  3.60    5.77
              0.617    9.50 | 1.617   28.58 | 2.617    9.00 |  3.62    5.77
              0.633    9.50 | 1.633   28.58 | 2.633    9.00 |  3.63    5.77
              0.650    9.50 | 1.650   28.58 | 2.650    9.00 |  3.65    5.77
              0.667    9.50 | 1.667   28.58 | 2.667    9.00 |  3.67    5.77
              0.683   12.27 | 1.683   20.23 | 2.683    8.19 |  3.68    5.46
              0.700   12.27 | 1.700   20.23 | 2.700    8.19 |  3.70    5.46
              0.717   12.27 | 1.717   20.23 | 2.717    8.19 |  3.72    5.46
              0.733   12.27 | 1.733   20.23 | 2.733    8.19 |  3.73    5.46
              0.750   12.27 | 1.750   20.23 | 2.750    8.19 |  3.75    5.46
              0.767   12.27 | 1.767   20.23 | 2.767    8.19 |  3.77    5.46
              0.783   12.27 | 1.783   20.23 | 2.783    8.19 |  3.78    5.46
              0.800   12.27 | 1.800   20.23 | 2.800    8.19 |  3.80    5.46
              0.817   12.27 | 1.817   20.23 | 2.817    8.19 |  3.82    5.46
              0.833   12.27 | 1.833   20.23 | 2.833    8.19 |  3.83    5.46
              0.850   18.04 | 1.850   15.88 | 2.850    7.53 |  3.85    5.19
              0.867   18.04 | 1.867   15.88 | 2.867    7.53 |  3.87    5.19
              0.883   18.04 | 1.883   15.88 | 2.883    7.53 |  3.88    5.19
              0.900   18.04 | 1.900   15.88 | 2.900    7.53 |  3.90    5.19
              0.917   18.04 | 1.917   15.88 | 2.917    7.53 |  3.92    5.19
              0.933   18.04 | 1.933   15.88 | 2.933    7.53 |  3.93    5.19
              0.950   18.04 | 1.950   15.88 | 2.950    7.53 |  3.95    5.19
              0.967   18.04 | 1.967   15.88 | 2.967    7.53 |  3.97    5.19
              0.983   18.04 | 1.983   15.88 | 2.983    7.53 |  3.98    5.19
              1.000   18.04 | 2.000   15.88 | 3.000    7.53 |  4.00    5.19

    Unit Hyd Qpeak  (cms)=   0.008

    PEAK FLOW       (cms)=   0.004 (i)
    TIME TO PEAK    (hrs)=   1.683
    RUNOFF VOLUME    (mm)=  31.190
    TOTAL RAINFALL   (mm)=  79.453
    RUNOFF COEFFICIENT   =   0.393

    (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| CALIB            |
| STANDHYD (  0201)|   Area    (ha)=   0.17
|ID= 1 DT= 1.0 min |   Total Imp(%)=  78.00   Dir. Conn.(%)=  78.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      0.13         0.04
     Dep. Storage     (mm)=      2.00         5.00
     Average Slope     (%)=      1.00         1.00
     Length            (m)=     33.63        20.00
     Mannings n             =    0.013        0.190

     NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.93	1.017	40.22	2.017	13.20	3.02	6.98
0.033	5.93	1.033	40.22	2.033	13.20	3.03	6.98
0.050	5.93	1.050	40.22	2.050	13.20	3.05	6.98
0.067	5.93	1.067	40.22	2.067	13.20	3.07	6.98
0.083	5.93	1.083	40.22	2.083	13.20	3.08	6.98
0.100	5.93	1.100	40.22	2.100	13.20	3.10	6.98
0.117	5.93	1.117	40.22	2.117	13.20	3.12	6.98
0.133	5.93	1.133	40.22	2.133	13.20	3.13	6.98
0.150	5.93	1.150	40.22	2.150	13.20	3.15	6.98
0.167	5.93	1.167	40.22	2.167	13.20	3.17	6.98
0.183	6.74	1.183	164.22	2.183	11.37	3.18	6.51
0.200	6.74	1.200	164.22	2.200	11.37	3.20	6.51
0.217	6.74	1.217	164.22	2.217	11.37	3.22	6.51
0.233	6.74	1.233	164.22	2.233	11.37	3.23	6.51
0.250	6.74	1.250	164.22	2.250	11.37	3.25	6.51
0.267	6.74	1.267	164.22	2.267	11.37	3.27	6.51
0.283	6.74	1.283	164.22	2.283	11.37	3.28	6.51
0.300	6.74	1.300	164.22	2.300	11.37	3.30	6.51
0.317	6.74	1.317	164.22	2.317	11.37	3.32	6.51
0.333	6.74	1.333	164.22	2.333	11.37	3.33	6.51
0.350	7.85	1.350	51.92	2.350	10.03	3.35	6.11
0.367	7.85	1.367	51.92	2.367	10.03	3.37	6.11
0.383	7.85	1.383	51.92	2.383	10.03	3.38	6.11
0.400	7.85	1.400	51.92	2.400	10.03	3.40	6.11
0.417	7.85	1.417	51.92	2.417	10.03	3.42	6.11
0.433	7.85	1.433	51.92	2.433	10.03	3.43	6.11
0.450	7.85	1.450	51.92	2.450	10.03	3.45	6.11
0.467	7.85	1.467	51.92	2.467	10.03	3.47	6.11
0.483	7.85	1.483	51.92	2.483	10.03	3.48	6.11
0.500	7.85	1.500	51.92	2.500	10.03	3.50	6.11
0.517	9.50	1.517	28.58	2.517	9.00	3.52	5.77
0.533	9.50	1.533	28.58	2.533	9.00	3.53	5.77
0.550	9.50	1.550	28.58	2.550	9.00	3.55	5.77
0.567	9.50	1.567	28.58	2.567	9.00	3.57	5.77
0.583	9.50	1.583	28.58	2.583	9.00	3.58	5.77
0.600	9.50	1.600	28.58	2.600	9.00	3.60	5.77
0.617	9.50	1.617	28.58	2.617	9.00	3.62	5.77
0.633	9.50	1.633	28.58	2.633	9.00	3.63	5.77
0.650	9.50	1.650	28.58	2.650	9.00	3.65	5.77
0.667	9.50	1.667	28.58	2.667	9.00	3.67	5.77
0.683	12.27	1.683	20.23	2.683	8.19	3.68	5.46
0.700	12.27	1.700	20.23	2.700	8.19	3.70	5.46
0.717	12.27	1.717	20.23	2.717	8.19	3.72	5.46
0.733	12.27	1.733	20.23	2.733	8.19	3.73	5.46
0.750	12.27	1.750	20.23	2.750	8.19	3.75	5.46
0.767	12.27	1.767	20.23	2.767	8.19	3.77	5.46
0.783	12.27	1.783	20.23	2.783	8.19	3.78	5.46
0.800	12.27	1.800	20.23	2.800	8.19	3.80	5.46
0.817	12.27	1.817	20.23	2.817	8.19	3.82	5.46
0.833	12.27	1.833	20.23	2.833	8.19	3.83	5.46
0.850	18.04	1.850	15.88	2.850	7.53	3.85	5.19
0.867	18.04	1.867	15.88	2.867	7.53	3.87	5.19
0.883	18.04	1.883	15.88	2.883	7.53	3.88	5.19
0.900	18.04	1.900	15.88	2.900	7.53	3.90	5.19
0.917	18.04	1.917	15.88	2.917	7.53	3.92	5.19
0.933	18.04	1.933	15.88	2.933	7.53	3.93	5.19
0.950	18.04	1.950	15.88	2.950	7.53	3.95	5.19
0.967	18.04	1.967	15.88	2.967	7.53	3.97	5.19
0.983	18.04	1.983	15.88	2.983	7.53	3.98	5.19
1.000	18.04	2.000	15.88	3.000	7.53	4.00	5.19

```
     Max.Eff.Inten.(mm/hr)=     164.22        53.36
               over (min)         5.00         4.00
     Storage Coeff.  (min)=       1.09 (ii)    3.49 (ii)
     Unit Hyd. Tpeak (min)=       5.00         4.00
     Unit Hyd. peak  (cms)=       0.46         0.31
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                                                    *TOTALS*
     PEAK FLOW       (cms)=       0.06         0.01          0.066 (iii)
     TIME TO PEAK    (hrs)=       1.33         1.35          1.33
     RUNOFF VOLUME    (mm)=      77.45        29.40         66.87
     TOTAL RAINFALL   (mm)=      79.45        79.45         79.45
     RUNOFF COEFFICIENT    =      0.97         0.37          0.84

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0     Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.
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| CALIB            |
| STANDHYD (  0202)|   Area    (ha)=   0.11
|ID= 1 DT= 1.0 min |   Total Imp(%)=  81.00   Dir. Conn.(%)=  81.00
--------------------
                          IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=      0.09         0.02
     Dep. Storage     (mm)=      2.00         5.00
     Average Slope     (%)=      2.00         2.00
     Length            (m)=     26.50        28.00
     Mannings n             =    0.013        0.190

     NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.93	1.017	40.22	2.017	13.20	3.02	6.98
0.033	5.93	1.033	40.22	2.033	13.20	3.03	6.98
0.050	5.93	1.050	40.22	2.050	13.20	3.05	6.98
0.067	5.93	1.067	40.22	2.067	13.20	3.07	6.98
0.083	5.93	1.083	40.22	2.083	13.20	3.08	6.98
0.100	5.93	1.100	40.22	2.100	13.20	3.10	6.98
0.117	5.93	1.117	40.22	2.117	13.20	3.12	6.98
0.133	5.93	1.133	40.22	2.133	13.20	3.13	6.98
0.150	5.93	1.150	40.22	2.150	13.20	3.15	6.98
0.167	5.93	1.167	40.22	2.167	13.20	3.17	6.98
0.183	6.74	1.183	164.22	2.183	11.37	3.18	6.51
0.200	6.74	1.200	164.22	2.200	11.37	3.20	6.51
0.217	6.74	1.217	164.22	2.217	11.37	3.22	6.51
0.233	6.74	1.233	164.22	2.233	11.37	3.23	6.51
0.250	6.74	1.250	164.22	2.250	11.37	3.25	6.51
0.267	6.74	1.267	164.22	2.267	11.37	3.27	6.51
0.283	6.74	1.283	164.22	2.283	11.37	3.28	6.51
0.300	6.74	1.300	164.22	2.300	11.37	3.30	6.51
0.317	6.74	1.317	164.22	2.317	11.37	3.32	6.51
0.333	6.74	1.333	164.22	2.333	11.37	3.33	6.51
0.350	7.85	1.350	51.92	2.350	10.03	3.35	6.11
0.367	7.85	1.367	51.92	2.367	10.03	3.37	6.11
0.383	7.85	1.383	51.92	2.383	10.03	3.38	6.11
0.400	7.85	1.400	51.92	2.400	10.03	3.40	6.11
0.417	7.85	1.417	51.92	2.417	10.03	3.42	6.11
0.433	7.85	1.433	51.92	2.433	10.03	3.43	6.11
0.450	7.85	1.450	51.92	2.450	10.03	3.45	6.11
0.467	7.85	1.467	51.92	2.467	10.03	3.47	6.11
0.483	7.85	1.483	51.92	2.483	10.03	3.48	6.11
0.500	7.85	1.500	51.92	2.500	10.03	3.50	6.11
0.517	9.50	1.517	28.58	2.517	9.00	3.52	5.77
0.533	9.50	1.533	28.58	2.533	9.00	3.53	5.77
0.550	9.50	1.550	28.58	2.550	9.00	3.55	5.77
0.567	9.50	1.567	28.58	2.567	9.00	3.57	5.77
0.583	9.50	1.583	28.58	2.583	9.00	3.58	5.77
0.600	9.50	1.600	28.58	2.600	9.00	3.60	5.77
0.617	9.50	1.617	28.58	2.617	9.00	3.62	5.77
0.633	9.50	1.633	28.58	2.633	9.00	3.63	5.77
0.650	9.50	1.650	28.58	2.650	9.00	3.65	5.77
0.667	9.50	1.667	28.58	2.667	9.00	3.67	5.77
0.683	12.27	1.683	20.23	2.683	8.19	3.68	5.46
0.700	12.27	1.700	20.23	2.700	8.19	3.70	5.46
0.717	12.27	1.717	20.23	2.717	8.19	3.72	5.46
0.733	12.27	1.733	20.23	2.733	8.19	3.73	5.46
0.750	12.27	1.750	20.23	2.750	8.19	3.75	5.46
0.767	12.27	1.767	20.23	2.767	8.19	3.77	5.46
0.783	12.27	1.783	20.23	2.783	8.19	3.78	5.46
0.800	12.27	1.800	20.23	2.800	8.19	3.80	5.46
0.817	12.27	1.817	20.23	2.817	8.19	3.82	5.46
0.833	12.27	1.833	20.23	2.833	8.19	3.83	5.46
0.850	18.04	1.850	15.88	2.850	7.53	3.85	5.19

0.867	18.04	1.867	15.88	2.867	7.53	3.87	5.19
0.883	18.04	1.883	15.88	2.883	7.53	3.88	5.19
0.900	18.04	1.900	15.88	2.900	7.53	3.90	5.19
0.917	18.04	1.917	15.88	2.917	7.53	3.92	5.19
0.933	18.04	1.933	15.88	2.933	7.53	3.93	5.19
0.950	18.04	1.950	15.88	2.950	7.53	3.95	5.19
0.967	18.04	1.967	15.88	2.967	7.53	3.97	5.19
0.983	18.04	1.983	15.88	2.983	7.53	3.98	5.19
1.000	18.04	2.000	15.88	3.000	7.53	4.00	5.19

Max.Eff.Inten.(mm/hr)=	164.22	53.36		
over (min)	5.00	3.00		
Storage Coeff. (min)=	0.77 (ii)	2.99 (ii)		
Unit Hyd. Tpeak (min)=	5.00	3.00		
Unit Hyd. peak (cms)=	0.50	0.38		
			TOTALS	
PEAK FLOW (cms)=	0.04	0.00	0.042 (iii)	
TIME TO PEAK (hrs)=	1.33	1.35	1.33	
RUNOFF VOLUME (mm)=	77.45	29.40	68.31	
TOTAL RAINFALL (mm)=	79.45	79.45	79.45	
RUNOFF COEFFICIENT =	0.97	0.37	0.86	

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):	0.17	0.066	1.33	66.87
+ ID2= 2 (0202):	0.11	0.042	1.33	68.31
ID = 3 (0010):	0.27	0.108	1.33	67.42

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	IN= 2---> OUT= 1	DT= 1.0 min	OVERFLOW IS OFF			
			OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
			0.0000	0.0000	0.0200	0.0082
			0.0010	0.0009	0.0210	0.0098
			0.0070	0.0019	0.0230	0.0115
			0.0100	0.0028	0.0240	0.0134
			0.0130	0.0038	0.0620	0.0155
			0.0150	0.0047	0.1400	0.0177
			0.0170	0.0054	0.2500	0.0200
			0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.108	1.33	67.42
OUTFLOW: ID= 1 (0012)	0.275	0.020	1.62	66.59

PEAK FLOW REDUCTION [Qout/Qin](%)= 19.00
TIME SHIFT OF PEAK FLOW (min)= 17.00
MAXIMUM STORAGE USED (ha.m.)= 0.0089

ADD HYD (0014)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.020	1.62	66.59
+ ID2= 2 (0204):	0.06	0.004	1.68	31.19
ID = 3 (0014):	0.34	0.025	1.68	59.99

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB	NASHYD (0205)	ID= 1 DT= 1.0 min				
Area	(ha)=	0.02	Curve Number	(CN)=	74.0	
Ia	(mm)=	4.56	# of Linear Res.(N)=		3.00	
U.H. Tp	(hrs)=	0.22				

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.93	1.017	40.22	2.017	13.20	3.02	6.98
0.033	5.93	1.033	40.22	2.033	13.20	3.03	6.98
0.050	5.93	1.050	40.22	2.050	13.20	3.05	6.98
0.067	5.93	1.067	40.22	2.067	13.20	3.07	6.98
0.083	5.93	1.083	40.22	2.083	13.20	3.08	6.98
0.100	5.93	1.100	40.22	2.100	13.20	3.10	6.98
0.117	5.93	1.117	40.22	2.117	13.20	3.12	6.98
0.133	5.93	1.133	40.22	2.133	13.20	3.13	6.98
0.150	5.93	1.150	40.22	2.150	13.20	3.15	6.98
0.167	5.93	1.167	40.22	2.167	13.20	3.17	6.98
0.183	6.74	1.183	164.22	2.183	11.37	3.18	6.51
0.200	6.74	1.200	164.22	2.200	11.37	3.20	6.51
0.217	6.74	1.217	164.22	2.217	11.37	3.22	6.51
0.233	6.74	1.233	164.22	2.233	11.37	3.23	6.51
0.250	6.74	1.250	164.22	2.250	11.37	3.25	6.51
0.267	6.74	1.267	164.22	2.267	11.37	3.27	6.51
0.283	6.74	1.283	164.22	2.283	11.37	3.28	6.51
0.300	6.74	1.300	164.22	2.300	11.37	3.30	6.51
0.317	6.74	1.317	164.22	2.317	11.37	3.32	6.51
0.333	6.74	1.333	164.22	2.333	11.37	3.33	6.51
0.350	7.85	1.350	51.92	2.350	10.03	3.35	6.11
0.367	7.85	1.367	51.92	2.367	10.03	3.37	6.11
0.383	7.85	1.383	51.92	2.383	10.03	3.38	6.11
0.400	7.85	1.400	51.92	2.400	10.03	3.40	6.11
0.417	7.85	1.417	51.92	2.417	10.03	3.42	6.11
0.433	7.85	1.433	51.92	2.433	10.03	3.43	6.11
0.450	7.85	1.450	51.92	2.450	10.03	3.45	6.11
0.467	7.85	1.467	51.92	2.467	10.03	3.47	6.11
0.483	7.85	1.483	51.92	2.483	10.03	3.48	6.11
0.500	7.85	1.500	51.92	2.500	10.03	3.50	6.11
0.517	9.50	1.517	28.58	2.517	9.00	3.52	5.77
0.533	9.50	1.533	28.58	2.533	9.00	3.53	5.77
0.550	9.50	1.550	28.58	2.550	9.00	3.55	5.77
0.567	9.50	1.567	28.58	2.567	9.00	3.57	5.77
0.583	9.50	1.583	28.58	2.583	9.00	3.58	5.77
0.600	9.50	1.600	28.58	2.600	9.00	3.60	5.77
0.617	9.50	1.617	28.58	2.617	9.00	3.62	5.77
0.633	9.50	1.633	28.58	2.633	9.00	3.63	5.77
0.650	9.50	1.650	28.58	2.650	9.00	3.65	5.77
0.667	9.50	1.667	28.58	2.667	9.00	3.67	5.77
0.683	12.27	1.683	20.23	2.683	8.19	3.68	5.46
0.700	12.27	1.700	20.23	2.700	8.19	3.70	5.46
0.717	12.27	1.717	20.23	2.717	8.19	3.72	5.46
0.733	12.27	1.733	20.23	2.733	8.19	3.73	5.46
0.750	12.27	1.750	20.23	2.750	8.19	3.75	5.46
0.767	12.27	1.767	20.23	2.767	8.19	3.77	5.46
0.783	12.27	1.783	20.23	2.783	8.19	3.78	5.46
0.800	12.27	1.800	20.23	2.800	8.19	3.80	5.46
0.817	12.27	1.817	20.23	2.817	8.19	3.82	5.46
0.833	12.27	1.833	20.23	2.833	8.19	3.83	5.46
0.850	18.04	1.850	15.88	2.850	7.53	3.85	5.19
0.867	18.04	1.867	15.88	2.867	7.53	3.87	5.19
0.883	18.04	1.883	15.88	2.883	7.53	3.88	5.19
0.900	18.04	1.900	15.88	2.900	7.53	3.90	5.19
0.917	18.04	1.917	15.88	2.917	7.53	3.92	5.19
0.933	18.04	1.933	15.88	2.933	7.53	3.93	5.19
0.950	18.04	1.950	15.88	2.950	7.53	3.95	5.19
0.967	18.04	1.967	15.88	2.967	7.53	3.97	5.19
0.983	18.04	1.983	15.88	2.983	7.53	3.98	5.19
1.000	18.04	2.000	15.88	3.000	7.53	4.00	5.19

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 1.567
RUNOFF VOLUME (mm)= 34.114
TOTAL RAINFALL (mm)= 79.453
RUNOFF COEFFICIENT = 0.429

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	STANDHYD (0203)	ID= 1 DT= 1.0 min				
Area	(ha)=	0.13				
Total Imp	(%)=	75.00	Dir. Conn.(%)=		75.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	5.93	1.017	40.22	2.017	13.20	3.02	6.98
0.033	5.93	1.033	40.22	2.033	13.20	3.03	6.98
0.050	5.93	1.050	40.22	2.050	13.20	3.05	6.98
0.067	5.93	1.067	40.22	2.067	13.20	3.07	6.98
0.083	5.93	1.083	40.22	2.083	13.20	3.08	6.98
0.100	5.93	1.100	40.22	2.100	13.20	3.10	6.98
0.117	5.93	1.117	40.22	2.117	13.20	3.12	6.98
0.133	5.93	1.133	40.22	2.133	13.20	3.13	6.98
0.150	5.93	1.150	40.22	2.150	13.20	3.15	6.98
0.167	5.93	1.167	40.22	2.167	13.20	3.17	6.98
0.183	6.74	1.183	164.22	2.183	11.37	3.18	6.51
0.200	6.74	1.200	164.22	2.200	11.37	3.20	6.51
0.217	6.74	1.217	164.22	2.217	11.37	3.22	6.51
0.233	6.74	1.233	164.22	2.233	11.37	3.23	6.51
0.250	6.74	1.250	164.22	2.250	11.37	3.25	6.51
0.267	6.74	1.267	164.22	2.267	11.37	3.27	6.51
0.283	6.74	1.283	164.22	2.283	11.37	3.28	6.51
0.300	6.74	1.300	164.22	2.300	11.37	3.30	6.51
0.317	6.74	1.317	164.22	2.317	11.37	3.32	6.51
0.333	6.74	1.333	164.22	2.333	11.37	3.33	6.51
0.350	7.85	1.350	51.92	2.350	10.03	3.35	6.11
0.367	7.85	1.367	51.92	2.367	10.03	3.37	6.11
0.383	7.85	1.383	51.92	2.383	10.03	3.38	6.11
0.400	7.85	1.400	51.92	2.400	10.03	3.40	6.11
0.417	7.85	1.417	51.92	2.417	10.03	3.42	6.11
0.433	7.85	1.433	51.92	2.433	10.03	3.43	6.11
0.450	7.85	1.450	51.92	2.450	10.03	3.45	6.11
0.467	7.85	1.467	51.92	2.467	10.03	3.47	6.11
0.483	7.85	1.483	51.92	2.483	10.03	3.48	6.11
0.500	7.85	1.500	51.92	2.500	10.03	3.50	6.11
0.517	9.50	1.517	28.58	2.517	9.00	3.52	5.77
0.533	9.50	1.533	28.58	2.533	9.00	3.53	5.77
0.550	9.50	1.550	28.58	2.550	9.00	3.55	5.77
0.567	9.50	1.567	28.58	2.567	9.00	3.57	5.77
0.583	9.50	1.583	28.58	2.583	9.00	3.58	5.77
0.600	9.50	1.600	28.58	2.600	9.00	3.60	5.77
0.617	9.50	1.617	28.58	2.617	9.00	3.62	5.77
0.633	9.50	1.633	28.58	2.633	9.00	3.63	5.77
0.650	9.50	1.650	28.58	2.650	9.00	3.65	5.77
0.667	9.50	1.667	28.58	2.667	9.00	3.67	5.77
0.683	12.27	1.683	20.23	2.683	8.19	3.68	5.46
0.700	12.27	1.700	20.23	2.700	8.19	3.70	5.46
0.717	12.27	1.717	20.23	2.717	8.19	3.72	5.46
0.733	12.27	1.733	20.23	2.733	8.19	3.73	5.46
0.750	12.27	1.750	20.23	2.750	8.19	3.75	5.46
0.767	12.27	1.767	20.23	2.767	8.19	3.77	5.46
0.783	12.27	1.783	20.23	2.783	8.19	3.78	5.46
0.800	12.27	1.800	20.23	2.800	8.19	3.80	5.46
0.817	12.27	1.817	20.23	2.817	8.19	3.82	5.46
0.833	12.27	1.833	20.23	2.833	8.19	3.83	5.46
0.850	18.04	1.850	15.88	2.850	7.53	3.85	5.19
0.867	18.04	1.867	15.88	2.867	7.53	3.87	5.19
0.883	18.04	1.883	15.88	2.883	7.53	3.88	5.19
0.900	18.04	1.900	15.88	2.900	7.53	3.90	5.19
0.917	18.04	1.917	15.88	2.917	7.53	3.92	5.19
0.933	18.04	1.933	15.88	2.933	7.53	3.93	5.19
0.950	18.04	1.950	15.88	2.950	7.53	3.95	5.19
0.967	18.04	1.967	15.88	2.967	7.53	3.97	5.19
0.983	18.04	1.983	15.88	2.983	7.53	3.98	5.19
1.000	18.04	2.000	15.88	3.000	7.53	4.00	5.19

Max.Eff.Inten.	(mm/hr)=	164.22	53.36	
over	(min)	5.00	3.00	
Storage Coeff.	(min)=	0.82 (ii)	2.03 (ii)	
Unit Hyd. Tpeak	(min)=	5.00	3.00	
Unit Hyd. peak	(cms)=	0.50	0.48	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.01	0.051 (iii)
TIME TO PEAK	(hrs)=	1.33	1.33	1.33
RUNOFF VOLUME	(mm)=	77.45	29.40	65.43
TOTAL RAINFALL	(mm)=	79.45	79.45	79.45
RUNOFF COEFFICIENT	=	0.97	0.37	0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) | IN= 2---> OUT= 1 | DT= 1.0 min	OVERFLOW IS OFF			
OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)	
0.0000	0.0000	0.0160	0.0036	
0.0010	0.0004	0.0170	0.0043	
0.0060	0.0009	0.0180	0.0051	
0.0080	0.0013	0.0560	0.0059	
0.0100	0.0017	0.1330	0.0068	
0.0120	0.0022	0.2430	0.0078	
0.0130	0.0025	0.3860	0.0089	
0.0140	0.0030	0.0000	0.0000	

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.051	1.33	65.43
OUTFLOW: ID= 1 (0015)	0.133	0.015	1.53	64.68

PEAK FLOW REDUCTION [Qout/Qin](%)= 29.92
TIME SHIFT OF PEAK FLOW (min)= 12.00
MAXIMUM STORAGE USED (ha.m.)= 0.0034

ADD HYD (0007)| 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.015	1.53	64.68
+ ID2= 2 (0205):	0.02	0.002	1.57	34.11
ID = 3 (0007):	0.16	0.017	1.55	60.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\f0d2d2da-e3
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\f0d2d2da-e3

DATE: 04-17-2023 TIME: 01:25:49

USER:

COMMENTS: _____

****
** SIMULATION : G) 100 yr 4hr 10min Chicago **

****

CHICAGO STORM	Ptotal= 87.58 mm

IDF curve parameters: A=1426.408
B= 5.273
C= 0.759
used in: INTENSITY = A / (t + B)^C

Duration of storm = 4.00 hrs
Storm time step = 10.00 min
Time to peak ratio = 0.33

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.17	6.41	1.17	45.22	2.17	14.50	3.17	7.56
0.33	7.29	1.33	180.15	2.33	12.44	3.33	7.04
0.50	8.52	1.50	58.54	2.50	10.94	3.50	6.60
0.67	10.36	1.67	31.96	2.67	9.80	3.67	6.22
0.83	13.45	1.83	22.45	2.83	8.90	3.83	5.89
1.00	19.96	2.00	17.52	3.00	8.16	4.00	5.59

CALIB	NASHYD (0204)	ID= 1 DT= 1.0 min

Area (ha)= 0.06 Curve Number (CN)= 71.0
Ia (mm)= 4.85 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.31

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89
0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89
0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.005 (i)
TIME TO PEAK (hrs)= 1.683
RUNOFF VOLUME (mm)= 36.686
TOTAL RAINFALL (mm)= 87.580
RUNOFF COEFFICIENT = 0.419

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	STANDHYD (0201)	ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89

0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89
0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Max.Eff.Inten.(mm/hr)=	180.15	63.60	
over (min)	5.00	4.00	
Storage Coeff. (min)=	1.05 (ii)	3.37 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.47	0.32	
			TOTALS
PEAK FLOW (cms)=	0.07	0.01	0.073 (iii)
TIME TO PEAK (hrs)=	1.33	1.35	1.33
RUNOFF VOLUME (mm)=	85.58	34.67	74.37
TOTAL RAINFALL (mm)=	87.58	87.58	87.58
RUNOFF COEFFICIENT =	0.98	0.40	0.85

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202)
ID= 1 DT= 1.0 min

Area (ha)= 0.11
Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89
0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89
0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Max.Eff.Inten.(mm/hr)=	180.15	63.60	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.74 (ii)	2.88 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.51	0.39	
			TOTALS
PEAK FLOW (cms)=	0.04	0.00	0.046 (iii)
TIME TO PEAK (hrs)=	1.33	1.35	1.33
RUNOFF VOLUME (mm)=	85.58	34.67	75.90
TOTAL RAINFALL (mm)=	87.58	87.58	87.58
RUNOFF COEFFICIENT =	0.98	0.40	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)
1 + 2 = 3

		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):		0.17	0.073	1.33	74.37
+ ID2= 2 (0202):		0.11	0.046	1.33	75.90
ID = 3 (0010):		0.27	0.119	1.33	74.95

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)
IN= 2---> OUT= 1
DT= 1.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0200	0.0082
0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.119	1.33	74.95
OUTFLOW: ID= 1 (0012)	0.275	0.021	1.70	74.13

PEAK FLOW REDUCTION [Qout/Qin](%)= 17.98
TIME SHIFT OF PEAK FLOW (min)= 22.00
MAXIMUM STORAGE USED (ha.m.)= 0.0101

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.021	1.70	74.13
+ ID2= 2 (0204):		0.06	0.005	1.68	36.69
ID = 3 (0014):		0.34	0.027	1.68	67.15

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB					
NASHYD (0205)	Area	(ha)=	0.02	Curve Number	(CN)= 74.0
ID= 1 DT= 1.0 min	Ia	(mm)=	4.56	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=		0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89
0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89
0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 1.567
RUNOFF VOLUME (mm)= 39.950
TOTAL RAINFALL (mm)= 87.580
RUNOFF COEFFICIENT = 0.456

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB					
STANDHYD (0203)	Area	(ha)=	0.13		
ID= 1 DT= 1.0 min	Total Imp(%)=		75.00	Dir. Conn.(%)=	75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.41	1.017	45.22	2.017	14.50	3.02	7.56
0.033	6.41	1.033	45.22	2.033	14.50	3.03	7.56
0.050	6.41	1.050	45.22	2.050	14.50	3.05	7.56
0.067	6.41	1.067	45.22	2.067	14.50	3.07	7.56
0.083	6.41	1.083	45.22	2.083	14.50	3.08	7.56
0.100	6.41	1.100	45.22	2.100	14.50	3.10	7.56
0.117	6.41	1.117	45.22	2.117	14.50	3.12	7.56
0.133	6.41	1.133	45.22	2.133	14.50	3.13	7.56
0.150	6.41	1.150	45.22	2.150	14.50	3.15	7.56
0.167	6.41	1.167	45.22	2.167	14.50	3.17	7.56
0.183	7.29	1.183	180.15	2.183	12.44	3.18	7.04
0.200	7.29	1.200	180.15	2.200	12.44	3.20	7.04
0.217	7.29	1.217	180.15	2.217	12.44	3.22	7.04
0.233	7.29	1.233	180.15	2.233	12.44	3.23	7.04
0.250	7.29	1.250	180.15	2.250	12.44	3.25	7.04
0.267	7.29	1.267	180.15	2.267	12.44	3.27	7.04
0.283	7.29	1.283	180.15	2.283	12.44	3.28	7.04
0.300	7.29	1.300	180.15	2.300	12.44	3.30	7.04
0.317	7.29	1.317	180.15	2.317	12.44	3.32	7.04
0.333	7.29	1.333	180.15	2.333	12.44	3.33	7.04
0.350	8.52	1.350	58.55	2.350	10.94	3.35	6.60
0.367	8.52	1.367	58.54	2.367	10.94	3.37	6.60
0.383	8.52	1.383	58.54	2.383	10.94	3.38	6.60
0.400	8.52	1.400	58.54	2.400	10.94	3.40	6.60
0.417	8.52	1.417	58.54	2.417	10.94	3.42	6.60
0.433	8.52	1.433	58.54	2.433	10.94	3.43	6.60
0.450	8.52	1.450	58.54	2.450	10.94	3.45	6.60
0.467	8.52	1.467	58.54	2.467	10.94	3.47	6.60
0.483	8.52	1.483	58.54	2.483	10.94	3.48	6.60
0.500	8.52	1.500	58.54	2.500	10.94	3.50	6.60
0.517	10.36	1.517	31.96	2.517	9.80	3.52	6.22
0.533	10.36	1.533	31.96	2.533	9.80	3.53	6.22
0.550	10.36	1.550	31.96	2.550	9.80	3.55	6.22
0.567	10.36	1.567	31.96	2.567	9.80	3.57	6.22
0.583	10.36	1.583	31.96	2.583	9.80	3.58	6.22
0.600	10.36	1.600	31.96	2.600	9.80	3.60	6.22
0.617	10.36	1.617	31.96	2.617	9.80	3.62	6.22
0.633	10.36	1.633	31.96	2.633	9.80	3.63	6.22
0.650	10.36	1.650	31.96	2.650	9.80	3.65	6.22
0.667	10.36	1.667	31.96	2.667	9.80	3.67	6.22
0.683	13.45	1.683	22.45	2.683	8.90	3.68	5.89
0.700	13.45	1.700	22.45	2.700	8.90	3.70	5.89
0.717	13.45	1.717	22.45	2.717	8.90	3.72	5.89
0.733	13.45	1.733	22.45	2.733	8.90	3.73	5.89
0.750	13.45	1.750	22.45	2.750	8.90	3.75	5.89
0.767	13.45	1.767	22.45	2.767	8.90	3.77	5.89
0.783	13.45	1.783	22.45	2.783	8.90	3.78	5.89
0.800	13.45	1.800	22.45	2.800	8.90	3.80	5.89

0.817	13.45	1.817	22.45	2.817	8.90	3.82	5.89
0.833	13.45	1.833	22.45	2.833	8.90	3.83	5.89
0.850	19.96	1.850	17.52	2.850	8.16	3.85	5.59
0.867	19.96	1.867	17.52	2.867	8.16	3.87	5.59
0.883	19.96	1.883	17.52	2.883	8.16	3.88	5.59
0.900	19.96	1.900	17.52	2.900	8.16	3.90	5.59
0.917	19.96	1.917	17.52	2.917	8.16	3.92	5.59
0.933	19.96	1.933	17.52	2.933	8.16	3.93	5.59
0.950	19.96	1.950	17.52	2.950	8.16	3.95	5.59
0.967	19.96	1.967	17.52	2.967	8.16	3.97	5.59
0.983	19.96	1.983	17.52	2.983	8.16	3.98	5.59
1.000	19.96	2.000	17.52	3.000	8.16	4.00	5.59

Max.Eff.Inten.(mm/hr)=	180.15	63.60		
over (min)	5.00	2.00		
Storage Coeff. (min)=	0.79 (ii)	1.95 (ii)		
Unit Hyd. Tpeak (min)=	5.00	2.00		
Unit Hyd. peak (cms)=	0.50	0.57		
			TOTALS	
PEAK FLOW (cms)=	0.05	0.01	0.057 (iii)	
TIME TO PEAK (hrs)=	1.33	1.33	1.33	
RUNOFF VOLUME (mm)=	85.58	34.67	72.85	
TOTAL RAINFALL (mm)=	87.58	87.58	87.58	
RUNOFF COEFFICIENT =	0.98	0.40	0.83	

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)|	IN= 2---> OUT= 1		DT= 1.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.057	1.33	72.85
OUTFLOW: ID= 1 (0015)	0.133	0.016	1.55	72.09

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.68
TIME SHIFT OF PEAK FLOW (min)= 13.00
MAXIMUM STORAGE USED (ha.m.)= 0.0039

ADD HYD (0007)|	1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.016	1.55	72.09
+ ID2= 2 (0205):	0.02	0.002	1.57	39.95
ID = 3 (0007):	0.16	0.019	1.55	67.54

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

FINISH

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V V I SSSSS U U A L (v 6.1.2002)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O

O O T T H H Y M M O O
OOO T T H H Y M M OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\5036685c-cf
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\5036685c-cf

DATE: 04-17-2023 TIME: 01:25:44

USER:

COMMENTS: _____

** SIMULATION : H) 2 yr 6hr 15min Chicago **

READ STORM	Ptotal= 40.60 mm	Filename: C:\Users\cgagnon\AppD ata\Local\Temp\ 5c5ec430-821e-4636-8c82-03edb318c07e\26a78f48 Comments: 2yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	4.06	3.75	8.93	5.50	1.62
0.50	1.62	2.25	4.06	4.00	4.06	5.75	1.62
0.75	1.62	2.50	4.87	4.25	4.06	6.00	1.62
1.00	2.44	2.75	4.87	4.50	3.25	6.25	1.62
1.25	2.44	3.00	24.36	4.75	3.25		
1.50	2.44	3.25	63.34	5.00	2.44		
1.75	2.44	3.50	8.93	5.25	2.44		

CALIB	NASHYD (0204)	ID= 1 DT= 1.0 min

Area (ha)= 0.06 Curve Number (CN)= 71.0
Ia (mm)= 4.85 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.31

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	2.44	3.150	63.34	4.72	3.25
0.033	0.00	1.600	2.44	3.167	63.34	4.73	3.25
0.050	0.00	1.617	2.44	3.183	63.34	4.75	3.25
0.067	0.00	1.633	2.44	3.200	63.34	4.77	2.44
0.083	0.00	1.650	2.44	3.217	63.34	4.78	2.44
0.100	0.00	1.667	2.44	3.233	63.34	4.80	2.44
0.117	0.00	1.683	2.44	3.250	63.34	4.82	2.44
0.133	0.00	1.700	2.44	3.267	8.94	4.83	2.44
0.150	0.00	1.717	2.44	3.283	8.93	4.85	2.44
0.167	0.00	1.733	2.44	3.300	8.93	4.87	2.44
0.183	0.00	1.750	2.44	3.317	8.93	4.88	2.44
0.200	0.00	1.767	4.06	3.333	8.93	4.90	2.44
0.217	0.00	1.783	4.06	3.350	8.93	4.92	2.44
0.233	0.00	1.800	4.06	3.367	8.93	4.93	2.44
0.250	0.00	1.817	4.06	3.383	8.93	4.95	2.44
0.267	1.62	1.833	4.06	3.400	8.93	4.97	2.44
0.283	1.62	1.850	4.06	3.417	8.93	4.98	2.44
0.300	1.62	1.867	4.06	3.433	8.93	5.00	2.44
0.317	1.62	1.883	4.06	3.450	8.93	5.02	2.44
0.333	1.62	1.900	4.06	3.467	8.93	5.03	2.44
0.350	1.62	1.917	4.06	3.483	8.93	5.05	2.44
0.367	1.62	1.933	4.06	3.500	8.93	5.07	2.44
0.383	1.62	1.950	4.06	3.517	8.93	5.08	2.44
0.400	1.62	1.967	4.06	3.533	8.93	5.10	2.44

0.417	1.62	1.983	4.06	3.550	8.93	5.12	2.44
0.433	1.62	2.000	4.06	3.567	8.93	5.13	2.44
0.450	1.62	2.017	4.06	3.583	8.93	5.15	2.44
0.467	1.62	2.033	4.06	3.600	8.93	5.17	2.44
0.483	1.62	2.050	4.06	3.617	8.93	5.18	2.44
0.500	1.62	2.067	4.06	3.633	8.93	5.20	2.44
0.517	1.62	2.083	4.06	3.650	8.93	5.22	2.44
0.533	1.62	2.100	4.06	3.667	8.93	5.23	2.44
0.550	1.62	2.117	4.06	3.683	8.93	5.25	2.44
0.567	1.62	2.133	4.06	3.700	8.93	5.27	1.62
0.583	1.62	2.150	4.06	3.717	8.93	5.28	1.62
0.600	1.62	2.167	4.06	3.733	8.93	5.30	1.62
0.617	1.62	2.183	4.06	3.750	8.93	5.32	1.62
0.633	1.62	2.200	4.06	3.767	4.06	5.33	1.62
0.650	1.62	2.217	4.06	3.783	4.06	5.35	1.62
0.667	1.62	2.233	4.06	3.800	4.06	5.37	1.62
0.683	1.62	2.250	4.06	3.817	4.06	5.38	1.62
0.700	1.62	2.267	4.87	3.833	4.06	5.40	1.62
0.717	1.62	2.283	4.87	3.850	4.06	5.42	1.62
0.733	1.62	2.300	4.87	3.867	4.06	5.43	1.62
0.750	1.62	2.317	4.87	3.883	4.06	5.45	1.62
0.767	2.44	2.333	4.87	3.900	4.06	5.47	1.62
0.783	2.44	2.350	4.87	3.917	4.06	5.48	1.62
0.800	2.44	2.367	4.87	3.933	4.06	5.50	1.62
0.817	2.44	2.383	4.87	3.950	4.06	5.52	1.62
0.833	2.44	2.400	4.87	3.967	4.06	5.53	1.62
0.850	2.44	2.417	4.87	3.983	4.06	5.55	1.62
0.867	2.44	2.433	4.87	4.000	4.06	5.57	1.62
0.883	2.44	2.450	4.87	4.017	4.06	5.58	1.62
0.900	2.44	2.467	4.87	4.033	4.06	5.60	1.62
0.917	2.44	2.483	4.87	4.050	4.06	5.62	1.62
0.933	2.44	2.500	4.87	4.067	4.06	5.63	1.62
0.950	2.44	2.517	4.87	4.083	4.06	5.65	1.62
0.967	2.44	2.533	4.87	4.100	4.06	5.67	1.62
0.983	2.44	2.550	4.87	4.117	4.06	5.68	1.62
1.000	2.44	2.567	4.87	4.133	4.06	5.70	1.62
1.017	2.44	2.583	4.87	4.150	4.06	5.72	1.62
1.033	2.44	2.600	4.87	4.167	4.06	5.73	1.62
1.050	2.44	2.617	4.87	4.183	4.06	5.75	1.62
1.067	2.44	2.633	4.87	4.200	4.06	5.77	1.62
1.083	2.44	2.650	4.87	4.217	4.06	5.78	1.62
1.100	2.44	2.667	4.87	4.233	4.06	5.80	1.62
1.117	2.44	2.683	4.87	4.250	4.06	5.82	1.62
1.133	2.44	2.700	4.87	4.267	3.25	5.83	1.62
1.150	2.44	2.717	4.87	4.283	3.25	5.85	1.62
1.167	2.44	2.733	4.87	4.300	3.25	5.87	1.62
1.183	2.44	2.750	4.87	4.317	3.25	5.88	1.62
1.200	2.44	2.767	24.36	4.333	3.25	5.90	1.62
1.217	2.44	2.783	24.36	4.350	3.25	5.92	1.62
1.233	2.44	2.800	24.36	4.367	3.25	5.93	1.62
1.250	2.44	2.817	24.36	4.383	3.25	5.95	1.62
1.267	2.44	2.833	24.36	4.400	3.25	5.97	1.62
1.283	2.44	2.850	24.36	4.417	3.25	5.98	1.62
1.300	2.44	2.867	24.36	4.433	3.25	6.00	1.62
1.317	2.44	2.883	24.36	4.450	3.25	6.02	1.62
1.333	2.44	2.900	24.36	4.467	3.25	6.03	1.62
1.350	2.44	2.917	24.36	4.483	3.25	6.05	1.62
1.367	2.44	2.933	24.36	4.500	3.25	6.07	1.62
1.383	2.44	2.950	24.36	4.517	3.25	6.08	1.62
1.400	2.44	2.967	24.36	4.533	3.25	6.10	1.62
1.417	2.44	2.983	24.36	4.550	3.25	6.12	1.62
1.433	2.44	3.000	24.36	4.567	3.25	6.13	1.62
1.450	2.44	3.017	63.33	4.583	3.25	6.15	1.62
1.467	2.44	3.033	63.34	4.600	3.25	6.17	1.62
1.483	2.44	3.050	63.34	4.617	3.25	6.18	1.62
1.500	2.44	3.067	63.34	4.633	3.25	6.20	1.62
1.517	2.44	3.083	63.34	4.650	3.25	6.22	1.62
1.533	2.44	3.100	63.34	4.667	3.25	6.23	1.62
1.550	2.44	3.117	63.34	4.683	3.25	6.25	1.62
1.567	2.44	3.133	63.34	4.700	3.25		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 3.483
RUNOFF VOLUME (mm)= 9.146
TOTAL RAINFALL (mm)= 40.600
RUNOFF COEFFICIENT = 0.225

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB

STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	2.44	3.150	63.34	4.72	3.25
0.033	0.00	1.600	2.44	3.167	63.34	4.73	3.25
0.050	0.00	1.617	2.44	3.183	63.34	4.75	3.25
0.067	0.00	1.633	2.44	3.200	63.34	4.77	2.44
0.083	0.00	1.650	2.44	3.217	63.34	4.78	2.44
0.100	0.00	1.667	2.44	3.233	63.34	4.80	2.44
0.117	0.00	1.683	2.44	3.250	63.34	4.82	2.44
0.133	0.00	1.700	2.44	3.267	8.94	4.83	2.44
0.150	0.00	1.717	2.44	3.283	8.93	4.85	2.44
0.167	0.00	1.733	2.44	3.300	8.93	4.87	2.44
0.183	0.00	1.750	2.44	3.317	8.93	4.88	2.44
0.200	0.00	1.767	4.06	3.333	8.93	4.90	2.44
0.217	0.00	1.783	4.06	3.350	8.93	4.92	2.44
0.233	0.00	1.800	4.06	3.367	8.93	4.93	2.44
0.250	0.00	1.817	4.06	3.383	8.93	4.95	2.44
0.267	1.62	1.833	4.06	3.400	8.93	4.97	2.44
0.283	1.62	1.850	4.06	3.417	8.93	4.98	2.44
0.300	1.62	1.867	4.06	3.433	8.93	5.00	2.44
0.317	1.62	1.883	4.06	3.450	8.93	5.02	2.44
0.333	1.62	1.900	4.06	3.467	8.93	5.03	2.44
0.350	1.62	1.917	4.06	3.483	8.93	5.05	2.44
0.367	1.62	1.933	4.06	3.500	8.93	5.07	2.44
0.383	1.62	1.950	4.06	3.517	8.93	5.08	2.44
0.400	1.62	1.967	4.06	3.533	8.93	5.10	2.44
0.417	1.62	1.983	4.06	3.550	8.93	5.12	2.44
0.433	1.62	2.000	4.06	3.567	8.93	5.13	2.44
0.450	1.62	2.017	4.06	3.583	8.93	5.15	2.44
0.467	1.62	2.033	4.06	3.600	8.93	5.17	2.44
0.483	1.62	2.050	4.06	3.617	8.93	5.18	2.44
0.500	1.62	2.067	4.06	3.633	8.93	5.20	2.44
0.517	1.62	2.083	4.06	3.650	8.93	5.22	2.44
0.533	1.62	2.100	4.06	3.667	8.93	5.23	2.44
0.550	1.62	2.117	4.06	3.683	8.93	5.25	2.44
0.567	1.62	2.133	4.06	3.700	8.93	5.27	1.62
0.583	1.62	2.150	4.06	3.717	8.93	5.28	1.62
0.600	1.62	2.167	4.06	3.733	8.93	5.30	1.62
0.617	1.62	2.183	4.06	3.750	8.93	5.32	1.62
0.633	1.62	2.200	4.06	3.767	4.06	5.33	1.62
0.650	1.62	2.217	4.06	3.783	4.06	5.35	1.62
0.667	1.62	2.233	4.06	3.800	4.06	5.37	1.62
0.683	1.62	2.250	4.06	3.817	4.06	5.38	1.62
0.700	1.62	2.267	4.87	3.833	4.06	5.40	1.62
0.717	1.62	2.283	4.87	3.850	4.06	5.42	1.62
0.733	1.62	2.300	4.87	3.867	4.06	5.43	1.62
0.750	1.62	2.317	4.87	3.883	4.06	5.45	1.62
0.767	2.44	2.333	4.87	3.900	4.06	5.47	1.62
0.783	2.44	2.350	4.87	3.917	4.06	5.48	1.62
0.800	2.44	2.367	4.87	3.933	4.06	5.50	1.62
0.817	2.44	2.383	4.87	3.950	4.06	5.52	1.62
0.833	2.44	2.400	4.87	3.967	4.06	5.53	1.62
0.850	2.44	2.417	4.87	3.983	4.06	5.55	1.62
0.867	2.44	2.433	4.87	4.000	4.06	5.57	1.62
0.883	2.44	2.450	4.87	4.017	4.06	5.58	1.62
0.900	2.44	2.467	4.87	4.033	4.06	5.60	1.62
0.917	2.44	2.483	4.87	4.050	4.06	5.62	1.62
0.933	2.44	2.500	4.87	4.067	4.06	5.63	1.62
0.950	2.44	2.517	4.87	4.083	4.06	5.65	1.62
0.967	2.44	2.533	4.87	4.100	4.06	5.67	1.62
0.983	2.44	2.550	4.87	4.117	4.06	5.68	1.62
1.000	2.44	2.567	4.87	4.133	4.06	5.70	1.62
1.017	2.44	2.583	4.87	4.150	4.06	5.72	1.62
1.033	2.44	2.600	4.87	4.167	4.06	5.73	1.62
1.050	2.44	2.617	4.87	4.183	4.06	5.75	1.62
1.067	2.44	2.633	4.87	4.200	4.06	5.77	1.62
1.083	2.44	2.650	4.87	4.217	4.06	5.78	1.62
1.100	2.44	2.667	4.87	4.233	4.06	5.80	1.62
1.117	2.44	2.683	4.87	4.250	4.06	5.82	1.62
1.133	2.44	2.700	4.87	4.267	3.25	5.83	1.62

1.150	2.44	2.717	4.87	4.283	3.25	5.85	1.62
1.167	2.44	2.733	4.87	4.300	3.25	5.87	1.62
1.183	2.44	2.750	4.87	4.317	3.25	5.88	1.62
1.200	2.44	2.767	24.36	4.333	3.25	5.90	1.62
1.217	2.44	2.783	24.36	4.350	3.25	5.92	1.62
1.233	2.44	2.800	24.36	4.367	3.25	5.93	1.62
1.250	2.44	2.817	24.36	4.383	3.25	5.95	1.62
1.267	2.44	2.833	24.36	4.400	3.25	5.97	1.62
1.283	2.44	2.850	24.36	4.417	3.25	5.98	1.62
1.300	2.44	2.867	24.36	4.433	3.25	6.00	1.62
1.317	2.44	2.883	24.36	4.450	3.25	6.02	1.62
1.333	2.44	2.900	24.36	4.467	3.25	6.03	1.62
1.350	2.44	2.917	24.36	4.483	3.25	6.05	1.62
1.367	2.44	2.933	24.36	4.500	3.25	6.07	1.62
1.383	2.44	2.950	24.36	4.517	3.25	6.08	1.62
1.400	2.44	2.967	24.36	4.533	3.25	6.10	1.62
1.417	2.44	2.983	24.36	4.550	3.25	6.12	1.62
1.433	2.44	3.000	24.36	4.567	3.25	6.13	1.62
1.450	2.44	3.017	63.33	4.583	3.25	6.15	1.62
1.467	2.44	3.033	63.34	4.600	3.25	6.17	1.62
1.483	2.44	3.050	63.34	4.617	3.25	6.18	1.62
1.500	2.44	3.067	63.34	4.633	3.25	6.20	1.62
1.517	2.44	3.083	63.34	4.650	3.25	6.22	1.62
1.533	2.44	3.100	63.34	4.667	3.25	6.23	1.62
1.550	2.44	3.117	63.34	4.683	3.25	6.25	1.62
1.567	2.44	3.133	63.34	4.700	3.25		

				TOTALS
Max.Eff.Inten.(mm/hr)=		63.34	16.97	
over (min)		5.00	6.00	
Storage Coeff. (min)=		1.59 (ii)	5.11 (ii)	
Unit Hyd. Tpeak (min)=		5.00	6.00	
Unit Hyd. peak (cms)=		0.41	0.21	
PEAK FLOW	(cms)=	0.02	0.00	0.025 (iii)
TIME TO PEAK	(hrs)=	3.25	3.28	3.25
RUNOFF VOLUME	(mm)=	38.60	8.47	31.96
TOTAL RAINFALL	(mm)=	40.60	40.60	40.60
RUNOFF COEFFICIENT	=	0.95	0.21	0.79

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	2.44	3.150	63.34	4.72	3.25
0.033	0.00	1.600	2.44	3.167	63.34	4.73	3.25
0.050	0.00	1.617	2.44	3.183	63.34	4.75	3.25
0.067	0.00	1.633	2.44	3.200	63.34	4.77	2.44
0.083	0.00	1.650	2.44	3.217	63.34	4.78	2.44
0.100	0.00	1.667	2.44	3.233	63.34	4.80	2.44
0.117	0.00	1.683	2.44	3.250	63.34	4.82	2.44
0.133	0.00	1.700	2.44	3.267	8.94	4.83	2.44
0.150	0.00	1.717	2.44	3.283	8.93	4.85	2.44
0.167	0.00	1.733	2.44	3.300	8.93	4.87	2.44
0.183	0.00	1.750	2.44	3.317	8.93	4.88	2.44
0.200	0.00	1.767	4.06	3.333	8.93	4.90	2.44
0.217	0.00	1.783	4.06	3.350	8.93	4.92	2.44
0.233	0.00	1.800	4.06	3.367	8.93	4.93	2.44
0.250	0.00	1.817	4.06	3.383	8.93	4.95	2.44
0.267	1.62	1.833	4.06	3.400	8.93	4.97	2.44
0.283	1.62	1.850	4.06	3.417	8.93	4.98	2.44
0.300	1.62	1.867	4.06	3.433	8.93	5.00	2.44
0.317	1.62	1.883	4.06	3.450	8.93	5.02	2.44
0.333	1.62	1.900	4.06	3.467	8.93	5.03	2.44
0.350	1.62	1.917	4.06	3.483	8.93	5.05	2.44
0.367	1.62	1.933	4.06	3.500	8.93	5.07	2.44
0.383	1.62	1.950	4.06	3.517	8.93	5.08	2.44
0.400	1.62	1.967	4.06	3.533	8.93	5.10	2.44
0.417	1.62	1.983	4.06	3.550	8.93	5.12	2.44
0.433	1.62	2.000	4.06	3.567	8.93	5.13	2.44
0.450	1.62	2.017	4.06	3.583	8.93	5.15	2.44
0.467	1.62	2.033	4.06	3.600	8.93	5.17	2.44
0.483	1.62	2.050	4.06	3.617	8.93	5.18	2.44
0.500	1.62	2.067	4.06	3.633	8.93	5.20	2.44
0.517	1.62	2.083	4.06	3.650	8.93	5.22	2.44
0.533	1.62	2.100	4.06	3.667	8.93	5.23	2.44
0.550	1.62	2.117	4.06	3.683	8.93	5.25	2.44
0.567	1.62	2.133	4.06	3.700	8.93	5.27	1.62
0.583	1.62	2.150	4.06	3.717	8.93	5.28	1.62
0.600	1.62	2.167	4.06	3.733	8.93	5.30	1.62
0.617	1.62	2.183	4.06	3.750	8.93	5.32	1.62
0.633	1.62	2.200	4.06	3.767	4.06	5.33	1.62
0.650	1.62	2.217	4.06	3.783	4.06	5.35	1.62
0.667	1.62	2.233	4.06	3.800	4.06	5.37	1.62
0.683	1.62	2.250	4.06	3.817	4.06	5.38	1.62
0.700	1.62	2.267	4.87	3.833	4.06	5.40	1.62
0.717	1.62	2.283	4.87	3.850	4.06	5.42	1.62
0.733	1.62	2.300	4.87	3.867	4.06	5.43	1.62
0.750	1.62	2.317	4.87	3.883	4.06	5.45	1.62
0.767	2.44	2.333	4.87	3.900	4.06	5.47	1.62
0.783	2.44	2.350	4.87	3.917	4.06	5.48	1.62
0.800	2.44	2.367	4.87	3.933	4.06	5.50	1.62
0.817	2.44	2.383	4.87	3.950	4.06	5.52	1.62
0.833	2.44	2.400	4.87	3.967	4.06	5.53	1.62
0.850	2.44	2.417	4.87	3.983	4.06	5.55	1.62
0.867	2.44	2.433	4.87	4.000	4.06	5.57	1.62
0.883	2.44	2.450	4.87	4.017	4.06	5.58	1.62
0.900	2.44	2.467	4.87	4.033	4.06	5.60	1.62
0.917	2.44	2.483	4.87	4.050	4.06	5.62	1.62
0.933	2.44	2.500	4.87	4.067	4.06	5.63	1.62
0.950	2.44	2.517	4.87	4.083	4.06	5.65	1.62
0.967	2.44	2.533	4.87	4.100	4.06	5.67	1.62
0.983	2.44	2.550	4.87	4.117	4.06	5.68	1.62
1.000	2.44	2.567	4.87	4.133	4.06	5.70	1.62
1.017	2.44	2.583	4.87	4.150	4.06	5.72	1.62
1.033	2.44	2.600	4.87	4.167	4.06	5.73	1.62
1.050	2.44	2.617	4.87	4.183	4.06	5.75	1.62
1.067	2.44	2.633	4.87	4.200	4.06	5.77	1.62
1.083	2.44	2.650	4.87	4.217	4.06	5.78	1.62
1.100	2.44	2.667	4.87	4.233	4.06	5.80	1.62
1.117	2.44	2.683	4.87	4.250	4.06	5.82	1.62
1.133	2.44	2.700	4.87	4.267	3.25	5.83	1.62
1.150	2.44	2.717	4.87	4.283	3.25	5.85	1.62
1.167	2.44	2.733	4.87	4.300	3.25	5.87	1.62
1.183	2.44	2.750	4.87	4.317	3.25	5.88	1.62
1.200	2.44	2.767	24.36	4.333	3.25	5.90	1.62
1.217	2.44	2.783	24.36	4.350	3.25	5.92	1.62
1.233	2.44	2.800	24.36	4.367	3.25	5.93	1.62
1.250	2.44	2.817	24.36	4.383	3.25	5.95	1.62
1.267	2.44	2.833	24.36	4.400	3.25	5.97	1.62
1.283	2.44	2.850	24.36	4.417	3.25	5.98	1.62
1.300	2.44	2.867	24.36	4.433	3.25	6.00	1.62
1.317	2.44	2.883	24.36	4.450	3.25	6.02	1.62
1.333	2.44	2.900	24.36	4.467	3.25	6.03	1.62
1.350	2.44	2.917	24.36	4.483	3.25	6.05	1.62
1.367	2.44	2.933	24.36	4.500	3.25	6.07	1.62
1.383	2.44	2.950	24.36	4.517	3.25	6.08	1.62
1.400	2.44	2.967	24.36	4.533	3.25	6.10	1.62
1.417	2.44	2.983	24.36	4.550	3.25	6.12	1.62
1.433	2.44	3.000	24.36	4.567	3.25	6.13	1.62
1.450	2.44	3.017	63.33	4.583	3.25	6.15	1.62
1.467	2.44	3.033	63.34	4.600	3.25	6.17	1.62
1.483	2.44	3.050	63.34	4.617	3.25	6.18	1.62
1.500	2.44	3.067	63.34	4.633	3.25	6.20	1.62
1.517	2.44	3.083	63.34	4.650	3.25	6.22	1.62
1.533	2.44	3.100	63.34	4.667	3.25	6.23	1.62
1.550	2.44	3.117	63.34	4.683	3.25	6.25	1.62
1.567	2.44	3.133	63.34	4.700	3.25		

				TOTALS
Max.Eff.Inten.(mm/hr)=		63.34	16.97	
over (min)		5.00	5.00	
Storage Coeff. (min)=		1.12 (ii)	4.37 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00	
Unit Hyd. peak (cms)=		0.46	0.25	
PEAK FLOW	(cms)=	0.02	0.00	0.016 (iii)
TIME TO PEAK	(hrs)=	3.25	3.27	3.25

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     RUNOFF VOLUME    (mm)=      38.60          8.47          32.86
     TOTAL RAINFALL   (mm)=      40.60         40.60          40.60
     RUNOFF COEFFICIENT   =       0.95          0.21           0.81


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0010)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0201):     0.17   0.025     3.25    31.96
     + ID2= 2 (  0202):     0.11   0.016     3.25    32.86
       ================================================
       ID = 3 (  0010):     0.27   0.041     3.25    32.31

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0012)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------       (cms)     (ha.m.)    |   (cms)     (ha.m.)
                           0.0000     0.0000    |   0.0200     0.0082
                           0.0010     0.0009    |   0.0210     0.0098
                           0.0070     0.0019    |   0.0230     0.0115
                           0.0100     0.0028    |   0.0240     0.0134
                           0.0130     0.0038    |   0.0620     0.0155
                           0.0150     0.0047    |   0.1400     0.0177
                           0.0170     0.0054    |   0.2500     0.0200
                           0.0180     0.0067    |   0.0000     0.0000

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
     INFLOW : ID= 2 (  0010)    0.275     0.041      3.25      32.31
     OUTFLOW: ID= 1 (  0012)    0.275     0.014      3.33      31.48

                    PEAK   FLOW   REDUCTION [Qout/Qin](%)= 35.23
                    TIME SHIFT OF PEAK FLOW         (min)=  5.00
                    MAXIMUM  STORAGE   USED       (ha.m.)=  0.0044

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0012):     0.27   0.014     3.33    31.48
     + ID2= 2 (  0204):     0.06   0.001     3.48     9.15
       ================================================
       ID = 3 (  0014):     0.34   0.015     3.35    27.31

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| CALIB            |
| NASHYD   (  0205)|   Area    (ha)=   0.02   Curve Number   (CN)= 74.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.56   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.22

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                          ---- TRANSFORMED HYETOGRAPH ----
      TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
       hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
     0.017    0.00 | 1.583    2.44 | 3.150   63.34 |  4.72    3.25
     0.033    0.00 | 1.600    2.44 | 3.167   63.34 |  4.73    3.25
     0.050    0.00 | 1.617    2.44 | 3.183   63.34 |  4.75    3.25
     0.067    0.00 | 1.633    2.44 | 3.200   63.34 |  4.77    2.44
     0.083    0.00 | 1.650    2.44 | 3.217   63.34 |  4.78    2.44
     0.100    0.00 | 1.667    2.44 | 3.233   63.34 |  4.80    2.44
     0.117    0.00 | 1.683    2.44 | 3.250   63.34 |  4.82    2.44
     0.133    0.00 | 1.700    2.44 | 3.267    8.94 |  4.83    2.44
     0.150    0.00 | 1.717    2.44 | 3.283    8.93 |  4.85    2.44
     0.167    0.00 | 1.733    2.44 | 3.300    8.93 |  4.87    2.44
     0.183    0.00 | 1.750    2.44 | 3.317    8.93 |  4.88    2.44
     0.200    0.00 | 1.767    4.06 | 3.333    8.93 |  4.90    2.44
     0.217    0.00 | 1.783    4.06 | 3.350    8.93 |  4.92    2.44
     0.233    0.00 | 1.800    4.06 | 3.367    8.93 |  4.93    2.44
     0.250    0.00 | 1.817    4.06 | 3.383    8.93 |  4.95    2.44
     0.267    1.62 | 1.833    4.06 | 3.400    8.93 |  4.97    2.44
     0.283    1.62 | 1.850    4.06 | 3.417    8.93 |  4.98    2.44
     0.300    1.62 | 1.867    4.06 | 3.433    8.93 |  5.00    2.44
     0.317    1.62 | 1.883    4.06 | 3.450    8.93 |  5.02    2.44
     0.333    1.62 | 1.900    4.06 | 3.467    8.93 |  5.03    2.44
     0.350    1.62 | 1.917    4.06 | 3.483    8.93 |  5.05    2.44
     0.367    1.62 | 1.933    4.06 | 3.500    8.93 |  5.07    2.44
     0.383    1.62 | 1.950    4.06 | 3.517    8.93 |  5.08    2.44
     0.400    1.62 | 1.967    4.06 | 3.533    8.93 |  5.10    2.44
     0.417    1.62 | 1.983    4.06 | 3.550    8.93 |  5.12    2.44
     0.433    1.62 | 2.000    4.06 | 3.567    8.93 |  5.13    2.44
     0.450    1.62 | 2.017    4.06 | 3.583    8.93 |  5.15    2.44
     0.467    1.62 | 2.033    4.06 | 3.600    8.93 |  5.17    2.44
     0.483    1.62 | 2.050    4.06 | 3.617    8.93 |  5.18    2.44
     0.500    1.62 | 2.067    4.06 | 3.633    8.93 |  5.20    2.44
     0.517    1.62 | 2.083    4.06 | 3.650    8.93 |  5.22    2.44
     0.533    1.62 | 2.100    4.06 | 3.667    8.93 |  5.23    2.44
     0.550    1.62 | 2.117    4.06 | 3.683    8.93 |  5.25    2.44
     0.567    1.62 | 2.133    4.06 | 3.700    8.93 |  5.27    1.62
     0.583    1.62 | 2.150    4.06 | 3.717    8.93 |  5.28    1.62
     0.600    1.62 | 2.167    4.06 | 3.733    8.93 |  5.30    1.62
     0.617    1.62 | 2.183    4.06 | 3.750    8.93 |  5.32    1.62
     0.633    1.62 | 2.200    4.06 | 3.767    4.06 |  5.33    1.62
     0.650    1.62 | 2.217    4.06 | 3.783    4.06 |  5.35    1.62
     0.667    1.62 | 2.233    4.06 | 3.800    4.06 |  5.37    1.62
     0.683    1.62 | 2.250    4.06 | 3.817    4.06 |  5.38    1.62
     0.700    1.62 | 2.267    4.87 | 3.833    4.06 |  5.40    1.62
     0.717    1.62 | 2.283    4.87 | 3.850    4.06 |  5.42    1.62
     0.733    1.62 | 2.300    4.87 | 3.867    4.06 |  5.43    1.62
     0.750    1.62 | 2.317    4.87 | 3.883    4.06 |  5.45    1.62
     0.767    2.44 | 2.333    4.87 | 3.900    4.06 |  5.47    1.62
     0.783    2.44 | 2.350    4.87 | 3.917    4.06 |  5.48    1.62
     0.800    2.44 | 2.367    4.87 | 3.933    4.06 |  5.50    1.62
     0.817    2.44 | 2.383    4.87 | 3.950    4.06 |  5.52    1.62
     0.833    2.44 | 2.400    4.87 | 3.967    4.06 |  5.53    1.62
     0.850    2.44 | 2.417    4.87 | 3.983    4.06 |  5.55    1.62
     0.867    2.44 | 2.433    4.87 | 4.000    4.06 |  5.57    1.62
     0.883    2.44 | 2.450    4.87 | 4.017    4.06 |  5.58    1.62
     0.900    2.44 | 2.467    4.87 | 4.033    4.06 |  5.60    1.62
     0.917    2.44 | 2.483    4.87 | 4.050    4.06 |  5.62    1.62
     0.933    2.44 | 2.500    4.87 | 4.067    4.06 |  5.63    1.62
     0.950    2.44 | 2.517    4.87 | 4.083    4.06 |  5.65    1.62
     0.967    2.44 | 2.533    4.87 | 4.100    4.06 |  5.67    1.62
     0.983    2.44 | 2.550    4.87 | 4.117    4.06 |  5.68    1.62
     1.000    2.44 | 2.567    4.87 | 4.133    4.06 |  5.70    1.62
     1.017    2.44 | 2.583    4.87 | 4.150    4.06 |  5.72    1.62
     1.033    2.44 | 2.600    4.87 | 4.167    4.06 |  5.73    1.62
     1.050    2.44 | 2.617    4.87 | 4.183    4.06 |  5.75    1.62
     1.067    2.44 | 2.633    4.87 | 4.200    4.06 |  5.77    1.62
     1.083    2.44 | 2.650    4.87 | 4.217    4.06 |  5.78    1.62
     1.100    2.44 | 2.667    4.87 | 4.233    4.06 |  5.80    1.62
     1.117    2.44 | 2.683    4.87 | 4.250    4.06 |  5.82    1.62
     1.133    2.44 | 2.700    4.87 | 4.267    3.25 |  5.83    1.62
     1.150    2.44 | 2.717    4.87 | 4.283    3.25 |  5.85    1.62
     1.167    2.44 | 2.733    4.87 | 4.300    3.25 |  5.87    1.62
     1.183    2.44 | 2.750    4.87 | 4.317    3.25 |  5.88    1.62
     1.200    2.44 | 2.767   24.36 | 4.333    3.25 |  5.90    1.62
     1.217    2.44 | 2.783   24.36 | 4.350    3.25 |  5.92    1.62
     1.233    2.44 | 2.800   24.36 | 4.367    3.25 |  5.93    1.62
     1.250    2.44 | 2.817   24.36 | 4.383    3.25 |  5.95    1.62
     1.267    2.44 | 2.833   24.36 | 4.400    3.25 |  5.97    1.62
     1.283    2.44 | 2.850   24.36 | 4.417    3.25 |  5.98    1.62
     1.300    2.44 | 2.867   24.36 | 4.433    3.25 |  6.00    1.62
     1.317    2.44 | 2.883   24.36 | 4.450    3.25 |  6.02    1.62
     1.333    2.44 | 2.900   24.36 | 4.467    3.25 |  6.03    1.62
     1.350    2.44 | 2.917   24.36 | 4.483    3.25 |  6.05    1.62
     1.367    2.44 | 2.933   24.36 | 4.500    3.25 |  6.07    1.62
     1.383    2.44 | 2.950   24.36 | 4.517    3.25 |  6.08    1.62
     1.400    2.44 | 2.967   24.36 | 4.533    3.25 |  6.10    1.62
     1.417    2.44 | 2.983   24.36 | 4.550    3.25 |  6.12    1.62
     1.433    2.44 | 3.000   24.36 | 4.567    3.25 |  6.13    1.62
     1.450    2.44 | 3.017   63.33 | 4.583    3.25 |  6.15    1.62
     1.467    2.44 | 3.033   63.34 | 4.600    3.25 |  6.17    1.62
     1.483    2.44 | 3.050   63.34 | 4.617    3.25 |  6.18    1.62
     1.500    2.44 | 3.067   63.34 | 4.633    3.25 |  6.20    1.62
     1.517    2.44 | 3.083   63.34 | 4.650    3.25 |  6.22    1.62
     1.533    2.44 | 3.100   63.34 | 4.667    3.25 |  6.23    1.62
     1.550    2.44 | 3.117   63.34 | 4.683    3.25 |  6.25    1.62
     1.567    2.44 | 3.133   63.34 | 4.700    3.25 |

Unit Hyd Qpeak  (cms)=   0.004
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     PEAK FLOW       (cms)=   0.001 (i)
     TIME TO PEAK    (hrs)=   3.383
     RUNOFF VOLUME    (mm)=  10.318
     TOTAL RAINFALL   (mm)=  40.600
     RUNOFF COEFFICIENT   =   0.254

     (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.
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CALIB STANDHYD (0203) ID= 1 DT= 1.0 min	Area (ha)= 0.13 Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	2.44	3.150	63.34	4.72	3.25
0.033	0.00	1.600	2.44	3.167	63.34	4.73	3.25
0.050	0.00	1.617	2.44	3.183	63.34	4.75	3.25
0.067	0.00	1.633	2.44	3.200	63.34	4.77	2.44
0.083	0.00	1.650	2.44	3.217	63.34	4.78	2.44
0.100	0.00	1.667	2.44	3.233	63.34	4.80	2.44
0.117	0.00	1.683	2.44	3.250	63.34	4.82	2.44
0.133	0.00	1.700	2.44	3.267	8.94	4.83	2.44
0.150	0.00	1.717	2.44	3.283	8.93	4.85	2.44
0.167	0.00	1.733	2.44	3.300	8.93	4.87	2.44
0.183	0.00	1.750	2.44	3.317	8.93	4.88	2.44
0.200	0.00	1.767	4.06	3.333	8.93	4.90	2.44
0.217	0.00	1.783	4.06	3.350	8.93	4.92	2.44
0.233	0.00	1.800	4.06	3.367	8.93	4.93	2.44
0.250	0.00	1.817	4.06	3.383	8.93	4.95	2.44
0.267	1.62	1.833	4.06	3.400	8.93	4.97	2.44
0.283	1.62	1.850	4.06	3.417	8.93	4.98	2.44
0.300	1.62	1.867	4.06	3.433	8.93	5.00	2.44
0.317	1.62	1.883	4.06	3.450	8.93	5.02	2.44
0.333	1.62	1.900	4.06	3.467	8.93	5.03	2.44
0.350	1.62	1.917	4.06	3.483	8.93	5.05	2.44
0.367	1.62	1.933	4.06	3.500	8.93	5.07	2.44
0.383	1.62	1.950	4.06	3.517	8.93	5.08	2.44
0.400	1.62	1.967	4.06	3.533	8.93	5.10	2.44
0.417	1.62	1.983	4.06	3.550	8.93	5.12	2.44
0.433	1.62	2.000	4.06	3.567	8.93	5.13	2.44
0.450	1.62	2.017	4.06	3.583	8.93	5.15	2.44
0.467	1.62	2.033	4.06	3.600	8.93	5.17	2.44
0.483	1.62	2.050	4.06	3.617	8.93	5.18	2.44
0.500	1.62	2.067	4.06	3.633	8.93	5.20	2.44
0.517	1.62	2.083	4.06	3.650	8.93	5.22	2.44
0.533	1.62	2.100	4.06	3.667	8.93	5.23	2.44
0.550	1.62	2.117	4.06	3.683	8.93	5.25	2.44
0.567	1.62	2.133	4.06	3.700	8.93	5.27	1.62
0.583	1.62	2.150	4.06	3.717	8.93	5.28	1.62
0.600	1.62	2.167	4.06	3.733	8.93	5.30	1.62
0.617	1.62	2.183	4.06	3.750	8.93	5.32	1.62
0.633	1.62	2.200	4.06	3.767	4.06	5.33	1.62
0.650	1.62	2.217	4.06	3.783	4.06	5.35	1.62
0.667	1.62	2.233	4.06	3.800	4.06	5.37	1.62
0.683	1.62	2.250	4.06	3.817	4.06	5.38	1.62
0.700	1.62	2.267	4.87	3.833	4.06	5.40	1.62
0.717	1.62	2.283	4.87	3.850	4.06	5.42	1.62
0.733	1.62	2.300	4.87	3.867	4.06	5.43	1.62
0.750	1.62	2.317	4.87	3.883	4.06	5.45	1.62
0.767	2.44	2.333	4.87	3.900	4.06	5.47	1.62
0.783	2.44	2.350	4.87	3.917	4.06	5.48	1.62
0.800	2.44	2.367	4.87	3.933	4.06	5.50	1.62
0.817	2.44	2.383	4.87	3.950	4.06	5.52	1.62
0.833	2.44	2.400	4.87	3.967	4.06	5.53	1.62
0.850	2.44	2.417	4.87	3.983	4.06	5.55	1.62
0.867	2.44	2.433	4.87	4.000	4.06	5.57	1.62
0.883	2.44	2.450	4.87	4.017	4.06	5.58	1.62
0.900	2.44	2.467	4.87	4.033	4.06	5.60	1.62
0.917	2.44	2.483	4.87	4.050	4.06	5.62	1.62
0.933	2.44	2.500	4.87	4.067	4.06	5.63	1.62
0.950	2.44	2.517	4.87	4.083	4.06	5.65	1.62
0.967	2.44	2.533	4.87	4.100	4.06	5.67	1.62
0.983	2.44	2.550	4.87	4.117	4.06	5.68	1.62
1.000	2.44	2.567	4.87	4.133	4.06	5.70	1.62
1.017	2.44	2.583	4.87	4.150	4.06	5.72	1.62
1.033	2.44	2.600	4.87	4.167	4.06	5.73	1.62
1.050	2.44	2.617	4.87	4.183	4.06	5.75	1.62
1.067	2.44	2.633	4.87	4.200	4.06	5.77	1.62
1.083	2.44	2.650	4.87	4.217	4.06	5.78	1.62
1.100	2.44	2.667	4.87	4.233	4.06	5.80	1.62
1.117	2.44	2.683	4.87	4.250	4.06	5.82	1.62
1.133	2.44	2.700	4.87	4.267	3.25	5.83	1.62
1.150	2.44	2.717	4.87	4.283	3.25	5.85	1.62
1.167	2.44	2.733	4.87	4.300	3.25	5.87	1.62
1.183	2.44	2.750	4.87	4.317	3.25	5.88	1.62
1.200	2.44	2.767	24.36	4.333	3.25	5.90	1.62
1.217	2.44	2.783	24.36	4.350	3.25	5.92	1.62
1.233	2.44	2.800	24.36	4.367	3.25	5.93	1.62
1.250	2.44	2.817	24.36	4.383	3.25	5.95	1.62
1.267	2.44	2.833	24.36	4.400	3.25	5.97	1.62
1.283	2.44	2.850	24.36	4.417	3.25	5.98	1.62
1.300	2.44	2.867	24.36	4.433	3.25	6.00	1.62
1.317	2.44	2.883	24.36	4.450	3.25	6.02	1.62
1.333	2.44	2.900	24.36	4.467	3.25	6.03	1.62
1.350	2.44	2.917	24.36	4.483	3.25	6.05	1.62
1.367	2.44	2.933	24.36	4.500	3.25	6.07	1.62
1.383	2.44	2.950	24.36	4.517	3.25	6.08	1.62
1.400	2.44	2.967	24.36	4.533	3.25	6.10	1.62
1.417	2.44	2.983	24.36	4.550	3.25	6.12	1.62
1.433	2.44	3.000	24.36	4.567	3.25	6.13	1.62
1.450	2.44	3.017	63.33	4.583	3.25	6.15	1.62
1.467	2.44	3.033	63.34	4.600	3.25	6.17	1.62
1.483	2.44	3.050	63.34	4.617	3.25	6.18	1.62
1.500	2.44	3.067	63.34	4.633	3.25	6.20	1.62
1.517	2.44	3.083	63.34	4.650	3.25	6.22	1.62
1.533	2.44	3.100	63.34	4.667	3.25	6.23	1.62
1.550	2.44	3.117	63.34	4.683	3.25	6.25	1.62
1.567	2.44	3.133	63.34	4.700	3.25		

				TOTALS
Max.Eff.Inten.(mm/hr)=		63.34	16.97	
over (min)		5.00	3.00	
Storage Coeff. (min)=		1.21 (ii)	2.97 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.45	0.38	
PEAK FLOW	(cms)=	0.02	0.00	0.019 (iii)
TIME TO PEAK	(hrs)=	3.25	3.25	3.25
RUNOFF VOLUME	(mm)=	38.60	8.47	31.06
TOTAL RAINFALL	(mm)=	40.60	40.60	40.60
RUNOFF COEFFICIENT	=	0.95	0.21	0.77

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) IN= 2---> OUT= 1 DT= 1.0 min	OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)		0.133	0.019	3.25	31.06
OUTFLOW: ID= 1 (0015)		0.133	0.010	3.32	30.31

PEAK FLOW REDUCTION [Qout/Qin](%)= 51.10
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0017

```
--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA     QPEAK     TPEAK      R.V.
--------------------          (ha)     (cms)     (hrs)      (mm)
       ID1= 1 (  0015):      0.13    0.010      3.32     30.31
     + ID2= 2 (  0205):      0.02    0.001      3.38     10.32
       ================================================
       ID = 3 (  0007):      0.16    0.010      3.32     27.48

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
-------------------------------------------------------------------------------
===============================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\ca5ea5e2-88
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\ca5ea5e2-88


DATE: 04-17-2023                          TIME: 01:25:48

USER:


COMMENTS: _____________________________________________________


-------------------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : I) 5yr 6hr 15min Chicago      **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\152f0c83
| Ptotal= 55.84 mm |    Comments: 5yr 6hr 15min SCS Type II (MTO)
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.25    0.00 |  2.00    5.58 |  3.75   12.28 |  5.50    2.23
               0.50    2.23 |  2.25    5.58 |  4.00    5.58 |  5.75    2.23
               0.75    2.23 |  2.50    6.70 |  4.25    5.58 |  6.00    2.23
               1.00    3.35 |  2.75    6.70 |  4.50    4.47 |  6.25    2.23
               1.25    3.35 |  3.00   33.50 |  4.75    4.47 |
               1.50    3.35 |  3.25   87.11 |  5.00    3.35 |
               1.75    3.35 |  3.50   12.28 |  5.25    3.35 |

-------------------------------------------------------------------------------

--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                          ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.017    0.00 | 1.583    3.35 | 3.150   87.11 |  4.72    4.47
               0.033    0.00 | 1.600    3.35 | 3.167   87.11 |  4.73    4.47
               0.050    0.00 | 1.617    3.35 | 3.183   87.11 |  4.75    4.47
               0.067    0.00 | 1.633    3.35 | 3.200   87.11 |  4.77    4.47
               0.083    0.00 | 1.650    3.35 | 3.217   87.11 |  4.78    4.47
               0.100    0.00 | 1.667    3.35 | 3.233   87.11 |  4.80    4.47
               0.117    0.00 | 1.683    3.35 | 3.250   87.11 |  4.82    4.47
               0.133    0.00 | 1.700    3.35 | 3.267   12.30 |  4.83    4.47
               0.150    0.00 | 1.717    3.35 | 3.283   12.28 |  4.85    4.47
               0.167    0.00 | 1.733    3.35 | 3.300   12.28 |  4.87    4.47
               0.183    0.00 | 1.750    3.35 | 3.317   12.28 |  4.88    4.47
               0.200    0.00 | 1.767    5.58 | 3.333   12.28 |  4.90    4.47
               0.217    0.00 | 1.783    5.58 | 3.350   12.28 |  4.92    4.47
               0.233    0.00 | 1.800    5.58 | 3.367   12.28 |  4.93    4.47
               0.250    0.00 | 1.817    5.58 | 3.383   12.28 |  4.95    4.47
               0.267    2.23 | 1.833    5.58 | 3.400   12.28 |  4.97    4.47
               0.283    2.23 | 1.850    5.58 | 3.417   12.28 |  4.98    4.47
               0.300    2.23 | 1.867    5.58 | 3.433   12.28 |  5.00    4.47
               0.317    2.23 | 1.883    5.58 | 3.450   12.28 |  5.02    4.47
               0.333    2.23 | 1.900    5.58 | 3.467   12.28 |  5.03    4.47
               0.350    2.23 | 1.917    5.58 | 3.483   12.28 |  5.05    4.47
               0.367    2.23 | 1.933    5.58 | 3.500   12.28 |  5.07    4.47
               0.383    2.23 | 1.950    5.58 | 3.517   12.28 |  5.08    4.47
               0.400    2.23 | 1.967    5.58 | 3.533   12.28 |  5.10    4.47
               0.417    2.23 | 1.983    5.58 | 3.550   12.28 |  5.12    4.47
               0.433    2.23 | 2.000    5.58 | 3.567   12.28 |  5.13    4.47
               0.450    2.23 | 2.017    5.58 | 3.583   12.28 |  5.15    4.47
               0.467    2.23 | 2.033    5.58 | 3.600   12.28 |  5.17    4.47
               0.483    2.23 | 2.050    5.58 | 3.617   12.28 |  5.18    4.47
               0.500    2.23 | 2.067    5.58 | 3.633   12.28 |  5.20    4.47
               0.517    2.23 | 2.083    5.58 | 3.650   12.28 |  5.22    4.47
               0.533    2.23 | 2.100    5.58 | 3.667   12.28 |  5.23    4.47
               0.550    2.23 | 2.117    5.58 | 3.683   12.28 |  5.25    4.47
               0.567    2.23 | 2.133    5.58 | 3.700   12.28 |  5.27    2.23
               0.583    2.23 | 2.150    5.58 | 3.717   12.28 |  5.28    2.23
               0.600    2.23 | 2.167    5.58 | 3.733   12.28 |  5.30    2.23
               0.617    2.23 | 2.183    5.58 | 3.750   12.28 |  5.32    2.23
               0.633    2.23 | 2.200    5.58 | 3.767    5.59 |  5.33    2.23
               0.650    2.23 | 2.217    5.58 | 3.783    5.58 |  5.35    2.23
               0.667    2.23 | 2.233    5.58 | 3.800    5.58 |  5.37    2.23
               0.683    2.23 | 2.250    5.58 | 3.817    5.58 |  5.38    2.23
               0.700    2.23 | 2.267    6.70 | 3.833    5.58 |  5.40    2.23
               0.717    2.23 | 2.283    6.70 | 3.850    5.58 |  5.42    2.23
               0.733    2.23 | 2.300    6.70 | 3.867    5.58 |  5.43    2.23
               0.750    2.23 | 2.317    6.70 | 3.883    5.58 |  5.45    2.23
               0.767    3.35 | 2.333    6.70 | 3.900    5.58 |  5.47    2.23
               0.783    3.35 | 2.350    6.70 | 3.917    5.58 |  5.48    2.23
               0.800    3.35 | 2.367    6.70 | 3.933    5.58 |  5.50    2.23
               0.817    3.35 | 2.383    6.70 | 3.950    5.58 |  5.52    2.23
               0.833    3.35 | 2.400    6.70 | 3.967    5.58 |  5.53    2.23
               0.850    3.35 | 2.417    6.70 | 3.983    5.58 |  5.55    2.23
               0.867    3.35 | 2.433    6.70 | 4.000    5.58 |  5.57    2.23
               0.883    3.35 | 2.450    6.70 | 4.017    5.58 |  5.58    2.23
               0.900    3.35 | 2.467    6.70 | 4.033    5.58 |  5.60    2.23
               0.917    3.35 | 2.483    6.70 | 4.050    5.58 |  5.62    2.23
               0.933    3.35 | 2.500    6.70 | 4.067    5.58 |  5.63    2.23
               0.950    3.35 | 2.517    6.70 | 4.083    5.58 |  5.65    2.23
               0.967    3.35 | 2.533    6.70 | 4.100    5.58 |  5.67    2.23
               0.983    3.35 | 2.550    6.70 | 4.117    5.58 |  5.68    2.23
               1.000    3.35 | 2.567    6.70 | 4.133    5.58 |  5.70    2.23
               1.017    3.35 | 2.583    6.70 | 4.150    5.58 |  5.72    2.23
               1.033    3.35 | 2.600    6.70 | 4.167    5.58 |  5.73    2.23
               1.050    3.35 | 2.617    6.70 | 4.183    5.58 |  5.75    2.23
               1.067    3.35 | 2.633    6.70 | 4.200    5.58 |  5.77    2.23
               1.083    3.35 | 2.650    6.70 | 4.217    5.58 |  5.78    2.23
               1.100    3.35 | 2.667    6.70 | 4.233    5.58 |  5.80    2.23
               1.117    3.35 | 2.683    6.70 | 4.250    5.58 |  5.82    2.23
               1.133    3.35 | 2.700    6.70 | 4.267    4.47 |  5.83    2.23
               1.150    3.35 | 2.717    6.70 | 4.283    4.47 |  5.85    2.23
               1.167    3.35 | 2.733    6.70 | 4.300    4.47 |  5.87    2.23
               1.183    3.35 | 2.750    6.70 | 4.317    4.47 |  5.88    2.23
               1.200    3.35 | 2.767   33.50 | 4.333    4.47 |  5.90    2.23
               1.217    3.35 | 2.783   33.50 | 4.350    4.47 |  5.92    2.23
               1.233    3.35 | 2.800   33.50 | 4.367    4.47 |  5.93    2.23
               1.250    3.35 | 2.817   33.50 | 4.383    4.47 |  5.95    2.23
               1.267    3.35 | 2.833   33.50 | 4.400    4.47 |  5.97    2.23
               1.283    3.35 | 2.850   33.50 | 4.417    4.47 |  5.98    2.23
               1.300    3.35 | 2.867   33.50 | 4.433    4.47 |  6.00    2.23
               1.317    3.35 | 2.883   33.50 | 4.450    4.47 |  6.02    2.23
               1.333    3.35 | 2.900   33.50 | 4.467    4.47 |  6.03    2.23
               1.350    3.35 | 2.917   33.50 | 4.483    4.47 |  6.05    2.23
               1.367    3.35 | 2.933   33.50 | 4.500    4.47 |  6.07    2.23
               1.383    3.35 | 2.950   33.50 | 4.517    4.47 |  6.08    2.23
               1.400    3.35 | 2.967   33.50 | 4.533    4.47 |  6.10    2.23
               1.417    3.35 | 2.983   33.50 | 4.550    4.47 |  6.12    2.23
               1.433    3.35 | 3.000   33.50 | 4.567    4.47 |  6.13    2.23
               1.450    3.35 | 3.017   87.10 | 4.583    4.47 |  6.15    2.23
```

1.467	3.35	3.033	87.11	4.600	4.47	6.17	2.23
1.483	3.35	3.050	87.11	4.617	4.47	6.18	2.23
1.500	3.35	3.067	87.11	4.633	4.47	6.20	2.23
1.517	3.35	3.083	87.11	4.650	4.47	6.22	2.23
1.533	3.35	3.100	87.11	4.667	4.47	6.23	2.23
1.550	3.35	3.117	87.11	4.683	4.47	6.25	2.23
1.567	3.35	3.133	87.11	4.700	4.47		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 3.483
RUNOFF VOLUME (mm)= 16.787
TOTAL RAINFALL (mm)= 55.840
RUNOFF COEFFICIENT = 0.301

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201) | Area (ha)= 0.17
ID= 1 DT= 1.0 min | Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.35	3.150	87.11	4.72	4.47
0.033	0.00	1.600	3.35	3.167	87.11	4.73	4.47
0.050	0.00	1.617	3.35	3.183	87.11	4.75	4.47
0.067	0.00	1.633	3.35	3.200	87.11	4.77	3.35
0.083	0.00	1.650	3.35	3.217	87.11	4.78	3.35
0.100	0.00	1.667	3.35	3.233	87.11	4.80	3.35
0.117	0.00	1.683	3.35	3.250	87.11	4.82	3.35
0.133	0.00	1.700	3.35	3.267	12.30	4.83	3.35
0.150	0.00	1.717	3.35	3.283	12.28	4.85	3.35
0.167	0.00	1.733	3.35	3.300	12.28	4.87	3.35
0.183	0.00	1.750	3.35	3.317	12.28	4.88	3.35
0.200	0.00	1.767	5.58	3.333	12.28	4.90	3.35
0.217	0.00	1.783	5.58	3.350	12.28	4.92	3.35
0.233	0.00	1.800	5.58	3.367	12.28	4.93	3.35
0.250	0.00	1.817	5.58	3.383	12.28	4.95	3.35
0.267	2.23	1.833	5.58	3.400	12.28	4.97	3.35
0.283	2.23	1.850	5.58	3.417	12.28	4.98	3.35
0.300	2.23	1.867	5.58	3.433	12.28	5.00	3.35
0.317	2.23	1.883	5.58	3.450	12.28	5.02	3.35
0.333	2.23	1.900	5.58	3.467	12.28	5.03	3.35
0.350	2.23	1.917	5.58	3.483	12.28	5.05	3.35
0.367	2.23	1.933	5.58	3.500	12.28	5.07	3.35
0.383	2.23	1.950	5.58	3.517	12.28	5.08	3.35
0.400	2.23	1.967	5.58	3.533	12.28	5.10	3.35
0.417	2.23	1.983	5.58	3.550	12.28	5.12	3.35
0.433	2.23	2.000	5.58	3.567	12.28	5.13	3.35
0.450	2.23	2.017	5.58	3.583	12.28	5.15	3.35
0.467	2.23	2.033	5.58	3.600	12.28	5.17	3.35
0.483	2.23	2.050	5.58	3.617	12.28	5.18	3.35
0.500	2.23	2.067	5.58	3.633	12.28	5.20	3.35
0.517	2.23	2.083	5.58	3.650	12.28	5.22	3.35
0.533	2.23	2.100	5.58	3.667	12.28	5.23	3.35
0.550	2.23	2.117	5.58	3.683	12.28	5.25	3.35
0.567	2.23	2.133	5.58	3.700	12.28	5.27	2.23
0.583	2.23	2.150	5.58	3.717	12.28	5.28	2.23
0.600	2.23	2.167	5.58	3.733	12.28	5.30	2.23
0.617	2.23	2.183	5.58	3.750	12.28	5.32	2.23
0.633	2.23	2.200	5.58	3.767	5.59	5.33	2.23
0.650	2.23	2.217	5.58	3.783	5.58	5.35	2.23
0.667	2.23	2.233	5.58	3.800	5.58	5.37	2.23
0.683	2.23	2.250	5.58	3.817	5.58	5.38	2.23
0.700	2.23	2.267	6.70	3.833	5.58	5.40	2.23
0.717	2.23	2.283	6.70	3.850	5.58	5.42	2.23
0.733	2.23	2.300	6.70	3.867	5.58	5.43	2.23
0.750	2.23	2.317	6.70	3.883	5.58	5.45	2.23
0.767	3.35	2.333	6.70	3.900	5.58	5.47	2.23
0.783	3.35	2.350	6.70	3.917	5.58	5.48	2.23
0.800	3.35	2.367	6.70	3.933	5.58	5.50	2.23
0.817	3.35	2.383	6.70	3.950	5.58	5.52	2.23
0.833	3.35	2.400	6.70	3.967	5.58	5.53	2.23
0.850	3.35	2.417	6.70	3.983	5.58	5.55	2.23
0.867	3.35	2.433	6.70	4.000	5.58	5.57	2.23
0.883	3.35	2.450	6.70	4.017	5.58	5.58	2.23
0.900	3.35	2.467	6.70	4.033	5.58	5.60	2.23
0.917	3.35	2.483	6.70	4.050	5.58	5.62	2.23
0.933	3.35	2.500	6.70	4.067	5.58	5.63	2.23
0.950	3.35	2.517	6.70	4.083	5.58	5.65	2.23
0.967	3.35	2.533	6.70	4.100	5.58	5.67	2.23
0.983	3.35	2.550	6.70	4.117	5.58	5.68	2.23
1.000	3.35	2.567	6.70	4.133	5.58	5.70	2.23
1.017	3.35	2.583	6.70	4.150	5.58	5.72	2.23
1.033	3.35	2.600	6.70	4.167	5.58	5.73	2.23
1.050	3.35	2.617	6.70	4.183	5.58	5.75	2.23
1.067	3.35	2.633	6.70	4.200	5.58	5.77	2.23
1.083	3.35	2.650	6.70	4.217	5.58	5.78	2.23
1.100	3.35	2.667	6.70	4.233	5.58	5.80	2.23
1.117	3.35	2.683	6.70	4.250	5.58	5.82	2.23
1.133	3.35	2.700	6.70	4.267	4.47	5.83	2.23
1.150	3.35	2.717	6.70	4.283	4.47	5.85	2.23
1.167	3.35	2.733	6.70	4.300	4.47	5.87	2.23
1.183	3.35	2.750	6.70	4.317	4.47	5.88	2.23
1.200	3.35	2.767	33.50	4.333	4.47	5.90	2.23
1.217	3.35	2.783	33.50	4.350	4.47	5.92	2.23
1.233	3.35	2.800	33.50	4.367	4.47	5.93	2.23
1.250	3.35	2.817	33.50	4.383	4.47	5.95	2.23
1.267	3.35	2.833	33.50	4.400	4.47	5.97	2.23
1.283	3.35	2.850	33.50	4.417	4.47	5.98	2.23
1.300	3.35	2.867	33.50	4.433	4.47	6.00	2.23
1.317	3.35	2.883	33.50	4.450	4.47	6.02	2.23
1.333	3.35	2.900	33.50	4.467	4.47	6.03	2.23
1.350	3.35	2.917	33.50	4.483	4.47	6.05	2.23
1.367	3.35	2.933	33.50	4.500	4.47	6.07	2.23
1.383	3.35	2.950	33.50	4.517	4.47	6.08	2.23
1.400	3.35	2.967	33.50	4.533	4.47	6.10	2.23
1.417	3.35	2.983	33.50	4.550	4.47	6.12	2.23
1.433	3.35	3.000	33.50	4.567	4.47	6.13	2.23
1.450	3.35	3.017	87.10	4.583	4.47	6.15	2.23
1.467	3.35	3.033	87.11	4.600	4.47	6.17	2.23
1.483	3.35	3.050	87.11	4.617	4.47	6.18	2.23
1.500	3.35	3.067	87.11	4.633	4.47	6.20	2.23
1.517	3.35	3.083	87.11	4.650	4.47	6.22	2.23
1.533	3.35	3.100	87.11	4.667	4.47	6.23	2.23
1.550	3.35	3.117	87.11	4.683	4.47	6.25	2.23
1.567	3.35	3.133	87.11	4.700	4.47		

				TOTALS
Max.Eff.Inten.(mm/hr)=		87.11	31.20	
over (min)		5.00	5.00	
Storage Coeff. (min)=		1.40 (ii)	4.50 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00	
Unit Hyd. peak (cms)=		0.43	0.24	
PEAK FLOW	(cms)=	0.03	0.00	0.035 (iii)
TIME TO PEAK	(hrs)=	3.25	3.27	3.25
RUNOFF VOLUME	(mm)=	53.84	15.67	45.43
TOTAL RAINFALL	(mm)=	55.84	55.84	55.84
RUNOFF COEFFICIENT	=	0.96	0.28	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.35	3.150	87.11	4.72	4.47
0.033	0.00	1.600	3.35	3.167	87.11	4.73	4.47
0.050	0.00	1.617	3.35	3.183	87.11	4.75	4.47
0.067	0.00	1.633	3.35	3.200	87.11	4.77	3.35
0.083	0.00	1.650	3.35	3.217	87.11	4.78	3.35
0.100	0.00	1.667	3.35	3.233	87.11	4.80	3.35
0.117	0.00	1.683	3.35	3.250	87.11	4.82	3.35
0.133	0.00	1.700	3.35	3.267	12.30	4.83	3.35
0.150	0.00	1.717	3.35	3.283	12.28	4.85	3.35
0.167	0.00	1.733	3.35	3.300	12.28	4.87	3.35
0.183	0.00	1.750	3.35	3.317	12.28	4.88	3.35
0.200	0.00	1.767	5.58	3.333	12.28	4.90	3.35
0.217	0.00	1.783	5.58	3.350	12.28	4.92	3.35
0.233	0.00	1.800	5.58	3.367	12.28	4.93	3.35
0.250	0.00	1.817	5.58	3.383	12.28	4.95	3.35
0.267	2.23	1.833	5.58	3.400	12.28	4.97	3.35
0.283	2.23	1.850	5.58	3.417	12.28	4.98	3.35
0.300	2.23	1.867	5.58	3.433	12.28	5.00	3.35
0.317	2.23	1.883	5.58	3.450	12.28	5.02	3.35
0.333	2.23	1.900	5.58	3.467	12.28	5.03	3.35
0.350	2.23	1.917	5.58	3.483	12.28	5.05	3.35
0.367	2.23	1.933	5.58	3.500	12.28	5.07	3.35
0.383	2.23	1.950	5.58	3.517	12.28	5.08	3.35
0.400	2.23	1.967	5.58	3.533	12.28	5.10	3.35
0.417	2.23	1.983	5.58	3.550	12.28	5.12	3.35
0.433	2.23	2.000	5.58	3.567	12.28	5.13	3.35
0.450	2.23	2.017	5.58	3.583	12.28	5.15	3.35
0.467	2.23	2.033	5.58	3.600	12.28	5.17	3.35
0.483	2.23	2.050	5.58	3.617	12.28	5.18	3.35
0.500	2.23	2.067	5.58	3.633	12.28	5.20	3.35
0.517	2.23	2.083	5.58	3.650	12.28	5.22	3.35
0.533	2.23	2.100	5.58	3.667	12.28	5.23	3.35
0.550	2.23	2.117	5.58	3.683	12.28	5.25	3.35
0.567	2.23	2.133	5.58	3.700	12.28	5.27	2.23
0.583	2.23	2.150	5.58	3.717	12.28	5.28	2.23
0.600	2.23	2.167	5.58	3.733	12.28	5.30	2.23
0.617	2.23	2.183	5.58	3.750	12.28	5.32	2.23
0.633	2.23	2.200	5.58	3.767	5.59	5.33	2.23
0.650	2.23	2.217	5.58	3.783	5.58	5.35	2.23
0.667	2.23	2.233	5.58	3.800	5.58	5.37	2.23
0.683	2.23	2.250	5.58	3.817	5.58	5.38	2.23
0.700	2.23	2.267	6.70	3.833	5.58	5.40	2.23
0.717	2.23	2.283	6.70	3.850	5.58	5.42	2.23
0.733	2.23	2.300	6.70	3.867	5.58	5.43	2.23
0.750	2.23	2.317	6.70	3.883	5.58	5.45	2.23
0.767	3.35	2.333	6.70	3.900	5.58	5.47	2.23
0.783	3.35	2.350	6.70	3.917	5.58	5.48	2.23
0.800	3.35	2.367	6.70	3.933	5.58	5.50	2.23
0.817	3.35	2.383	6.70	3.950	5.58	5.52	2.23
0.833	3.35	2.400	6.70	3.967	5.58	5.53	2.23
0.850	3.35	2.417	6.70	3.983	5.58	5.55	2.23
0.867	3.35	2.433	6.70	4.000	5.58	5.57	2.23
0.883	3.35	2.450	6.70	4.017	5.58	5.58	2.23
0.900	3.35	2.467	6.70	4.033	5.58	5.60	2.23
0.917	3.35	2.483	6.70	4.050	5.58	5.62	2.23
0.933	3.35	2.500	6.70	4.067	5.58	5.63	2.23
0.950	3.35	2.517	6.70	4.083	5.58	5.65	2.23
0.967	3.35	2.533	6.70	4.100	5.58	5.67	2.23
0.983	3.35	2.550	6.70	4.117	5.58	5.68	2.23
1.000	3.35	2.567	6.70	4.133	5.58	5.70	2.23
1.017	3.35	2.583	6.70	4.150	5.58	5.72	2.23
1.033	3.35	2.600	6.70	4.167	5.58	5.73	2.23
1.050	3.35	2.617	6.70	4.183	5.58	5.75	2.23
1.067	3.35	2.633	6.70	4.200	5.58	5.77	2.23
1.083	3.35	2.650	6.70	4.217	5.58	5.78	2.23
1.100	3.35	2.667	6.70	4.233	5.58	5.80	2.23
1.117	3.35	2.683	6.70	4.250	5.58	5.82	2.23
1.133	3.35	2.700	6.70	4.267	4.47	5.83	2.23
1.150	3.35	2.717	6.70	4.283	4.47	5.85	2.23
1.167	3.35	2.733	6.70	4.300	4.47	5.87	2.23
1.183	3.35	2.750	6.70	4.317	4.47	5.88	2.23
1.200	3.35	2.767	33.50	4.333	4.47	5.90	2.23
1.217	3.35	2.783	33.50	4.350	4.47	5.92	2.23
1.233	3.35	2.800	33.50	4.367	4.47	5.93	2.23
1.250	3.35	2.817	33.50	4.383	4.47	5.95	2.23
1.267	3.35	2.833	33.50	4.400	4.47	5.97	2.23
1.283	3.35	2.850	33.50	4.417	4.47	5.98	2.23
1.300	3.35	2.867	33.50	4.433	4.47	6.00	2.23
1.317	3.35	2.883	33.50	4.450	4.47	6.02	2.23
1.333	3.35	2.900	33.50	4.467	4.47	6.03	2.23
1.350	3.35	2.917	33.50	4.483	4.47	6.05	2.23
1.367	3.35	2.933	33.50	4.500	4.47	6.07	2.23
1.383	3.35	2.950	33.50	4.517	4.47	6.08	2.23
1.400	3.35	2.967	33.50	4.533	4.47	6.10	2.23
1.417	3.35	2.983	33.50	4.550	4.47	6.12	2.23
1.433	3.35	3.000	33.50	4.567	4.47	6.13	2.23
1.450	3.35	3.017	87.10	4.583	4.47	6.15	2.23
1.467	3.35	3.033	87.11	4.600	4.47	6.17	2.23
1.483	3.35	3.050	87.11	4.617	4.47	6.18	2.23
1.500	3.35	3.067	87.11	4.633	4.47	6.20	2.23
1.517	3.35	3.083	87.11	4.650	4.47	6.22	2.23
1.533	3.35	3.100	87.11	4.667	4.47	6.23	2.23
1.550	3.35	3.117	87.11	4.683	4.47	6.25	2.23
1.567	3.35	3.133	87.11	4.700	4.47		

```
     Max.Eff.Inten.(mm/hr)=      87.11         31.20
               over (min)        5.00          4.00
     Storage Coeff.  (min)=      0.99 (ii)     3.85 (ii)
     Unit Hyd. Tpeak (min)=      5.00          4.00
     Unit Hyd. peak  (cms)=      0.48          0.29
                                                          *TOTALS*
     PEAK FLOW       (cms)=      0.02          0.00          0.022 (iii)
     TIME TO PEAK    (hrs)=      3.25          3.25          3.25
     RUNOFF VOLUME    (mm)=     53.84         15.67         46.58
     TOTAL RAINFALL   (mm)=     55.84         55.84         55.84
     RUNOFF COEFFICIENT   =      0.96          0.28          0.83

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0     Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0010)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0201):     0.17   0.035     3.25    45.43
      + ID2= 2 (  0202):     0.11   0.022     3.25    46.58
        ==================================================
        ID = 3 (  0010):     0.27   0.057     3.25    45.87

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0012)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)    |   (cms)     (ha.m.)
                          0.0000     0.0000    |   0.0200     0.0082
                          0.0010     0.0009    |   0.0210     0.0098
                          0.0070     0.0019    |   0.0230     0.0115
                          0.0100     0.0028    |   0.0240     0.0134
                          0.0130     0.0038    |   0.0620     0.0155
                          0.0150     0.0047    |   0.1400     0.0177
                          0.0170     0.0054    |   0.2500     0.0200
                          0.0180     0.0067    |   0.0000     0.0000

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0010)     0.275     0.057      3.25       45.87
   OUTFLOW: ID= 1 (  0012)     0.275     0.018      3.33       45.04

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 30.72
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0062

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
        ID1= 1 (  0012):     0.27   0.018     3.33    45.04
      + ID2= 2 (  0204):     0.06   0.003     3.48    16.79
        ==================================================
        ID = 3 (  0014):     0.34   0.020     3.42    39.77

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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| CALIB            |
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| NASHYD (0205)| Area (ha)= 0.02 Curve Number (CN)= 74.0
|ID= 1 DT= 1.0 min | Ia (mm)= 4.56 # of Linear Res.(N)= 3.00
---------- U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.35	3.150	87.11	4.72	4.47
0.033	0.00	1.600	3.35	3.167	87.11	4.73	4.47
0.050	0.00	1.617	3.35	3.183	87.11	4.75	4.47
0.067	0.00	1.633	3.35	3.200	87.11	4.77	3.35
0.083	0.00	1.650	3.35	3.217	87.11	4.78	3.35
0.100	0.00	1.667	3.35	3.233	87.11	4.80	3.35
0.117	0.00	1.683	3.35	3.250	87.11	4.82	3.35
0.133	0.00	1.700	3.35	3.267	12.30	4.83	3.35
0.150	0.00	1.717	3.35	3.283	12.28	4.85	3.35
0.167	0.00	1.733	3.35	3.300	12.28	4.87	3.35
0.183	0.00	1.750	3.35	3.317	12.28	4.88	3.35
0.200	0.00	1.767	5.58	3.333	12.28	4.90	3.35
0.217	0.00	1.783	5.58	3.350	12.28	4.92	3.35
0.233	0.00	1.800	5.58	3.367	12.28	4.93	3.35
0.250	0.00	1.817	5.58	3.383	12.28	4.95	3.35
0.267	2.23	1.833	5.58	3.400	12.28	4.97	3.35
0.283	2.23	1.850	5.58	3.417	12.28	4.98	3.35
0.300	2.23	1.867	5.58	3.433	12.28	5.00	3.35
0.317	2.23	1.883	5.58	3.450	12.28	5.02	3.35
0.333	2.23	1.900	5.58	3.467	12.28	5.03	3.35
0.350	2.23	1.917	5.58	3.483	12.28	5.05	3.35
0.367	2.23	1.933	5.58	3.500	12.28	5.07	3.35
0.383	2.23	1.950	5.58	3.517	12.28	5.08	3.35
0.400	2.23	1.967	5.58	3.533	12.28	5.10	3.35
0.417	2.23	1.983	5.58	3.550	12.28	5.12	3.35
0.433	2.23	2.000	5.58	3.567	12.28	5.13	3.35
0.450	2.23	2.017	5.58	3.583	12.28	5.15	3.35
0.467	2.23	2.033	5.58	3.600	12.28	5.17	3.35
0.483	2.23	2.050	5.58	3.617	12.28	5.18	3.35
0.500	2.23	2.067	5.58	3.633	12.28	5.20	3.35
0.517	2.23	2.083	5.58	3.650	12.28	5.22	3.35
0.533	2.23	2.100	5.58	3.667	12.28	5.23	3.35
0.550	2.23	2.117	5.58	3.683	12.28	5.25	3.35
0.567	2.23	2.133	5.58	3.700	12.28	5.27	2.23
0.583	2.23	2.150	5.58	3.717	12.28	5.28	2.23
0.600	2.23	2.167	5.58	3.733	12.28	5.30	2.23
0.617	2.23	2.183	5.58	3.750	12.28	5.32	2.23
0.633	2.23	2.200	5.58	3.767	5.59	5.33	2.23
0.650	2.23	2.217	5.58	3.783	5.58	5.35	2.23
0.667	2.23	2.233	5.58	3.800	5.58	5.37	2.23
0.683	2.23	2.250	5.58	3.817	5.58	5.38	2.23
0.700	2.23	2.267	6.70	3.833	5.58	5.40	2.23
0.717	2.23	2.283	6.70	3.850	5.58	5.42	2.23
0.733	2.23	2.300	6.70	3.867	5.58	5.43	2.23
0.750	2.23	2.317	6.70	3.883	5.58	5.45	2.23
0.767	3.35	2.333	6.70	3.900	5.58	5.47	2.23
0.783	3.35	2.350	6.70	3.917	5.58	5.48	2.23
0.800	3.35	2.367	6.70	3.933	5.58	5.50	2.23
0.817	3.35	2.383	6.70	3.950	5.58	5.52	2.23
0.833	3.35	2.400	6.70	3.967	5.58	5.53	2.23
0.850	3.35	2.417	6.70	3.983	5.58	5.55	2.23
0.867	3.35	2.433	6.70	4.000	5.58	5.57	2.23
0.883	3.35	2.450	6.70	4.017	5.58	5.58	2.23
0.900	3.35	2.467	6.70	4.033	5.58	5.60	2.23
0.917	3.35	2.483	6.70	4.050	5.58	5.62	2.23
0.933	3.35	2.500	6.70	4.067	5.58	5.63	2.23
0.950	3.35	2.517	6.70	4.083	5.58	5.65	2.23
0.967	3.35	2.533	6.70	4.100	5.58	5.67	2.23
0.983	3.35	2.550	6.70	4.117	5.58	5.68	2.23
1.000	3.35	2.567	6.70	4.133	5.58	5.70	2.23
1.017	3.35	2.583	6.70	4.150	5.58	5.72	2.23
1.033	3.35	2.600	6.70	4.167	5.58	5.73	2.23
1.050	3.35	2.617	6.70	4.183	5.58	5.75	2.23
1.067	3.35	2.633	6.70	4.200	5.58	5.77	2.23
1.083	3.35	2.650	6.70	4.217	5.58	5.78	2.23
1.100	3.35	2.667	6.70	4.233	5.58	5.80	2.23
1.117	3.35	2.683	6.70	4.250	5.58	5.82	2.23
1.133	3.35	2.700	6.70	4.267	4.47	5.83	2.23
1.150	3.35	2.717	6.70	4.283	4.47	5.85	2.23
1.167	3.35	2.733	6.70	4.300	4.47	5.87	2.23
1.183	3.35	2.750	6.70	4.317	4.47	5.88	2.23
1.200	3.35	2.767	33.50	4.333	4.47	5.90	2.23
1.217	3.35	2.783	33.50	4.350	4.47	5.92	2.23
1.233	3.35	2.800	33.50	4.367	4.47	5.93	2.23
1.250	3.35	2.817	33.50	4.383	4.47	5.95	2.23
1.267	3.35	2.833	33.50	4.400	4.47	5.97	2.23
1.283	3.35	2.850	33.50	4.417	4.47	5.98	2.23
1.300	3.35	2.867	33.50	4.433	4.47	6.00	2.23
1.317	3.35	2.883	33.50	4.450	4.47	6.02	2.23
1.333	3.35	2.900	33.50	4.467	4.47	6.03	2.23
1.350	3.35	2.917	33.50	4.483	4.47	6.05	2.23
1.367	3.35	2.933	33.50	4.500	4.47	6.07	2.23
1.383	3.35	2.950	33.50	4.517	4.47	6.08	2.23
1.400	3.35	2.967	33.50	4.533	4.47	6.10	2.23
1.417	3.35	2.983	33.50	4.550	4.47	6.12	2.23
1.433	3.35	3.000	33.50	4.567	4.47	6.13	2.23
1.450	3.35	3.017	87.10	4.583	4.47	6.15	2.23
1.467	3.35	3.033	87.11	4.600	4.47	6.17	2.23
1.483	3.35	3.050	87.11	4.617	4.47	6.18	2.23
1.500	3.35	3.067	87.11	4.633	4.47	6.20	2.23
1.517	3.35	3.083	87.11	4.650	4.47	6.22	2.23
1.533	3.35	3.100	87.11	4.667	4.47	6.23	2.23
1.550	3.35	3.117	87.11	4.683	4.47	6.25	2.23
1.567	3.35	3.133	87.11	4.700	4.47		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 3.383
RUNOFF VOLUME (mm)= 18.662
TOTAL RAINFALL (mm)= 55.840
RUNOFF COEFFICIENT = 0.334

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB | STANDHYD (0203)| Area (ha)= 0.13
|ID= 1 DT= 1.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.35	3.150	87.11	4.72	4.47
0.033	0.00	1.600	3.35	3.167	87.11	4.73	4.47
0.050	0.00	1.617	3.35	3.183	87.11	4.75	4.47
0.067	0.00	1.633	3.35	3.200	87.11	4.77	3.35
0.083	0.00	1.650	3.35	3.217	87.11	4.78	3.35
0.100	0.00	1.667	3.35	3.233	87.11	4.80	3.35
0.117	0.00	1.683	3.35	3.250	87.11	4.82	3.35
0.133	0.00	1.700	3.35	3.267	12.30	4.83	3.35
0.150	0.00	1.717	3.35	3.283	12.28	4.85	3.35
0.167	0.00	1.733	3.35	3.300	12.28	4.87	3.35
0.183	0.00	1.750	3.35	3.317	12.28	4.88	3.35
0.200	0.00	1.767	5.58	3.333	12.28	4.90	3.35
0.217	0.00	1.783	5.58	3.350	12.28	4.92	3.35
0.233	0.00	1.800	5.58	3.367	12.28	4.93	3.35
0.250	0.00	1.817	5.58	3.383	12.28	4.95	3.35
0.267	2.23	1.833	5.58	3.400	12.28	4.97	3.35
0.283	2.23	1.850	5.58	3.417	12.28	4.98	3.35
0.300	2.23	1.867	5.58	3.433	12.28	5.00	3.35
0.317	2.23	1.883	5.58	3.450	12.28	5.02	3.35
0.333	2.23	1.900	5.58	3.467	12.28	5.03	3.35
0.350	2.23	1.917	5.58	3.483	12.28	5.05	3.35
0.367	2.23	1.933	5.58	3.500	12.28	5.07	3.35
0.383	2.23	1.950	5.58	3.517	12.28	5.08	3.35
0.400	2.23	1.967	5.58	3.533	12.28	5.10	3.35
0.417	2.23	1.983	5.58	3.550	12.28	5.12	3.35
0.433	2.23	2.000	5.58	3.567	12.28	5.13	3.35
0.450	2.23	2.017	5.58	3.583	12.28	5.15	3.35
0.467	2.23	2.033	5.58	3.600	12.28	5.17	3.35
0.483	2.23	2.050	5.58	3.617	12.28	5.18	3.35
0.500	2.23	2.067	5.58	3.633	12.28	5.20	3.35
0.517	2.23	2.083	5.58	3.650	12.28	5.22	3.35
0.533	2.23	2.100	5.58	3.667	12.28	5.23	3.35
0.550	2.23	2.117	5.58	3.683	12.28	5.25	3.35
0.567	2.23	2.133	5.58	3.700	12.28	5.27	2.23

0.583	2.23	2.150	5.58	3.717	12.28	5.28	2.23
0.600	2.23	2.167	5.58	3.733	12.28	5.30	2.23
0.617	2.23	2.183	5.58	3.750	12.28	5.32	2.23
0.633	2.23	2.200	5.58	3.767	5.59	5.33	2.23
0.650	2.23	2.217	5.58	3.783	5.58	5.35	2.23
0.667	2.23	2.233	5.58	3.800	5.58	5.37	2.23
0.683	2.23	2.250	5.58	3.817	5.58	5.38	2.23
0.700	2.23	2.267	6.70	3.833	5.58	5.40	2.23
0.717	2.23	2.283	6.70	3.850	5.58	5.42	2.23
0.733	2.23	2.300	6.70	3.867	5.58	5.43	2.23
0.750	2.23	2.317	6.70	3.883	5.58	5.45	2.23
0.767	3.35	2.333	6.70	3.900	5.58	5.47	2.23
0.783	3.35	2.350	6.70	3.917	5.58	5.48	2.23
0.800	3.35	2.367	6.70	3.933	5.58	5.50	2.23
0.817	3.35	2.383	6.70	3.950	5.58	5.52	2.23
0.833	3.35	2.400	6.70	3.967	5.58	5.53	2.23
0.850	3.35	2.417	6.70	3.983	5.58	5.55	2.23
0.867	3.35	2.433	6.70	4.000	5.58	5.57	2.23
0.883	3.35	2.450	6.70	4.017	5.58	5.58	2.23
0.900	3.35	2.467	6.70	4.033	5.58	5.60	2.23
0.917	3.35	2.483	6.70	4.050	5.58	5.62	2.23
0.933	3.35	2.500	6.70	4.067	5.58	5.63	2.23
0.950	3.35	2.517	6.70	4.083	5.58	5.65	2.23
0.967	3.35	2.533	6.70	4.100	5.58	5.67	2.23
0.983	3.35	2.550	6.70	4.117	5.58	5.68	2.23
1.000	3.35	2.567	6.70	4.133	5.58	5.70	2.23
1.017	3.35	2.583	6.70	4.150	5.58	5.72	2.23
1.033	3.35	2.600	6.70	4.167	5.58	5.73	2.23
1.050	3.35	2.617	6.70	4.183	5.58	5.75	2.23
1.067	3.35	2.633	6.70	4.200	5.58	5.77	2.23
1.083	3.35	2.650	6.70	4.217	5.58	5.78	2.23
1.100	3.35	2.667	6.70	4.233	5.58	5.80	2.23
1.117	3.35	2.683	6.70	4.250	5.58	5.82	2.23
1.133	3.35	2.700	6.70	4.267	4.47	5.83	2.23
1.150	3.35	2.717	6.70	4.283	4.47	5.85	2.23
1.167	3.35	2.733	6.70	4.300	4.47	5.87	2.23
1.183	3.35	2.750	6.70	4.317	4.47	5.88	2.23
1.200	3.35	2.767	33.50	4.333	4.47	5.90	2.23
1.217	3.35	2.783	33.50	4.350	4.47	5.92	2.23
1.233	3.35	2.800	33.50	4.367	4.47	5.93	2.23
1.250	3.35	2.817	33.50	4.383	4.47	5.95	2.23
1.267	3.35	2.833	33.50	4.400	4.47	5.97	2.23
1.283	3.35	2.850	33.50	4.417	4.47	5.98	2.23
1.300	3.35	2.867	33.50	4.433	4.47	6.00	2.23
1.317	3.35	2.883	33.50	4.450	4.47	6.02	2.23
1.333	3.35	2.900	33.50	4.467	4.47	6.03	2.23
1.350	3.35	2.917	33.50	4.483	4.47	6.05	2.23
1.367	3.35	2.933	33.50	4.500	4.47	6.07	2.23
1.383	3.35	2.950	33.50	4.517	4.47	6.08	2.23
1.400	3.35	2.967	33.50	4.533	4.47	6.10	2.23
1.417	3.35	2.983	33.50	4.550	4.47	6.12	2.23
1.433	3.35	3.000	33.50	4.567	4.47	6.13	2.23
1.450	3.35	3.017	87.10	4.583	4.47	6.15	2.23
1.467	3.35	3.033	87.11	4.600	4.47	6.17	2.23
1.483	3.35	3.050	87.11	4.617	4.47	6.18	2.23
1.500	3.35	3.067	87.11	4.633	4.47	6.20	2.23
1.517	3.35	3.083	87.11	4.650	4.47	6.22	2.23
1.533	3.35	3.100	87.11	4.667	4.47	6.23	2.23
1.550	3.35	3.117	87.11	4.683	4.47	6.25	2.23
1.567	3.35	3.133	87.11	4.700	4.47		

Max.Eff.Inten.(mm/hr)=	87.11	31.20	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.06 (ii)	2.61 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.47	0.41	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.027 (iii)
TIME TO PEAK (hrs)=	3.25	3.25	3.25
RUNOFF VOLUME (mm)=	53.84	15.67	44.29
TOTAL RAINFALL (mm)=	55.84	55.84	55.84
RUNOFF COEFFICIENT =	0.96	0.28	0.79

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)	IN= 2---> OUT= 1	OVERFLOW IS OFF

DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0160	0.0036
	0.0010	0.0004	0.0170	0.0043
	0.0060	0.0009	0.0180	0.0051
	0.0080	0.0013	0.0560	0.0059
	0.0100	0.0017	0.1330	0.0068
	0.0120	0.0022	0.2430	0.0078
	0.0130	0.0025	0.3860	0.0089
	0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.027	3.25	44.29
OUTFLOW: ID= 1 (0015)	0.133	0.013	3.32	43.54

PEAK FLOW REDUCTION [Qout/Qin](%)= 46.10
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0024

ADD HYD (0007) | 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.013	3.32	43.54
+ ID2= 2 (0205):	0.02	0.001	3.38	18.66
ID = 3 (0007):	0.16	0.014	3.33	40.02

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.1.2002)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\7b2a3350-e0
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\7b2a3350-e0

DATE: 04-17-2023 TIME: 01:25:46

USER:

COMMENTS: _____

** SIMULATION : J) 10yr 6hr 15min Chicago **

READ STORM | Ptotal= 66.14 mm	Filename: C:\Users\cgagnon\AppData\Local\Temp\5c5ec430-821e-4636-8c82-03edb318c07e\fada1931 Comments: 10yr 6hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	6.61	3.75	14.55	5.50	2.65
0.50	2.65	2.25	6.61	4.00	6.61	5.75	2.65
0.75	2.65	2.50	7.94	4.25	6.61	6.00	2.65

1.00	3.97	2.75	7.94	4.50	5.29	6.25	2.65
1.25	3.97	3.00	39.68	4.75	5.29		
1.50	3.97	3.25	103.18	5.00	3.97		
1.75	3.97	3.50	14.55	5.25	3.97		

CALIB			
NASHYD (0204)	Area	(ha)= 0.06	Curve Number (CN)= 71.0
ID= 1 DT= 1.0 min	Ia	(mm)= 4.85	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97
0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97
0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65
0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65
1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 3.467
RUNOFF VOLUME (mm)= 22.746
TOTAL RAINFALL (mm)= 66.140
RUNOFF COEFFICIENT = 0.344

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0201)	Area	(ha)= 0.17	
ID= 1 DT= 1.0 min	Total Imp(%)=	78.00	Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97
0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97

0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65
0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65
1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Max.Eff.Inten.(mm/hr)=	103.18	42.29	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.31 (ii)	4.21 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.44	0.25	
			TOTALS
PEAK FLOW (cms)=	0.04	0.00	0.042 (iii)
TIME TO PEAK (hrs)=	3.25	3.27	3.25
RUNOFF VOLUME (mm)=	64.14	21.33	54.71
TOTAL RAINFALL (mm)=	66.14	66.14	66.14
RUNOFF COEFFICIENT =	0.97	0.32	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97
0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97
0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65
0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65

1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Max.Eff.Inten.(mm/hr)=		103.18	42.29
over (min)		5.00	4.00
Storage Coeff. (min)=		0.92 (ii)	3.60 (ii)
Unit Hyd. Tpeak (min)=		5.00	4.00
Unit Hyd. peak (cms)=		0.48	0.30
			TOTALS
PEAK FLOW	(cms)=	0.02	0.00	0.027 (iii)
TIME TO PEAK	(hrs)=	3.25	3.25	3.25
RUNOFF VOLUME	(mm)=	64.14	21.33	56.00
TOTAL RAINFALL	(mm)=	66.14	66.14	66.14
RUNOFF COEFFICIENT	=	0.97	0.32	0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
	ID1= 1 (0201):	0.17	0.042	3.25	54.71
	+ ID2= 2 (0202):	0.11	0.027	3.25	56.00
	ID = 3 (0010):	0.27	0.069	3.25	55.20

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)

INFLOW : ID= 2 (0010)	0.275	0.069	3.25	55.20
OUTFLOW: ID= 1 (0012)	0.275	0.019	3.35	54.38

PEAK FLOW REDUCTION [Qout/Qin](%)= 27.67
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0075

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
	ID1= 1 (0012):	0.27	0.019	3.35	54.38
	+ ID2= 2 (0204):	0.06	0.004	3.47	22.75
	ID = 3 (0014):	0.34	0.022	3.40	48.48

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0205)	Area (ha)=	0.02	Curve Number (CN)= 74.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.56	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.22	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97
0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97
0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65

0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65
1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 3.383
RUNOFF VOLUME (mm)= 25.095
TOTAL RAINFALL (mm)= 66.140
RUNOFF COEFFICIENT = 0.379

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.13
STANDHYD (0203)	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00
ID= 1 DT= 1.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	3.97	3.150	103.18	4.72	5.29
0.033	0.00	1.600	3.97	3.167	103.18	4.73	5.29
0.050	0.00	1.617	3.97	3.183	103.18	4.75	5.29
0.067	0.00	1.633	3.97	3.200	103.18	4.77	3.97
0.083	0.00	1.650	3.97	3.217	103.18	4.78	3.97
0.100	0.00	1.667	3.97	3.233	103.18	4.80	3.97
0.117	0.00	1.683	3.97	3.250	103.18	4.82	3.97
0.133	0.00	1.700	3.97	3.267	14.56	4.83	3.97
0.150	0.00	1.717	3.97	3.283	14.55	4.85	3.97
0.167	0.00	1.733	3.97	3.300	14.55	4.87	3.97
0.183	0.00	1.750	3.97	3.317	14.55	4.88	3.97
0.200	0.00	1.767	6.61	3.333	14.55	4.90	3.97
0.217	0.00	1.783	6.61	3.350	14.55	4.92	3.97
0.233	0.00	1.800	6.61	3.367	14.55	4.93	3.97
0.250	0.00	1.817	6.61	3.383	14.55	4.95	3.97
0.267	2.65	1.833	6.61	3.400	14.55	4.97	3.97
0.283	2.65	1.850	6.61	3.417	14.55	4.98	3.97
0.300	2.65	1.867	6.61	3.433	14.55	5.00	3.97
0.317	2.65	1.883	6.61	3.450	14.55	5.02	3.97
0.333	2.65	1.900	6.61	3.467	14.55	5.03	3.97
0.350	2.65	1.917	6.61	3.483	14.55	5.05	3.97
0.367	2.65	1.933	6.61	3.500	14.55	5.07	3.97
0.383	2.65	1.950	6.61	3.517	14.55	5.08	3.97
0.400	2.65	1.967	6.61	3.533	14.55	5.10	3.97
0.417	2.65	1.983	6.61	3.550	14.55	5.12	3.97
0.433	2.65	2.000	6.61	3.567	14.55	5.13	3.97
0.450	2.65	2.017	6.61	3.583	14.55	5.15	3.97
0.467	2.65	2.033	6.61	3.600	14.55	5.17	3.97
0.483	2.65	2.050	6.61	3.617	14.55	5.18	3.97
0.500	2.65	2.067	6.61	3.633	14.55	5.20	3.97
0.517	2.65	2.083	6.61	3.650	14.55	5.22	3.97
0.533	2.65	2.100	6.61	3.667	14.55	5.23	3.97
0.550	2.65	2.117	6.61	3.683	14.55	5.25	3.97
0.567	2.65	2.133	6.61	3.700	14.55	5.27	2.65
0.583	2.65	2.150	6.61	3.717	14.55	5.28	2.65
0.600	2.65	2.167	6.61	3.733	14.55	5.30	2.65
0.617	2.65	2.183	6.61	3.750	14.55	5.32	2.65
0.633	2.65	2.200	6.61	3.767	6.62	5.33	2.65
0.650	2.65	2.217	6.61	3.783	6.61	5.35	2.65
0.667	2.65	2.233	6.61	3.800	6.61	5.37	2.65
0.683	2.65	2.250	6.61	3.817	6.61	5.38	2.65
0.700	2.65	2.267	7.94	3.833	6.61	5.40	2.65
0.717	2.65	2.283	7.94	3.850	6.61	5.42	2.65
0.733	2.65	2.300	7.94	3.867	6.61	5.43	2.65
0.750	2.65	2.317	7.94	3.883	6.61	5.45	2.65
0.767	3.97	2.333	7.94	3.900	6.61	5.47	2.65
0.783	3.97	2.350	7.94	3.917	6.61	5.48	2.65
0.800	3.97	2.367	7.94	3.933	6.61	5.50	2.65
0.817	3.97	2.383	7.94	3.950	6.61	5.52	2.65
0.833	3.97	2.400	7.94	3.967	6.61	5.53	2.65
0.850	3.97	2.417	7.94	3.983	6.61	5.55	2.65
0.867	3.97	2.433	7.94	4.000	6.61	5.57	2.65
0.883	3.97	2.450	7.94	4.017	6.61	5.58	2.65
0.900	3.97	2.467	7.94	4.033	6.61	5.60	2.65
0.917	3.97	2.483	7.94	4.050	6.61	5.62	2.65
0.933	3.97	2.500	7.94	4.067	6.61	5.63	2.65
0.950	3.97	2.517	7.94	4.083	6.61	5.65	2.65
0.967	3.97	2.533	7.94	4.100	6.61	5.67	2.65
0.983	3.97	2.550	7.94	4.117	6.61	5.68	2.65
1.000	3.97	2.567	7.94	4.133	6.61	5.70	2.65
1.017	3.97	2.583	7.94	4.150	6.61	5.72	2.65
1.033	3.97	2.600	7.94	4.167	6.61	5.73	2.65
1.050	3.97	2.617	7.94	4.183	6.61	5.75	2.65
1.067	3.97	2.633	7.94	4.200	6.61	5.77	2.65
1.083	3.97	2.650	7.94	4.217	6.61	5.78	2.65
1.100	3.97	2.667	7.94	4.233	6.61	5.80	2.65
1.117	3.97	2.683	7.94	4.250	6.61	5.82	2.65
1.133	3.97	2.700	7.94	4.267	5.29	5.83	2.65
1.150	3.97	2.717	7.94	4.283	5.29	5.85	2.65
1.167	3.97	2.733	7.94	4.300	5.29	5.87	2.65
1.183	3.97	2.750	7.94	4.317	5.29	5.88	2.65
1.200	3.97	2.767	39.68	4.333	5.29	5.90	2.65
1.217	3.97	2.783	39.68	4.350	5.29	5.92	2.65
1.233	3.97	2.800	39.68	4.367	5.29	5.93	2.65
1.250	3.97	2.817	39.68	4.383	5.29	5.95	2.65
1.267	3.97	2.833	39.68	4.400	5.29	5.97	2.65
1.283	3.97	2.850	39.68	4.417	5.29	5.98	2.65
1.300	3.97	2.867	39.68	4.433	5.29	6.00	2.65
1.317	3.97	2.883	39.68	4.450	5.29	6.02	2.65
1.333	3.97	2.900	39.68	4.467	5.29	6.03	2.65
1.350	3.97	2.917	39.68	4.483	5.29	6.05	2.65
1.367	3.97	2.933	39.68	4.500	5.29	6.07	2.65
1.383	3.97	2.950	39.68	4.517	5.29	6.08	2.65
1.400	3.97	2.967	39.68	4.533	5.29	6.10	2.65
1.417	3.97	2.983	39.68	4.550	5.29	6.12	2.65
1.433	3.97	3.000	39.68	4.567	5.29	6.13	2.65
1.450	3.97	3.017	103.17	4.583	5.29	6.15	2.65
1.467	3.97	3.033	103.18	4.600	5.29	6.17	2.65
1.483	3.97	3.050	103.18	4.617	5.29	6.18	2.65
1.500	3.97	3.067	103.18	4.633	5.29	6.20	2.65
1.517	3.97	3.083	103.18	4.650	5.29	6.22	2.65
1.533	3.97	3.100	103.18	4.667	5.29	6.23	2.65
1.550	3.97	3.117	103.18	4.683	5.29	6.25	2.64
1.567	3.97	3.133	103.18	4.700	5.29		

Max.Eff.Inten.(mm/hr)= 103.18 42.29

```
            over (min)        5.00          3.00
     Storage Coeff.  (min)=       0.99 (ii)    2.44 (ii)
     Unit Hyd. Tpeak (min)=       5.00          3.00
     Unit Hyd. peak  (cms)=       0.48          0.43
                                                  *TOTALS*
     PEAK FLOW       (cms)=       0.03          0.00          0.033 (iii)
     TIME TO PEAK    (hrs)=       3.25          3.25           3.25
     RUNOFF VOLUME    (mm)=      64.14         21.33          53.43
     TOTAL RAINFALL   (mm)=      66.14         66.14          66.14
     RUNOFF COEFFICIENT   =       0.97          0.32           0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)    |   (cms)     (ha.m.)
                          0.0000     0.0000    |   0.0160     0.0036
                          0.0010     0.0004    |   0.0170     0.0043
                          0.0060     0.0009    |   0.0180     0.0051
                          0.0080     0.0013    |   0.0560     0.0059
                          0.0100     0.0017    |   0.1330     0.0068
                          0.0120     0.0022    |   0.2430     0.0078
                          0.0130     0.0025    |   0.3860     0.0089
                          0.0140     0.0030    |   0.0000     0.0000

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)     0.133     0.033      3.25      53.43
   OUTFLOW: ID= 1 (  0015)     0.133     0.014      3.32      52.68

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 41.96
                  TIME SHIFT OF PEAK FLOW         (min)=  4.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0029

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):      0.13   0.014     3.32    52.68
     + ID2= 2 (  0205):      0.02   0.002     3.38    25.10
       ================================================
       ID = 3 (  0007):      0.16   0.015     3.33    48.78

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I      SS   U   U  AAAAA  L
        V  V    I       SS  U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\75c50622-21
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\75c50622-21


DATE: 04-17-2023                          TIME: 01:25:46

USER:
```

COMMENTS: _____

```
  ************************************************
  ** SIMULATION : K) 25yr 6hr 15min Chicago     **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\9c561ff2
| Ptotal= 79.04 mm |    Comments: 25yr 6hr 15min SCS Type II (MTO)
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	7.90	3.75	17.39	5.50	3.16
0.50	3.16	2.25	7.90	4.00	7.90	5.75	3.16
0.75	3.16	2.50	9.48	4.25	7.90	6.00	3.16
1.00	4.74	2.75	9.48	4.50	6.32	6.25	3.16
1.25	4.74	3.00	47.42	4.75	6.32		
1.50	4.74	3.25	123.30	5.00	4.74		
1.75	4.74	3.50	17.39	5.25	4.74		

```
--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	4.74	3.150	123.30	4.72	6.32
0.033	0.00	1.600	4.74	3.167	123.30	4.73	6.32
0.050	0.00	1.617	4.74	3.183	123.30	4.75	6.32
0.067	0.00	1.633	4.74	3.200	123.30	4.77	4.74
0.083	0.00	1.650	4.74	3.217	123.30	4.78	4.74
0.100	0.00	1.667	4.74	3.233	123.30	4.80	4.74
0.117	0.00	1.683	4.74	3.250	123.30	4.82	4.74
0.133	0.00	1.700	4.74	3.267	17.40	4.83	4.74
0.150	0.00	1.717	4.74	3.283	17.39	4.85	4.74
0.167	0.00	1.733	4.74	3.300	17.39	4.87	4.74
0.183	0.00	1.750	4.74	3.317	17.39	4.88	4.74
0.200	0.00	1.767	7.90	3.333	17.39	4.90	4.74
0.217	0.00	1.783	7.90	3.350	17.39	4.92	4.74
0.233	0.00	1.800	7.90	3.367	17.39	4.93	4.74
0.250	0.00	1.817	7.90	3.383	17.39	4.95	4.74
0.267	3.16	1.833	7.90	3.400	17.39	4.97	4.74
0.283	3.16	1.850	7.90	3.417	17.39	4.98	4.74
0.300	3.16	1.867	7.90	3.433	17.39	5.00	4.74
0.317	3.16	1.883	7.90	3.450	17.39	5.02	4.74
0.333	3.16	1.900	7.90	3.467	17.39	5.03	4.74
0.350	3.16	1.917	7.90	3.483	17.39	5.05	4.74
0.367	3.16	1.933	7.90	3.500	17.39	5.07	4.74
0.383	3.16	1.950	7.90	3.517	17.39	5.08	4.74
0.400	3.16	1.967	7.90	3.533	17.39	5.10	4.74
0.417	3.16	1.983	7.90	3.550	17.39	5.12	4.74
0.433	3.16	2.000	7.90	3.567	17.39	5.13	4.74
0.450	3.16	2.017	7.90	3.583	17.39	5.15	4.74
0.467	3.16	2.033	7.90	3.600	17.39	5.17	4.74
0.483	3.16	2.050	7.90	3.617	17.39	5.18	4.74
0.500	3.16	2.067	7.90	3.633	17.39	5.20	4.74
0.517	3.16	2.083	7.90	3.650	17.39	5.22	4.74
0.533	3.16	2.100	7.90	3.667	17.39	5.23	4.74
0.550	3.16	2.117	7.90	3.683	17.39	5.25	4.74
0.567	3.16	2.133	7.90	3.700	17.39	5.27	3.16
0.583	3.16	2.150	7.90	3.717	17.39	5.28	3.16
0.600	3.16	2.167	7.90	3.733	17.39	5.30	3.16
0.617	3.16	2.183	7.90	3.750	17.39	5.32	3.16
0.633	3.16	2.200	7.90	3.767	7.91	5.33	3.16
0.650	3.16	2.217	7.90	3.783	7.90	5.35	3.16
0.667	3.16	2.233	7.90	3.800	7.90	5.37	3.16
0.683	3.16	2.250	7.90	3.817	7.90	5.38	3.16
0.700	3.16	2.267	9.48	3.833	7.90	5.40	3.16

0.717	3.16	2.283	9.48	3.850	7.90	5.42	3.16
0.733	3.16	2.300	9.48	3.867	7.90	5.43	3.16
0.750	3.16	2.317	9.48	3.883	7.90	5.45	3.16
0.767	4.74	2.333	9.48	3.900	7.90	5.47	3.16
0.783	4.74	2.350	9.48	3.917	7.90	5.48	3.16
0.800	4.74	2.367	9.48	3.933	7.90	5.50	3.16
0.817	4.74	2.383	9.48	3.950	7.90	5.52	3.16
0.833	4.74	2.400	9.48	3.967	7.90	5.53	3.16
0.850	4.74	2.417	9.48	3.983	7.90	5.55	3.16
0.867	4.74	2.433	9.48	4.000	7.90	5.57	3.16
0.883	4.74	2.450	9.48	4.017	7.90	5.58	3.16
0.900	4.74	2.467	9.48	4.033	7.90	5.60	3.16
0.917	4.74	2.483	9.48	4.050	7.90	5.62	3.16
0.933	4.74	2.500	9.48	4.067	7.90	5.63	3.16
0.950	4.74	2.517	9.48	4.083	7.90	5.65	3.16
0.967	4.74	2.533	9.48	4.100	7.90	5.67	3.16
0.983	4.74	2.550	9.48	4.117	7.90	5.68	3.16
1.000	4.74	2.567	9.48	4.133	7.90	5.70	3.16
1.017	4.74	2.583	9.48	4.150	7.90	5.72	3.16
1.033	4.74	2.600	9.48	4.167	7.90	5.73	3.16
1.050	4.74	2.617	9.48	4.183	7.90	5.75	3.16
1.067	4.74	2.633	9.48	4.200	7.90	5.77	3.16
1.083	4.74	2.650	9.48	4.217	7.90	5.78	3.16
1.100	4.74	2.667	9.48	4.233	7.90	5.80	3.16
1.117	4.74	2.683	9.48	4.250	7.90	5.82	3.16
1.133	4.74	2.700	9.48	4.267	6.32	5.83	3.16
1.150	4.74	2.717	9.48	4.283	6.32	5.85	3.16
1.167	4.74	2.733	9.48	4.300	6.32	5.87	3.16
1.183	4.74	2.750	9.48	4.317	6.32	5.88	3.16
1.200	4.74	2.767	47.42	4.333	6.32	5.90	3.16
1.217	4.74	2.783	47.42	4.350	6.32	5.92	3.16
1.233	4.74	2.800	47.42	4.367	6.32	5.93	3.16
1.250	4.74	2.817	47.42	4.383	6.32	5.95	3.16
1.267	4.74	2.833	47.42	4.400	6.32	5.97	3.16
1.283	4.74	2.850	47.42	4.417	6.32	5.98	3.16
1.300	4.74	2.867	47.42	4.433	6.32	6.00	3.16
1.317	4.74	2.883	47.42	4.450	6.32	6.02	3.16
1.333	4.74	2.900	47.42	4.467	6.32	6.03	3.16
1.350	4.74	2.917	47.42	4.483	6.32	6.05	3.16
1.367	4.74	2.933	47.42	4.500	6.32	6.07	3.16
1.383	4.74	2.950	47.42	4.517	6.32	6.08	3.16
1.400	4.74	2.967	47.42	4.533	6.32	6.10	3.16
1.417	4.74	2.983	47.42	4.550	6.32	6.12	3.16
1.433	4.74	3.000	47.42	4.567	6.32	6.13	3.16
1.450	4.74	3.017	123.29	4.583	6.32	6.15	3.16
1.467	4.74	3.033	123.30	4.600	6.32	6.17	3.16
1.483	4.74	3.050	123.30	4.617	6.32	6.18	3.16
1.500	4.74	3.067	123.30	4.633	6.32	6.20	3.16
1.517	4.74	3.083	123.30	4.650	6.32	6.22	3.16
1.533	4.74	3.100	123.30	4.667	6.32	6.23	3.16
1.550	4.74	3.117	123.30	4.683	6.32	6.25	3.16
1.567	4.74	3.133	123.30	4.700	6.32		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.005 (i)
TIME TO PEAK (hrs)= 3.467
RUNOFF VOLUME (mm)= 30.917
TOTAL RAINFALL (mm)= 79.040
RUNOFF COEFFICIENT = 0.391

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	4.74	3.150	123.30	4.72	6.32
0.033	0.00	1.600	4.74	3.167	123.30	4.73	6.32
0.050	0.00	1.617	4.74	3.183	123.30	4.75	6.32
0.067	0.00	1.633	4.74	3.200	123.30	4.77	4.74
0.083	0.00	1.650	4.74	3.217	123.30	4.78	4.74
0.100	0.00	1.667	4.74	3.233	123.30	4.80	4.74
0.117	0.00	1.683	4.74	3.250	123.30	4.82	4.74
0.133	0.00	1.700	4.74	3.267	17.40	4.83	4.74
0.150	0.00	1.717	4.74	3.283	17.39	4.85	4.74
0.167	0.00	1.733	4.74	3.300	17.39	4.87	4.74
0.183	0.00	1.750	4.74	3.317	17.39	4.88	4.74
0.200	0.00	1.767	7.90	3.333	17.39	4.90	4.74
0.217	0.00	1.783	7.90	3.350	17.39	4.92	4.74
0.233	0.00	1.800	7.90	3.367	17.39	4.93	4.74
0.250	0.00	1.817	7.90	3.383	17.39	4.95	4.74
0.267	3.16	1.833	7.90	3.400	17.39	4.97	4.74
0.283	3.16	1.850	7.90	3.417	17.39	4.98	4.74
0.300	3.16	1.867	7.90	3.433	17.39	5.00	4.74
0.317	3.16	1.883	7.90	3.450	17.39	5.02	4.74
0.333	3.16	1.900	7.90	3.467	17.39	5.03	4.74
0.350	3.16	1.917	7.90	3.483	17.39	5.05	4.74
0.367	3.16	1.933	7.90	3.500	17.39	5.07	4.74
0.383	3.16	1.950	7.90	3.517	17.39	5.08	4.74
0.400	3.16	1.967	7.90	3.533	17.39	5.10	4.74
0.417	3.16	1.983	7.90	3.550	17.39	5.12	4.74
0.433	3.16	2.000	7.90	3.567	17.39	5.13	4.74
0.450	3.16	2.017	7.90	3.583	17.39	5.15	4.74
0.467	3.16	2.033	7.90	3.600	17.39	5.17	4.74
0.483	3.16	2.050	7.90	3.617	17.39	5.18	4.74
0.500	3.16	2.067	7.90	3.633	17.39	5.20	4.74
0.517	3.16	2.083	7.90	3.650	17.39	5.22	4.74
0.533	3.16	2.100	7.90	3.667	17.39	5.23	4.74
0.550	3.16	2.117	7.90	3.683	17.39	5.25	4.74
0.567	3.16	2.133	7.90	3.700	17.39	5.27	3.16
0.583	3.16	2.150	7.90	3.717	17.39	5.28	3.16
0.600	3.16	2.167	7.90	3.733	17.39	5.30	3.16
0.617	3.16	2.183	7.90	3.750	17.39	5.32	3.16
0.633	3.16	2.200	7.90	3.767	7.91	5.33	3.16
0.650	3.16	2.217	7.90	3.783	7.90	5.35	3.16
0.667	3.16	2.233	7.90	3.800	7.90	5.37	3.16
0.683	3.16	2.250	7.90	3.817	7.90	5.38	3.16
0.700	3.16	2.267	9.48	3.833	7.90	5.40	3.16
0.717	3.16	2.283	9.48	3.850	7.90	5.42	3.16
0.733	3.16	2.300	9.48	3.867	7.90	5.43	3.16
0.750	3.16	2.317	9.48	3.883	7.90	5.45	3.16
0.767	4.74	2.333	9.48	3.900	7.90	5.47	3.16
0.783	4.74	2.350	9.48	3.917	7.90	5.48	3.16
0.800	4.74	2.367	9.48	3.933	7.90	5.50	3.16
0.817	4.74	2.383	9.48	3.950	7.90	5.52	3.16
0.833	4.74	2.400	9.48	3.967	7.90	5.53	3.16
0.850	4.74	2.417	9.48	3.983	7.90	5.55	3.16
0.867	4.74	2.433	9.48	4.000	7.90	5.57	3.16
0.883	4.74	2.450	9.48	4.017	7.90	5.58	3.16
0.900	4.74	2.467	9.48	4.033	7.90	5.60	3.16
0.917	4.74	2.483	9.48	4.050	7.90	5.62	3.16
0.933	4.74	2.500	9.48	4.067	7.90	5.63	3.16
0.950	4.74	2.517	9.48	4.083	7.90	5.65	3.16
0.967	4.74	2.533	9.48	4.100	7.90	5.67	3.16
0.983	4.74	2.550	9.48	4.117	7.90	5.68	3.16
1.000	4.74	2.567	9.48	4.133	7.90	5.70	3.16
1.017	4.74	2.583	9.48	4.150	7.90	5.72	3.16
1.033	4.74	2.600	9.48	4.167	7.90	5.73	3.16
1.050	4.74	2.617	9.48	4.183	7.90	5.75	3.16
1.067	4.74	2.633	9.48	4.200	7.90	5.77	3.16
1.083	4.74	2.650	9.48	4.217	7.90	5.78	3.16
1.100	4.74	2.667	9.48	4.233	7.90	5.80	3.16
1.117	4.74	2.683	9.48	4.250	7.90	5.82	3.16
1.133	4.74	2.700	9.48	4.267	6.32	5.83	3.16
1.150	4.74	2.717	9.48	4.283	6.32	5.85	3.16
1.167	4.74	2.733	9.48	4.300	6.32	5.87	3.16
1.183	4.74	2.750	9.48	4.317	6.32	5.88	3.16
1.200	4.74	2.767	47.42	4.333	6.32	5.90	3.16
1.217	4.74	2.783	47.42	4.350	6.32	5.92	3.16
1.233	4.74	2.800	47.42	4.367	6.32	5.93	3.16
1.250	4.74	2.817	47.42	4.383	6.32	5.95	3.16
1.267	4.74	2.833	47.42	4.400	6.32	5.97	3.16
1.283	4.74	2.850	47.42	4.417	6.32	5.98	3.16
1.300	4.74	2.867	47.42	4.433	6.32	6.00	3.16
1.317	4.74	2.883	47.42	4.450	6.32	6.02	3.16
1.333	4.74	2.900	47.42	4.467	6.32	6.03	3.16
1.350	4.74	2.917	47.42	4.483	6.32	6.05	3.16
1.367	4.74	2.933	47.42	4.500	6.32	6.07	3.16
1.383	4.74	2.950	47.42	4.517	6.32	6.08	3.16
1.400	4.74	2.967	47.42	4.533	6.32	6.10	3.16
1.417	4.74	2.983	47.42	4.550	6.32	6.12	3.16
1.433	4.74	3.000	47.42	4.567	6.32	6.13	3.16

1.450	4.74	3.017	123.29	4.583	6.32	6.15	3.16
1.467	4.74	3.033	123.30	4.600	6.32	6.17	3.16
1.483	4.74	3.050	123.30	4.617	6.32	6.18	3.16
1.500	4.74	3.067	123.30	4.633	6.32	6.20	3.16
1.517	4.74	3.083	123.30	4.650	6.32	6.22	3.16
1.533	4.74	3.100	123.30	4.667	6.32	6.23	3.16
1.550	4.74	3.117	123.30	4.683	6.32	6.25	3.16
1.567	4.74	3.133	123.30	4.700	6.32		

Max.Eff.Inten.(mm/hr)=		123.30	57.49	
over (min)		5.00	4.00	
Storage Coeff. (min)=		1.22 (ii)	3.92 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.45	0.29	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.01	0.051 (iii)
TIME TO PEAK	(hrs)=	3.25	3.25	3.25
RUNOFF VOLUME	(mm)=	77.04	29.13	66.49
TOTAL RAINFALL	(mm)=	79.04	79.04	79.04
RUNOFF COEFFICIENT	=	0.97	0.37	0.84

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	4.74	3.150	123.30	4.72	6.32
0.033	0.00	1.600	4.74	3.167	123.30	4.73	6.32
0.050	0.00	1.617	4.74	3.183	123.30	4.75	6.32
0.067	0.00	1.633	4.74	3.200	123.30	4.77	4.74
0.083	0.00	1.650	4.74	3.217	123.30	4.78	4.74
0.100	0.00	1.667	4.74	3.233	123.30	4.80	4.74
0.117	0.00	1.683	4.74	3.250	123.30	4.82	4.74
0.133	0.00	1.700	4.74	3.267	17.40	4.83	4.74
0.150	0.00	1.717	4.74	3.283	17.39	4.85	4.74
0.167	0.00	1.733	4.74	3.300	17.39	4.87	4.74
0.183	0.00	1.750	4.74	3.317	17.39	4.88	4.74
0.200	0.00	1.767	7.90	3.333	17.39	4.90	4.74
0.217	0.00	1.783	7.90	3.350	17.39	4.92	4.74
0.233	0.00	1.800	7.90	3.367	17.39	4.93	4.74
0.250	0.00	1.817	7.90	3.383	17.39	4.95	4.74
0.267	3.16	1.833	7.90	3.400	17.39	4.97	4.74
0.283	3.16	1.850	7.90	3.417	17.39	4.98	4.74
0.300	3.16	1.867	7.90	3.433	17.39	5.00	4.74
0.317	3.16	1.883	7.90	3.450	17.39	5.02	4.74
0.333	3.16	1.900	7.90	3.467	17.39	5.03	4.74
0.350	3.16	1.917	7.90	3.483	17.39	5.05	4.74
0.367	3.16	1.933	7.90	3.500	17.39	5.07	4.74
0.383	3.16	1.950	7.90	3.517	17.39	5.08	4.74
0.400	3.16	1.967	7.90	3.533	17.39	5.10	4.74
0.417	3.16	1.983	7.90	3.550	17.39	5.12	4.74
0.433	3.16	2.000	7.90	3.567	17.39	5.13	4.74
0.450	3.16	2.017	7.90	3.583	17.39	5.15	4.74
0.467	3.16	2.033	7.90	3.600	17.39	5.17	4.74
0.483	3.16	2.050	7.90	3.617	17.39	5.18	4.74
0.500	3.16	2.067	7.90	3.633	17.39	5.20	4.74
0.517	3.16	2.083	7.90	3.650	17.39	5.22	4.74
0.533	3.16	2.100	7.90	3.667	17.39	5.23	4.74
0.550	3.16	2.117	7.90	3.683	17.39	5.25	4.74
0.567	3.16	2.133	7.90	3.700	17.39	5.27	3.16
0.583	3.16	2.150	7.90	3.717	17.39	5.28	3.16
0.600	3.16	2.167	7.90	3.733	17.39	5.30	3.16
0.617	3.16	2.183	7.90	3.750	17.39	5.32	3.16
0.633	3.16	2.200	7.90	3.767	7.91	5.33	3.16
0.650	3.16	2.217	7.90	3.783	7.90	5.35	3.16
0.667	3.16	2.233	7.90	3.800	7.90	5.37	3.16
0.683	3.16	2.250	7.90	3.817	7.90	5.38	3.16
0.700	3.16	2.267	9.48	3.833	7.90	5.40	3.16
0.717	3.16	2.283	9.48	3.850	7.90	5.42	3.16
0.733	3.16	2.300	9.48	3.867	7.90	5.43	3.16
0.750	3.16	2.317	9.48	3.883	7.90	5.45	3.16
0.767	4.74	2.333	9.48	3.900	7.90	5.47	3.16
0.783	4.74	2.350	9.48	3.917	7.90	5.48	3.16
0.800	4.74	2.367	9.48	3.933	7.90	5.50	3.16
0.817	4.74	2.383	9.48	3.950	7.90	5.52	3.16
0.833	4.74	2.400	9.48	3.967	7.90	5.53	3.16
0.850	4.74	2.417	9.48	3.983	7.90	5.55	3.16
0.867	4.74	2.433	9.48	4.000	7.90	5.57	3.16
0.883	4.74	2.450	9.48	4.017	7.90	5.58	3.16
0.900	4.74	2.467	9.48	4.033	7.90	5.60	3.16
0.917	4.74	2.483	9.48	4.050	7.90	5.62	3.16
0.933	4.74	2.500	9.48	4.067	7.90	5.63	3.16
0.950	4.74	2.517	9.48	4.083	7.90	5.65	3.16
0.967	4.74	2.533	9.48	4.100	7.90	5.67	3.16
0.983	4.74	2.550	9.48	4.117	7.90	5.68	3.16
1.000	4.74	2.567	9.48	4.133	7.90	5.70	3.16
1.017	4.74	2.583	9.48	4.150	7.90	5.72	3.16
1.033	4.74	2.600	9.48	4.167	7.90	5.73	3.16
1.050	4.74	2.617	9.48	4.183	7.90	5.75	3.16
1.067	4.74	2.633	9.48	4.200	7.90	5.77	3.16
1.083	4.74	2.650	9.48	4.217	7.90	5.78	3.16
1.100	4.74	2.667	9.48	4.233	7.90	5.80	3.16
1.117	4.74	2.683	9.48	4.250	7.90	5.82	3.16
1.133	4.74	2.700	9.48	4.267	6.32	5.83	3.16
1.150	4.74	2.717	9.48	4.283	6.32	5.85	3.16
1.167	4.74	2.733	9.48	4.300	6.32	5.87	3.16
1.183	4.74	2.750	9.48	4.317	6.32	5.88	3.16
1.200	4.74	2.767	47.42	4.333	6.32	5.90	3.16
1.217	4.74	2.783	47.42	4.350	6.32	5.92	3.16
1.233	4.74	2.800	47.42	4.367	6.32	5.93	3.16
1.250	4.74	2.817	47.42	4.383	6.32	5.95	3.16
1.267	4.74	2.833	47.42	4.400	6.32	5.97	3.16
1.283	4.74	2.850	47.42	4.417	6.32	5.98	3.16
1.300	4.74	2.867	47.42	4.433	6.32	6.00	3.16
1.317	4.74	2.883	47.42	4.450	6.32	6.02	3.16
1.333	4.74	2.900	47.42	4.467	6.32	6.03	3.16
1.350	4.74	2.917	47.42	4.483	6.32	6.05	3.16
1.367	4.74	2.933	47.42	4.500	6.32	6.07	3.16
1.383	4.74	2.950	47.42	4.517	6.32	6.08	3.16
1.400	4.74	2.967	47.42	4.533	6.32	6.10	3.16
1.417	4.74	2.983	47.42	4.550	6.32	6.12	3.16
1.433	4.74	3.000	47.42	4.567	6.32	6.13	3.16
1.450	4.74	3.017	123.29	4.583	6.32	6.15	3.16
1.467	4.74	3.033	123.30	4.600	6.32	6.17	3.16
1.483	4.74	3.050	123.30	4.617	6.32	6.18	3.16
1.500	4.74	3.067	123.30	4.633	6.32	6.20	3.16
1.517	4.74	3.083	123.30	4.650	6.32	6.22	3.16
1.533	4.74	3.100	123.30	4.667	6.32	6.23	3.16
1.550	4.74	3.117	123.30	4.683	6.32	6.25	3.16
1.567	4.74	3.133	123.30	4.700	6.32		

Max.Eff.Inten.(mm/hr)=		123.30	57.49	
over (min)		5.00	4.00	
Storage Coeff. (min)=		0.86 (ii)	3.35 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.49	0.32	
				TOTALS
PEAK FLOW	(cms)=	0.03	0.00	0.032 (iii)
TIME TO PEAK	(hrs)=	3.23	3.25	3.25
RUNOFF VOLUME	(mm)=	77.04	29.13	67.93
TOTAL RAINFALL	(mm)=	79.04	79.04	79.04
RUNOFF COEFFICIENT	=	0.97	0.37	0.86

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3				

```
       ID1= 1 (  0201):     0.17   0.051     3.25    66.49
     + ID2= 2 (  0202):     0.11   0.032     3.25    67.93
       ================================================
       ID = 3 (  0010):     0.27   0.083     3.25    67.04

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0012)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)    |   (cms)     (ha.m.)
                          0.0000     0.0000    |   0.0200     0.0082
                          0.0010     0.0009    |   0.0210     0.0098
                          0.0070     0.0019    |   0.0230     0.0115
                          0.0100     0.0028    |   0.0240     0.0134
                          0.0130     0.0038    |   0.0620     0.0155
                          0.0150     0.0047    |   0.1400     0.0177
                          0.0170     0.0054    |   0.2500     0.0200
                          0.0180     0.0067    |   0.0000     0.0000

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0010)     0.275     0.083      3.25      67.04
   OUTFLOW: ID= 1 (  0012)     0.275     0.021      3.35      66.22

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 24.68
                  TIME SHIFT OF PEAK FLOW         (min)=  6.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0091

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0012):     0.27   0.021     3.35    66.22
     + ID2= 2 (  0204):     0.06   0.005     3.47    30.92
       ================================================
       ID = 3 (  0014):     0.34   0.025     3.45    59.63

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| NASHYD   (  0205)|   Area    (ha)=   0.02   Curve Number   (CN)= 74.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.56   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.22

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                        ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.017    0.00 | 1.583    4.74 | 3.150  123.30 |  4.72    6.32
               0.033    0.00 | 1.600    4.74 | 3.167  123.30 |  4.73    6.32
               0.050    0.00 | 1.617    4.74 | 3.183  123.30 |  4.75    6.32
               0.067    0.00 | 1.633    4.74 | 3.200  123.30 |  4.77    4.74
               0.083    0.00 | 1.650    4.74 | 3.217  123.30 |  4.78    4.74
               0.100    0.00 | 1.667    4.74 | 3.233  123.30 |  4.80    4.74
               0.117    0.00 | 1.683    4.74 | 3.250  123.30 |  4.82    4.74
               0.133    0.00 | 1.700    4.74 | 3.267   17.40 |  4.83    4.74
               0.150    0.00 | 1.717    4.74 | 3.283   17.39 |  4.85    4.74
               0.167    0.00 | 1.733    4.74 | 3.300   17.39 |  4.87    4.74
               0.183    0.00 | 1.750    4.74 | 3.317   17.39 |  4.88    4.74
               0.200    0.00 | 1.767    7.90 | 3.333   17.39 |  4.90    4.74
               0.217    0.00 | 1.783    7.90 | 3.350   17.39 |  4.92    4.74
               0.233    0.00 | 1.800    7.90 | 3.367   17.39 |  4.93    4.74
               0.250    0.00 | 1.817    7.90 | 3.383   17.39 |  4.95    4.74
               0.267    3.16 | 1.833    7.90 | 3.400   17.39 |  4.97    4.74
               0.283    3.16 | 1.850    7.90 | 3.417   17.39 |  4.98    4.74
               0.300    3.16 | 1.867    7.90 | 3.433   17.39 |  5.00    4.74
               0.317    3.16 | 1.883    7.90 | 3.450   17.39 |  5.02    4.74
               0.333    3.16 | 1.900    7.90 | 3.467   17.39 |  5.03    4.74
               0.350    3.16 | 1.917    7.90 | 3.483   17.39 |  5.05    4.74
               0.367    3.16 | 1.933    7.90 | 3.500   17.39 |  5.07    4.74
               0.383    3.16 | 1.950    7.90 | 3.517   17.39 |  5.08    4.74
               0.400    3.16 | 1.967    7.90 | 3.533   17.39 |  5.10    4.74
               0.417    3.16 | 1.983    7.90 | 3.550   17.39 |  5.12    4.74
               0.433    3.16 | 2.000    7.90 | 3.567   17.39 |  5.13    4.74
               0.450    3.16 | 2.017    7.90 | 3.583   17.39 |  5.15    4.74
               0.467    3.16 | 2.033    7.90 | 3.600   17.39 |  5.17    4.74
               0.483    3.16 | 2.050    7.90 | 3.617   17.39 |  5.18    4.74
               0.500    3.16 | 2.067    7.90 | 3.633   17.39 |  5.20    4.74
               0.517    3.16 | 2.083    7.90 | 3.650   17.39 |  5.22    4.74
               0.533    3.16 | 2.100    7.90 | 3.667   17.39 |  5.23    4.74
               0.550    3.16 | 2.117    7.90 | 3.683   17.39 |  5.25    4.74
               0.567    3.16 | 2.133    7.90 | 3.700   17.39 |  5.27    3.16
               0.583    3.16 | 2.150    7.90 | 3.717   17.39 |  5.28    3.16
               0.600    3.16 | 2.167    7.90 | 3.733   17.39 |  5.30    3.16
               0.617    3.16 | 2.183    7.90 | 3.750   17.39 |  5.32    3.16
               0.633    3.16 | 2.200    7.90 | 3.767    7.91 |  5.33    3.16
               0.650    3.16 | 2.217    7.90 | 3.783    7.90 |  5.35    3.16
               0.667    3.16 | 2.233    7.90 | 3.800    7.90 |  5.37    3.16
               0.683    3.16 | 2.250    7.90 | 3.817    7.90 |  5.38    3.16
               0.700    3.16 | 2.267    9.48 | 3.833    7.90 |  5.40    3.16
               0.717    3.16 | 2.283    9.48 | 3.850    7.90 |  5.42    3.16
               0.733    3.16 | 2.300    9.48 | 3.867    7.90 |  5.43    3.16
               0.750    3.16 | 2.317    9.48 | 3.883    7.90 |  5.45    3.16
               0.767    4.74 | 2.333    9.48 | 3.900    7.90 |  5.47    3.16
               0.783    4.74 | 2.350    9.48 | 3.917    7.90 |  5.48    3.16
               0.800    4.74 | 2.367    9.48 | 3.933    7.90 |  5.50    3.16
               0.817    4.74 | 2.383    9.48 | 3.950    7.90 |  5.52    3.16
               0.833    4.74 | 2.400    9.48 | 3.967    7.90 |  5.53    3.16
               0.850    4.74 | 2.417    9.48 | 3.983    7.90 |  5.55    3.16
               0.867    4.74 | 2.433    9.48 | 4.000    7.90 |  5.57    3.16
               0.883    4.74 | 2.450    9.48 | 4.017    7.90 |  5.58    3.16
               0.900    4.74 | 2.467    9.48 | 4.033    7.90 |  5.60    3.16
               0.917    4.74 | 2.483    9.48 | 4.050    7.90 |  5.62    3.16
               0.933    4.74 | 2.500    9.48 | 4.067    7.90 |  5.63    3.16
               0.950    4.74 | 2.517    9.48 | 4.083    7.90 |  5.65    3.16
               0.967    4.74 | 2.533    9.48 | 4.100    7.90 |  5.67    3.16
               0.983    4.74 | 2.550    9.48 | 4.117    7.90 |  5.68    3.16
               1.000    4.74 | 2.567    9.48 | 4.133    7.90 |  5.70    3.16
               1.017    4.74 | 2.583    9.48 | 4.150    7.90 |  5.72    3.16
               1.033    4.74 | 2.600    9.48 | 4.167    7.90 |  5.73    3.16
               1.050    4.74 | 2.617    9.48 | 4.183    7.90 |  5.75    3.16
               1.067    4.74 | 2.633    9.48 | 4.200    7.90 |  5.77    3.16
               1.083    4.74 | 2.650    9.48 | 4.217    7.90 |  5.78    3.16
               1.100    4.74 | 2.667    9.48 | 4.233    7.90 |  5.80    3.16
               1.117    4.74 | 2.683    9.48 | 4.250    7.90 |  5.82    3.16
               1.133    4.74 | 2.700    9.48 | 4.267    6.32 |  5.83    3.16
               1.150    4.74 | 2.717    9.48 | 4.283    6.32 |  5.85    3.16
               1.167    4.74 | 2.733    9.48 | 4.300    6.32 |  5.87    3.16
               1.183    4.74 | 2.750    9.48 | 4.317    6.32 |  5.88    3.16
               1.200    4.74 | 2.767   47.42 | 4.333    6.32 |  5.90    3.16
               1.217    4.74 | 2.783   47.42 | 4.350    6.32 |  5.92    3.16
               1.233    4.74 | 2.800   47.42 | 4.367    6.32 |  5.93    3.16
               1.250    4.74 | 2.817   47.42 | 4.383    6.32 |  5.95    3.16
               1.267    4.74 | 2.833   47.42 | 4.400    6.32 |  5.97    3.16
               1.283    4.74 | 2.850   47.42 | 4.417    6.32 |  5.98    3.16
               1.300    4.74 | 2.867   47.42 | 4.433    6.32 |  6.00    3.16
               1.317    4.74 | 2.883   47.42 | 4.450    6.32 |  6.02    3.16
               1.333    4.74 | 2.900   47.42 | 4.467    6.32 |  6.03    3.16
               1.350    4.74 | 2.917   47.42 | 4.483    6.32 |  6.05    3.16
               1.367    4.74 | 2.933   47.42 | 4.500    6.32 |  6.07    3.16
               1.383    4.74 | 2.950   47.42 | 4.517    6.32 |  6.08    3.16
               1.400    4.74 | 2.967   47.42 | 4.533    6.32 |  6.10    3.16
               1.417    4.74 | 2.983   47.42 | 4.550    6.32 |  6.12    3.16
               1.433    4.74 | 3.000   47.42 | 4.567    6.32 |  6.13    3.16
               1.450    4.74 | 3.017  123.29 | 4.583    6.32 |  6.15    3.16
               1.467    4.74 | 3.033  123.30 | 4.600    6.32 |  6.17    3.16
               1.483    4.74 | 3.050  123.30 | 4.617    6.32 |  6.18    3.16
               1.500    4.74 | 3.067  123.30 | 4.633    6.32 |  6.20    3.16
               1.517    4.74 | 3.083  123.30 | 4.650    6.32 |  6.22    3.16
               1.533    4.74 | 3.100  123.30 | 4.667    6.32 |  6.23    3.16
               1.550    4.74 | 3.117  123.30 | 4.683    6.32 |  6.25    3.16
               1.567    4.74 | 3.133  123.30 | 4.700    6.32 |

     Unit Hyd Qpeak  (cms)=   0.004

     PEAK FLOW       (cms)=   0.002 (i)
     TIME TO PEAK    (hrs)=   3.367
     RUNOFF VOLUME    (mm)=  33.832
     TOTAL RAINFALL   (mm)=  79.040
     RUNOFF COEFFICIENT   =   0.428

     (i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| CALIB            |
| STANDHYD (  0203)|   Area    (ha)=   0.13
|ID= 1 DT= 1.0 min |   Total Imp(%)=  75.00   Dir. Conn.(%)=  75.00
--------------------

                                IMPERVIOUS    PERVIOUS (i)
     Surface Area     (ha)=       0.10          0.03
```

```
Dep. Storage     (mm)=       2.00          5.00
Average Slope     (%)=       2.00          2.00
Length            (m)=      29.83          8.00
Mannings n           =      0.013         0.190

    NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	4.74	3.150	123.30	4.72	6.32
0.033	0.00	1.600	4.74	3.167	123.30	4.73	6.32
0.050	0.00	1.617	4.74	3.183	123.30	4.75	6.32
0.067	0.00	1.633	4.74	3.200	123.30	4.77	4.74
0.083	0.00	1.650	4.74	3.217	123.30	4.78	4.74
0.100	0.00	1.667	4.74	3.233	123.30	4.80	4.74
0.117	0.00	1.683	4.74	3.250	123.30	4.82	4.74
0.133	0.00	1.700	4.74	3.267	17.40	4.83	4.74
0.150	0.00	1.717	4.74	3.283	17.39	4.85	4.74
0.167	0.00	1.733	4.74	3.300	17.39	4.87	4.74
0.183	0.00	1.750	4.74	3.317	17.39	4.88	4.74
0.200	0.00	1.767	7.90	3.333	17.39	4.90	4.74
0.217	0.00	1.783	7.90	3.350	17.39	4.92	4.74
0.233	0.00	1.800	7.90	3.367	17.39	4.93	4.74
0.250	0.00	1.817	7.90	3.383	17.39	4.95	4.74
0.267	3.16	1.833	7.90	3.400	17.39	4.97	4.74
0.283	3.16	1.850	7.90	3.417	17.39	4.98	4.74
0.300	3.16	1.867	7.90	3.433	17.39	5.00	4.74
0.317	3.16	1.883	7.90	3.450	17.39	5.02	4.74
0.333	3.16	1.900	7.90	3.467	17.39	5.03	4.74
0.350	3.16	1.917	7.90	3.483	17.39	5.05	4.74
0.367	3.16	1.933	7.90	3.500	17.39	5.07	4.74
0.383	3.16	1.950	7.90	3.517	17.39	5.08	4.74
0.400	3.16	1.967	7.90	3.533	17.39	5.10	4.74
0.417	3.16	1.983	7.90	3.550	17.39	5.12	4.74
0.433	3.16	2.000	7.90	3.567	17.39	5.13	4.74
0.450	3.16	2.017	7.90	3.583	17.39	5.15	4.74
0.467	3.16	2.033	7.90	3.600	17.39	5.17	4.74
0.483	3.16	2.050	7.90	3.617	17.39	5.18	4.74
0.500	3.16	2.067	7.90	3.633	17.39	5.20	4.74
0.517	3.16	2.083	7.90	3.650	17.39	5.22	4.74
0.533	3.16	2.100	7.90	3.667	17.39	5.23	4.74
0.550	3.16	2.117	7.90	3.683	17.39	5.25	4.74
0.567	3.16	2.133	7.90	3.700	17.39	5.27	3.16
0.583	3.16	2.150	7.90	3.717	17.39	5.28	3.16
0.600	3.16	2.167	7.90	3.733	17.39	5.30	3.16
0.617	3.16	2.183	7.90	3.750	17.39	5.32	3.16
0.633	3.16	2.200	7.90	3.767	7.91	5.33	3.16
0.650	3.16	2.217	7.90	3.783	7.90	5.35	3.16
0.667	3.16	2.233	7.90	3.800	7.90	5.37	3.16
0.683	3.16	2.250	7.90	3.817	7.90	5.38	3.16
0.700	3.16	2.267	9.48	3.833	7.90	5.40	3.16
0.717	3.16	2.283	9.48	3.850	7.90	5.42	3.16
0.733	3.16	2.300	9.48	3.867	7.90	5.43	3.16
0.750	3.16	2.317	9.48	3.883	7.90	5.45	3.16
0.767	4.74	2.333	9.48	3.900	7.90	5.47	3.16
0.783	4.74	2.350	9.48	3.917	7.90	5.48	3.16
0.800	4.74	2.367	9.48	3.933	7.90	5.50	3.16
0.817	4.74	2.383	9.48	3.950	7.90	5.52	3.16
0.833	4.74	2.400	9.48	3.967	7.90	5.53	3.16
0.850	4.74	2.417	9.48	3.983	7.90	5.55	3.16
0.867	4.74	2.433	9.48	4.000	7.90	5.57	3.16
0.883	4.74	2.450	9.48	4.017	7.90	5.58	3.16
0.900	4.74	2.467	9.48	4.033	7.90	5.60	3.16
0.917	4.74	2.483	9.48	4.050	7.90	5.62	3.16
0.933	4.74	2.500	9.48	4.067	7.90	5.63	3.16
0.950	4.74	2.517	9.48	4.083	7.90	5.65	3.16
0.967	4.74	2.533	9.48	4.100	7.90	5.67	3.16
0.983	4.74	2.550	9.48	4.117	7.90	5.68	3.16
1.000	4.74	2.567	9.48	4.133	7.90	5.70	3.16
1.017	4.74	2.583	9.48	4.150	7.90	5.72	3.16
1.033	4.74	2.600	9.48	4.167	7.90	5.73	3.16
1.050	4.74	2.617	9.48	4.183	7.90	5.75	3.16
1.067	4.74	2.633	9.48	4.200	7.90	5.77	3.16
1.083	4.74	2.650	9.48	4.217	7.90	5.78	3.16
1.100	4.74	2.667	9.48	4.233	7.90	5.80	3.16
1.117	4.74	2.683	9.48	4.250	7.90	5.82	3.16
1.133	4.74	2.700	9.48	4.267	6.32	5.83	3.16
1.150	4.74	2.717	9.48	4.283	6.32	5.85	3.16
1.167	4.74	2.733	9.48	4.300	6.32	5.87	3.16
1.183	4.74	2.750	9.48	4.317	6.32	5.88	3.16
1.200	4.74	2.767	47.42	4.333	6.32	5.90	3.16
1.217	4.74	2.783	47.42	4.350	6.32	5.92	3.16
1.233	4.74	2.800	47.42	4.367	6.32	5.93	3.16
1.250	4.74	2.817	47.42	4.383	6.32	5.95	3.16
1.267	4.74	2.833	47.42	4.400	6.32	5.97	3.16
1.283	4.74	2.850	47.42	4.417	6.32	5.98	3.16
1.300	4.74	2.867	47.42	4.433	6.32	6.00	3.16
1.317	4.74	2.883	47.42	4.450	6.32	6.02	3.16
1.333	4.74	2.900	47.42	4.467	6.32	6.03	3.16
1.350	4.74	2.917	47.42	4.483	6.32	6.05	3.16
1.367	4.74	2.933	47.42	4.500	6.32	6.07	3.16
1.383	4.74	2.950	47.42	4.517	6.32	6.08	3.16
1.400	4.74	2.967	47.42	4.533	6.32	6.10	3.16
1.417	4.74	2.983	47.42	4.550	6.32	6.12	3.16
1.433	4.74	3.000	47.42	4.567	6.32	6.13	3.16
1.450	4.74	3.017	123.29	4.583	6.32	6.15	3.16
1.467	4.74	3.033	123.30	4.600	6.32	6.17	3.16
1.483	4.74	3.050	123.30	4.617	6.32	6.18	3.16
1.500	4.74	3.067	123.30	4.633	6.32	6.20	3.16
1.517	4.74	3.083	123.30	4.650	6.32	6.22	3.16
1.533	4.74	3.100	123.30	4.667	6.32	6.23	3.16
1.550	4.74	3.117	123.30	4.683	6.32	6.25	3.16
1.567	4.74	3.133	123.30	4.700	6.32		

```
     Max.Eff.Inten.(mm/hr)=     123.30        57.49
           over (min)          5.00          3.00
     Storage Coeff.  (min)=     0.92 (ii)     2.27 (ii)
     Unit Hyd. Tpeak (min)=     5.00          3.00
     Unit Hyd. peak  (cms)=     0.48          0.45
                                                        *TOTALS*
     PEAK FLOW       (cms)=     0.03          0.01        0.040 (iii)
     TIME TO PEAK    (hrs)=     3.25          3.25         3.25
     RUNOFF VOLUME    (mm)=    77.04         29.14        65.06
     TOTAL RAINFALL   (mm)=    79.04         79.04        79.04
     RUNOFF COEFFICIENT   =     0.97          0.37         0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0160     0.0036
                          0.0010     0.0004   |   0.0170     0.0043
                          0.0060     0.0009   |   0.0180     0.0051
                          0.0080     0.0013   |   0.0560     0.0059
                          0.0100     0.0017   |   0.1330     0.0068
                          0.0120     0.0022   |   0.2430     0.0078
                          0.0130     0.0025   |   0.3860     0.0089
                          0.0140     0.0030   |   0.0000     0.0000

                                  AREA     QPEAK     TPEAK       R.V.
                                  (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)      0.133     0.040      3.25       65.06
   OUTFLOW: ID= 1 (  0015)      0.133     0.016      3.32       64.30

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 39.75
                  TIME SHIFT OF PEAK FLOW          (min)=  4.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0036

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):     0.13   0.016     3.32    64.30
     + ID2= 2 (  0205):     0.02   0.002     3.37    33.83
       ================================================
       ID = 3 (  0007):     0.16   0.018     3.33    59.99

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
```

```
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

```
  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\946b2f29-a8
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\946b2f29-a8

DATE: 04-17-2023                          TIME: 01:25:47

USER:


COMMENTS: _____________________________________________________
```

```
  ************************************************
  ** SIMULATION : L) 50yr 6hr 15min Chicago     **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\deb1e3ea
| Ptotal= 88.35 mm |    Comments: 50yr 6hr 15min SCS Type II (MTO)
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	2.00	8.84	3.75	19.44	5.50	3.53
0.50	3.53	2.25	8.84	4.00	8.84	5.75	3.53
0.75	3.53	2.50	10.60	4.25	8.84	6.00	3.53
1.00	5.30	2.75	10.60	4.50	7.07	6.25	3.53
1.25	5.30	3.00	53.01	4.75	7.07		
1.50	5.30	3.25	137.83	5.00	5.30		
1.75	5.30	3.50	19.44	5.25	5.30		

```
--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30
0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30
0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30
0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53
0.850	5.30	2.417	10.60	3.983	8.84	5.55	3.53
0.867	5.30	2.433	10.60	4.000	8.84	5.57	3.53
0.883	5.30	2.450	10.60	4.017	8.83	5.58	3.53
0.900	5.30	2.467	10.60	4.033	8.84	5.60	3.53
0.917	5.30	2.483	10.60	4.050	8.84	5.62	3.53
0.933	5.30	2.500	10.60	4.067	8.84	5.63	3.53
0.950	5.30	2.517	10.60	4.083	8.84	5.65	3.53
0.967	5.30	2.533	10.60	4.100	8.84	5.67	3.53
0.983	5.30	2.550	10.60	4.117	8.84	5.68	3.53
1.000	5.30	2.567	10.60	4.133	8.84	5.70	3.53
1.017	5.30	2.583	10.60	4.150	8.84	5.72	3.53
1.033	5.30	2.600	10.60	4.167	8.84	5.73	3.53
1.050	5.30	2.617	10.60	4.183	8.84	5.75	3.53
1.067	5.30	2.633	10.60	4.200	8.84	5.77	3.53
1.083	5.30	2.650	10.60	4.217	8.84	5.78	3.53
1.100	5.30	2.667	10.60	4.233	8.84	5.80	3.53
1.117	5.30	2.683	10.60	4.250	8.84	5.82	3.53
1.133	5.30	2.700	10.60	4.267	7.07	5.83	3.53
1.150	5.30	2.717	10.60	4.283	7.07	5.85	3.53
1.167	5.30	2.733	10.60	4.300	7.07	5.87	3.53
1.183	5.30	2.750	10.60	4.317	7.07	5.88	3.53
1.200	5.30	2.767	53.01	4.333	7.07	5.90	3.53
1.217	5.30	2.783	53.01	4.350	7.07	5.92	3.53
1.233	5.30	2.800	53.01	4.367	7.07	5.93	3.53
1.250	5.30	2.817	53.01	4.383	7.07	5.95	3.53
1.267	5.30	2.833	53.01	4.400	7.07	5.97	3.53
1.283	5.30	2.850	53.01	4.417	7.07	5.98	3.53
1.300	5.30	2.867	53.01	4.433	7.07	6.00	3.53
1.317	5.30	2.883	53.01	4.450	7.07	6.02	3.53
1.333	5.30	2.900	53.01	4.467	7.07	6.03	3.53
1.350	5.30	2.917	53.01	4.483	7.07	6.05	3.53
1.367	5.30	2.933	53.01	4.500	7.07	6.07	3.53
1.383	5.30	2.950	53.01	4.517	7.07	6.08	3.53
1.400	5.30	2.967	53.01	4.533	7.07	6.10	3.53
1.417	5.30	2.983	53.01	4.550	7.07	6.12	3.53
1.433	5.30	3.000	53.01	4.567	7.07	6.13	3.53
1.450	5.30	3.017	137.81	4.583	7.07	6.15	3.53
1.467	5.30	3.033	137.83	4.600	7.07	6.17	3.53
1.483	5.30	3.050	137.83	4.617	7.07	6.18	3.53
1.500	5.30	3.067	137.83	4.633	7.07	6.20	3.53
1.517	5.30	3.083	137.83	4.650	7.07	6.22	3.53
1.533	5.30	3.100	137.83	4.667	7.07	6.23	3.53
1.550	5.30	3.117	137.83	4.683	7.07	6.25	3.53
1.567	5.30	3.133	137.83	4.700	7.07		

```
Unit Hyd Qpeak  (cms)=   0.008

PEAK FLOW       (cms)=   0.006 (i)
TIME TO PEAK    (hrs)=   3.467
RUNOFF VOLUME    (mm)=  37.220
TOTAL RAINFALL   (mm)=  88.350
RUNOFF COEFFICIENT   =   0.421
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(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0201)	Area (ha)=	0.17	
ID= 1 DT= 1.0 min	Total Imp(%)=	78.00	Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30
0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30
0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30
0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53
0.850	5.30	2.417	10.60	3.983	8.84	5.55	3.53
0.867	5.30	2.433	10.60	4.000	8.84	5.57	3.53
0.883	5.30	2.450	10.60	4.017	8.83	5.58	3.53
0.900	5.30	2.467	10.60	4.033	8.84	5.60	3.53
0.917	5.30	2.483	10.60	4.050	8.84	5.62	3.53
0.933	5.30	2.500	10.60	4.067	8.84	5.63	3.53
0.950	5.30	2.517	10.60	4.083	8.84	5.65	3.53
0.967	5.30	2.533	10.60	4.100	8.84	5.67	3.53
0.983	5.30	2.550	10.60	4.117	8.84	5.68	3.53
1.000	5.30	2.567	10.60	4.133	8.84	5.70	3.53
1.017	5.30	2.583	10.60	4.150	8.84	5.72	3.53
1.033	5.30	2.600	10.60	4.167	8.84	5.73	3.53
1.050	5.30	2.617	10.60	4.183	8.84	5.75	3.53
1.067	5.30	2.633	10.60	4.200	8.84	5.77	3.53
1.083	5.30	2.650	10.60	4.217	8.84	5.78	3.53
1.100	5.30	2.667	10.60	4.233	8.84	5.80	3.53
1.117	5.30	2.683	10.60	4.250	8.84	5.82	3.53
1.133	5.30	2.700	10.60	4.267	7.07	5.83	3.53
1.150	5.30	2.717	10.60	4.283	7.07	5.85	3.53
1.167	5.30	2.733	10.60	4.300	7.07	5.87	3.53
1.183	5.30	2.750	10.60	4.317	7.07	5.88	3.53
1.200	5.30	2.767	53.01	4.333	7.07	5.90	3.53
1.217	5.30	2.783	53.01	4.350	7.07	5.92	3.53
1.233	5.30	2.800	53.01	4.367	7.07	5.93	3.53
1.250	5.30	2.817	53.01	4.383	7.07	5.95	3.53
1.267	5.30	2.833	53.01	4.400	7.07	5.97	3.53
1.283	5.30	2.850	53.01	4.417	7.07	5.98	3.53
1.300	5.30	2.867	53.01	4.433	7.07	6.00	3.53
1.317	5.30	2.883	53.01	4.450	7.07	6.02	3.53
1.333	5.30	2.900	53.01	4.467	7.07	6.03	3.53
1.350	5.30	2.917	53.01	4.483	7.07	6.05	3.53
1.367	5.30	2.933	53.01	4.500	7.07	6.07	3.53
1.383	5.30	2.950	53.01	4.517	7.07	6.08	3.53
1.400	5.30	2.967	53.01	4.533	7.07	6.10	3.53
1.417	5.30	2.983	53.01	4.550	7.07	6.12	3.53
1.433	5.30	3.000	53.01	4.567	7.07	6.13	3.53
1.450	5.30	3.017	137.81	4.583	7.07	6.15	3.53
1.467	5.30	3.033	137.83	4.600	7.07	6.17	3.53
1.483	5.30	3.050	137.83	4.617	7.07	6.18	3.53
1.500	5.30	3.067	137.83	4.633	7.07	6.20	3.53
1.517	5.30	3.083	137.83	4.650	7.07	6.22	3.53
1.533	5.30	3.100	137.83	4.667	7.07	6.23	3.53
1.550	5.30	3.117	137.83	4.683	7.07	6.25	3.53
1.567	5.30	3.133	137.83	4.700	7.07		

				TOTALS
Max.Eff.Inten.(mm/hr)=		137.83	69.20	
over (min)		5.00	4.00	
Storage Coeff. (min)=		1.17 (ii)	3.75 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.45	0.29	
PEAK FLOW	(cms)=	0.05	0.01	0.058 (iii)
TIME TO PEAK	(hrs)=	3.25	3.25	3.25
RUNOFF VOLUME	(mm)=	86.35	35.18	75.08
TOTAL RAINFALL	(mm)=	88.35	88.35	88.35
RUNOFF COEFFICIENT	=	0.98	0.40	0.85

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30
0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30

0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30
0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53
0.850	5.30	2.417	10.60	3.983	8.84	5.55	3.53
0.867	5.30	2.433	10.60	4.000	8.84	5.57	3.53
0.883	5.30	2.450	10.60	4.017	8.83	5.58	3.53
0.900	5.30	2.467	10.60	4.033	8.84	5.60	3.53
0.917	5.30	2.483	10.60	4.050	8.84	5.62	3.53
0.933	5.30	2.500	10.60	4.067	8.84	5.63	3.53
0.950	5.30	2.517	10.60	4.083	8.84	5.65	3.53
0.967	5.30	2.533	10.60	4.100	8.84	5.67	3.53
0.983	5.30	2.550	10.60	4.117	8.84	5.68	3.53
1.000	5.30	2.567	10.60	4.133	8.84	5.70	3.53
1.017	5.30	2.583	10.60	4.150	8.84	5.72	3.53
1.033	5.30	2.600	10.60	4.167	8.84	5.73	3.53
1.050	5.30	2.617	10.60	4.183	8.84	5.75	3.53
1.067	5.30	2.633	10.60	4.200	8.84	5.77	3.53
1.083	5.30	2.650	10.60	4.217	8.84	5.78	3.53
1.100	5.30	2.667	10.60	4.233	8.84	5.80	3.53
1.117	5.30	2.683	10.60	4.250	8.84	5.82	3.53
1.133	5.30	2.700	10.60	4.267	7.07	5.83	3.53
1.150	5.30	2.717	10.60	4.283	7.07	5.85	3.53
1.167	5.30	2.733	10.60	4.300	7.07	5.87	3.53
1.183	5.30	2.750	10.60	4.317	7.07	5.88	3.53
1.200	5.30	2.767	53.01	4.333	7.07	5.90	3.53
1.217	5.30	2.783	53.01	4.350	7.07	5.92	3.53
1.233	5.30	2.800	53.01	4.367	7.07	5.93	3.53
1.250	5.30	2.817	53.01	4.383	7.07	5.95	3.53
1.267	5.30	2.833	53.01	4.400	7.07	5.97	3.53
1.283	5.30	2.850	53.01	4.417	7.07	5.98	3.53
1.300	5.30	2.867	53.01	4.433	7.07	6.00	3.53
1.317	5.30	2.883	53.01	4.450	7.07	6.02	3.53
1.333	5.30	2.900	53.01	4.467	7.07	6.03	3.53
1.350	5.30	2.917	53.01	4.483	7.07	6.05	3.53
1.367	5.30	2.933	53.01	4.500	7.07	6.07	3.53
1.383	5.30	2.950	53.01	4.517	7.07	6.08	3.53
1.400	5.30	2.967	53.01	4.533	7.07	6.10	3.53
1.417	5.30	2.983	53.01	4.550	7.07	6.12	3.53
1.433	5.30	3.000	53.01	4.567	7.07	6.13	3.53
1.450	5.30	3.017	137.81	4.583	7.07	6.15	3.53
1.467	5.30	3.033	137.83	4.600	7.07	6.17	3.53
1.483	5.30	3.050	137.83	4.617	7.07	6.18	3.53
1.500	5.30	3.067	137.83	4.633	7.07	6.20	3.53
1.517	5.30	3.083	137.83	4.650	7.07	6.22	3.53
1.533	5.30	3.100	137.83	4.667	7.07	6.23	3.53
1.550	5.30	3.117	137.83	4.683	7.07	6.25	3.53
1.567	5.30	3.133	137.83	4.700	7.07		

Max.Eff.Inten.(mm/hr)=	137.83	69.20
over (min)	5.00	4.00
Storage Coeff. (min)=	0.82 (ii)	3.20 (ii)

Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.50	0.32	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.036 (iii)
TIME TO PEAK (hrs)=	3.23	3.25	3.25
RUNOFF VOLUME (mm)=	86.35	35.18	76.62
TOTAL RAINFALL (mm)=	88.35	88.35	88.35
RUNOFF COEFFICIENT =	0.98	0.40	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.058	3.25	75.08
+ ID2= 2 (0202):		0.11	0.036	3.25	76.62
ID = 3 (0010):		0.27	0.094	3.25	75.67

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 1.0 min	

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0200	0.0082
0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.094	3.25	75.67
OUTFLOW: ID= 1 (0012)	0.275	0.022	3.35	74.84

PEAK FLOW REDUCTION [Qout/Qin](%)= 23.05
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0104

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.022	3.35	74.84
+ ID2= 2 (0204):		0.06	0.006	3.47	37.22
ID = 3 (0014):		0.34	0.027	3.43	67.83

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB				
NASHYD (0205)	Area (ha)=	0.02	Curve Number (CN)=	74.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.56	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30

0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30
0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30
0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53
0.850	5.30	2.417	10.60	3.983	8.84	5.55	3.53
0.867	5.30	2.433	10.60	4.000	8.84	5.57	3.53
0.883	5.30	2.450	10.60	4.017	8.83	5.58	3.53
0.900	5.30	2.467	10.60	4.033	8.84	5.60	3.53
0.917	5.30	2.483	10.60	4.050	8.84	5.62	3.53
0.933	5.30	2.500	10.60	4.067	8.84	5.63	3.53
0.950	5.30	2.517	10.60	4.083	8.84	5.65	3.53
0.967	5.30	2.533	10.60	4.100	8.84	5.67	3.53
0.983	5.30	2.550	10.60	4.117	8.84	5.68	3.53
1.000	5.30	2.567	10.60	4.133	8.84	5.70	3.53
1.017	5.30	2.583	10.60	4.150	8.84	5.72	3.53
1.033	5.30	2.600	10.60	4.167	8.84	5.73	3.53
1.050	5.30	2.617	10.60	4.183	8.84	5.75	3.53
1.067	5.30	2.633	10.60	4.200	8.84	5.77	3.53
1.083	5.30	2.650	10.60	4.217	8.84	5.78	3.53
1.100	5.30	2.667	10.60	4.233	8.84	5.80	3.53
1.117	5.30	2.683	10.60	4.250	8.84	5.82	3.53
1.133	5.30	2.700	10.60	4.267	7.07	5.83	3.53
1.150	5.30	2.717	10.60	4.283	7.07	5.85	3.53
1.167	5.30	2.733	10.60	4.300	7.07	5.87	3.53
1.183	5.30	2.750	10.60	4.317	7.07	5.88	3.53
1.200	5.30	2.767	53.01	4.333	7.07	5.90	3.53
1.217	5.30	2.783	53.01	4.350	7.07	5.92	3.53
1.233	5.30	2.800	53.01	4.367	7.07	5.93	3.53
1.250	5.30	2.817	53.01	4.383	7.07	5.95	3.53
1.267	5.30	2.833	53.01	4.400	7.07	5.97	3.53
1.283	5.30	2.850	53.01	4.417	7.07	5.98	3.53
1.300	5.30	2.867	53.01	4.433	7.07	6.00	3.53
1.317	5.30	2.883	53.01	4.450	7.07	6.02	3.53
1.333	5.30	2.900	53.01	4.467	7.07	6.03	3.53
1.350	5.30	2.917	53.01	4.483	7.07	6.05	3.53
1.367	5.30	2.933	53.01	4.500	7.07	6.07	3.53
1.383	5.30	2.950	53.01	4.517	7.07	6.08	3.53
1.400	5.30	2.967	53.01	4.533	7.07	6.10	3.53
1.417	5.30	2.983	53.01	4.550	7.07	6.12	3.53
1.433	5.30	3.000	53.01	4.567	7.07	6.13	3.53
1.450	5.30	3.017	137.81	4.583	7.07	6.15	3.53
1.467	5.30	3.033	137.83	4.600	7.07	6.17	3.53
1.483	5.30	3.050	137.83	4.617	7.07	6.18	3.53
1.500	5.30	3.067	137.83	4.633	7.07	6.20	3.53
1.517	5.30	3.083	137.83	4.650	7.07	6.22	3.53
1.533	5.30	3.100	137.83	4.667	7.07	6.23	3.53
1.550	5.30	3.117	137.83	4.683	7.07	6.25	3.53
1.567	5.30	3.133	137.83	4.700	7.07		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 3.367
RUNOFF VOLUME (mm)= 40.525
TOTAL RAINFALL (mm)= 88.350
RUNOFF COEFFICIENT = 0.459

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.13
STANDHYD (0203)	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00
ID= 1 DT= 1.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.30	3.150	137.83	4.72	7.07
0.033	0.00	1.600	5.30	3.167	137.83	4.73	7.07
0.050	0.00	1.617	5.30	3.183	137.83	4.75	7.07
0.067	0.00	1.633	5.30	3.200	137.83	4.77	5.30
0.083	0.00	1.650	5.30	3.217	137.83	4.78	5.30
0.100	0.00	1.667	5.30	3.233	137.83	4.80	5.30
0.117	0.00	1.683	5.30	3.250	137.83	4.82	5.30
0.133	0.00	1.700	5.30	3.267	19.45	4.83	5.30
0.150	0.00	1.717	5.30	3.283	19.44	4.85	5.30
0.167	0.00	1.733	5.30	3.300	19.44	4.87	5.30
0.183	0.00	1.750	5.30	3.317	19.44	4.88	5.30
0.200	0.00	1.767	8.83	3.333	19.44	4.90	5.30
0.217	0.00	1.783	8.84	3.350	19.44	4.92	5.30
0.233	0.00	1.800	8.84	3.367	19.44	4.93	5.30
0.250	0.00	1.817	8.84	3.383	19.44	4.95	5.30
0.267	3.53	1.833	8.84	3.400	19.44	4.97	5.30
0.283	3.53	1.850	8.84	3.417	19.44	4.98	5.30
0.300	3.53	1.867	8.84	3.433	19.44	5.00	5.30
0.317	3.53	1.883	8.84	3.450	19.44	5.02	5.30
0.333	3.53	1.900	8.84	3.467	19.44	5.03	5.30
0.350	3.53	1.917	8.84	3.483	19.44	5.05	5.30
0.367	3.53	1.933	8.84	3.500	19.44	5.07	5.30
0.383	3.53	1.950	8.84	3.517	19.44	5.08	5.30
0.400	3.53	1.967	8.84	3.533	19.44	5.10	5.30
0.417	3.53	1.983	8.84	3.550	19.44	5.12	5.30
0.433	3.53	2.000	8.84	3.567	19.44	5.13	5.30
0.450	3.53	2.017	8.83	3.583	19.44	5.15	5.30
0.467	3.53	2.033	8.84	3.600	19.44	5.17	5.30
0.483	3.53	2.050	8.84	3.617	19.44	5.18	5.30
0.500	3.53	2.067	8.84	3.633	19.44	5.20	5.30
0.517	3.53	2.083	8.84	3.650	19.44	5.22	5.30
0.533	3.53	2.100	8.84	3.667	19.44	5.23	5.30
0.550	3.53	2.117	8.84	3.683	19.44	5.25	5.30
0.567	3.53	2.133	8.84	3.700	19.44	5.27	3.53
0.583	3.53	2.150	8.84	3.717	19.44	5.28	3.53
0.600	3.53	2.167	8.84	3.733	19.44	5.30	3.53
0.617	3.53	2.183	8.84	3.750	19.44	5.32	3.53
0.633	3.53	2.200	8.84	3.767	8.84	5.33	3.53
0.650	3.53	2.217	8.84	3.783	8.84	5.35	3.53
0.667	3.53	2.233	8.84	3.800	8.84	5.37	3.53
0.683	3.53	2.250	8.84	3.817	8.84	5.38	3.53
0.700	3.53	2.267	10.60	3.833	8.84	5.40	3.53
0.717	3.53	2.283	10.60	3.850	8.84	5.42	3.53
0.733	3.53	2.300	10.60	3.867	8.84	5.43	3.53
0.750	3.53	2.317	10.60	3.883	8.84	5.45	3.53
0.767	5.30	2.333	10.60	3.900	8.84	5.47	3.53
0.783	5.30	2.350	10.60	3.917	8.84	5.48	3.53
0.800	5.30	2.367	10.60	3.933	8.84	5.50	3.53
0.817	5.30	2.383	10.60	3.950	8.84	5.52	3.53
0.833	5.30	2.400	10.60	3.967	8.84	5.53	3.53

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              0.850    5.30 | 2.417   10.60 | 3.983    8.84 |  5.55    3.53
              0.867    5.30 | 2.433   10.60 | 4.000    8.84 |  5.57    3.53
              0.883    5.30 | 2.450   10.60 | 4.017    8.83 |  5.58    3.53
              0.900    5.30 | 2.467   10.60 | 4.033    8.84 |  5.60    3.53
              0.917    5.30 | 2.483   10.60 | 4.050    8.84 |  5.62    3.53
              0.933    5.30 | 2.500   10.60 | 4.067    8.84 |  5.63    3.53
              0.950    5.30 | 2.517   10.60 | 4.083    8.84 |  5.65    3.53
              0.967    5.30 | 2.533   10.60 | 4.100    8.84 |  5.67    3.53
              0.983    5.30 | 2.550   10.60 | 4.117    8.84 |  5.68    3.53
              1.000    5.30 | 2.567   10.60 | 4.133    8.84 |  5.70    3.53
              1.017    5.30 | 2.583   10.60 | 4.150    8.84 |  5.72    3.53
              1.033    5.30 | 2.600   10.60 | 4.167    8.84 |  5.73    3.53
              1.050    5.30 | 2.617   10.60 | 4.183    8.84 |  5.75    3.53
              1.067    5.30 | 2.633   10.60 | 4.200    8.84 |  5.77    3.53
              1.083    5.30 | 2.650   10.60 | 4.217    8.84 |  5.78    3.53
              1.100    5.30 | 2.667   10.60 | 4.233    8.84 |  5.80    3.53
              1.117    5.30 | 2.683   10.60 | 4.250    8.84 |  5.82    3.53
              1.133    5.30 | 2.700   10.60 | 4.267    7.07 |  5.83    3.53
              1.150    5.30 | 2.717   10.60 | 4.283    7.07 |  5.85    3.53
              1.167    5.30 | 2.733   10.60 | 4.300    7.07 |  5.87    3.53
              1.183    5.30 | 2.750   10.60 | 4.317    7.07 |  5.88    3.53
              1.200    5.30 | 2.767   53.01 | 4.333    7.07 |  5.90    3.53
              1.217    5.30 | 2.783   53.01 | 4.350    7.07 |  5.92    3.53
              1.233    5.30 | 2.800   53.01 | 4.367    7.07 |  5.93    3.53
              1.250    5.30 | 2.817   53.01 | 4.383    7.07 |  5.95    3.53
              1.267    5.30 | 2.833   53.01 | 4.400    7.07 |  5.97    3.53
              1.283    5.30 | 2.850   53.01 | 4.417    7.07 |  5.98    3.53
              1.300    5.30 | 2.867   53.01 | 4.433    7.07 |  6.00    3.53
              1.317    5.30 | 2.883   53.01 | 4.450    7.07 |  6.02    3.53
              1.333    5.30 | 2.900   53.01 | 4.467    7.07 |  6.03    3.53
              1.350    5.30 | 2.917   53.01 | 4.483    7.07 |  6.05    3.53
              1.367    5.30 | 2.933   53.01 | 4.500    7.07 |  6.07    3.53
              1.383    5.30 | 2.950   53.01 | 4.517    7.07 |  6.08    3.53
              1.400    5.30 | 2.967   53.01 | 4.533    7.07 |  6.10    3.53
              1.417    5.30 | 2.983   53.01 | 4.550    7.07 |  6.12    3.53
              1.433    5.30 | 3.000   53.01 | 4.567    7.07 |  6.13    3.53
              1.450    5.30 | 3.017  137.81 | 4.583    7.07 |  6.15    3.53
              1.467    5.30 | 3.033  137.83 | 4.600    7.07 |  6.17    3.53
              1.483    5.30 | 3.050  137.83 | 4.617    7.07 |  6.18    3.53
              1.500    5.30 | 3.067  137.83 | 4.633    7.07 |  6.20    3.53
              1.517    5.30 | 3.083  137.83 | 4.650    7.07 |  6.22    3.53
              1.533    5.30 | 3.100  137.83 | 4.667    7.07 |  6.23    3.53
              1.550    5.30 | 3.117  137.83 | 4.683    7.07 |  6.25    3.53
              1.567    5.30 | 3.133  137.83 | 4.700    7.07 |

    Max.Eff.Inten.(mm/hr)=     137.83        69.20
              over (min)         5.00         3.00
    Storage Coeff.  (min)=       0.88 (ii)    2.18 (ii)
    Unit Hyd. Tpeak (min)=       5.00         3.00
    Unit Hyd. peak  (cms)=       0.49         0.46
                                                    *TOTALS*
    PEAK FLOW       (cms)=       0.04         0.01          0.045 (iii)
    TIME TO PEAK    (hrs)=       3.25         3.25           3.25
    RUNOFF VOLUME    (mm)=      86.35        35.18          73.55
    TOTAL RAINFALL   (mm)=      88.35        88.35          88.35
    RUNOFF COEFFICIENT   =       0.98         0.40           0.83

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

      (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
          CN*  =  69.0    Ia = Dep. Storage  (Above)
     (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
          THAN THE STORAGE COEFFICIENT.
    (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                         0.0000     0.0000    |  0.0160     0.0036
                         0.0010     0.0004    |  0.0170     0.0043
                         0.0060     0.0009    |  0.0180     0.0051
                         0.0080     0.0013    |  0.0560     0.0059
                         0.0100     0.0017    |  0.1330     0.0068
                         0.0120     0.0022    |  0.2430     0.0078
                         0.0130     0.0025    |  0.3860     0.0089
                         0.0140     0.0030    |  0.0000     0.0000

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)    0.133     0.045      3.25      73.55
   OUTFLOW: ID= 1 (  0015)    0.133     0.017      3.33      72.79

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 36.99
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0041

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):      0.13    0.017     3.33    72.79
     + ID2= 2 (  0205):      0.02    0.003     3.37    40.53
       ================================================
       ID = 3 (  0007):      0.16    0.019     3.33    68.23

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================================

      V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
      V    V   I    SS     U   U   A A   L
       V  V    I     SS    U   U  AAAAA  L
       V  V    I      SS   U   U  A   A  L
        VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\3e0cc942-a2
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\3e0cc942-a2

DATE: 04-17-2023                          TIME: 01:25:43

USER:


COMMENTS: _____________________________________________________

--------------------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : M) 100yr 6hr 15min Chicago    **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\82fa0005
| Ptotal= 97.13 mm |    Comments: 100yr 6hr 15min SCS Type II (MTO)
--------------------
                TIME     RAIN |  TIME     RAIN |'  TIME     RAIN |  TIME     RAIN
                 hrs    mm/hr |   hrs    mm/hr |'   hrs    mm/hr |   hrs    mm/hr
                0.25     0.00 |  2.00     9.71 |  3.75    21.37 |  5.50     3.89
                0.50     3.89 |  2.25     9.71 |  4.00     9.71 |  5.75     3.89
                0.75     3.89 |  2.50    11.66 |  4.25     9.71 |  6.00     3.89
                1.00     5.83 |  2.75    11.66 |  4.50     7.77 |  6.25     3.89
                1.25     5.83 |  3.00    58.28 |  4.75     7.77 |
                1.50     5.83 |  3.25   151.52 |  5.00     5.83 |
                1.75     5.83 |  3.50    21.37 |  5.25     5.83 |

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--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	3.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	3.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	3.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	3.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	3.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	3.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	3.89
0.683	3.89	2.250	9.71	3.817	9.71	5.38	3.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	3.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	3.89
0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89
1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89
1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89
1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.007 (i)
TIME TO PEAK (hrs)= 3.467
RUNOFF VOLUME (mm)= 43.426
TOTAL RAINFALL (mm)= 97.130
RUNOFF COEFFICIENT = 0.447

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	3.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	3.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	3.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	3.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	3.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	3.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	3.89

0.683	3.89	2.250	9.71	3.817	9.71	5.38	3.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	3.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	3.89
0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89
1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89
1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89
1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Max.Eff.Inten.(mm/hr)=	151.52	80.70	
over (min)	5.00	4.00	
Storage Coeff. (min)=	1.13 (ii)	3.61 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.46	0.30	
			TOTALS
PEAK FLOW (cms)=	0.06	0.01	0.064 (iii)
TIME TO PEAK (hrs)=	3.25	3.25	3.25
RUNOFF VOLUME (mm)=	95.13	41.15	83.25
TOTAL RAINFALL (mm)=	97.13	97.13	97.13
RUNOFF COEFFICIENT =	0.98	0.42	0.86

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202)
ID= 1 DT= 1.0 min

Area (ha)= 0.11
Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.09	0.02
Dep. Storage (mm)=	2.00	5.00
Average Slope (%)=	2.00	2.00

Length (m)=	26.50	28.00	
Mannings n =	0.013	0.190	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	3.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	3.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	3.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	3.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	3.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	3.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	3.89
0.683	3.89	2.250	9.71	3.817	9.71	5.38	3.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	3.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	3.89
0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89
1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89

1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89
1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Max.Eff.Inten.(mm/hr)=		151.52	80.70	
over (min)		5.00	4.00	
Storage Coeff. (min)=		0.79 (ii)	3.08 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.50	0.33	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.00	0.040 (iii)
TIME TO PEAK	(hrs)=	3.23	3.25	3.25
RUNOFF VOLUME	(mm)=	95.13	41.15	84.86
TOTAL RAINFALL	(mm)=	97.13	97.13	97.13
RUNOFF COEFFICIENT	=	0.98	0.42	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.064	3.25	83.25
+ ID2= 2 (0202):		0.11	0.040	3.25	84.86
ID = 3 (0010):		0.27	0.104	3.25	83.87

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012) | OVERFLOW IS OFF
IN= 2---> OUT= 1
DT= 1.0 min

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0200	0.0082
0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)		0.275	0.104	3.25	83.87
OUTFLOW: ID= 1 (0012)		0.275	0.023	3.35	83.04

PEAK FLOW REDUCTION [Qout/Qin](%)= 22.10
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0116

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.023	3.35	83.04
+ ID2= 2 (0204):		0.06	0.007	3.47	43.43
ID = 3 (0014):		0.34	0.030	3.43	75.65

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB | NASHYD (0205) | ID= 1 DT= 1.0 min | Area (ha)= 0.02 Curve Number (CN)= 74.0 | Ia (mm)= 4.56 # of Linear Res.(N)= 3.00 | U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	3.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	3.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	3.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	3.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	3.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	3.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	3.89
0.683	3.89	2.250	9.71	3.817	9.71	5.38	3.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	3.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	3.89
0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89

1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89
1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89
1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 3.367
RUNOFF VOLUME (mm)= 47.082
TOTAL RAINFALL (mm)= 97.130
RUNOFF COEFFICIENT = 0.485

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0203)	Area (ha)=	0.13
ID= 1 DT= 1.0 min	Total Imp(%)=	75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	1.583	5.83	3.150	151.52	4.72	7.77
0.033	0.00	1.600	5.83	3.167	151.52	4.73	7.77
0.050	0.00	1.617	5.83	3.183	151.52	4.75	7.77
0.067	0.00	1.633	5.83	3.200	151.52	4.77	5.83
0.083	0.00	1.650	5.83	3.217	151.52	4.78	5.83
0.100	0.00	1.667	5.83	3.233	151.52	4.80	5.83
0.117	0.00	1.683	5.83	3.250	151.52	4.82	5.83
0.133	0.00	1.700	5.83	3.267	21.39	4.83	5.83
0.150	0.00	1.717	5.83	3.283	21.37	4.85	5.83
0.167	0.00	1.733	5.83	3.300	21.37	4.87	5.83
0.183	0.00	1.750	5.83	3.317	21.37	4.88	5.83
0.200	0.00	1.767	9.71	3.333	21.37	4.90	5.83
0.217	0.00	1.783	9.71	3.350	21.37	4.92	5.83
0.233	0.00	1.800	9.71	3.367	21.37	4.93	5.83
0.250	0.00	1.817	9.71	3.383	21.37	4.95	5.83
0.267	3.89	1.833	9.71	3.400	21.37	4.97	5.83
0.283	3.89	1.850	9.71	3.417	21.37	4.98	5.83
0.300	3.89	1.867	9.71	3.433	21.37	5.00	5.83
0.317	3.89	1.883	9.71	3.450	21.37	5.02	5.83
0.333	3.89	1.900	9.71	3.467	21.37	5.03	5.83
0.350	3.89	1.917	9.71	3.483	21.37	5.05	5.83
0.367	3.89	1.933	9.71	3.500	21.37	5.07	5.83
0.383	3.89	1.950	9.71	3.517	21.37	5.08	5.83
0.400	3.89	1.967	9.71	3.533	21.37	5.10	5.83
0.417	3.89	1.983	9.71	3.550	21.37	5.12	5.83
0.433	3.89	2.000	9.71	3.567	21.37	5.13	5.83
0.450	3.89	2.017	9.71	3.583	21.37	5.15	5.83
0.467	3.89	2.033	9.71	3.600	21.37	5.17	5.83
0.483	3.89	2.050	9.71	3.617	21.37	5.18	5.83
0.500	3.89	2.067	9.71	3.633	21.37	5.20	5.83
0.517	3.89	2.083	9.71	3.650	21.37	5.22	5.83
0.533	3.89	2.100	9.71	3.667	21.37	5.23	5.83
0.550	3.89	2.117	9.71	3.683	21.37	5.25	5.83
0.567	3.89	2.133	9.71	3.700	21.37	5.27	3.89
0.583	3.89	2.150	9.71	3.717	21.37	5.28	3.89
0.600	3.89	2.167	9.71	3.733	21.37	5.30	3.89
0.617	3.89	2.183	9.71	3.750	21.37	5.32	3.89
0.633	3.89	2.200	9.71	3.767	9.71	5.33	3.89
0.650	3.89	2.217	9.71	3.783	9.71	5.35	3.89
0.667	3.89	2.233	9.71	3.800	9.71	5.37	3.89
0.683	3.89	2.250	9.71	3.817	9.71	5.38	3.89
0.700	3.89	2.267	11.66	3.833	9.71	5.40	3.89
0.717	3.89	2.283	11.66	3.850	9.71	5.42	3.89
0.733	3.89	2.300	11.66	3.867	9.71	5.43	3.89
0.750	3.89	2.317	11.66	3.883	9.71	5.45	3.89
0.767	5.83	2.333	11.66	3.900	9.71	5.47	3.89
0.783	5.83	2.350	11.66	3.917	9.71	5.48	3.89
0.800	5.83	2.367	11.66	3.933	9.71	5.50	3.89
0.817	5.83	2.383	11.66	3.950	9.71	5.52	3.89
0.833	5.83	2.400	11.66	3.967	9.71	5.53	3.89
0.850	5.83	2.417	11.66	3.983	9.71	5.55	3.89
0.867	5.83	2.433	11.66	4.000	9.71	5.57	3.89
0.883	5.83	2.450	11.66	4.017	9.71	5.58	3.89
0.900	5.83	2.467	11.66	4.033	9.71	5.60	3.89
0.917	5.83	2.483	11.66	4.050	9.71	5.62	3.89
0.933	5.83	2.500	11.66	4.067	9.71	5.63	3.89
0.950	5.83	2.517	11.66	4.083	9.71	5.65	3.89
0.967	5.83	2.533	11.66	4.100	9.71	5.67	3.89
0.983	5.83	2.550	11.66	4.117	9.71	5.68	3.89
1.000	5.83	2.567	11.66	4.133	9.71	5.70	3.89
1.017	5.83	2.583	11.66	4.150	9.71	5.72	3.89
1.033	5.83	2.600	11.66	4.167	9.71	5.73	3.89
1.050	5.83	2.617	11.66	4.183	9.71	5.75	3.89
1.067	5.83	2.633	11.66	4.200	9.71	5.77	3.89
1.083	5.83	2.650	11.66	4.217	9.71	5.78	3.89
1.100	5.83	2.667	11.66	4.233	9.71	5.80	3.89
1.117	5.83	2.683	11.66	4.250	9.71	5.82	3.89
1.133	5.83	2.700	11.66	4.267	7.77	5.83	3.89
1.150	5.83	2.717	11.66	4.283	7.77	5.85	3.89
1.167	5.83	2.733	11.66	4.300	7.77	5.87	3.89
1.183	5.83	2.750	11.66	4.317	7.77	5.88	3.89
1.200	5.83	2.767	58.27	4.333	7.77	5.90	3.89
1.217	5.83	2.783	58.28	4.350	7.77	5.92	3.89
1.233	5.83	2.800	58.28	4.367	7.77	5.93	3.89
1.250	5.83	2.817	58.28	4.383	7.77	5.95	3.89
1.267	5.83	2.833	58.28	4.400	7.77	5.97	3.89
1.283	5.83	2.850	58.28	4.417	7.77	5.98	3.89
1.300	5.83	2.867	58.28	4.433	7.77	6.00	3.89
1.317	5.83	2.883	58.28	4.450	7.77	6.02	3.89
1.333	5.83	2.900	58.28	4.467	7.77	6.03	3.89
1.350	5.83	2.917	58.28	4.483	7.77	6.05	3.89
1.367	5.83	2.933	58.28	4.500	7.77	6.07	3.89
1.383	5.83	2.950	58.28	4.517	7.77	6.08	3.89
1.400	5.83	2.967	58.28	4.533	7.77	6.10	3.89
1.417	5.83	2.983	58.28	4.550	7.77	6.12	3.89
1.433	5.83	3.000	58.28	4.567	7.77	6.13	3.89
1.450	5.83	3.017	151.51	4.583	7.77	6.15	3.89
1.467	5.83	3.033	151.52	4.600	7.77	6.17	3.89
1.483	5.83	3.050	151.52	4.617	7.77	6.18	3.89
1.500	5.83	3.067	151.52	4.633	7.77	6.20	3.89
1.517	5.83	3.083	151.52	4.650	7.77	6.22	3.89
1.533	5.83	3.100	151.52	4.667	7.77	6.23	3.89
1.550	5.83	3.117	151.52	4.683	7.77	6.25	3.88
1.567	5.83	3.133	151.52	4.700	7.77		

Max.Eff.Inten.(mm/hr)=		151.52	80.70	
over (min)		5.00	3.00	
Storage Coeff. (min)=		0.85 (ii)	2.09 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.49	0.47	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.01	0.050 (iii)
TIME TO PEAK	(hrs)=	3.23	3.25	3.25
RUNOFF VOLUME	(mm)=	95.13	41.15	81.63
TOTAL RAINFALL	(mm)=	97.13	97.13	97.13
RUNOFF COEFFICIENT	=	0.98	0.42	0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) IN= 2---> OUT= 1 DT= 1.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0160	0.0036
	0.0010	0.0004	0.0170	0.0043
	0.0060	0.0009	0.0180	0.0051
	0.0080	0.0013	0.0560	0.0059
	0.0100	0.0017	0.1330	0.0068
	0.0120	0.0022	0.2430	0.0078
	0.0130	0.0025	0.3860	0.0089
	0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.050	3.25	81.63
OUTFLOW: ID= 1 (0015)	0.133	0.017	3.33	80.88

PEAK FLOW REDUCTION [Qout/Qin](%)= 34.69
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0046

ADD HYD (0007) 1 + 2 = 3		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
	ID1= 1 (0015):	0.13	0.017	3.33	80.88
	+ ID2= 2 (0205):	0.02	0.003	3.37	47.08
	ID = 3 (0007):	0.16	0.021	3.35	76.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

       OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
      O   O    T      T    H   H   Y Y   MM MM  O   O
      O   O    T      T    H   H    Y    M   M  O   O
       OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

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  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\b1413d54-2f
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\b1413d54-2f
```

DATE: 04-17-2023 TIME: 01:25:47

USER:

COMMENTS: _____

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  ************************************************
  ** SIMULATION : N) 2yr 12hr 15min SCS Type II **
  ************************************************
```

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\

Ptotal= 47.50 mm	Comments: 5c5ec430-821e-4636-8c82-03edb318c07e\b2cc8c31 2yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	1.90	6.75	8.55	10.00	1.66
0.50	1.19	3.75	1.90	7.00	3.80	10.25	1.66
0.75	1.19	4.00	1.90	7.25	3.80	10.50	0.95
1.00	1.19	4.25	1.90	7.50	2.85	10.75	0.95
1.25	1.19	4.50	2.85	7.75	2.85	11.00	0.95
1.50	1.19	4.75	2.85	8.00	2.85	11.25	0.95
1.75	1.19	5.00	3.80	8.25	2.85	11.50	0.95
2.00	1.19	5.25	3.80	8.50	1.66	11.75	0.95
2.25	1.19	5.50	5.70	8.75	1.66	12.00	0.95
2.50	1.42	5.75	5.70	9.00	1.66	12.25	0.95
2.75	1.42	6.00	22.80	9.25	1.66		
3.00	1.42	6.25	62.70	9.50	1.66		
3.25	1.42	6.50	8.55	9.75	1.66		

CALIB NASHYD (0204) ID= 1 DT= 1.0 min	Area (ha)= 0.06	Curve Number (CN)= 71.0
	Ia (mm)= 4.85	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66
0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66
0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66
0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66

0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95
1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95
1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95
2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95
2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 6.467
RUNOFF VOLUME (mm)= 12.410
TOTAL RAINFALL (mm)= 47.500
RUNOFF COEFFICIENT = 0.261

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66

0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66
0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66
0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66
0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95
1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95
1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95
2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95

2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Max.Eff.Inten.(mm/hr)=		62.70	19.22	
over (min)		5.00	6.00	
Storage Coeff. (min)=		1.60 (ii)	5.13 (ii)	
Unit Hyd. Tpeak (min)=		5.00	6.00	
Unit Hyd. peak (cms)=		0.41	0.21	
				TOTALS
PEAK FLOW	(cms)=	0.02	0.00	0.025 (iii)
TIME TO PEAK	(hrs)=	6.25	6.27	6.25
RUNOFF VOLUME	(mm)=	45.50	11.53	38.02
TOTAL RAINFALL	(mm)=	47.50	47.50	47.50
RUNOFF COEFFICIENT	=	0.96	0.24	0.80

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area	(ha)=	0.11
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66
0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66
0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66
0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66
0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95
1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95

1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95
2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95
2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Max.Eff.Inten.(mm/hr)=	62.70	19.22	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.13 (ii)	4.39 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.46	0.25	
			TOTALS
PEAK FLOW (cms)=	0.01	0.00	0.016 (iii)
TIME TO PEAK (hrs)=	6.23	6.27	6.25
RUNOFF VOLUME (mm)=	45.50	11.53	39.04
TOTAL RAINFALL (mm)=	47.50	47.50	47.50
RUNOFF COEFFICIENT =	0.96	0.24	0.82

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.025	6.25	38.02
+ ID2= 2 (0202):		0.11	0.016	6.25	39.04
ID = 3 (0010):		0.27	0.041	6.25	38.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0010)	0.275	0.041	6.25	38.41
OUTFLOW: ID= 1 (0012)	0.275	0.014	6.33	37.58

PEAK FLOW REDUCTION [Qout/Qin](%)= 35.58
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0045

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.014	6.33	37.58
+ ID2= 2 (0204):		0.06	0.002	6.47	12.41
ID = 3 (0014):		0.34	0.016	6.35	32.89

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0205)	Area (ha)= 0.02	Curve Number (CN)= 74.0	
ID= 1 DT= 1.0 min	Ia (mm)= 4.56	# of Linear Res.(N)= 3.00	
	U.H. Tp(hrs)= 0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66
0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66
0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66

0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66
0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95
1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95
1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95
2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95
2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 6.383

RUNOFF VOLUME (mm)= 13.908
TOTAL RAINFALL (mm)= 47.500
RUNOFF COEFFICIENT = 0.293

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.43	6.150	62.70	9.22	1.66
0.033	0.00	3.100	1.43	6.167	62.70	9.23	1.66
0.050	0.00	3.117	1.43	6.183	62.70	9.25	1.66
0.067	0.00	3.133	1.43	6.200	62.70	9.27	1.66
0.083	0.00	3.150	1.43	6.217	62.70	9.28	1.66
0.100	0.00	3.167	1.43	6.233	62.70	9.30	1.66
0.117	0.00	3.183	1.43	6.250	62.61	9.32	1.66
0.133	0.00	3.200	1.43	6.267	8.55	9.33	1.66
0.150	0.00	3.217	1.43	6.283	8.55	9.35	1.66
0.167	0.00	3.233	1.43	6.300	8.55	9.37	1.66
0.183	0.00	3.250	1.43	6.317	8.55	9.38	1.66
0.200	0.00	3.267	1.90	6.333	8.55	9.40	1.66
0.217	0.00	3.283	1.90	6.350	8.55	9.42	1.66
0.233	0.00	3.300	1.90	6.367	8.55	9.43	1.66
0.250	0.00	3.317	1.90	6.383	8.55	9.45	1.66
0.267	1.19	3.333	1.90	6.400	8.55	9.47	1.66
0.283	1.19	3.350	1.90	6.417	8.55	9.48	1.66
0.300	1.19	3.367	1.90	6.433	8.55	9.50	1.66
0.317	1.19	3.383	1.90	6.450	8.55	9.52	1.66
0.333	1.19	3.400	1.90	6.467	8.55	9.53	1.66
0.350	1.19	3.417	1.90	6.483	8.55	9.55	1.66
0.367	1.19	3.433	1.90	6.500	8.55	9.57	1.66
0.383	1.19	3.450	1.90	6.517	8.55	9.58	1.66
0.400	1.19	3.467	1.90	6.533	8.55	9.60	1.66
0.417	1.19	3.483	1.90	6.550	8.55	9.62	1.66
0.433	1.19	3.500	1.90	6.567	8.55	9.63	1.66
0.450	1.19	3.517	1.90	6.583	8.55	9.65	1.66
0.467	1.19	3.533	1.90	6.600	8.55	9.67	1.66
0.483	1.19	3.550	1.90	6.617	8.55	9.68	1.66
0.500	1.19	3.567	1.90	6.633	8.55	9.70	1.66
0.517	1.19	3.583	1.90	6.650	8.55	9.72	1.66
0.533	1.19	3.600	1.90	6.667	8.55	9.73	1.66
0.550	1.19	3.617	1.90	6.683	8.55	9.75	1.66
0.567	1.19	3.633	1.90	6.700	8.55	9.77	1.66
0.583	1.19	3.650	1.90	6.717	8.55	9.78	1.66
0.600	1.19	3.667	1.90	6.733	8.55	9.80	1.66
0.617	1.19	3.683	1.90	6.750	8.54	9.82	1.66
0.633	1.19	3.700	1.90	6.767	3.80	9.83	1.66
0.650	1.19	3.717	1.90	6.783	3.80	9.85	1.66
0.667	1.19	3.733	1.90	6.800	3.80	9.87	1.66
0.683	1.19	3.750	1.90	6.817	3.80	9.88	1.66
0.700	1.19	3.767	1.90	6.833	3.80	9.90	1.66
0.717	1.19	3.783	1.90	6.850	3.80	9.92	1.66
0.733	1.19	3.800	1.90	6.867	3.80	9.93	1.66
0.750	1.19	3.817	1.90	6.883	3.80	9.95	1.66
0.767	1.19	3.833	1.90	6.900	3.80	9.97	1.66
0.783	1.19	3.850	1.90	6.917	3.80	9.98	1.66
0.800	1.19	3.867	1.90	6.933	3.80	10.00	1.66
0.817	1.19	3.883	1.90	6.950	3.80	10.02	1.66
0.833	1.19	3.900	1.90	6.967	3.80	10.03	1.66
0.850	1.19	3.917	1.90	6.983	3.80	10.05	1.66
0.867	1.19	3.933	1.90	7.000	3.80	10.07	1.66
0.883	1.19	3.950	1.90	7.017	3.80	10.08	1.66
0.900	1.19	3.967	1.90	7.033	3.80	10.10	1.66
0.917	1.19	3.983	1.90	7.050	3.80	10.12	1.66
0.933	1.19	4.000	1.90	7.067	3.80	10.13	1.66
0.950	1.19	4.017	1.90	7.083	3.80	10.15	1.66
0.967	1.19	4.033	1.90	7.100	3.80	10.17	1.66
0.983	1.19	4.050	1.90	7.117	3.80	10.18	1.66
1.000	1.19	4.067	1.90	7.133	3.80	10.20	1.66
1.017	1.19	4.083	1.90	7.150	3.80	10.22	1.66
1.033	1.19	4.100	1.90	7.167	3.80	10.23	1.66
1.050	1.19	4.117	1.90	7.183	3.80	10.25	1.66
1.067	1.19	4.133	1.90	7.200	3.80	10.27	0.95
1.083	1.19	4.150	1.90	7.217	3.80	10.28	0.95
1.100	1.19	4.167	1.90	7.233	3.80	10.30	0.95
1.117	1.19	4.183	1.90	7.250	3.80	10.32	0.95
1.133	1.19	4.200	1.90	7.267	2.85	10.33	0.95
1.150	1.19	4.217	1.90	7.283	2.85	10.35	0.95
1.167	1.19	4.233	1.90	7.300	2.85	10.37	0.95
1.183	1.19	4.250	1.90	7.317	2.85	10.38	0.95
1.200	1.19	4.267	2.85	7.333	2.85	10.40	0.95
1.217	1.19	4.283	2.85	7.350	2.85	10.42	0.95
1.233	1.19	4.300	2.85	7.367	2.85	10.43	0.95
1.250	1.19	4.317	2.85	7.383	2.85	10.45	0.95
1.267	1.19	4.333	2.85	7.400	2.85	10.47	0.95
1.283	1.19	4.350	2.85	7.417	2.85	10.48	0.95
1.300	1.19	4.367	2.85	7.433	2.85	10.50	0.95
1.317	1.19	4.383	2.85	7.450	2.85	10.52	0.95
1.333	1.19	4.400	2.85	7.467	2.85	10.53	0.95
1.350	1.19	4.417	2.85	7.483	2.85	10.55	0.95
1.367	1.19	4.433	2.85	7.500	2.85	10.57	0.95
1.383	1.19	4.450	2.85	7.517	2.85	10.58	0.95
1.400	1.19	4.467	2.85	7.533	2.85	10.60	0.95
1.417	1.19	4.483	2.85	7.550	2.85	10.62	0.95
1.433	1.19	4.500	2.85	7.567	2.85	10.63	0.95
1.450	1.19	4.517	2.85	7.583	2.85	10.65	0.95
1.467	1.19	4.533	2.85	7.600	2.85	10.67	0.95
1.483	1.19	4.550	2.85	7.617	2.85	10.68	0.95
1.500	1.19	4.567	2.85	7.633	2.85	10.70	0.95
1.517	1.19	4.583	2.85	7.650	2.85	10.72	0.95
1.533	1.19	4.600	2.85	7.667	2.85	10.73	0.95
1.550	1.19	4.617	2.85	7.683	2.85	10.75	0.95
1.567	1.19	4.633	2.85	7.700	2.85	10.77	0.95
1.583	1.19	4.650	2.85	7.717	2.85	10.78	0.95
1.600	1.19	4.667	2.85	7.733	2.85	10.80	0.95
1.617	1.19	4.683	2.85	7.750	2.85	10.82	0.95
1.633	1.19	4.700	2.85	7.767	2.85	10.83	0.95
1.650	1.19	4.717	2.85	7.783	2.85	10.85	0.95
1.667	1.19	4.733	2.85	7.800	2.85	10.87	0.95
1.683	1.19	4.750	2.85	7.817	2.85	10.88	0.95
1.700	1.19	4.767	3.80	7.833	2.85	10.90	0.95
1.717	1.19	4.783	3.80	7.850	2.85	10.92	0.95
1.733	1.19	4.800	3.80	7.867	2.85	10.93	0.95
1.750	1.19	4.817	3.80	7.883	2.85	10.95	0.95
1.767	1.19	4.833	3.80	7.900	2.85	10.97	0.95
1.783	1.19	4.850	3.80	7.917	2.85	10.98	0.95
1.800	1.19	4.867	3.80	7.933	2.85	11.00	0.95
1.817	1.19	4.883	3.80	7.950	2.85	11.02	0.95
1.833	1.19	4.900	3.80	7.967	2.85	11.03	0.95
1.850	1.19	4.917	3.80	7.983	2.85	11.05	0.95
1.867	1.19	4.933	3.80	8.000	2.85	11.07	0.95
1.883	1.19	4.950	3.80	8.017	2.85	11.08	0.95
1.900	1.19	4.967	3.80	8.033	2.85	11.10	0.95
1.917	1.19	4.983	3.80	8.050	2.85	11.12	0.95
1.933	1.19	5.000	3.80	8.067	2.85	11.13	0.95
1.950	1.19	5.017	3.80	8.083	2.85	11.15	0.95
1.967	1.19	5.033	3.80	8.100	2.85	11.17	0.95
1.983	1.19	5.050	3.80	8.117	2.85	11.18	0.95
2.000	1.19	5.067	3.80	8.133	2.85	11.20	0.95
2.017	1.19	5.083	3.80	8.150	2.85	11.22	0.95
2.033	1.19	5.100	3.80	8.167	2.85	11.23	0.95
2.050	1.19	5.117	3.80	8.183	2.85	11.25	0.95
2.067	1.19	5.133	3.80	8.200	2.85	11.27	0.95
2.083	1.19	5.150	3.80	8.217	2.85	11.28	0.95
2.100	1.19	5.167	3.80	8.233	2.85	11.30	0.95
2.117	1.19	5.183	3.80	8.250	2.85	11.32	0.95
2.133	1.19	5.200	3.80	8.267	1.66	11.33	0.95
2.150	1.19	5.217	3.80	8.283	1.66	11.35	0.95
2.167	1.19	5.233	3.80	8.300	1.66	11.37	0.95
2.183	1.19	5.250	3.80	8.317	1.66	11.38	0.95
2.200	1.19	5.267	5.70	8.333	1.66	11.40	0.95
2.217	1.19	5.283	5.70	8.350	1.66	11.42	0.95
2.233	1.19	5.300	5.70	8.367	1.66	11.43	0.95
2.250	1.19	5.317	5.70	8.383	1.66	11.45	0.95
2.267	1.42	5.333	5.70	8.400	1.66	11.47	0.95
2.283	1.43	5.350	5.70	8.417	1.66	11.48	0.95
2.300	1.43	5.367	5.70	8.433	1.66	11.50	0.95
2.317	1.43	5.383	5.70	8.450	1.66	11.52	0.95
2.333	1.43	5.400	5.70	8.467	1.66	11.53	0.95
2.350	1.43	5.417	5.70	8.483	1.66	11.55	0.95
2.367	1.43	5.433	5.70	8.500	1.66	11.57	0.95
2.383	1.43	5.450	5.70	8.517	1.66	11.58	0.95

2.400	1.43	5.467	5.70	8.533	1.66	11.60	0.95
2.417	1.43	5.483	5.70	8.550	1.66	11.62	0.95
2.433	1.43	5.500	5.70	8.567	1.66	11.63	0.95
2.450	1.43	5.517	5.70	8.583	1.66	11.65	0.95
2.467	1.43	5.533	5.70	8.600	1.66	11.67	0.95
2.483	1.43	5.550	5.70	8.617	1.66	11.68	0.95
2.500	1.43	5.567	5.70	8.633	1.66	11.70	0.95
2.517	1.42	5.583	5.70	8.650	1.66	11.72	0.95
2.533	1.43	5.600	5.70	8.667	1.66	11.73	0.95
2.550	1.43	5.617	5.70	8.683	1.66	11.75	0.95
2.567	1.43	5.633	5.70	8.700	1.66	11.77	0.95
2.583	1.43	5.650	5.70	8.717	1.66	11.78	0.95
2.600	1.43	5.667	5.70	8.733	1.66	11.80	0.95
2.617	1.43	5.683	5.70	8.750	1.66	11.82	0.95
2.633	1.43	5.700	5.70	8.767	1.66	11.83	0.95
2.650	1.43	5.717	5.70	8.783	1.66	11.85	0.95
2.667	1.43	5.733	5.70	8.800	1.66	11.87	0.95
2.683	1.43	5.750	5.72	8.817	1.66	11.88	0.95
2.700	1.43	5.767	22.80	8.833	1.66	11.90	0.95
2.717	1.43	5.783	22.80	8.850	1.66	11.92	0.95
2.733	1.43	5.800	22.80	8.867	1.66	11.93	0.95
2.750	1.43	5.817	22.80	8.883	1.66	11.95	0.95
2.767	1.42	5.833	22.80	8.900	1.66	11.97	0.95
2.783	1.43	5.850	22.80	8.917	1.66	11.98	0.95
2.800	1.43	5.867	22.80	8.933	1.66	12.00	0.95
2.817	1.43	5.883	22.80	8.950	1.66	12.02	0.95
2.833	1.43	5.900	22.80	8.967	1.66	12.03	0.95
2.850	1.43	5.917	22.80	8.983	1.66	12.05	0.95
2.867	1.43	5.933	22.80	9.000	1.66	12.07	0.95
2.883	1.43	5.950	22.80	9.017	1.66	12.08	0.95
2.900	1.43	5.967	22.80	9.033	1.66	12.10	0.95
2.917	1.43	5.983	22.80	9.050	1.66	12.12	0.95
2.933	1.43	6.000	22.86	9.067	1.66	12.13	0.95
2.950	1.43	6.017	62.70	9.083	1.66	12.15	0.95
2.967	1.43	6.033	62.70	9.100	1.66	12.17	0.95
2.983	1.43	6.050	62.70	9.117	1.66	12.18	0.95
3.000	1.43	6.067	62.70	9.133	1.66	12.20	0.95
3.017	1.42	6.083	62.70	9.150	1.66	12.22	0.95
3.033	1.43	6.100	62.70	9.167	1.66	12.23	0.95
3.050	1.43	6.117	62.70	9.183	1.66	12.25	0.95
3.067	1.43	6.133	62.70	9.200	1.66		

Max.Eff.Inten.(mm/hr)=	62.70	19.22	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.21 (ii)	2.98 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.45	0.38	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.019 (iii)
TIME TO PEAK (hrs)=	6.23	6.25	6.25
RUNOFF VOLUME (mm)=	45.50	11.53	37.00
TOTAL RAINFALL (mm)=	47.50	47.50	47.50
RUNOFF COEFFICIENT =	0.96	0.24	0.78

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 1.0 min	

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.019	6.25	37.00
OUTFLOW: ID= 1 (0015)	0.133	0.010	6.32	36.25

PEAK FLOW REDUCTION [Qout/Qin](%)= 51.30
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0017

ADD HYD (0007)		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3	ID1= 1 (0015):	0.13	0.010	6.32	36.25
	+ ID2= 2 (0205):	0.02	0.001	6.38	13.91
	ID = 3 (0007):	0.16	0.011	6.32	33.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M M M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
```

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0b2871db-87
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0b2871db-87

DATE: 04-17-2023 TIME: 01:25:42

USER:

COMMENTS: _____

** SIMULATION : O) 5yr 12hr 15min SCS Type II **

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\5c5ec430-821e-4636-8c82-03edb318c07e\80a1c5bf
Ptotal= 66.00 mm	Comments: 5yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	2.64	6.75	11.88	10.00	2.31
0.50	1.65	3.75	2.64	7.00	5.28	10.25	2.31
0.75	1.65	4.00	2.64	7.25	5.28	10.50	1.32
1.00	1.65	4.25	2.64	7.50	3.96	10.75	1.32
1.25	1.65	4.50	3.96	7.75	3.96	11.00	1.32
1.50	1.65	4.75	3.96	8.00	3.96	11.25	1.32
1.75	1.65	5.00	5.28	8.25	3.96	11.50	1.32
2.00	1.65	5.25	5.28	8.50	2.31	11.75	1.32
2.25	1.65	5.50	7.92	8.75	2.31	12.00	1.32
2.50	1.98	5.75	7.92	9.00	2.31	12.25	1.32
2.75	1.98	6.00	31.68	9.25	2.31		
3.00	1.98	6.25	87.12	9.50	2.31		
3.25	1.98	6.50	11.88	9.75	2.31		

CALIB			
NASHYD (0204)	Area (ha)=	0.06	Curve Number (CN)= 71.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.85	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31
0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31
1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32
1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32
1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32
1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32
2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32

2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 6.467
RUNOFF VOLUME (mm)= 22.662
TOTAL RAINFALL (mm)= 66.000
RUNOFF COEFFICIENT = 0.343

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201) | Area (ha)= 0.17
ID= 1 DT= 1.0 min | Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31
0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31
1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32
1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32
1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32

1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32
2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32
2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Max.Eff.Inten.(mm/hr)=	87.12	35.24	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.40 (ii)	4.50 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.43	0.24	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.035 (iii)
TIME TO PEAK (hrs)=	6.25	6.27	6.25
RUNOFF VOLUME (mm)=	64.00	21.25	54.58
TOTAL RAINFALL (mm)=	66.00	66.00	66.00
RUNOFF COEFFICIENT =	0.97	0.32	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31
0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31

1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32
1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32
1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32
1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32
2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32
2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Max.Eff.Inten.(mm/hr)=	87.12	35.24	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.99 (ii)	3.85 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.48	0.29	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.023 (iii)
TIME TO PEAK (hrs)=	6.23	6.25	6.25
RUNOFF VOLUME (mm)=	64.00	21.25	55.87
TOTAL RAINFALL (mm)=	66.00	66.00	66.00
RUNOFF COEFFICIENT =	0.97	0.32	0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.035	6.25	54.58
+ ID2= 2 (0202):		0.11	0.023	6.25	55.87
ID = 3 (0010):		0.27	0.058	6.25	55.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177

0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.058	6.25	55.08
OUTFLOW: ID= 1 (0012)	0.275	0.018	6.33	54.25

PEAK FLOW REDUCTION [Qout/Qin](%)= 30.52
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0063

ADD HYD (0014)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.018	6.33	54.25
+ ID2= 2 (0204):	0.06	0.003	6.47	22.66
ID = 3 (0014):	0.34	0.021	6.42	48.36

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
NASHYD (0205) | ID= 1 DT= 1.0 min

Area (ha)= 0.02 Curve Number (CN)= 74.0
Ia (mm)= 4.56 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31
0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31
1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32
1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32
1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32
1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32

2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32
2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 6.367
RUNOFF VOLUME (mm)= 25.010
TOTAL RAINFALL (mm)= 66.000
RUNOFF COEFFICIENT = 0.379

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	Area (ha)= 0.13
STANDHYD (0203)	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00
ID= 1 DT= 1.0 min	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.017	0.00	3.083	1.98	6.150	87.12	9.22	2.31
0.033	0.00	3.100	1.98	6.167	87.12	9.23	2.31
0.050	0.00	3.117	1.98	6.183	87.12	9.25	2.31
0.067	0.00	3.133	1.98	6.200	87.12	9.27	2.31
0.083	0.00	3.150	1.98	6.217	87.12	9.28	2.31
0.100	0.00	3.167	1.98	6.233	87.12	9.30	2.31
0.117	0.00	3.183	1.98	6.250	87.00	9.32	2.31
0.133	0.00	3.200	1.98	6.267	11.88	9.33	2.31
0.150	0.00	3.217	1.98	6.283	11.88	9.35	2.31
0.167	0.00	3.233	1.98	6.300	11.88	9.37	2.31
0.183	0.00	3.250	1.98	6.317	11.88	9.38	2.31
0.200	0.00	3.267	2.64	6.333	11.88	9.40	2.31
0.217	0.00	3.283	2.64	6.350	11.88	9.42	2.31
0.233	0.00	3.300	2.64	6.367	11.88	9.43	2.31
0.250	0.00	3.317	2.64	6.383	11.88	9.45	2.31
0.267	1.65	3.333	2.64	6.400	11.88	9.47	2.31
0.283	1.65	3.350	2.64	6.417	11.88	9.48	2.31
0.300	1.65	3.367	2.64	6.433	11.88	9.50	2.31
0.317	1.65	3.383	2.64	6.450	11.88	9.52	2.31
0.333	1.65	3.400	2.64	6.467	11.88	9.53	2.31
0.350	1.65	3.417	2.64	6.483	11.88	9.55	2.31
0.367	1.65	3.433	2.64	6.500	11.88	9.57	2.31
0.383	1.65	3.450	2.64	6.517	11.88	9.58	2.31
0.400	1.65	3.467	2.64	6.533	11.88	9.60	2.31
0.417	1.65	3.483	2.64	6.550	11.88	9.62	2.31
0.433	1.65	3.500	2.64	6.567	11.88	9.63	2.31
0.450	1.65	3.517	2.64	6.583	11.88	9.65	2.31
0.467	1.65	3.533	2.64	6.600	11.88	9.67	2.31
0.483	1.65	3.550	2.64	6.617	11.88	9.68	2.31
0.500	1.65	3.567	2.64	6.633	11.88	9.70	2.31
0.517	1.65	3.583	2.64	6.650	11.88	9.72	2.31
0.533	1.65	3.600	2.64	6.667	11.88	9.73	2.31
0.550	1.65	3.617	2.64	6.683	11.88	9.75	2.31
0.567	1.65	3.633	2.64	6.700	11.88	9.77	2.31
0.583	1.65	3.650	2.64	6.717	11.88	9.78	2.31
0.600	1.65	3.667	2.64	6.733	11.88	9.80	2.31
0.617	1.65	3.683	2.64	6.750	11.87	9.82	2.31
0.633	1.65	3.700	2.64	6.767	5.28	9.83	2.31
0.650	1.65	3.717	2.64	6.783	5.28	9.85	2.31
0.667	1.65	3.733	2.64	6.800	5.28	9.87	2.31
0.683	1.65	3.750	2.64	6.817	5.28	9.88	2.31
0.700	1.65	3.767	2.64	6.833	5.28	9.90	2.31
0.717	1.65	3.783	2.64	6.850	5.28	9.92	2.31
0.733	1.65	3.800	2.64	6.867	5.28	9.93	2.31
0.750	1.65	3.817	2.64	6.883	5.28	9.95	2.31
0.767	1.65	3.833	2.64	6.900	5.28	9.97	2.31
0.783	1.65	3.850	2.64	6.917	5.28	9.98	2.31
0.800	1.65	3.867	2.64	6.933	5.28	10.00	2.31
0.817	1.65	3.883	2.64	6.950	5.28	10.02	2.31
0.833	1.65	3.900	2.64	6.967	5.28	10.03	2.31
0.850	1.65	3.917	2.64	6.983	5.28	10.05	2.31
0.867	1.65	3.933	2.64	7.000	5.28	10.07	2.31
0.883	1.65	3.950	2.64	7.017	5.28	10.08	2.31
0.900	1.65	3.967	2.64	7.033	5.28	10.10	2.31
0.917	1.65	3.983	2.64	7.050	5.28	10.12	2.31
0.933	1.65	4.000	2.64	7.067	5.28	10.13	2.31
0.950	1.65	4.017	2.64	7.083	5.28	10.15	2.31
0.967	1.65	4.033	2.64	7.100	5.28	10.17	2.31
0.983	1.65	4.050	2.64	7.117	5.28	10.18	2.31
1.000	1.65	4.067	2.64	7.133	5.28	10.20	2.31
1.017	1.65	4.083	2.64	7.150	5.28	10.22	2.31
1.033	1.65	4.100	2.64	7.167	5.28	10.23	2.31
1.050	1.65	4.117	2.64	7.183	5.28	10.25	2.31
1.067	1.65	4.133	2.64	7.200	5.28	10.27	1.32
1.083	1.65	4.150	2.64	7.217	5.28	10.28	1.32
1.100	1.65	4.167	2.64	7.233	5.28	10.30	1.32
1.117	1.65	4.183	2.64	7.250	5.28	10.32	1.32
1.133	1.65	4.200	2.64	7.267	3.96	10.33	1.32
1.150	1.65	4.217	2.64	7.283	3.96	10.35	1.32
1.167	1.65	4.233	2.64	7.300	3.96	10.37	1.32
1.183	1.65	4.250	2.64	7.317	3.96	10.38	1.32
1.200	1.65	4.267	3.96	7.333	3.96	10.40	1.32
1.217	1.65	4.283	3.96	7.350	3.96	10.42	1.32
1.233	1.65	4.300	3.96	7.367	3.96	10.43	1.32
1.250	1.65	4.317	3.96	7.383	3.96	10.45	1.32
1.267	1.65	4.333	3.96	7.400	3.96	10.47	1.32
1.283	1.65	4.350	3.96	7.417	3.96	10.48	1.32
1.300	1.65	4.367	3.96	7.433	3.96	10.50	1.32
1.317	1.65	4.383	3.96	7.450	3.96	10.52	1.32
1.333	1.65	4.400	3.96	7.467	3.96	10.53	1.32
1.350	1.65	4.417	3.96	7.483	3.96	10.55	1.32
1.367	1.65	4.433	3.96	7.500	3.96	10.57	1.32
1.383	1.65	4.450	3.96	7.517	3.96	10.58	1.32
1.400	1.65	4.467	3.96	7.533	3.96	10.60	1.32
1.417	1.65	4.483	3.96	7.550	3.96	10.62	1.32

1.433	1.65	4.500	3.96	7.567	3.96	10.63	1.32
1.450	1.65	4.517	3.96	7.583	3.96	10.65	1.32
1.467	1.65	4.533	3.96	7.600	3.96	10.67	1.32
1.483	1.65	4.550	3.96	7.617	3.96	10.68	1.32
1.500	1.65	4.567	3.96	7.633	3.96	10.70	1.32
1.517	1.65	4.583	3.96	7.650	3.96	10.72	1.32
1.533	1.65	4.600	3.96	7.667	3.96	10.73	1.32
1.550	1.65	4.617	3.96	7.683	3.96	10.75	1.32
1.567	1.65	4.633	3.96	7.700	3.96	10.77	1.32
1.583	1.65	4.650	3.96	7.717	3.96	10.78	1.32
1.600	1.65	4.667	3.96	7.733	3.96	10.80	1.32
1.617	1.65	4.683	3.96	7.750	3.96	10.82	1.32
1.633	1.65	4.700	3.96	7.767	3.96	10.83	1.32
1.650	1.65	4.717	3.96	7.783	3.96	10.85	1.32
1.667	1.65	4.733	3.96	7.800	3.96	10.87	1.32
1.683	1.65	4.750	3.96	7.817	3.96	10.88	1.32
1.700	1.65	4.767	5.28	7.833	3.96	10.90	1.32
1.717	1.65	4.783	5.28	7.850	3.96	10.92	1.32
1.733	1.65	4.800	5.28	7.867	3.96	10.93	1.32
1.750	1.65	4.817	5.28	7.883	3.96	10.95	1.32
1.767	1.65	4.833	5.28	7.900	3.96	10.97	1.32
1.783	1.65	4.850	5.28	7.917	3.96	10.98	1.32
1.800	1.65	4.867	5.28	7.933	3.96	11.00	1.32
1.817	1.65	4.883	5.28	7.950	3.96	11.02	1.32
1.833	1.65	4.900	5.28	7.967	3.96	11.03	1.32
1.850	1.65	4.917	5.28	7.983	3.96	11.05	1.32
1.867	1.65	4.933	5.28	8.000	3.96	11.07	1.32
1.883	1.65	4.950	5.28	8.017	3.96	11.08	1.32
1.900	1.65	4.967	5.28	8.033	3.96	11.10	1.32
1.917	1.65	4.983	5.28	8.050	3.96	11.12	1.32
1.933	1.65	5.000	5.28	8.067	3.96	11.13	1.32
1.950	1.65	5.017	5.28	8.083	3.96	11.15	1.32
1.967	1.65	5.033	5.28	8.100	3.96	11.17	1.32
1.983	1.65	5.050	5.28	8.117	3.96	11.18	1.32
2.000	1.65	5.067	5.28	8.133	3.96	11.20	1.32
2.017	1.65	5.083	5.28	8.150	3.96	11.22	1.32
2.033	1.65	5.100	5.28	8.167	3.96	11.23	1.32
2.050	1.65	5.117	5.28	8.183	3.96	11.25	1.32
2.067	1.65	5.133	5.28	8.200	3.96	11.27	1.32
2.083	1.65	5.150	5.28	8.217	3.96	11.28	1.32
2.100	1.65	5.167	5.28	8.233	3.96	11.30	1.32
2.117	1.65	5.183	5.28	8.250	3.96	11.32	1.32
2.133	1.65	5.200	5.28	8.267	2.31	11.33	1.32
2.150	1.65	5.217	5.28	8.283	2.31	11.35	1.32
2.167	1.65	5.233	5.28	8.300	2.31	11.37	1.32
2.183	1.65	5.250	5.28	8.317	2.31	11.38	1.32
2.200	1.65	5.267	7.92	8.333	2.31	11.40	1.32
2.217	1.65	5.283	7.92	8.350	2.31	11.42	1.32
2.233	1.65	5.300	7.92	8.367	2.31	11.43	1.32
2.250	1.65	5.317	7.92	8.383	2.31	11.45	1.32
2.267	1.98	5.333	7.92	8.400	2.31	11.47	1.32
2.283	1.98	5.350	7.92	8.417	2.31	11.48	1.32
2.300	1.98	5.367	7.92	8.433	2.31	11.50	1.32
2.317	1.98	5.383	7.92	8.450	2.31	11.52	1.32
2.333	1.98	5.400	7.92	8.467	2.31	11.53	1.32
2.350	1.98	5.417	7.92	8.483	2.31	11.55	1.32
2.367	1.98	5.433	7.92	8.500	2.31	11.57	1.32
2.383	1.98	5.450	7.92	8.517	2.31	11.58	1.32
2.400	1.98	5.467	7.92	8.533	2.31	11.60	1.32
2.417	1.98	5.483	7.92	8.550	2.31	11.62	1.32
2.433	1.98	5.500	7.92	8.567	2.31	11.63	1.32
2.450	1.98	5.517	7.92	8.583	2.31	11.65	1.32
2.467	1.98	5.533	7.92	8.600	2.31	11.67	1.32
2.483	1.98	5.550	7.92	8.617	2.31	11.68	1.32
2.500	1.98	5.567	7.92	8.633	2.31	11.70	1.32
2.517	1.98	5.583	7.92	8.650	2.31	11.72	1.32
2.533	1.98	5.600	7.92	8.667	2.31	11.73	1.32
2.550	1.98	5.617	7.92	8.683	2.31	11.75	1.32
2.567	1.98	5.633	7.92	8.700	2.31	11.77	1.32
2.583	1.98	5.650	7.92	8.717	2.31	11.78	1.32
2.600	1.98	5.667	7.92	8.733	2.31	11.80	1.32
2.617	1.98	5.683	7.92	8.750	2.31	11.82	1.32
2.633	1.98	5.700	7.92	8.767	2.31	11.83	1.32
2.650	1.98	5.717	7.92	8.783	2.31	11.85	1.32
2.667	1.98	5.733	7.92	8.800	2.31	11.87	1.32
2.683	1.98	5.750	7.95	8.817	2.31	11.88	1.32
2.700	1.98	5.767	31.68	8.833	2.31	11.90	1.32
2.717	1.98	5.783	31.68	8.850	2.31	11.92	1.32
2.733	1.98	5.800	31.68	8.867	2.31	11.93	1.32
2.750	1.98	5.817	31.68	8.883	2.31	11.95	1.32
2.767	1.98	5.833	31.68	8.900	2.31	11.97	1.32
2.783	1.98	5.850	31.68	8.917	2.31	11.98	1.32
2.800	1.98	5.867	31.68	8.933	2.31	12.00	1.32
2.817	1.98	5.883	31.68	8.950	2.31	12.02	1.32
2.833	1.98	5.900	31.68	8.967	2.31	12.03	1.32
2.850	1.98	5.917	31.68	8.983	2.31	12.05	1.32
2.867	1.98	5.933	31.68	9.000	2.31	12.07	1.32
2.883	1.98	5.950	31.68	9.017	2.31	12.08	1.32
2.900	1.98	5.967	31.68	9.033	2.31	12.10	1.32
2.917	1.98	5.983	31.68	9.050	2.31	12.12	1.32
2.933	1.98	6.000	31.76	9.067	2.31	12.13	1.32
2.950	1.98	6.017	87.12	9.083	2.31	12.15	1.32
2.967	1.98	6.033	87.12	9.100	2.31	12.17	1.32
2.983	1.98	6.050	87.12	9.117	2.31	12.18	1.32
3.000	1.98	6.067	87.12	9.133	2.31	12.20	1.32
3.017	1.98	6.083	87.12	9.150	2.31	12.22	1.32
3.033	1.98	6.100	87.12	9.167	2.31	12.23	1.32
3.050	1.98	6.117	87.12	9.183	2.31	12.25	1.32
3.067	1.98	6.133	87.12	9.200	2.31		

Max.Eff.Inten.(mm/hr)=		87.12	35.24	
over (min)		5.00	3.00	
Storage Coeff. (min)=		1.06 (ii)	2.61 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.47	0.41	
				TOTALS
PEAK FLOW	(cms)=	0.02	0.00	0.028 (iii)
TIME TO PEAK	(hrs)=	6.23	6.25	6.25
RUNOFF VOLUME	(mm)=	64.00	21.25	53.30
TOTAL RAINFALL	(mm)=	66.00	66.00	66.00
RUNOFF COEFFICIENT	=	0.97	0.32	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0160	0.0036
	0.0010	0.0004	0.0170	0.0043
	0.0060	0.0009	0.0180	0.0051
	0.0080	0.0013	0.0560	0.0059
	0.0100	0.0017	0.1330	0.0068
	0.0120	0.0022	0.2430	0.0078
	0.0130	0.0025	0.3860	0.0089
	0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.028	6.25	53.30
OUTFLOW: ID= 1 (0015)	0.133	0.013	6.32	52.56

PEAK FLOW REDUCTION [Qout/Qin](%)= 45.85
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0024

ADD HYD (0007)				
1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.013	6.32	52.56
+ ID2= 2 (0205):	0.02	0.001	6.37	25.01
ID = 3 (0007):	0.16	0.014	6.33	48.66

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\cac7cbf6-40
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\cac7cbf6-40

DATE: 04-17-2023 TIME: 01:25:48

USER:

COMMENTS: _____

****
** SIMULATION : P) 10yr 12hr 15min SCS Type I **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\5c5ec430-821e-4636-8c82-03edb318c07e\8142d492
Ptotal= 78.50 mm	Comments: 10yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	3.14	6.75	14.13	10.00	2.75
0.50	1.96	3.75	3.14	7.00	6.28	10.25	2.75
0.75	1.96	4.00	3.14	7.25	6.28	10.50	1.57
1.00	1.96	4.25	3.14	7.50	4.71	10.75	1.57
1.25	1.96	4.50	4.71	7.75	4.71	11.00	1.57
1.50	1.96	4.75	4.71	8.00	4.71	11.25	1.57
1.75	1.96	5.00	6.28	8.25	4.71	11.50	1.57
2.00	1.96	5.25	6.28	8.50	2.75	11.75	1.57
2.25	1.96	5.50	9.42	8.75	2.75	12.00	1.57
2.50	2.36	5.75	9.42	9.00	2.75	12.25	1.57
2.75	2.36	6.00	37.68	9.25	2.75		
3.00	2.36	6.25	103.62	9.50	2.75		
3.25	2.36	6.50	14.13	9.75	2.75		

CALIB			
NASHYD (0204)	Area (ha)=	0.06	Curve Number (CN)= 71.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.85	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75
0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75
0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75
0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75
0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57
1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57
1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57

1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57
2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.004 (i)

TIME TO PEAK (hrs)= 6.467
RUNOFF VOLUME (mm)= 30.563
TOTAL RAINFALL (mm)= 78.499
RUNOFF COEFFICIENT = 0.389

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75
0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75
0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75
0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75

0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57
1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57
1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57
1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57
2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Max.Eff.Inten.(mm/hr)=		103.62	47.59	
over (min)		5.00	5.00	
Storage Coeff. (min)=		1.31 (ii)	4.20 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00	
Unit Hyd. peak (cms)=		0.44	0.25	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.00	0.043 (iii)
TIME TO PEAK	(hrs)=	6.25	6.27	6.25
RUNOFF VOLUME	(mm)=	76.50	28.79	66.00
TOTAL RAINFALL	(mm)=	78.50	78.50	78.50
RUNOFF COEFFICIENT	=	0.97	0.37	0.84

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area	(ha)= 0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75

0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75
0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75
0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75
0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57
1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57
1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57
1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57

2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Max.Eff.Inten.(mm/hr)=	103.62	47.59	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.92 (ii)	3.59 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.48	0.30	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.027 (iii)
TIME TO PEAK (hrs)=	6.23	6.25	6.25
RUNOFF VOLUME (mm)=	76.50	28.79	67.43
TOTAL RAINFALL (mm)=	78.50	78.50	78.50
RUNOFF COEFFICIENT =	0.97	0.37	0.86

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.043	6.25	66.00
+ ID2= 2 (0202):		0.11	0.027	6.25	67.43
ID = 3 (0010):		0.27	0.070	6.25	66.54

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.070	6.25	66.54
OUTFLOW: ID= 1 (0012)	0.275	0.019	6.35	65.71

PEAK FLOW REDUCTION [Qout/Qin](%)= 27.52
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0076

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.019	6.35	65.71
+ ID2= 2 (0204):		0.06	0.004	6.47	30.56
ID = 3 (0014):		0.34	0.023	6.40	59.16

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0205)	Area (ha)=	0.02	Curve Number (CN)= 74.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.56	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.22	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75
0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75
0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75
0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75
0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57

1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57
1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57
1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57
2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 6.367
RUNOFF VOLUME (mm)= 33.464
TOTAL RAINFALL (mm)= 78.499
RUNOFF COEFFICIENT = 0.426

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.36	6.150	103.62	9.22	2.75
0.033	0.00	3.100	2.36	6.167	103.62	9.23	2.75
0.050	0.00	3.117	2.36	6.183	103.62	9.25	2.75
0.067	0.00	3.133	2.36	6.200	103.62	9.27	2.75
0.083	0.00	3.150	2.36	6.217	103.62	9.28	2.75
0.100	0.00	3.167	2.36	6.233	103.62	9.30	2.75
0.117	0.00	3.183	2.36	6.250	103.48	9.32	2.75
0.133	0.00	3.200	2.36	6.267	14.13	9.33	2.75
0.150	0.00	3.217	2.36	6.283	14.13	9.35	2.75
0.167	0.00	3.233	2.36	6.300	14.13	9.37	2.75
0.183	0.00	3.250	2.36	6.317	14.13	9.38	2.75
0.200	0.00	3.267	3.14	6.333	14.13	9.40	2.75
0.217	0.00	3.283	3.14	6.350	14.13	9.42	2.75
0.233	0.00	3.300	3.14	6.367	14.13	9.43	2.75
0.250	0.00	3.317	3.14	6.383	14.13	9.45	2.75
0.267	1.96	3.333	3.14	6.400	14.13	9.47	2.75
0.283	1.96	3.350	3.14	6.417	14.13	9.48	2.75
0.300	1.96	3.367	3.14	6.433	14.13	9.50	2.75
0.317	1.96	3.383	3.14	6.450	14.13	9.52	2.75
0.333	1.96	3.400	3.14	6.467	14.13	9.53	2.75
0.350	1.96	3.417	3.14	6.483	14.13	9.55	2.75
0.367	1.96	3.433	3.14	6.500	14.13	9.57	2.75
0.383	1.96	3.450	3.14	6.517	14.13	9.58	2.75
0.400	1.96	3.467	3.14	6.533	14.13	9.60	2.75
0.417	1.96	3.483	3.14	6.550	14.13	9.62	2.75
0.433	1.96	3.500	3.14	6.567	14.13	9.63	2.75
0.450	1.96	3.517	3.14	6.583	14.13	9.65	2.75

0.467	1.96	3.533	3.14	6.600	14.13	9.67	2.75
0.483	1.96	3.550	3.14	6.617	14.13	9.68	2.75
0.500	1.96	3.567	3.14	6.633	14.13	9.70	2.75
0.517	1.96	3.583	3.14	6.650	14.13	9.72	2.75
0.533	1.96	3.600	3.14	6.667	14.13	9.73	2.75
0.550	1.96	3.617	3.14	6.683	14.13	9.75	2.75
0.567	1.96	3.633	3.14	6.700	14.13	9.77	2.75
0.583	1.96	3.650	3.14	6.717	14.13	9.78	2.75
0.600	1.96	3.667	3.14	6.733	14.13	9.80	2.75
0.617	1.96	3.683	3.14	6.750	14.11	9.82	2.75
0.633	1.96	3.700	3.14	6.767	6.28	9.83	2.75
0.650	1.96	3.717	3.14	6.783	6.28	9.85	2.75
0.667	1.96	3.733	3.14	6.800	6.28	9.87	2.75
0.683	1.96	3.750	3.14	6.817	6.28	9.88	2.75
0.700	1.96	3.767	3.14	6.833	6.28	9.90	2.75
0.717	1.96	3.783	3.14	6.850	6.28	9.92	2.75
0.733	1.96	3.800	3.14	6.867	6.28	9.93	2.75
0.750	1.96	3.817	3.14	6.883	6.28	9.95	2.75
0.767	1.96	3.833	3.14	6.900	6.28	9.97	2.75
0.783	1.96	3.850	3.14	6.917	6.28	9.98	2.75
0.800	1.96	3.867	3.14	6.933	6.28	10.00	2.75
0.817	1.96	3.883	3.14	6.950	6.28	10.02	2.75
0.833	1.96	3.900	3.14	6.967	6.28	10.03	2.75
0.850	1.96	3.917	3.14	6.983	6.28	10.05	2.75
0.867	1.96	3.933	3.14	7.000	6.28	10.07	2.75
0.883	1.96	3.950	3.14	7.017	6.28	10.08	2.75
0.900	1.96	3.967	3.14	7.033	6.28	10.10	2.75
0.917	1.96	3.983	3.14	7.050	6.28	10.12	2.75
0.933	1.96	4.000	3.14	7.067	6.28	10.13	2.75
0.950	1.96	4.017	3.14	7.083	6.28	10.15	2.75
0.967	1.96	4.033	3.14	7.100	6.28	10.17	2.75
0.983	1.96	4.050	3.14	7.117	6.28	10.18	2.75
1.000	1.96	4.067	3.14	7.133	6.28	10.20	2.75
1.017	1.96	4.083	3.14	7.150	6.28	10.22	2.75
1.033	1.96	4.100	3.14	7.167	6.28	10.23	2.75
1.050	1.96	4.117	3.14	7.183	6.28	10.25	2.75
1.067	1.96	4.133	3.14	7.200	6.28	10.27	1.57
1.083	1.96	4.150	3.14	7.217	6.28	10.28	1.57
1.100	1.96	4.167	3.14	7.233	6.28	10.30	1.57
1.117	1.96	4.183	3.14	7.250	6.28	10.32	1.57
1.133	1.96	4.200	3.14	7.267	4.71	10.33	1.57
1.150	1.96	4.217	3.14	7.283	4.71	10.35	1.57
1.167	1.96	4.233	3.14	7.300	4.71	10.37	1.57
1.183	1.96	4.250	3.14	7.317	4.71	10.38	1.57
1.200	1.96	4.267	4.71	7.333	4.71	10.40	1.57
1.217	1.96	4.283	4.71	7.350	4.71	10.42	1.57
1.233	1.96	4.300	4.71	7.367	4.71	10.43	1.57
1.250	1.96	4.317	4.71	7.383	4.71	10.45	1.57
1.267	1.96	4.333	4.71	7.400	4.71	10.47	1.57
1.283	1.96	4.350	4.71	7.417	4.71	10.48	1.57
1.300	1.96	4.367	4.71	7.433	4.71	10.50	1.57
1.317	1.96	4.383	4.71	7.450	4.71	10.52	1.57
1.333	1.96	4.400	4.71	7.467	4.71	10.53	1.57
1.350	1.96	4.417	4.71	7.483	4.71	10.55	1.57
1.367	1.96	4.433	4.71	7.500	4.71	10.57	1.57
1.383	1.96	4.450	4.71	7.517	4.71	10.58	1.57
1.400	1.96	4.467	4.71	7.533	4.71	10.60	1.57
1.417	1.96	4.483	4.71	7.550	4.71	10.62	1.57
1.433	1.96	4.500	4.71	7.567	4.71	10.63	1.57
1.450	1.96	4.517	4.71	7.583	4.71	10.65	1.57
1.467	1.96	4.533	4.71	7.600	4.71	10.67	1.57
1.483	1.96	4.550	4.71	7.617	4.71	10.68	1.57
1.500	1.96	4.567	4.71	7.633	4.71	10.70	1.57
1.517	1.96	4.583	4.71	7.650	4.71	10.72	1.57
1.533	1.96	4.600	4.71	7.667	4.71	10.73	1.57
1.550	1.96	4.617	4.71	7.683	4.71	10.75	1.57
1.567	1.96	4.633	4.71	7.700	4.71	10.77	1.57
1.583	1.96	4.650	4.71	7.717	4.71	10.78	1.57
1.600	1.96	4.667	4.71	7.733	4.71	10.80	1.57
1.617	1.96	4.683	4.71	7.750	4.71	10.82	1.57
1.633	1.96	4.700	4.71	7.767	4.71	10.83	1.57
1.650	1.96	4.717	4.71	7.783	4.71	10.85	1.57
1.667	1.96	4.733	4.71	7.800	4.71	10.87	1.57
1.683	1.96	4.750	4.71	7.817	4.71	10.88	1.57
1.700	1.96	4.767	6.28	7.833	4.71	10.90	1.57
1.717	1.96	4.783	6.28	7.850	4.71	10.92	1.57
1.733	1.96	4.800	6.28	7.867	4.71	10.93	1.57
1.750	1.96	4.817	6.28	7.883	4.71	10.95	1.57
1.767	1.96	4.833	6.28	7.900	4.71	10.97	1.57
1.783	1.96	4.850	6.28	7.917	4.71	10.98	1.57
1.800	1.96	4.867	6.28	7.933	4.71	11.00	1.57
1.817	1.96	4.883	6.28	7.950	4.71	11.02	1.57
1.833	1.96	4.900	6.28	7.967	4.71	11.03	1.57
1.850	1.96	4.917	6.28	7.983	4.71	11.05	1.57
1.867	1.96	4.933	6.28	8.000	4.71	11.07	1.57
1.883	1.96	4.950	6.28	8.017	4.71	11.08	1.57
1.900	1.96	4.967	6.28	8.033	4.71	11.10	1.57
1.917	1.96	4.983	6.28	8.050	4.71	11.12	1.57
1.933	1.96	5.000	6.28	8.067	4.71	11.13	1.57
1.950	1.96	5.017	6.28	8.083	4.71	11.15	1.57
1.967	1.96	5.033	6.28	8.100	4.71	11.17	1.57
1.983	1.96	5.050	6.28	8.117	4.71	11.18	1.57
2.000	1.96	5.067	6.28	8.133	4.71	11.20	1.57
2.017	1.96	5.083	6.28	8.150	4.71	11.22	1.57
2.033	1.96	5.100	6.28	8.167	4.71	11.23	1.57
2.050	1.96	5.117	6.28	8.183	4.71	11.25	1.57
2.067	1.96	5.133	6.28	8.200	4.71	11.27	1.57
2.083	1.96	5.150	6.28	8.217	4.71	11.28	1.57
2.100	1.96	5.167	6.28	8.233	4.71	11.30	1.57
2.117	1.96	5.183	6.28	8.250	4.70	11.32	1.57
2.133	1.96	5.200	6.28	8.267	2.75	11.33	1.57
2.150	1.96	5.217	6.28	8.283	2.75	11.35	1.57
2.167	1.96	5.233	6.28	8.300	2.75	11.37	1.57
2.183	1.96	5.250	6.28	8.317	2.75	11.38	1.57
2.200	1.96	5.267	9.42	8.333	2.75	11.40	1.57
2.217	1.96	5.283	9.42	8.350	2.75	11.42	1.57
2.233	1.96	5.300	9.42	8.367	2.75	11.43	1.57
2.250	1.96	5.317	9.42	8.383	2.75	11.45	1.57
2.267	2.35	5.333	9.42	8.400	2.75	11.47	1.57
2.283	2.36	5.350	9.42	8.417	2.75	11.48	1.57
2.300	2.36	5.367	9.42	8.433	2.75	11.50	1.57
2.317	2.36	5.383	9.42	8.450	2.75	11.52	1.57
2.333	2.36	5.400	9.42	8.467	2.75	11.53	1.57
2.350	2.36	5.417	9.42	8.483	2.75	11.55	1.57
2.367	2.36	5.433	9.42	8.500	2.75	11.57	1.57
2.383	2.36	5.450	9.42	8.517	2.75	11.58	1.57
2.400	2.36	5.467	9.42	8.533	2.75	11.60	1.57
2.417	2.36	5.483	9.42	8.550	2.75	11.62	1.57
2.433	2.36	5.500	9.42	8.567	2.75	11.63	1.57
2.450	2.36	5.517	9.42	8.583	2.75	11.65	1.57
2.467	2.36	5.533	9.42	8.600	2.75	11.67	1.57
2.483	2.36	5.550	9.42	8.617	2.75	11.68	1.57
2.500	2.36	5.567	9.42	8.633	2.75	11.70	1.57
2.517	2.35	5.583	9.42	8.650	2.75	11.72	1.57
2.533	2.36	5.600	9.42	8.667	2.75	11.73	1.57
2.550	2.36	5.617	9.42	8.683	2.75	11.75	1.57
2.567	2.36	5.633	9.42	8.700	2.75	11.77	1.57
2.583	2.36	5.650	9.42	8.717	2.75	11.78	1.57
2.600	2.36	5.667	9.42	8.733	2.75	11.80	1.57
2.617	2.36	5.683	9.42	8.750	2.75	11.82	1.57
2.633	2.36	5.700	9.42	8.767	2.75	11.83	1.57
2.650	2.36	5.717	9.42	8.783	2.75	11.85	1.57
2.667	2.36	5.733	9.42	8.800	2.75	11.87	1.57
2.683	2.36	5.750	9.45	8.817	2.75	11.88	1.57
2.700	2.36	5.767	37.68	8.833	2.75	11.90	1.57
2.717	2.36	5.783	37.68	8.850	2.75	11.92	1.57
2.733	2.36	5.800	37.68	8.867	2.75	11.93	1.57
2.750	2.36	5.817	37.68	8.883	2.75	11.95	1.57
2.767	2.35	5.833	37.68	8.900	2.75	11.97	1.57
2.783	2.36	5.850	37.68	8.917	2.75	11.98	1.57
2.800	2.36	5.867	37.68	8.933	2.75	12.00	1.57
2.817	2.36	5.883	37.68	8.950	2.75	12.02	1.57
2.833	2.36	5.900	37.68	8.967	2.75	12.03	1.57
2.850	2.36	5.917	37.68	8.983	2.75	12.05	1.57
2.867	2.36	5.933	37.68	9.000	2.75	12.07	1.57
2.883	2.36	5.950	37.68	9.017	2.75	12.08	1.57
2.900	2.36	5.967	37.68	9.033	2.75	12.10	1.57
2.917	2.36	5.983	37.68	9.050	2.75	12.12	1.57
2.933	2.36	6.000	37.77	9.067	2.75	12.13	1.57
2.950	2.36	6.017	103.62	9.083	2.75	12.15	1.57
2.967	2.36	6.033	103.62	9.100	2.75	12.17	1.57
2.983	2.36	6.050	103.62	9.117	2.75	12.18	1.57
3.000	2.36	6.067	103.62	9.133	2.75	12.20	1.57
3.017	2.35	6.083	103.62	9.150	2.75	12.22	1.57
3.033	2.36	6.100	103.62	9.167	2.75	12.23	1.57
3.050	2.36	6.117	103.62	9.183	2.75	12.25	1.57
3.067	2.36	6.133	103.62	9.200	2.75		

Max.Eff.Inten.(mm/hr)=		103.62	47.59	
over (min)		5.00	3.00	
Storage Coeff. (min)=		0.99 (ii)	2.44 (ii)	
Unit Hyd. Tpeak (min)=		5.00	3.00	
Unit Hyd. peak (cms)=		0.48	0.43	
				TOTALS
PEAK FLOW	(cms)=	0.03	0.00	0.033 (iii)
TIME TO PEAK	(hrs)=	6.23	6.25	6.25
RUNOFF VOLUME	(mm)=	76.50	28.79	64.57
TOTAL RAINFALL	(mm)=	78.50	78.50	78.50

```
     RUNOFF COEFFICIENT   =       0.97         0.37          0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------       (cms)     (ha.m.)    |   (cms)     (ha.m.)
                           0.0000     0.0000    |   0.0160     0.0036
                           0.0010     0.0004    |   0.0170     0.0043
                           0.0060     0.0009    |   0.0180     0.0051
                           0.0080     0.0013    |   0.0560     0.0059
                           0.0100     0.0017    |   0.1330     0.0068
                           0.0120     0.0022    |   0.2430     0.0078
                           0.0130     0.0025    |   0.3860     0.0089
                           0.0140     0.0030    |   0.0000     0.0000

                                  AREA     QPEAK     TPEAK       R.V.
                                  (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)      0.133     0.033      6.25       64.57
   OUTFLOW: ID= 1 (  0015)      0.133     0.014      6.32       63.82

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 41.52
                  TIME SHIFT OF PEAK FLOW         (min)=  4.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0029

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):      0.13    0.014     6.32    63.82
     + ID2= 2 (  0205):      0.02    0.002     6.37    33.46
       ================================================
       ID = 3 (  0007):      0.16    0.016     6.33    59.52

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\4b741961-26
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\4b741961-26


DATE: 04-17-2023                          TIME: 01:25:44

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : Q) 25yr 12hr 15min SCS Type I **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\d0168539
| Ptotal= 94.02 mm |    Comments: 25yr 12hr 15min SCS Type II (MTO)
--------------------

                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.25    0.00 |  3.50    3.76 |'  6.75   16.92 | 10.00    3.29
                0.50    2.35 |  3.75    3.76 |'  7.00    7.52 | 10.25    3.29
                0.75    2.35 |  4.00    3.76 |'  7.25    7.52 | 10.50    1.88
                1.00    2.35 |  4.25    3.76 |'  7.50    5.64 | 10.75    1.88
                1.25    2.35 |  4.50    5.64 |'  7.75    5.64 | 11.00    1.88
                1.50    2.35 |  4.75    5.64 |'  8.00    5.64 | 11.25    1.88
                1.75    2.35 |  5.00    7.52 |'  8.25    5.64 | 11.50    1.88
                2.00    2.35 |  5.25    7.52 |'  8.50    3.29 | 11.75    1.88
                2.25    2.35 |  5.50   11.28 |'  8.75    3.29 | 12.00    1.88
                2.50    2.82 |  5.75   11.28 |'  9.00    3.29 | 12.25    1.88
                2.75    2.82 |  6.00   45.13 |'  9.25    3.29 |
                3.00    2.82 |  6.25  124.11 |'  9.50    3.29 |
                3.25    2.82 |  6.50   16.92 |'  9.75    3.29 |

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| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                          ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
                0.017    0.00 | 3.083    2.82 | 6.150  124.11 |  9.22    3.29
                0.033    0.00 | 3.100    2.82 | 6.167  124.11 |  9.23    3.29
                0.050    0.00 | 3.117    2.82 | 6.183  124.11 |  9.25    3.29
                0.067    0.00 | 3.133    2.82 | 6.200  124.11 |  9.27    3.29
                0.083    0.00 | 3.150    2.82 | 6.217  124.11 |  9.28    3.29
                0.100    0.00 | 3.167    2.82 | 6.233  124.11 |  9.30    3.29
                0.117    0.00 | 3.183    2.82 | 6.250  123.94 |  9.32    3.29
                0.133    0.00 | 3.200    2.82 | 6.267   16.92 |  9.33    3.29
                0.150    0.00 | 3.217    2.82 | 6.283   16.92 |  9.35    3.29
                0.167    0.00 | 3.233    2.82 | 6.300   16.92 |  9.37    3.29
                0.183    0.00 | 3.250    2.82 | 6.317   16.92 |  9.38    3.29
                0.200    0.00 | 3.267    3.76 | 6.333   16.92 |  9.40    3.29
                0.217    0.00 | 3.283    3.76 | 6.350   16.92 |  9.42    3.29
                0.233    0.00 | 3.300    3.76 | 6.367   16.92 |  9.43    3.29
                0.250    0.00 | 3.317    3.76 | 6.383   16.92 |  9.45    3.29
                0.267    2.35 | 3.333    3.76 | 6.400   16.92 |  9.47    3.29
                0.283    2.35 | 3.350    3.76 | 6.417   16.92 |  9.48    3.29
                0.300    2.35 | 3.367    3.76 | 6.433   16.92 |  9.50    3.29
                0.317    2.35 | 3.383    3.76 | 6.450   16.92 |  9.52    3.29
                0.333    2.35 | 3.400    3.76 | 6.467   16.92 |  9.53    3.29
                0.350    2.35 | 3.417    3.76 | 6.483   16.92 |  9.55    3.29
                0.367    2.35 | 3.433    3.76 | 6.500   16.92 |  9.57    3.29
                0.383    2.35 | 3.450    3.76 | 6.517   16.92 |  9.58    3.29
                0.400    2.35 | 3.467    3.76 | 6.533   16.92 |  9.60    3.29
                0.417    2.35 | 3.483    3.76 | 6.550   16.92 |  9.62    3.29
                0.433    2.35 | 3.500    3.76 | 6.567   16.92 |  9.63    3.29
                0.450    2.35 | 3.517    3.76 | 6.583   16.92 |  9.65    3.29
                0.467    2.35 | 3.533    3.76 | 6.600   16.92 |  9.67    3.29
                0.483    2.35 | 3.550    3.76 | 6.617   16.92 |  9.68    3.29
                0.500    2.35 | 3.567    3.76 | 6.633   16.92 |  9.70    3.29
                0.517    2.35 | 3.583    3.76 | 6.650   16.92 |  9.72    3.29
                0.533    2.35 | 3.600    3.76 | 6.667   16.92 |  9.73    3.29
                0.550    2.35 | 3.617    3.76 | 6.683   16.92 |  9.75    3.29
                0.567    2.35 | 3.633    3.76 | 6.700   16.92 |  9.77    3.29
                0.583    2.35 | 3.650    3.76 | 6.717   16.92 |  9.78    3.29
                0.600    2.35 | 3.667    3.76 | 6.733   16.92 |  9.80    3.29
                0.617    2.35 | 3.683    3.76 | 6.750   16.90 |  9.82    3.29
                0.633    2.35 | 3.700    3.76 | 6.767    7.52 |  9.83    3.29
                0.650    2.35 | 3.717    3.76 | 6.783    7.52 |  9.85    3.29
                0.667    2.35 | 3.733    3.76 | 6.800    7.52 |  9.87    3.29
                0.683    2.35 | 3.750    3.76 | 6.817    7.52 |  9.88    3.29
                0.700    2.35 | 3.767    3.76 | 6.833    7.52 |  9.90    3.29
                0.717    2.35 | 3.783    3.76 | 6.850    7.52 |  9.92    3.29
                0.733    2.35 | 3.800    3.76 | 6.867    7.52 |  9.93    3.29
                0.750    2.35 | 3.817    3.76 | 6.883    7.52 |  9.95    3.29
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0.767	2.35	3.833	3.76	6.900	7.52	9.97	3.29
0.783	2.35	3.850	3.76	6.917	7.52	9.98	3.29
0.800	2.35	3.867	3.76	6.933	7.52	10.00	3.29
0.817	2.35	3.883	3.76	6.950	7.52	10.02	3.29
0.833	2.35	3.900	3.76	6.967	7.52	10.03	3.29
0.850	2.35	3.917	3.76	6.983	7.52	10.05	3.29
0.867	2.35	3.933	3.76	7.000	7.52	10.07	3.29
0.883	2.35	3.950	3.76	7.017	7.52	10.08	3.29
0.900	2.35	3.967	3.76	7.033	7.52	10.10	3.29
0.917	2.35	3.983	3.76	7.050	7.52	10.12	3.29
0.933	2.35	4.000	3.76	7.067	7.52	10.13	3.29
0.950	2.35	4.017	3.76	7.083	7.52	10.15	3.29
0.967	2.35	4.033	3.76	7.100	7.52	10.17	3.29
0.983	2.35	4.050	3.76	7.117	7.52	10.18	3.29
1.000	2.35	4.067	3.76	7.133	7.52	10.20	3.29
1.017	2.35	4.083	3.76	7.150	7.52	10.22	3.29
1.033	2.35	4.100	3.76	7.167	7.52	10.23	3.29
1.050	2.35	4.117	3.76	7.183	7.52	10.25	3.29
1.067	2.35	4.133	3.76	7.200	7.52	10.27	1.88
1.083	2.35	4.150	3.76	7.217	7.52	10.28	1.88
1.100	2.35	4.167	3.76	7.233	7.52	10.30	1.88
1.117	2.35	4.183	3.76	7.250	7.52	10.32	1.88
1.133	2.35	4.200	3.76	7.267	5.64	10.33	1.88
1.150	2.35	4.217	3.76	7.283	5.64	10.35	1.88
1.167	2.35	4.233	3.76	7.300	5.64	10.37	1.88
1.183	2.35	4.250	3.76	7.317	5.64	10.38	1.88
1.200	2.35	4.267	5.64	7.333	5.64	10.40	1.88
1.217	2.35	4.283	5.64	7.350	5.64	10.42	1.88
1.233	2.35	4.300	5.64	7.367	5.64	10.43	1.88
1.250	2.35	4.317	5.64	7.383	5.64	10.45	1.88
1.267	2.35	4.333	5.64	7.400	5.64	10.47	1.88
1.283	2.35	4.350	5.64	7.417	5.64	10.48	1.88
1.300	2.35	4.367	5.64	7.433	5.64	10.50	1.88
1.317	2.35	4.383	5.64	7.450	5.64	10.52	1.88
1.333	2.35	4.400	5.64	7.467	5.64	10.53	1.88
1.350	2.35	4.417	5.64	7.483	5.64	10.55	1.88
1.367	2.35	4.433	5.64	7.500	5.64	10.57	1.88
1.383	2.35	4.450	5.64	7.517	5.64	10.58	1.88
1.400	2.35	4.467	5.64	7.533	5.64	10.60	1.88
1.417	2.35	4.483	5.64	7.550	5.64	10.62	1.88
1.433	2.35	4.500	5.64	7.567	5.64	10.63	1.88
1.450	2.35	4.517	5.64	7.583	5.64	10.65	1.88
1.467	2.35	4.533	5.64	7.600	5.64	10.67	1.88
1.483	2.35	4.550	5.64	7.617	5.64	10.68	1.88
1.500	2.35	4.567	5.64	7.633	5.64	10.70	1.88
1.517	2.35	4.583	5.64	7.650	5.64	10.72	1.88
1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88
1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88
2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88
2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88
3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 6.450
RUNOFF VOLUME (mm)= 41.202
TOTAL RAINFALL (mm)= 94.019
RUNOFF COEFFICIENT = 0.438

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0201)	Area (ha)= 0.17		
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00	Dir. Conn.(%)= 78.00	
	IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	0.13	0.04	
Dep. Storage (mm)=	2.00	5.00	
Average Slope (%)=	1.00	1.00	
Length (m)=	33.63	20.00	
Mannings n =	0.013	0.190	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.017	0.00	3.083	2.82	6.150	124.11	9.22	3.29
0.033	0.00	3.100	2.82	6.167	124.11	9.23	3.29
0.050	0.00	3.117	2.82	6.183	124.11	9.25	3.29
0.067	0.00	3.133	2.82	6.200	124.11	9.27	3.29
0.083	0.00	3.150	2.82	6.217	124.11	9.28	3.29
0.100	0.00	3.167	2.82	6.233	124.11	9.30	3.29
0.117	0.00	3.183	2.82	6.250	123.94	9.32	3.29
0.133	0.00	3.200	2.82	6.267	16.92	9.33	3.29
0.150	0.00	3.217	2.82	6.283	16.92	9.35	3.29
0.167	0.00	3.233	2.82	6.300	16.92	9.37	3.29
0.183	0.00	3.250	2.82	6.317	16.92	9.38	3.29
0.200	0.00	3.267	3.76	6.333	16.92	9.40	3.29
0.217	0.00	3.283	3.76	6.350	16.92	9.42	3.29
0.233	0.00	3.300	3.76	6.367	16.92	9.43	3.29
0.250	0.00	3.317	3.76	6.383	16.92	9.45	3.29
0.267	2.35	3.333	3.76	6.400	16.92	9.47	3.29
0.283	2.35	3.350	3.76	6.417	16.92	9.48	3.29
0.300	2.35	3.367	3.76	6.433	16.92	9.50	3.29
0.317	2.35	3.383	3.76	6.450	16.92	9.52	3.29
0.333	2.35	3.400	3.76	6.467	16.92	9.53	3.29
0.350	2.35	3.417	3.76	6.483	16.92	9.55	3.29
0.367	2.35	3.433	3.76	6.500	16.92	9.57	3.29
0.383	2.35	3.450	3.76	6.517	16.92	9.58	3.29
0.400	2.35	3.467	3.76	6.533	16.92	9.60	3.29
0.417	2.35	3.483	3.76	6.550	16.92	9.62	3.29
0.433	2.35	3.500	3.76	6.567	16.92	9.63	3.29
0.450	2.35	3.517	3.76	6.583	16.92	9.65	3.29
0.467	2.35	3.533	3.76	6.600	16.92	9.67	3.29
0.483	2.35	3.550	3.76	6.617	16.92	9.68	3.29
0.500	2.35	3.567	3.76	6.633	16.92	9.70	3.29
0.517	2.35	3.583	3.76	6.650	16.92	9.72	3.29
0.533	2.35	3.600	3.76	6.667	16.92	9.73	3.29
0.550	2.35	3.617	3.76	6.683	16.92	9.75	3.29
0.567	2.35	3.633	3.76	6.700	16.92	9.77	3.29
0.583	2.35	3.650	3.76	6.717	16.92	9.78	3.29
0.600	2.35	3.667	3.76	6.733	16.92	9.80	3.29
0.617	2.35	3.683	3.76	6.750	16.90	9.82	3.29
0.633	2.35	3.700	3.76	6.767	7.52	9.83	3.29
0.650	2.35	3.717	3.76	6.783	7.52	9.85	3.29
0.667	2.35	3.733	3.76	6.800	7.52	9.87	3.29
0.683	2.35	3.750	3.76	6.817	7.52	9.88	3.29
0.700	2.35	3.767	3.76	6.833	7.52	9.90	3.29
0.717	2.35	3.783	3.76	6.850	7.52	9.92	3.29
0.733	2.35	3.800	3.76	6.867	7.52	9.93	3.29
0.750	2.35	3.817	3.76	6.883	7.52	9.95	3.29
0.767	2.35	3.833	3.76	6.900	7.52	9.97	3.29
0.783	2.35	3.850	3.76	6.917	7.52	9.98	3.29
0.800	2.35	3.867	3.76	6.933	7.52	10.00	3.29
0.817	2.35	3.883	3.76	6.950	7.52	10.02	3.29
0.833	2.35	3.900	3.76	6.967	7.52	10.03	3.29
0.850	2.35	3.917	3.76	6.983	7.52	10.05	3.29
0.867	2.35	3.933	3.76	7.000	7.52	10.07	3.29
0.883	2.35	3.950	3.76	7.017	7.52	10.08	3.29
0.900	2.35	3.967	3.76	7.033	7.52	10.10	3.29
0.917	2.35	3.983	3.76	7.050	7.52	10.12	3.29
0.933	2.35	4.000	3.76	7.067	7.52	10.13	3.29
0.950	2.35	4.017	3.76	7.083	7.52	10.15	3.29
0.967	2.35	4.033	3.76	7.100	7.52	10.17	3.29
0.983	2.35	4.050	3.76	7.117	7.52	10.18	3.29
1.000	2.35	4.067	3.76	7.133	7.52	10.20	3.29
1.017	2.35	4.083	3.76	7.150	7.52	10.22	3.29
1.033	2.35	4.100	3.76	7.167	7.52	10.23	3.29
1.050	2.35	4.117	3.76	7.183	7.52	10.25	3.29
1.067	2.35	4.133	3.76	7.200	7.52	10.27	1.88
1.083	2.35	4.150	3.76	7.217	7.52	10.28	1.88
1.100	2.35	4.167	3.76	7.233	7.52	10.30	1.88
1.117	2.35	4.183	3.76	7.250	7.52	10.32	1.88
1.133	2.35	4.200	3.76	7.267	5.64	10.33	1.88
1.150	2.35	4.217	3.76	7.283	5.64	10.35	1.88
1.167	2.35	4.233	3.76	7.300	5.64	10.37	1.88
1.183	2.35	4.250	3.76	7.317	5.64	10.38	1.88
1.200	2.35	4.267	5.64	7.333	5.64	10.40	1.88
1.217	2.35	4.283	5.64	7.350	5.64	10.42	1.88
1.233	2.35	4.300	5.64	7.367	5.64	10.43	1.88
1.250	2.35	4.317	5.64	7.383	5.64	10.45	1.88
1.267	2.35	4.333	5.64	7.400	5.64	10.47	1.88
1.283	2.35	4.350	5.64	7.417	5.64	10.48	1.88
1.300	2.35	4.367	5.64	7.433	5.64	10.50	1.88
1.317	2.35	4.383	5.64	7.450	5.64	10.52	1.88
1.333	2.35	4.400	5.64	7.467	5.64	10.53	1.88
1.350	2.35	4.417	5.64	7.483	5.64	10.55	1.88
1.367	2.35	4.433	5.64	7.500	5.64	10.57	1.88
1.383	2.35	4.450	5.64	7.517	5.64	10.58	1.88
1.400	2.35	4.467	5.64	7.533	5.64	10.60	1.88
1.417	2.35	4.483	5.64	7.550	5.64	10.62	1.88
1.433	2.35	4.500	5.64	7.567	5.64	10.63	1.88
1.450	2.35	4.517	5.64	7.583	5.64	10.65	1.88
1.467	2.35	4.533	5.64	7.600	5.64	10.67	1.88
1.483	2.35	4.550	5.64	7.617	5.64	10.68	1.88
1.500	2.35	4.567	5.64	7.633	5.64	10.70	1.88
1.517	2.35	4.583	5.64	7.650	5.64	10.72	1.88
1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88
1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88
2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88

2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88
3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Max.Eff.Inten.(mm/hr)=		124.11	64.20	
over (min)		5.00	4.00	
Storage Coeff. (min)=		1.22 (ii)	3.91 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.45	0.29	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.01	0.052 (iii)
TIME TO PEAK	(hrs)=	6.23	6.25	6.25
RUNOFF VOLUME	(mm)=	92.02	39.01	80.35
TOTAL RAINFALL	(mm)=	94.02	94.02	94.02
RUNOFF COEFFICIENT	=	0.98	0.41	0.85

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.82	6.150	124.11	9.22	3.29
0.033	0.00	3.100	2.82	6.167	124.11	9.23	3.29
0.050	0.00	3.117	2.82	6.183	124.11	9.25	3.29
0.067	0.00	3.133	2.82	6.200	124.11	9.27	3.29
0.083	0.00	3.150	2.82	6.217	124.11	9.28	3.29
0.100	0.00	3.167	2.82	6.233	124.11	9.30	3.29
0.117	0.00	3.183	2.82	6.250	123.94	9.32	3.29
0.133	0.00	3.200	2.82	6.267	16.92	9.33	3.29
0.150	0.00	3.217	2.82	6.283	16.92	9.35	3.29
0.167	0.00	3.233	2.82	6.300	16.92	9.37	3.29
0.183	0.00	3.250	2.82	6.317	16.92	9.38	3.29
0.200	0.00	3.267	3.76	6.333	16.92	9.40	3.29
0.217	0.00	3.283	3.76	6.350	16.92	9.42	3.29
0.233	0.00	3.300	3.76	6.367	16.92	9.43	3.29
0.250	0.00	3.317	3.76	6.383	16.92	9.45	3.29
0.267	2.35	3.333	3.76	6.400	16.92	9.47	3.29
0.283	2.35	3.350	3.76	6.417	16.92	9.48	3.29
0.300	2.35	3.367	3.76	6.433	16.92	9.50	3.29
0.317	2.35	3.383	3.76	6.450	16.92	9.52	3.29
0.333	2.35	3.400	3.76	6.467	16.92	9.53	3.29
0.350	2.35	3.417	3.76	6.483	16.92	9.55	3.29
0.367	2.35	3.433	3.76	6.500	16.92	9.57	3.29
0.383	2.35	3.450	3.76	6.517	16.92	9.58	3.29
0.400	2.35	3.467	3.76	6.533	16.92	9.60	3.29
0.417	2.35	3.483	3.76	6.550	16.92	9.62	3.29
0.433	2.35	3.500	3.76	6.567	16.92	9.63	3.29
0.450	2.35	3.517	3.76	6.583	16.92	9.65	3.29
0.467	2.35	3.533	3.76	6.600	16.92	9.67	3.29
0.483	2.35	3.550	3.76	6.617	16.92	9.68	3.29
0.500	2.35	3.567	3.76	6.633	16.92	9.70	3.29
0.517	2.35	3.583	3.76	6.650	16.92	9.72	3.29
0.533	2.35	3.600	3.76	6.667	16.92	9.73	3.29
0.550	2.35	3.617	3.76	6.683	16.92	9.75	3.29
0.567	2.35	3.633	3.76	6.700	16.92	9.77	3.29
0.583	2.35	3.650	3.76	6.717	16.92	9.78	3.29
0.600	2.35	3.667	3.76	6.733	16.92	9.80	3.29
0.617	2.35	3.683	3.76	6.750	16.90	9.82	3.29
0.633	2.35	3.700	3.76	6.767	7.52	9.83	3.29
0.650	2.35	3.717	3.76	6.783	7.52	9.85	3.29
0.667	2.35	3.733	3.76	6.800	7.52	9.87	3.29
0.683	2.35	3.750	3.76	6.817	7.52	9.88	3.29
0.700	2.35	3.767	3.76	6.833	7.52	9.90	3.29
0.717	2.35	3.783	3.76	6.850	7.52	9.92	3.29
0.733	2.35	3.800	3.76	6.867	7.52	9.93	3.29
0.750	2.35	3.817	3.76	6.883	7.52	9.95	3.29
0.767	2.35	3.833	3.76	6.900	7.52	9.97	3.29
0.783	2.35	3.850	3.76	6.917	7.52	9.98	3.29
0.800	2.35	3.867	3.76	6.933	7.52	10.00	3.29
0.817	2.35	3.883	3.76	6.950	7.52	10.02	3.29
0.833	2.35	3.900	3.76	6.967	7.52	10.03	3.29
0.850	2.35	3.917	3.76	6.983	7.52	10.05	3.29
0.867	2.35	3.933	3.76	7.000	7.52	10.07	3.29
0.883	2.35	3.950	3.76	7.017	7.52	10.08	3.29
0.900	2.35	3.967	3.76	7.033	7.52	10.10	3.29
0.917	2.35	3.983	3.76	7.050	7.52	10.12	3.29
0.933	2.35	4.000	3.76	7.067	7.52	10.13	3.29
0.950	2.35	4.017	3.76	7.083	7.52	10.15	3.29
0.967	2.35	4.033	3.76	7.100	7.52	10.17	3.29
0.983	2.35	4.050	3.76	7.117	7.52	10.18	3.29
1.000	2.35	4.067	3.76	7.133	7.52	10.20	3.29
1.017	2.35	4.083	3.76	7.150	7.52	10.22	3.29
1.033	2.35	4.100	3.76	7.167	7.52	10.23	3.29
1.050	2.35	4.117	3.76	7.183	7.52	10.25	3.29
1.067	2.35	4.133	3.76	7.200	7.52	10.27	1.88
1.083	2.35	4.150	3.76	7.217	7.52	10.28	1.88
1.100	2.35	4.167	3.76	7.233	7.52	10.30	1.88
1.117	2.35	4.183	3.76	7.250	7.52	10.32	1.88
1.133	2.35	4.200	3.76	7.267	5.64	10.33	1.88
1.150	2.35	4.217	3.76	7.283	5.64	10.35	1.88
1.167	2.35	4.233	3.76	7.300	5.64	10.37	1.88
1.183	2.35	4.250	3.76	7.317	5.64	10.38	1.88
1.200	2.35	4.267	5.64	7.333	5.64	10.40	1.88
1.217	2.35	4.283	5.64	7.350	5.64	10.42	1.88
1.233	2.35	4.300	5.64	7.367	5.64	10.43	1.88
1.250	2.35	4.317	5.64	7.383	5.64	10.45	1.88
1.267	2.35	4.333	5.64	7.400	5.64	10.47	1.88
1.283	2.35	4.350	5.64	7.417	5.64	10.48	1.88
1.300	2.35	4.367	5.64	7.433	5.64	10.50	1.88
1.317	2.35	4.383	5.64	7.450	5.64	10.52	1.88
1.333	2.35	4.400	5.64	7.467	5.64	10.53	1.88
1.350	2.35	4.417	5.64	7.483	5.64	10.55	1.88
1.367	2.35	4.433	5.64	7.500	5.64	10.57	1.88
1.383	2.35	4.450	5.64	7.517	5.64	10.58	1.88
1.400	2.35	4.467	5.64	7.533	5.64	10.60	1.88
1.417	2.35	4.483	5.64	7.550	5.64	10.62	1.88
1.433	2.35	4.500	5.64	7.567	5.64	10.63	1.88
1.450	2.35	4.517	5.64	7.583	5.64	10.65	1.88
1.467	2.35	4.533	5.64	7.600	5.64	10.67	1.88
1.483	2.35	4.550	5.64	7.617	5.64	10.68	1.88
1.500	2.35	4.567	5.64	7.633	5.64	10.70	1.88
1.517	2.35	4.583	5.64	7.650	5.64	10.72	1.88
1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88

1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88
2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88
2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88
3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Max.Eff.Inten.(mm/hr)=		124.11	64.20	
over (min)		5.00	4.00	
Storage Coeff. (min)=		0.86 (ii)	3.34 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.49	0.32	
				TOTALS
PEAK FLOW	(cms)=	0.03	0.00	0.033 (iii)
TIME TO PEAK	(hrs)=	6.23	6.25	6.25
RUNOFF VOLUME	(mm)=	92.02	39.01	81.94
TOTAL RAINFALL	(mm)=	94.02	94.02	94.02
RUNOFF COEFFICIENT	=	0.98	0.41	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.052	6.25	80.35
+ ID2= 2 (0202):		0.11	0.033	6.25	81.94
ID = 3 (0010):		0.27	0.085	6.25	80.96

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.085	6.25	80.96
OUTFLOW: ID= 1 (0012)	0.275	0.021	6.35	80.13

PEAK FLOW REDUCTION [Qout/Qin](%)= 24.38
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0093

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.021	6.35	80.13
+ ID2= 2 (0204):		0.06	0.006	6.45	41.20
ID = 3 (0014):		0.34	0.026	6.43	72.87

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB					
NASHYD (0205)	Area	(ha)=	0.02	Curve Number	(CN)= 74.0
ID= 1 DT= 1.0 min	Ia	(mm)=	4.56	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=		0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.82	6.150	124.11	9.22	3.29
0.033	0.00	3.100	2.82	6.167	124.11	9.23	3.29
0.050	0.00	3.117	2.82	6.183	124.11	9.25	3.29
0.067	0.00	3.133	2.82	6.200	124.11	9.27	3.29
0.083	0.00	3.150	2.82	6.217	124.11	9.28	3.29
0.100	0.00	3.167	2.82	6.233	124.11	9.30	3.29
0.117	0.00	3.183	2.82	6.250	123.94	9.32	3.29
0.133	0.00	3.200	2.82	6.267	16.92	9.33	3.29
0.150	0.00	3.217	2.82	6.283	16.92	9.35	3.29
0.167	0.00	3.233	2.82	6.300	16.92	9.37	3.29
0.183	0.00	3.250	2.82	6.317	16.92	9.38	3.29
0.200	0.00	3.267	3.76	6.333	16.92	9.40	3.29
0.217	0.00	3.283	3.76	6.350	16.92	9.42	3.29
0.233	0.00	3.300	3.76	6.367	16.92	9.43	3.29

0.250	0.00	3.317	3.76	6.383	16.92	9.45	3.29
0.267	2.35	3.333	3.76	6.400	16.92	9.47	3.29
0.283	2.35	3.350	3.76	6.417	16.92	9.48	3.29
0.300	2.35	3.367	3.76	6.433	16.92	9.50	3.29
0.317	2.35	3.383	3.76	6.450	16.92	9.52	3.29
0.333	2.35	3.400	3.76	6.467	16.92	9.53	3.29
0.350	2.35	3.417	3.76	6.483	16.92	9.55	3.29
0.367	2.35	3.433	3.76	6.500	16.92	9.57	3.29
0.383	2.35	3.450	3.76	6.517	16.92	9.58	3.29
0.400	2.35	3.467	3.76	6.533	16.92	9.60	3.29
0.417	2.35	3.483	3.76	6.550	16.92	9.62	3.29
0.433	2.35	3.500	3.76	6.567	16.92	9.63	3.29
0.450	2.35	3.517	3.76	6.583	16.92	9.65	3.29
0.467	2.35	3.533	3.76	6.600	16.92	9.67	3.29
0.483	2.35	3.550	3.76	6.617	16.92	9.68	3.29
0.500	2.35	3.567	3.76	6.633	16.92	9.70	3.29
0.517	2.35	3.583	3.76	6.650	16.92	9.72	3.29
0.533	2.35	3.600	3.76	6.667	16.92	9.73	3.29
0.550	2.35	3.617	3.76	6.683	16.92	9.75	3.29
0.567	2.35	3.633	3.76	6.700	16.92	9.77	3.29
0.583	2.35	3.650	3.76	6.717	16.92	9.78	3.29
0.600	2.35	3.667	3.76	6.733	16.92	9.80	3.29
0.617	2.35	3.683	3.76	6.750	16.90	9.82	3.29
0.633	2.35	3.700	3.76	6.767	7.52	9.83	3.29
0.650	2.35	3.717	3.76	6.783	7.52	9.85	3.29
0.667	2.35	3.733	3.76	6.800	7.52	9.87	3.29
0.683	2.35	3.750	3.76	6.817	7.52	9.88	3.29
0.700	2.35	3.767	3.76	6.833	7.52	9.90	3.29
0.717	2.35	3.783	3.76	6.850	7.52	9.92	3.29
0.733	2.35	3.800	3.76	6.867	7.52	9.93	3.29
0.750	2.35	3.817	3.76	6.883	7.52	9.95	3.29
0.767	2.35	3.833	3.76	6.900	7.52	9.97	3.29
0.783	2.35	3.850	3.76	6.917	7.52	9.98	3.29
0.800	2.35	3.867	3.76	6.933	7.52	10.00	3.29
0.817	2.35	3.883	3.76	6.950	7.52	10.02	3.29
0.833	2.35	3.900	3.76	6.967	7.52	10.03	3.29
0.850	2.35	3.917	3.76	6.983	7.52	10.05	3.29
0.867	2.35	3.933	3.76	7.000	7.52	10.07	3.29
0.883	2.35	3.950	3.76	7.017	7.52	10.08	3.29
0.900	2.35	3.967	3.76	7.033	7.52	10.10	3.29
0.917	2.35	3.983	3.76	7.050	7.52	10.12	3.29
0.933	2.35	4.000	3.76	7.067	7.52	10.13	3.29
0.950	2.35	4.017	3.76	7.083	7.52	10.15	3.29
0.967	2.35	4.033	3.76	7.100	7.52	10.17	3.29
0.983	2.35	4.050	3.76	7.117	7.52	10.18	3.29
1.000	2.35	4.067	3.76	7.133	7.52	10.20	3.29
1.017	2.35	4.083	3.76	7.150	7.52	10.22	3.29
1.033	2.35	4.100	3.76	7.167	7.52	10.23	3.29
1.050	2.35	4.117	3.76	7.183	7.52	10.25	3.29
1.067	2.35	4.133	3.76	7.200	7.52	10.27	1.88
1.083	2.35	4.150	3.76	7.217	7.52	10.28	1.88
1.100	2.35	4.167	3.76	7.233	7.52	10.30	1.88
1.117	2.35	4.183	3.76	7.250	7.52	10.32	1.88
1.133	2.35	4.200	3.76	7.267	5.64	10.33	1.88
1.150	2.35	4.217	3.76	7.283	5.64	10.35	1.88
1.167	2.35	4.233	3.76	7.300	5.64	10.37	1.88
1.183	2.35	4.250	3.76	7.317	5.64	10.38	1.88
1.200	2.35	4.267	5.64	7.333	5.64	10.40	1.88
1.217	2.35	4.283	5.64	7.350	5.64	10.42	1.88
1.233	2.35	4.300	5.64	7.367	5.64	10.43	1.88
1.250	2.35	4.317	5.64	7.383	5.64	10.45	1.88
1.267	2.35	4.333	5.64	7.400	5.64	10.47	1.88
1.283	2.35	4.350	5.64	7.417	5.64	10.48	1.88
1.300	2.35	4.367	5.64	7.433	5.64	10.50	1.88
1.317	2.35	4.383	5.64	7.450	5.64	10.52	1.88
1.333	2.35	4.400	5.64	7.467	5.64	10.53	1.88
1.350	2.35	4.417	5.64	7.483	5.64	10.55	1.88
1.367	2.35	4.433	5.64	7.500	5.64	10.57	1.88
1.383	2.35	4.450	5.64	7.517	5.64	10.58	1.88
1.400	2.35	4.467	5.64	7.533	5.64	10.60	1.88
1.417	2.35	4.483	5.64	7.550	5.64	10.62	1.88
1.433	2.35	4.500	5.64	7.567	5.64	10.63	1.88
1.450	2.35	4.517	5.64	7.583	5.64	10.65	1.88
1.467	2.35	4.533	5.64	7.600	5.64	10.67	1.88
1.483	2.35	4.550	5.64	7.617	5.64	10.68	1.88
1.500	2.35	4.567	5.64	7.633	5.64	10.70	1.88
1.517	2.35	4.583	5.64	7.650	5.64	10.72	1.88
1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88
1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88
2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88
2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88

3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 6.367
RUNOFF VOLUME (mm)= 44.743
TOTAL RAINFALL (mm)= 94.019
RUNOFF COEFFICIENT = 0.476

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	2.82	6.150	124.11	9.22	3.29
0.033	0.00	3.100	2.82	6.167	124.11	9.23	3.29
0.050	0.00	3.117	2.82	6.183	124.11	9.25	3.29
0.067	0.00	3.133	2.82	6.200	124.11	9.27	3.29
0.083	0.00	3.150	2.82	6.217	124.11	9.28	3.29
0.100	0.00	3.167	2.82	6.233	124.11	9.30	3.29
0.117	0.00	3.183	2.82	6.250	123.94	9.32	3.29
0.133	0.00	3.200	2.82	6.267	16.92	9.33	3.29
0.150	0.00	3.217	2.82	6.283	16.92	9.35	3.29
0.167	0.00	3.233	2.82	6.300	16.92	9.37	3.29
0.183	0.00	3.250	2.82	6.317	16.92	9.38	3.29
0.200	0.00	3.267	3.76	6.333	16.92	9.40	3.29
0.217	0.00	3.283	3.76	6.350	16.92	9.42	3.29
0.233	0.00	3.300	3.76	6.367	16.92	9.43	3.29
0.250	0.00	3.317	3.76	6.383	16.92	9.45	3.29
0.267	2.35	3.333	3.76	6.400	16.92	9.47	3.29
0.283	2.35	3.350	3.76	6.417	16.92	9.48	3.29
0.300	2.35	3.367	3.76	6.433	16.92	9.50	3.29
0.317	2.35	3.383	3.76	6.450	16.92	9.52	3.29
0.333	2.35	3.400	3.76	6.467	16.92	9.53	3.29
0.350	2.35	3.417	3.76	6.483	16.92	9.55	3.29
0.367	2.35	3.433	3.76	6.500	16.92	9.57	3.29
0.383	2.35	3.450	3.76	6.517	16.92	9.58	3.29
0.400	2.35	3.467	3.76	6.533	16.92	9.60	3.29
0.417	2.35	3.483	3.76	6.550	16.92	9.62	3.29
0.433	2.35	3.500	3.76	6.567	16.92	9.63	3.29
0.450	2.35	3.517	3.76	6.583	16.92	9.65	3.29
0.467	2.35	3.533	3.76	6.600	16.92	9.67	3.29
0.483	2.35	3.550	3.76	6.617	16.92	9.68	3.29
0.500	2.35	3.567	3.76	6.633	16.92	9.70	3.29
0.517	2.35	3.583	3.76	6.650	16.92	9.72	3.29
0.533	2.35	3.600	3.76	6.667	16.92	9.73	3.29
0.550	2.35	3.617	3.76	6.683	16.92	9.75	3.29
0.567	2.35	3.633	3.76	6.700	16.92	9.77	3.29
0.583	2.35	3.650	3.76	6.717	16.92	9.78	3.29
0.600	2.35	3.667	3.76	6.733	16.92	9.80	3.29
0.617	2.35	3.683	3.76	6.750	16.90	9.82	3.29
0.633	2.35	3.700	3.76	6.767	7.52	9.83	3.29
0.650	2.35	3.717	3.76	6.783	7.52	9.85	3.29
0.667	2.35	3.733	3.76	6.800	7.52	9.87	3.29
0.683	2.35	3.750	3.76	6.817	7.52	9.88	3.29
0.700	2.35	3.767	3.76	6.833	7.52	9.90	3.29
0.717	2.35	3.783	3.76	6.850	7.52	9.92	3.29
0.733	2.35	3.800	3.76	6.867	7.52	9.93	3.29
0.750	2.35	3.817	3.76	6.883	7.52	9.95	3.29
0.767	2.35	3.833	3.76	6.900	7.52	9.97	3.29
0.783	2.35	3.850	3.76	6.917	7.52	9.98	3.29
0.800	2.35	3.867	3.76	6.933	7.52	10.00	3.29
0.817	2.35	3.883	3.76	6.950	7.52	10.02	3.29
0.833	2.35	3.900	3.76	6.967	7.52	10.03	3.29
0.850	2.35	3.917	3.76	6.983	7.52	10.05	3.29
0.867	2.35	3.933	3.76	7.000	7.52	10.07	3.29
0.883	2.35	3.950	3.76	7.017	7.52	10.08	3.29
0.900	2.35	3.967	3.76	7.033	7.52	10.10	3.29
0.917	2.35	3.983	3.76	7.050	7.52	10.12	3.29
0.933	2.35	4.000	3.76	7.067	7.52	10.13	3.29
0.950	2.35	4.017	3.76	7.083	7.52	10.15	3.29
0.967	2.35	4.033	3.76	7.100	7.52	10.17	3.29
0.983	2.35	4.050	3.76	7.117	7.52	10.18	3.29
1.000	2.35	4.067	3.76	7.133	7.52	10.20	3.29
1.017	2.35	4.083	3.76	7.150	7.52	10.22	3.29
1.033	2.35	4.100	3.76	7.167	7.52	10.23	3.29
1.050	2.35	4.117	3.76	7.183	7.52	10.25	3.29
1.067	2.35	4.133	3.76	7.200	7.52	10.27	1.88
1.083	2.35	4.150	3.76	7.217	7.52	10.28	1.88
1.100	2.35	4.167	3.76	7.233	7.52	10.30	1.88
1.117	2.35	4.183	3.76	7.250	7.52	10.32	1.88
1.133	2.35	4.200	3.76	7.267	5.64	10.33	1.88
1.150	2.35	4.217	3.76	7.283	5.64	10.35	1.88
1.167	2.35	4.233	3.76	7.300	5.64	10.37	1.88
1.183	2.35	4.250	3.76	7.317	5.64	10.38	1.88
1.200	2.35	4.267	5.64	7.333	5.64	10.40	1.88
1.217	2.35	4.283	5.64	7.350	5.64	10.42	1.88
1.233	2.35	4.300	5.64	7.367	5.64	10.43	1.88
1.250	2.35	4.317	5.64	7.383	5.64	10.45	1.88
1.267	2.35	4.333	5.64	7.400	5.64	10.47	1.88
1.283	2.35	4.350	5.64	7.417	5.64	10.48	1.88
1.300	2.35	4.367	5.64	7.433	5.64	10.50	1.88
1.317	2.35	4.383	5.64	7.450	5.64	10.52	1.88
1.333	2.35	4.400	5.64	7.467	5.64	10.53	1.88
1.350	2.35	4.417	5.64	7.483	5.64	10.55	1.88
1.367	2.35	4.433	5.64	7.500	5.64	10.57	1.88
1.383	2.35	4.450	5.64	7.517	5.64	10.58	1.88
1.400	2.35	4.467	5.64	7.533	5.64	10.60	1.88
1.417	2.35	4.483	5.64	7.550	5.64	10.62	1.88
1.433	2.35	4.500	5.64	7.567	5.64	10.63	1.88
1.450	2.35	4.517	5.64	7.583	5.64	10.65	1.88
1.467	2.35	4.533	5.64	7.600	5.64	10.67	1.88
1.483	2.35	4.550	5.64	7.617	5.64	10.68	1.88
1.500	2.35	4.567	5.64	7.633	5.64	10.70	1.88
1.517	2.35	4.583	5.64	7.650	5.64	10.72	1.88
1.533	2.35	4.600	5.64	7.667	5.64	10.73	1.88
1.550	2.35	4.617	5.64	7.683	5.64	10.75	1.88
1.567	2.35	4.633	5.64	7.700	5.64	10.77	1.88
1.583	2.35	4.650	5.64	7.717	5.64	10.78	1.88
1.600	2.35	4.667	5.64	7.733	5.64	10.80	1.88
1.617	2.35	4.683	5.64	7.750	5.64	10.82	1.88
1.633	2.35	4.700	5.64	7.767	5.64	10.83	1.88
1.650	2.35	4.717	5.64	7.783	5.64	10.85	1.88
1.667	2.35	4.733	5.64	7.800	5.64	10.87	1.88
1.683	2.35	4.750	5.64	7.817	5.64	10.88	1.88
1.700	2.35	4.767	7.52	7.833	5.64	10.90	1.88
1.717	2.35	4.783	7.52	7.850	5.64	10.92	1.88
1.733	2.35	4.800	7.52	7.867	5.64	10.93	1.88
1.750	2.35	4.817	7.52	7.883	5.64	10.95	1.88
1.767	2.35	4.833	7.52	7.900	5.64	10.97	1.88
1.783	2.35	4.850	7.52	7.917	5.64	10.98	1.88
1.800	2.35	4.867	7.52	7.933	5.64	11.00	1.88
1.817	2.35	4.883	7.52	7.950	5.64	11.02	1.88
1.833	2.35	4.900	7.52	7.967	5.64	11.03	1.88
1.850	2.35	4.917	7.52	7.983	5.64	11.05	1.88
1.867	2.35	4.933	7.52	8.000	5.64	11.07	1.88
1.883	2.35	4.950	7.52	8.017	5.64	11.08	1.88
1.900	2.35	4.967	7.52	8.033	5.64	11.10	1.88
1.917	2.35	4.983	7.52	8.050	5.64	11.12	1.88
1.933	2.35	5.000	7.52	8.067	5.64	11.13	1.88
1.950	2.35	5.017	7.52	8.083	5.64	11.15	1.88
1.967	2.35	5.033	7.52	8.100	5.64	11.17	1.88
1.983	2.35	5.050	7.52	8.117	5.64	11.18	1.88
2.000	2.35	5.067	7.52	8.133	5.64	11.20	1.88
2.017	2.35	5.083	7.52	8.150	5.64	11.22	1.88
2.033	2.35	5.100	7.52	8.167	5.64	11.23	1.88
2.050	2.35	5.117	7.52	8.183	5.64	11.25	1.88
2.067	2.35	5.133	7.52	8.200	5.64	11.27	1.88
2.083	2.35	5.150	7.52	8.217	5.64	11.28	1.88
2.100	2.35	5.167	7.52	8.233	5.64	11.30	1.88
2.117	2.35	5.183	7.52	8.250	5.63	11.32	1.88
2.133	2.35	5.200	7.52	8.267	3.29	11.33	1.88
2.150	2.35	5.217	7.52	8.283	3.29	11.35	1.88
2.167	2.35	5.233	7.52	8.300	3.29	11.37	1.88
2.183	2.35	5.250	7.52	8.317	3.29	11.38	1.88
2.200	2.35	5.267	11.28	8.333	3.29	11.40	1.88
2.217	2.35	5.283	11.28	8.350	3.29	11.42	1.88
2.233	2.35	5.300	11.28	8.367	3.29	11.43	1.88
2.250	2.35	5.317	11.28	8.383	3.29	11.45	1.88
2.267	2.82	5.333	11.28	8.400	3.29	11.47	1.88

2.283	2.82	5.350	11.28	8.417	3.29	11.48	1.88
2.300	2.82	5.367	11.28	8.433	3.29	11.50	1.88
2.317	2.82	5.383	11.28	8.450	3.29	11.52	1.88
2.333	2.82	5.400	11.28	8.467	3.29	11.53	1.88
2.350	2.82	5.417	11.28	8.483	3.29	11.55	1.88
2.367	2.82	5.433	11.28	8.500	3.29	11.57	1.88
2.383	2.82	5.450	11.28	8.517	3.29	11.58	1.88
2.400	2.82	5.467	11.28	8.533	3.29	11.60	1.88
2.417	2.82	5.483	11.28	8.550	3.29	11.62	1.88
2.433	2.82	5.500	11.28	8.567	3.29	11.63	1.88
2.450	2.82	5.517	11.28	8.583	3.29	11.65	1.88
2.467	2.82	5.533	11.28	8.600	3.29	11.67	1.88
2.483	2.82	5.550	11.28	8.617	3.29	11.68	1.88
2.500	2.82	5.567	11.28	8.633	3.29	11.70	1.88
2.517	2.82	5.583	11.28	8.650	3.29	11.72	1.88
2.533	2.82	5.600	11.28	8.667	3.29	11.73	1.88
2.550	2.82	5.617	11.28	8.683	3.29	11.75	1.88
2.567	2.82	5.633	11.28	8.700	3.29	11.77	1.88
2.583	2.82	5.650	11.28	8.717	3.29	11.78	1.88
2.600	2.82	5.667	11.28	8.733	3.29	11.80	1.88
2.617	2.82	5.683	11.28	8.750	3.29	11.82	1.88
2.633	2.82	5.700	11.28	8.767	3.29	11.83	1.88
2.650	2.82	5.717	11.28	8.783	3.29	11.85	1.88
2.667	2.82	5.733	11.28	8.800	3.29	11.87	1.88
2.683	2.82	5.750	11.32	8.817	3.29	11.88	1.88
2.700	2.82	5.767	45.13	8.833	3.29	11.90	1.88
2.717	2.82	5.783	45.13	8.850	3.29	11.92	1.88
2.733	2.82	5.800	45.13	8.867	3.29	11.93	1.88
2.750	2.82	5.817	45.13	8.883	3.29	11.95	1.88
2.767	2.82	5.833	45.13	8.900	3.29	11.97	1.88
2.783	2.82	5.850	45.13	8.917	3.29	11.98	1.88
2.800	2.82	5.867	45.13	8.933	3.29	12.00	1.88
2.817	2.82	5.883	45.13	8.950	3.29	12.02	1.88
2.833	2.82	5.900	45.13	8.967	3.29	12.03	1.88
2.850	2.82	5.917	45.13	8.983	3.29	12.05	1.88
2.867	2.82	5.933	45.13	9.000	3.29	12.07	1.88
2.883	2.82	5.950	45.13	9.017	3.29	12.08	1.88
2.900	2.82	5.967	45.13	9.033	3.29	12.10	1.88
2.917	2.82	5.983	45.13	9.050	3.29	12.12	1.88
2.933	2.82	6.000	45.24	9.067	3.29	12.13	1.88
2.950	2.82	6.017	124.11	9.083	3.29	12.15	1.88
2.967	2.82	6.033	124.11	9.100	3.29	12.17	1.88
2.983	2.82	6.050	124.11	9.117	3.29	12.18	1.88
3.000	2.82	6.067	124.11	9.133	3.29	12.20	1.88
3.017	2.82	6.083	124.11	9.150	3.29	12.22	1.88
3.033	2.82	6.100	124.11	9.167	3.29	12.23	1.88
3.050	2.82	6.117	124.11	9.183	3.29	12.25	1.88
3.067	2.82	6.133	124.11	9.200	3.29		

Max.Eff.Inten.(mm/hr)=	124.11	64.20	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.92 (ii)	2.27 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.48	0.45	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.041 (iii)
TIME TO PEAK (hrs)=	6.23	6.25	6.25
RUNOFF VOLUME (mm)=	92.02	39.01	78.76
TOTAL RAINFALL (mm)=	94.02	94.02	94.02
RUNOFF COEFFICIENT =	0.98	0.41	0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) IN= 2---> OUT= 1 DT= 1.0 min	OVERFLOW IS OFF			
	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0160	0.0036
	0.0010	0.0004	0.0170	0.0043
	0.0060	0.0009	0.0180	0.0051
	0.0080	0.0013	0.0560	0.0059
	0.0100	0.0017	0.1330	0.0068
	0.0120	0.0022	0.2430	0.0078
	0.0130	0.0025	0.3860	0.0089
	0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.041	6.25	78.76
OUTFLOW: ID= 1 (0015)	0.133	0.016	6.32	78.01

PEAK FLOW REDUCTION [Qout/Qin](%)= 39.43
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0036

ADD HYD (0007) 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.016	6.32	78.01
+ ID2= 2 (0205):	0.02	0.003	6.37	44.74
ID = 3 (0007):	0.16	0.019	6.33	73.30

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\55af8303-e4
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\55af8303-e4

DATE: 04-17-2023 TIME: 01:25:44

USER:

COMMENTS: _____

** SIMULATION : R) 50yr 12hr 15min SCS Type I **

READ STORM Ptotal=105.51 mm	Filename: C:\Users\cgagnon\AppD ata\Local\Temp\ 5c5ec430-821e-4636-8c82-03edb318c07e\97f41826 Comments: 50yr 12hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	3.50	4.22	6.75	18.99	10.00	3.69
0.50	2.64	3.75	4.22	7.00	8.44	10.25	3.69
0.75	2.64	4.00	4.22	7.25	8.44	10.50	2.11
1.00	2.64	4.25	4.22	7.50	6.33	10.75	2.11
1.25	2.64	4.50	6.33	7.75	6.33	11.00	2.11
1.50	2.64	4.75	6.33	8.00	6.33	11.25	2.11
1.75	2.64	5.00	8.44	8.25	6.33	11.50	2.11
2.00	2.64	5.25	8.44	8.50	3.69	11.75	2.11
2.25	2.64	5.50	12.66	8.75	3.69	12.00	2.11
2.50	3.17	5.75	12.66	9.00	3.69	12.25	2.11
2.75	3.17	6.00	50.64	9.25	3.69		
3.00	3.17	6.25	139.27	9.50	3.69		
3.25	3.17	6.50	18.99	9.75	3.69		

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| CALIB            |
| NASHYD  (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69
0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69
0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11
1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11
1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11
1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11
2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11

2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.007 (i)
TIME TO PEAK (hrs)= 6.450
RUNOFF VOLUME (mm)= 49.555
TOTAL RAINFALL (mm)= 105.509
RUNOFF COEFFICIENT = 0.470

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69
0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69
0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11
1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11
1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11

1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11
2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11
2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

Max.Eff.Inten.(mm/hr)=		139.27	77.22	
over (min)		5.00	4.00	
Storage Coeff. (min)=		1.16 (ii)	3.73 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.45	0.30	
				TOTALS
PEAK FLOW	(cms)=	0.05	0.01	0.059 (iii)

TIME TO PEAK	(hrs)=	6.23	6.25	6.25
RUNOFF VOLUME	(mm)=	103.51	47.07	91.08
TOTAL RAINFALL	(mm)=	105.51	105.51	105.51
RUNOFF COEFFICIENT	=	0.98	0.45	0.86

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69

0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69
0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11
1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11
1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11
1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11
2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11
2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

Max.Eff.Inten.(mm/hr)=	139.27	77.22	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.82 (ii)	3.19 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.50	0.33	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.037 (iii)
TIME TO PEAK (hrs)=	6.23	6.25	6.25
RUNOFF VOLUME (mm)=	103.51	47.07	92.77
TOTAL RAINFALL (mm)=	105.51	105.51	105.51
RUNOFF COEFFICIENT =	0.98	0.45	0.88

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010) 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):	0.17	0.059	6.25	91.08
+ ID2= 2 (0202):	0.11	0.037	6.25	92.77
ID = 3 (0010):	0.27	0.096	6.25	91.73

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012) IN= 2---> OUT= 1	OVERFLOW IS OFF

DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.096	6.25	91.73
OUTFLOW: ID= 1 (0012)	0.275	0.022	6.35	90.90

PEAK FLOW REDUCTION [Qout/Qin](%)= 22.87
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0107

ADD HYD (0014)		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3	ID1= 1 (0012):	0.27	0.022	6.35	90.90
	+ ID2= 2 (0204):	0.06	0.007	6.45	49.56
	ID = 3 (0014):	0.34	0.029	6.42	83.19

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB NASHYD (0205)				
ID= 1 DT= 1.0 min	Area (ha)=	0.02	Curve Number (CN)=	74.0
	Ia (mm)=	4.56	# of Linear Res.(N)=	3.00
	U.H. Tp(hrs)=	0.22		

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69
0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69
0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11
1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11
1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11
1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11

2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11
2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 6.367
RUNOFF VOLUME (mm)= 53.542
TOTAL RAINFALL (mm)= 105.509
RUNOFF COEFFICIENT = 0.507

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.17	6.150	139.27	9.22	3.69
0.033	0.00	3.100	3.17	6.167	139.27	9.23	3.69
0.050	0.00	3.117	3.17	6.183	139.27	9.25	3.69
0.067	0.00	3.133	3.17	6.200	139.27	9.27	3.69
0.083	0.00	3.150	3.17	6.217	139.27	9.28	3.69
0.100	0.00	3.167	3.17	6.233	139.27	9.30	3.69
0.117	0.00	3.183	3.17	6.250	139.08	9.32	3.69
0.133	0.00	3.200	3.17	6.267	18.99	9.33	3.69
0.150	0.00	3.217	3.17	6.283	18.99	9.35	3.69
0.167	0.00	3.233	3.17	6.300	18.99	9.37	3.69
0.183	0.00	3.250	3.17	6.317	18.99	9.38	3.69
0.200	0.00	3.267	4.22	6.333	18.99	9.40	3.69
0.217	0.00	3.283	4.22	6.350	18.99	9.42	3.69
0.233	0.00	3.300	4.22	6.367	18.99	9.43	3.69
0.250	0.00	3.317	4.22	6.383	18.99	9.45	3.69
0.267	2.64	3.333	4.22	6.400	18.99	9.47	3.69
0.283	2.64	3.350	4.22	6.417	18.99	9.48	3.69
0.300	2.64	3.367	4.22	6.433	18.99	9.50	3.69
0.317	2.64	3.383	4.22	6.450	18.99	9.52	3.69
0.333	2.64	3.400	4.22	6.467	18.99	9.53	3.69
0.350	2.64	3.417	4.22	6.483	18.99	9.55	3.69
0.367	2.64	3.433	4.22	6.500	18.99	9.57	3.69
0.383	2.64	3.450	4.22	6.517	18.99	9.58	3.69
0.400	2.64	3.467	4.22	6.533	18.99	9.60	3.69
0.417	2.64	3.483	4.22	6.550	18.99	9.62	3.69
0.433	2.64	3.500	4.22	6.567	18.99	9.63	3.69
0.450	2.64	3.517	4.22	6.583	18.99	9.65	3.69
0.467	2.64	3.533	4.22	6.600	18.99	9.67	3.69
0.483	2.64	3.550	4.22	6.617	18.99	9.68	3.69
0.500	2.64	3.567	4.22	6.633	18.99	9.70	3.69
0.517	2.64	3.583	4.22	6.650	18.99	9.72	3.69
0.533	2.64	3.600	4.22	6.667	18.99	9.73	3.69
0.550	2.64	3.617	4.22	6.683	18.99	9.75	3.69
0.567	2.64	3.633	4.22	6.700	18.99	9.77	3.69
0.583	2.64	3.650	4.22	6.717	18.99	9.78	3.69
0.600	2.64	3.667	4.22	6.733	18.99	9.80	3.69
0.617	2.64	3.683	4.22	6.750	18.97	9.82	3.69
0.633	2.64	3.700	4.22	6.767	8.44	9.83	3.69
0.650	2.64	3.717	4.22	6.783	8.44	9.85	3.69
0.667	2.64	3.733	4.22	6.800	8.44	9.87	3.69
0.683	2.64	3.750	4.22	6.817	8.44	9.88	3.69
0.700	2.64	3.767	4.22	6.833	8.44	9.90	3.69
0.717	2.64	3.783	4.22	6.850	8.44	9.92	3.69
0.733	2.64	3.800	4.22	6.867	8.44	9.93	3.69
0.750	2.64	3.817	4.22	6.883	8.44	9.95	3.69
0.767	2.64	3.833	4.22	6.900	8.44	9.97	3.69
0.783	2.64	3.850	4.22	6.917	8.44	9.98	3.69
0.800	2.64	3.867	4.22	6.933	8.44	10.00	3.69
0.817	2.64	3.883	4.22	6.950	8.44	10.02	3.69
0.833	2.64	3.900	4.22	6.967	8.44	10.03	3.69
0.850	2.64	3.917	4.22	6.983	8.44	10.05	3.69
0.867	2.64	3.933	4.22	7.000	8.44	10.07	3.69
0.883	2.64	3.950	4.22	7.017	8.44	10.08	3.69
0.900	2.64	3.967	4.22	7.033	8.44	10.10	3.69
0.917	2.64	3.983	4.22	7.050	8.44	10.12	3.69
0.933	2.64	4.000	4.22	7.067	8.44	10.13	3.69
0.950	2.64	4.017	4.22	7.083	8.44	10.15	3.69
0.967	2.64	4.033	4.22	7.100	8.44	10.17	3.69
0.983	2.64	4.050	4.22	7.117	8.44	10.18	3.69
1.000	2.64	4.067	4.22	7.133	8.44	10.20	3.69
1.017	2.64	4.083	4.22	7.150	8.44	10.22	3.69
1.033	2.64	4.100	4.22	7.167	8.44	10.23	3.69
1.050	2.64	4.117	4.22	7.183	8.44	10.25	3.69
1.067	2.64	4.133	4.22	7.200	8.44	10.27	2.11
1.083	2.64	4.150	4.22	7.217	8.44	10.28	2.11
1.100	2.64	4.167	4.22	7.233	8.44	10.30	2.11
1.117	2.64	4.183	4.22	7.250	8.44	10.32	2.11
1.133	2.64	4.200	4.22	7.267	6.33	10.33	2.11
1.150	2.64	4.217	4.22	7.283	6.33	10.35	2.11
1.167	2.64	4.233	4.22	7.300	6.33	10.37	2.11
1.183	2.64	4.250	4.22	7.317	6.33	10.38	2.11
1.200	2.64	4.267	6.33	7.333	6.33	10.40	2.11
1.217	2.64	4.283	6.33	7.350	6.33	10.42	2.11
1.233	2.64	4.300	6.33	7.367	6.33	10.43	2.11
1.250	2.64	4.317	6.33	7.383	6.33	10.45	2.11
1.267	2.64	4.333	6.33	7.400	6.33	10.47	2.11
1.283	2.64	4.350	6.33	7.417	6.33	10.48	2.11

1.300	2.64	4.367	6.33	7.433	6.33	10.50	2.11
1.317	2.64	4.383	6.33	7.450	6.33	10.52	2.11
1.333	2.64	4.400	6.33	7.467	6.33	10.53	2.11
1.350	2.64	4.417	6.33	7.483	6.33	10.55	2.11
1.367	2.64	4.433	6.33	7.500	6.33	10.57	2.11
1.383	2.64	4.450	6.33	7.517	6.33	10.58	2.11
1.400	2.64	4.467	6.33	7.533	6.33	10.60	2.11
1.417	2.64	4.483	6.33	7.550	6.33	10.62	2.11
1.433	2.64	4.500	6.33	7.567	6.33	10.63	2.11
1.450	2.64	4.517	6.33	7.583	6.33	10.65	2.11
1.467	2.64	4.533	6.33	7.600	6.33	10.67	2.11
1.483	2.64	4.550	6.33	7.617	6.33	10.68	2.11
1.500	2.64	4.567	6.33	7.633	6.33	10.70	2.11
1.517	2.64	4.583	6.33	7.650	6.33	10.72	2.11
1.533	2.64	4.600	6.33	7.667	6.33	10.73	2.11
1.550	2.64	4.617	6.33	7.683	6.33	10.75	2.11
1.567	2.64	4.633	6.33	7.700	6.33	10.77	2.11
1.583	2.64	4.650	6.33	7.717	6.33	10.78	2.11
1.600	2.64	4.667	6.33	7.733	6.33	10.80	2.11
1.617	2.64	4.683	6.33	7.750	6.33	10.82	2.11
1.633	2.64	4.700	6.33	7.767	6.33	10.83	2.11
1.650	2.64	4.717	6.33	7.783	6.33	10.85	2.11
1.667	2.64	4.733	6.33	7.800	6.33	10.87	2.11
1.683	2.64	4.750	6.33	7.817	6.33	10.88	2.11
1.700	2.64	4.767	8.44	7.833	6.33	10.90	2.11
1.717	2.64	4.783	8.44	7.850	6.33	10.92	2.11
1.733	2.64	4.800	8.44	7.867	6.33	10.93	2.11
1.750	2.64	4.817	8.44	7.883	6.33	10.95	2.11
1.767	2.64	4.833	8.44	7.900	6.33	10.97	2.11
1.783	2.64	4.850	8.44	7.917	6.33	10.98	2.11
1.800	2.64	4.867	8.44	7.933	6.33	11.00	2.11
1.817	2.64	4.883	8.44	7.950	6.33	11.02	2.11
1.833	2.64	4.900	8.44	7.967	6.33	11.03	2.11
1.850	2.64	4.917	8.44	7.983	6.33	11.05	2.11
1.867	2.64	4.933	8.44	8.000	6.33	11.07	2.11
1.883	2.64	4.950	8.44	8.017	6.33	11.08	2.11
1.900	2.64	4.967	8.44	8.033	6.33	11.10	2.11
1.917	2.64	4.983	8.44	8.050	6.33	11.12	2.11
1.933	2.64	5.000	8.44	8.067	6.33	11.13	2.11
1.950	2.64	5.017	8.44	8.083	6.33	11.15	2.11
1.967	2.64	5.033	8.44	8.100	6.33	11.17	2.11
1.983	2.64	5.050	8.44	8.117	6.33	11.18	2.11
2.000	2.64	5.067	8.44	8.133	6.33	11.20	2.11
2.017	2.64	5.083	8.44	8.150	6.33	11.22	2.11
2.033	2.64	5.100	8.44	8.167	6.33	11.23	2.11
2.050	2.64	5.117	8.44	8.183	6.33	11.25	2.11
2.067	2.64	5.133	8.44	8.200	6.33	11.27	2.11
2.083	2.64	5.150	8.44	8.217	6.33	11.28	2.11
2.100	2.64	5.167	8.44	8.233	6.33	11.30	2.11
2.117	2.64	5.183	8.44	8.250	6.32	11.32	2.11
2.133	2.64	5.200	8.44	8.267	3.69	11.33	2.11
2.150	2.64	5.217	8.44	8.283	3.69	11.35	2.11
2.167	2.64	5.233	8.44	8.300	3.69	11.37	2.11
2.183	2.64	5.250	8.44	8.317	3.69	11.38	2.11
2.200	2.64	5.267	12.66	8.333	3.69	11.40	2.11
2.217	2.64	5.283	12.66	8.350	3.69	11.42	2.11
2.233	2.64	5.300	12.66	8.367	3.69	11.43	2.11
2.250	2.64	5.317	12.66	8.383	3.69	11.45	2.11
2.267	3.17	5.333	12.66	8.400	3.69	11.47	2.11
2.283	3.17	5.350	12.66	8.417	3.69	11.48	2.11
2.300	3.17	5.367	12.66	8.433	3.69	11.50	2.11
2.317	3.17	5.383	12.66	8.450	3.69	11.52	2.11
2.333	3.17	5.400	12.66	8.467	3.69	11.53	2.11
2.350	3.17	5.417	12.66	8.483	3.69	11.55	2.11
2.367	3.17	5.433	12.66	8.500	3.69	11.57	2.11
2.383	3.17	5.450	12.66	8.517	3.69	11.58	2.11
2.400	3.17	5.467	12.66	8.533	3.69	11.60	2.11
2.417	3.17	5.483	12.66	8.550	3.69	11.62	2.11
2.433	3.17	5.500	12.66	8.567	3.69	11.63	2.11
2.450	3.17	5.517	12.66	8.583	3.69	11.65	2.11
2.467	3.17	5.533	12.66	8.600	3.69	11.67	2.11
2.483	3.17	5.550	12.66	8.617	3.69	11.68	2.11
2.500	3.17	5.567	12.66	8.633	3.69	11.70	2.11
2.517	3.17	5.583	12.66	8.650	3.69	11.72	2.11
2.533	3.17	5.600	12.66	8.667	3.69	11.73	2.11
2.550	3.17	5.617	12.66	8.683	3.69	11.75	2.11
2.567	3.17	5.633	12.66	8.700	3.69	11.77	2.11
2.583	3.17	5.650	12.66	8.717	3.69	11.78	2.11
2.600	3.17	5.667	12.66	8.733	3.69	11.80	2.11
2.617	3.17	5.683	12.66	8.750	3.69	11.82	2.11
2.633	3.17	5.700	12.66	8.767	3.69	11.83	2.11
2.650	3.17	5.717	12.66	8.783	3.69	11.85	2.11
2.667	3.17	5.733	12.66	8.800	3.69	11.87	2.11
2.683	3.17	5.750	12.71	8.817	3.69	11.88	2.11
2.700	3.17	5.767	50.64	8.833	3.69	11.90	2.11
2.717	3.17	5.783	50.64	8.850	3.69	11.92	2.11
2.733	3.17	5.800	50.64	8.867	3.69	11.93	2.11
2.750	3.17	5.817	50.64	8.883	3.69	11.95	2.11
2.767	3.17	5.833	50.64	8.900	3.69	11.97	2.11
2.783	3.17	5.850	50.64	8.917	3.69	11.98	2.11
2.800	3.17	5.867	50.64	8.933	3.69	12.00	2.11
2.817	3.17	5.883	50.64	8.950	3.69	12.02	2.11
2.833	3.17	5.900	50.64	8.967	3.69	12.03	2.11
2.850	3.17	5.917	50.64	8.983	3.69	12.05	2.11
2.867	3.17	5.933	50.64	9.000	3.69	12.07	2.11
2.883	3.17	5.950	50.64	9.017	3.69	12.08	2.11
2.900	3.17	5.967	50.64	9.033	3.69	12.10	2.11
2.917	3.17	5.983	50.64	9.050	3.69	12.12	2.11
2.933	3.17	6.000	50.77	9.067	3.69	12.13	2.11
2.950	3.17	6.017	139.27	9.083	3.69	12.15	2.11
2.967	3.17	6.033	139.27	9.100	3.69	12.17	2.11
2.983	3.17	6.050	139.27	9.117	3.69	12.18	2.11
3.000	3.17	6.067	139.27	9.133	3.69	12.20	2.11
3.017	3.17	6.083	139.27	9.150	3.69	12.22	2.11
3.033	3.17	6.100	139.27	9.167	3.69	12.23	2.11
3.050	3.17	6.117	139.27	9.183	3.69	12.25	2.11
3.067	3.17	6.133	139.27	9.200	3.69		

```
     Max.Eff.Inten.(mm/hr)=     139.27        77.22
               over (min)          5.00         3.00
     Storage Coeff.  (min)=       0.88 (ii)    2.17 (ii)
     Unit Hyd. Tpeak (min)=       5.00         3.00
     Unit Hyd. peak  (cms)=       0.49         0.46
                                                          *TOTALS*
     PEAK FLOW       (cms)=       0.04         0.01          0.046 (iii)
     TIME TO PEAK    (hrs)=       6.23         6.25           6.25
     RUNOFF VOLUME    (mm)=     103.51        47.07          89.40
     TOTAL RAINFALL   (mm)=     105.51       105.51         105.51
     RUNOFF COEFFICIENT   =       0.98         0.45           0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
             CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0160     0.0036
                          0.0010     0.0004   |   0.0170     0.0043
                          0.0060     0.0009   |   0.0180     0.0051
                          0.0080     0.0013   |   0.0560     0.0059
                          0.0100     0.0017   |   0.1330     0.0068
                          0.0120     0.0022   |   0.2430     0.0078
                          0.0130     0.0025   |   0.3860     0.0089
                          0.0140     0.0030   |   0.0000     0.0000

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)     0.133     0.046      6.25       89.40
   OUTFLOW: ID= 1 (  0015)     0.133     0.017      6.33       88.65

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 36.44
                  TIME SHIFT OF PEAK FLOW          (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0042

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|  1 +  2 =  3     |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):      0.13    0.017     6.33    88.65
     + ID2= 2 (  0205):      0.02    0.003     6.37    53.54
       ================================================
       ID = 3 (  0007):      0.16    0.020     6.33    83.68

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================================

       V    V   I    SSSSS  U   U    A    L             (v 6.1.2002)
```

```
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
         V V    I      SS   U   U  A   A  L
          VV    I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\b6ea7f39-73
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\b6ea7f39-73


DATE: 04-17-2023                          TIME: 01:25:47

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : S) 100yr 12hr 15min SCS Type  **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\d9b7be09
| Ptotal=115.43 mm |    Comments: 100yr 12hr 15min SCS Type II (MTO)
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
               0.25    0.00 |  3.50    4.62 |  6.75   20.78 | 10.00    4.04
               0.50    2.89 |  3.75    4.62 |  7.00    9.23 | 10.25    4.04
               0.75    2.89 |  4.00    4.62 |  7.25    9.23 | 10.50    2.31
               1.00    2.89 |  4.25    4.62 |  7.50    6.93 | 10.75    2.31
               1.25    2.89 |  4.50    6.93 |  7.75    6.93 | 11.00    2.31
               1.50    2.89 |  4.75    6.93 |  8.00    6.93 | 11.25    2.31
               1.75    2.89 |  5.00    9.23 |  8.25    6.93 | 11.50    2.31
               2.00    2.89 |  5.25    9.23 |  8.50    4.04 | 11.75    2.31
               2.25    2.89 |  5.50   13.85 |  8.75    4.04 | 12.00    2.31
               2.50    3.46 |  5.75   13.85 |  9.00    4.04 | 12.25    2.31
               2.75    3.46 |  6.00   55.41 |  9.25    4.04 |
               3.00    3.46 |  6.25  152.37 |  9.50    4.04 |
               3.25    3.46 |  6.50   20.78 |  9.75    4.04 |

--------------------------------------------------------------------------------

--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
              0.017    0.00 | 3.083    3.46 | 6.150  152.37 |  9.22    4.04
              0.033    0.00 | 3.100    3.46 | 6.167  152.37 |  9.23    4.04
              0.050    0.00 | 3.117    3.46 | 6.183  152.37 |  9.25    4.04
              0.067    0.00 | 3.133    3.46 | 6.200  152.37 |  9.27    4.04
              0.083    0.00 | 3.150    3.46 | 6.217  152.37 |  9.28    4.04
              0.100    0.00 | 3.167    3.46 | 6.233  152.37 |  9.30    4.04
              0.117    0.00 | 3.183    3.46 | 6.250  152.16 |  9.32    4.04
              0.133    0.00 | 3.200    3.46 | 6.267   20.78 |  9.33    4.04
              0.150    0.00 | 3.217    3.46 | 6.283   20.78 |  9.35    4.04
              0.167    0.00 | 3.233    3.46 | 6.300   20.78 |  9.37    4.04
              0.183    0.00 | 3.250    3.46 | 6.317   20.78 |  9.38    4.04
              0.200    0.00 | 3.267    4.62 | 6.333   20.78 |  9.40    4.04
              0.217    0.00 | 3.283    4.62 | 6.350   20.78 |  9.42    4.04
              0.233    0.00 | 3.300    4.62 | 6.367   20.78 |  9.43    4.04
              0.250    0.00 | 3.317    4.62 | 6.383   20.78 |  9.45    4.04
              0.267    2.89 | 3.333    4.62 | 6.400   20.78 |  9.47    4.04
              0.283    2.89 | 3.350    4.62 | 6.417   20.78 |  9.48    4.04
              0.300    2.89 | 3.367    4.62 | 6.433   20.78 |  9.50    4.04
              0.317    2.89 | 3.383    4.62 | 6.450   20.78 |  9.52    4.04
              0.333    2.89 | 3.400    4.62 | 6.467   20.78 |  9.53    4.04
              0.350    2.89 | 3.417    4.62 | 6.483   20.78 |  9.55    4.04
              0.367    2.89 | 3.433    4.62 | 6.500   20.78 |  9.57    4.04
              0.383    2.89 | 3.450    4.62 | 6.517   20.78 |  9.58    4.04
              0.400    2.89 | 3.467    4.62 | 6.533   20.78 |  9.60    4.04
              0.417    2.89 | 3.483    4.62 | 6.550   20.78 |  9.62    4.04
              0.433    2.89 | 3.500    4.62 | 6.567   20.78 |  9.63    4.04
              0.450    2.89 | 3.517    4.62 | 6.583   20.78 |  9.65    4.04
              0.467    2.89 | 3.533    4.62 | 6.600   20.78 |  9.67    4.04
              0.483    2.89 | 3.550    4.62 | 6.617   20.78 |  9.68    4.04
              0.500    2.89 | 3.567    4.62 | 6.633   20.78 |  9.70    4.04
              0.517    2.89 | 3.583    4.62 | 6.650   20.78 |  9.72    4.04
              0.533    2.89 | 3.600    4.62 | 6.667   20.78 |  9.73    4.04
              0.550    2.89 | 3.617    4.62 | 6.683   20.78 |  9.75    4.04
              0.567    2.89 | 3.633    4.62 | 6.700   20.78 |  9.77    4.04
              0.583    2.89 | 3.650    4.62 | 6.717   20.78 |  9.78    4.04
              0.600    2.89 | 3.667    4.62 | 6.733   20.78 |  9.80    4.04
              0.617    2.89 | 3.683    4.62 | 6.750   20.75 |  9.82    4.04
              0.633    2.89 | 3.700    4.62 | 6.767    9.23 |  9.83    4.04
              0.650    2.89 | 3.717    4.62 | 6.783    9.23 |  9.85    4.04
              0.667    2.89 | 3.733    4.62 | 6.800    9.23 |  9.87    4.04
              0.683    2.89 | 3.750    4.62 | 6.817    9.23 |  9.88    4.04
              0.700    2.89 | 3.767    4.62 | 6.833    9.23 |  9.90    4.04
              0.717    2.89 | 3.783    4.62 | 6.850    9.23 |  9.92    4.04
              0.733    2.89 | 3.800    4.62 | 6.867    9.23 |  9.93    4.04
              0.750    2.89 | 3.817    4.62 | 6.883    9.23 |  9.95    4.04
              0.767    2.89 | 3.833    4.62 | 6.900    9.23 |  9.97    4.04
              0.783    2.89 | 3.850    4.62 | 6.917    9.23 |  9.98    4.04
              0.800    2.89 | 3.867    4.62 | 6.933    9.23 | 10.00    4.04
              0.817    2.89 | 3.883    4.62 | 6.950    9.23 | 10.02    4.04
              0.833    2.89 | 3.900    4.62 | 6.967    9.23 | 10.03    4.04
              0.850    2.89 | 3.917    4.62 | 6.983    9.23 | 10.05    4.04
              0.867    2.89 | 3.933    4.62 | 7.000    9.23 | 10.07    4.04
              0.883    2.89 | 3.950    4.62 | 7.017    9.23 | 10.08    4.04
              0.900    2.89 | 3.967    4.62 | 7.033    9.23 | 10.10    4.04
              0.917    2.89 | 3.983    4.62 | 7.050    9.23 | 10.12    4.04
              0.933    2.89 | 4.000    4.62 | 7.067    9.23 | 10.13    4.04
              0.950    2.89 | 4.017    4.62 | 7.083    9.23 | 10.15    4.04
              0.967    2.89 | 4.033    4.62 | 7.100    9.23 | 10.17    4.04
              0.983    2.89 | 4.050    4.62 | 7.117    9.23 | 10.18    4.04
              1.000    2.89 | 4.067    4.62 | 7.133    9.23 | 10.20    4.04
              1.017    2.89 | 4.083    4.62 | 7.150    9.23 | 10.22    4.04
              1.033    2.89 | 4.100    4.62 | 7.167    9.23 | 10.23    4.04
              1.050    2.89 | 4.117    4.62 | 7.183    9.23 | 10.25    4.04
              1.067    2.89 | 4.133    4.62 | 7.200    9.23 | 10.27    2.31
              1.083    2.89 | 4.150    4.62 | 7.217    9.23 | 10.28    2.31
              1.100    2.89 | 4.167    4.62 | 7.233    9.23 | 10.30    2.31
              1.117    2.89 | 4.183    4.62 | 7.250    9.23 | 10.32    2.31
              1.133    2.89 | 4.200    4.62 | 7.267    6.93 | 10.33    2.31
              1.150    2.89 | 4.217    4.62 | 7.283    6.93 | 10.35    2.31
              1.167    2.89 | 4.233    4.62 | 7.300    6.93 | 10.37    2.31
              1.183    2.89 | 4.250    4.62 | 7.317    6.93 | 10.38    2.31
              1.200    2.89 | 4.267    6.93 | 7.333    6.93 | 10.40    2.31
              1.217    2.89 | 4.283    6.93 | 7.350    6.93 | 10.42    2.31
              1.233    2.89 | 4.300    6.93 | 7.367    6.93 | 10.43    2.31
              1.250    2.89 | 4.317    6.93 | 7.383    6.93 | 10.45    2.31
              1.267    2.89 | 4.333    6.93 | 7.400    6.93 | 10.47    2.31
              1.283    2.89 | 4.350    6.93 | 7.417    6.93 | 10.48    2.31
              1.300    2.89 | 4.367    6.93 | 7.433    6.93 | 10.50    2.31
              1.317    2.89 | 4.383    6.93 | 7.450    6.93 | 10.52    2.31
              1.333    2.89 | 4.400    6.93 | 7.467    6.93 | 10.53    2.31
              1.350    2.89 | 4.417    6.93 | 7.483    6.93 | 10.55    2.31
              1.367    2.89 | 4.433    6.93 | 7.500    6.93 | 10.57    2.31
              1.383    2.89 | 4.450    6.93 | 7.517    6.93 | 10.58    2.31
              1.400    2.89 | 4.467    6.93 | 7.533    6.93 | 10.60    2.31
              1.417    2.89 | 4.483    6.93 | 7.550    6.93 | 10.62    2.31
              1.433    2.89 | 4.500    6.93 | 7.567    6.93 | 10.63    2.31
              1.450    2.89 | 4.517    6.93 | 7.583    6.93 | 10.65    2.31
              1.467    2.89 | 4.533    6.93 | 7.600    6.93 | 10.67    2.31
              1.483    2.89 | 4.550    6.93 | 7.617    6.93 | 10.68    2.31
              1.500    2.89 | 4.567    6.93 | 7.633    6.93 | 10.70    2.31
              1.517    2.89 | 4.583    6.93 | 7.650    6.93 | 10.72    2.31
              1.533    2.89 | 4.600    6.93 | 7.667    6.93 | 10.73    2.31
              1.550    2.89 | 4.617    6.93 | 7.683    6.93 | 10.75    2.31
              1.567    2.89 | 4.633    6.93 | 7.700    6.93 | 10.77    2.31
              1.583    2.89 | 4.650    6.93 | 7.717    6.93 | 10.78    2.31
```

1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31
1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31
2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.008 (i)
TIME TO PEAK (hrs)= 6.450
RUNOFF VOLUME (mm)= 57.037
TOTAL RAINFALL (mm)= 115.429
RUNOFF COEFFICIENT = 0.494

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.46	6.150	152.37	9.22	4.04
0.033	0.00	3.100	3.46	6.167	152.37	9.23	4.04
0.050	0.00	3.117	3.46	6.183	152.37	9.25	4.04
0.067	0.00	3.133	3.46	6.200	152.37	9.27	4.04
0.083	0.00	3.150	3.46	6.217	152.37	9.28	4.04
0.100	0.00	3.167	3.46	6.233	152.37	9.30	4.04
0.117	0.00	3.183	3.46	6.250	152.16	9.32	4.04
0.133	0.00	3.200	3.46	6.267	20.78	9.33	4.04
0.150	0.00	3.217	3.46	6.283	20.78	9.35	4.04
0.167	0.00	3.233	3.46	6.300	20.78	9.37	4.04
0.183	0.00	3.250	3.46	6.317	20.78	9.38	4.04
0.200	0.00	3.267	4.62	6.333	20.78	9.40	4.04
0.217	0.00	3.283	4.62	6.350	20.78	9.42	4.04
0.233	0.00	3.300	4.62	6.367	20.78	9.43	4.04
0.250	0.00	3.317	4.62	6.383	20.78	9.45	4.04
0.267	2.89	3.333	4.62	6.400	20.78	9.47	4.04
0.283	2.89	3.350	4.62	6.417	20.78	9.48	4.04
0.300	2.89	3.367	4.62	6.433	20.78	9.50	4.04
0.317	2.89	3.383	4.62	6.450	20.78	9.52	4.04
0.333	2.89	3.400	4.62	6.467	20.78	9.53	4.04
0.350	2.89	3.417	4.62	6.483	20.78	9.55	4.04
0.367	2.89	3.433	4.62	6.500	20.78	9.57	4.04
0.383	2.89	3.450	4.62	6.517	20.78	9.58	4.04
0.400	2.89	3.467	4.62	6.533	20.78	9.60	4.04
0.417	2.89	3.483	4.62	6.550	20.78	9.62	4.04
0.433	2.89	3.500	4.62	6.567	20.78	9.63	4.04
0.450	2.89	3.517	4.62	6.583	20.78	9.65	4.04
0.467	2.89	3.533	4.62	6.600	20.78	9.67	4.04
0.483	2.89	3.550	4.62	6.617	20.78	9.68	4.04
0.500	2.89	3.567	4.62	6.633	20.78	9.70	4.04
0.517	2.89	3.583	4.62	6.650	20.78	9.72	4.04
0.533	2.89	3.600	4.62	6.667	20.78	9.73	4.04
0.550	2.89	3.617	4.62	6.683	20.78	9.75	4.04
0.567	2.89	3.633	4.62	6.700	20.78	9.77	4.04
0.583	2.89	3.650	4.62	6.717	20.78	9.78	4.04
0.600	2.89	3.667	4.62	6.733	20.78	9.80	4.04
0.617	2.89	3.683	4.62	6.750	20.75	9.82	4.04
0.633	2.89	3.700	4.62	6.767	9.23	9.83	4.04
0.650	2.89	3.717	4.62	6.783	9.23	9.85	4.04
0.667	2.89	3.733	4.62	6.800	9.23	9.87	4.04
0.683	2.89	3.750	4.62	6.817	9.23	9.88	4.04
0.700	2.89	3.767	4.62	6.833	9.23	9.90	4.04
0.717	2.89	3.783	4.62	6.850	9.23	9.92	4.04
0.733	2.89	3.800	4.62	6.867	9.23	9.93	4.04
0.750	2.89	3.817	4.62	6.883	9.23	9.95	4.04
0.767	2.89	3.833	4.62	6.900	9.23	9.97	4.04
0.783	2.89	3.850	4.62	6.917	9.23	9.98	4.04
0.800	2.89	3.867	4.62	6.933	9.23	10.00	4.04
0.817	2.89	3.883	4.62	6.950	9.23	10.02	4.04

0.833	2.89	3.900	4.62	6.967	9.23	10.03	4.04
0.850	2.89	3.917	4.62	6.983	9.23	10.05	4.04
0.867	2.89	3.933	4.62	7.000	9.23	10.07	4.04
0.883	2.89	3.950	4.62	7.017	9.23	10.08	4.04
0.900	2.89	3.967	4.62	7.033	9.23	10.10	4.04
0.917	2.89	3.983	4.62	7.050	9.23	10.12	4.04
0.933	2.89	4.000	4.62	7.067	9.23	10.13	4.04
0.950	2.89	4.017	4.62	7.083	9.23	10.15	4.04
0.967	2.89	4.033	4.62	7.100	9.23	10.17	4.04
0.983	2.89	4.050	4.62	7.117	9.23	10.18	4.04
1.000	2.89	4.067	4.62	7.133	9.23	10.20	4.04
1.017	2.89	4.083	4.62	7.150	9.23	10.22	4.04
1.033	2.89	4.100	4.62	7.167	9.23	10.23	4.04
1.050	2.89	4.117	4.62	7.183	9.23	10.25	4.04
1.067	2.89	4.133	4.62	7.200	9.23	10.27	2.31
1.083	2.89	4.150	4.62	7.217	9.23	10.28	2.31
1.100	2.89	4.167	4.62	7.233	9.23	10.30	2.31
1.117	2.89	4.183	4.62	7.250	9.23	10.32	2.31
1.133	2.89	4.200	4.62	7.267	6.93	10.33	2.31
1.150	2.89	4.217	4.62	7.283	6.93	10.35	2.31
1.167	2.89	4.233	4.62	7.300	6.93	10.37	2.31
1.183	2.89	4.250	4.62	7.317	6.93	10.38	2.31
1.200	2.89	4.267	6.93	7.333	6.93	10.40	2.31
1.217	2.89	4.283	6.93	7.350	6.93	10.42	2.31
1.233	2.89	4.300	6.93	7.367	6.93	10.43	2.31
1.250	2.89	4.317	6.93	7.383	6.93	10.45	2.31
1.267	2.89	4.333	6.93	7.400	6.93	10.47	2.31
1.283	2.89	4.350	6.93	7.417	6.93	10.48	2.31
1.300	2.89	4.367	6.93	7.433	6.93	10.50	2.31
1.317	2.89	4.383	6.93	7.450	6.93	10.52	2.31
1.333	2.89	4.400	6.93	7.467	6.93	10.53	2.31
1.350	2.89	4.417	6.93	7.483	6.93	10.55	2.31
1.367	2.89	4.433	6.93	7.500	6.93	10.57	2.31
1.383	2.89	4.450	6.93	7.517	6.93	10.58	2.31
1.400	2.89	4.467	6.93	7.533	6.93	10.60	2.31
1.417	2.89	4.483	6.93	7.550	6.93	10.62	2.31
1.433	2.89	4.500	6.93	7.567	6.93	10.63	2.31
1.450	2.89	4.517	6.93	7.583	6.93	10.65	2.31
1.467	2.89	4.533	6.93	7.600	6.93	10.67	2.31
1.483	2.89	4.550	6.93	7.617	6.93	10.68	2.31
1.500	2.89	4.567	6.93	7.633	6.93	10.70	2.31
1.517	2.89	4.583	6.93	7.650	6.93	10.72	2.31
1.533	2.89	4.600	6.93	7.667	6.93	10.73	2.31
1.550	2.89	4.617	6.93	7.683	6.93	10.75	2.31
1.567	2.89	4.633	6.93	7.700	6.93	10.77	2.31
1.583	2.89	4.650	6.93	7.717	6.93	10.78	2.31
1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31
1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31
2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Max.Eff.Inten.(mm/hr)=		152.37	88.85
over (min)		5.00	4.00
Storage Coeff. (min)=		1.12 (ii)	3.60 (ii)
Unit Hyd. Tpeak (min)=		5.00	4.00
Unit Hyd. peak (cms)=		0.46	0.30
			TOTALS
PEAK FLOW	(cms)=	0.06	0.01 0.065 (iii)
TIME TO PEAK	(hrs)=	6.23	6.25 6.25
RUNOFF VOLUME	(mm)=	113.43	54.31 100.41
TOTAL RAINFALL	(mm)=	115.43	115.43 115.43
RUNOFF COEFFICIENT	=	0.98	0.47 0.87

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.11	
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.46	6.150	152.37	9.22	4.04
0.033	0.00	3.100	3.46	6.167	152.37	9.23	4.04
0.050	0.00	3.117	3.46	6.183	152.37	9.25	4.04
0.067	0.00	3.133	3.46	6.200	152.37	9.27	4.04
0.083	0.00	3.150	3.46	6.217	152.37	9.28	4.04
0.100	0.00	3.167	3.46	6.233	152.37	9.30	4.04
0.117	0.00	3.183	3.46	6.250	152.16	9.32	4.04
0.133	0.00	3.200	3.46	6.267	20.78	9.33	4.04
0.150	0.00	3.217	3.46	6.283	20.78	9.35	4.04
0.167	0.00	3.233	3.46	6.300	20.78	9.37	4.04
0.183	0.00	3.250	3.46	6.317	20.78	9.38	4.04
0.200	0.00	3.267	4.62	6.333	20.78	9.40	4.04
0.217	0.00	3.283	4.62	6.350	20.78	9.42	4.04
0.233	0.00	3.300	4.62	6.367	20.78	9.43	4.04
0.250	0.00	3.317	4.62	6.383	20.78	9.45	4.04
0.267	2.89	3.333	4.62	6.400	20.78	9.47	4.04
0.283	2.89	3.350	4.62	6.417	20.78	9.48	4.04
0.300	2.89	3.367	4.62	6.433	20.78	9.50	4.04
0.317	2.89	3.383	4.62	6.450	20.78	9.52	4.04
0.333	2.89	3.400	4.62	6.467	20.78	9.53	4.04
0.350	2.89	3.417	4.62	6.483	20.78	9.55	4.04
0.367	2.89	3.433	4.62	6.500	20.78	9.57	4.04
0.383	2.89	3.450	4.62	6.517	20.78	9.58	4.04
0.400	2.89	3.467	4.62	6.533	20.78	9.60	4.04
0.417	2.89	3.483	4.62	6.550	20.78	9.62	4.04
0.433	2.89	3.500	4.62	6.567	20.78	9.63	4.04
0.450	2.89	3.517	4.62	6.583	20.78	9.65	4.04
0.467	2.89	3.533	4.62	6.600	20.78	9.67	4.04
0.483	2.89	3.550	4.62	6.617	20.78	9.68	4.04
0.500	2.89	3.567	4.62	6.633	20.78	9.70	4.04
0.517	2.89	3.583	4.62	6.650	20.78	9.72	4.04
0.533	2.89	3.600	4.62	6.667	20.78	9.73	4.04
0.550	2.89	3.617	4.62	6.683	20.78	9.75	4.04
0.567	2.89	3.633	4.62	6.700	20.78	9.77	4.04
0.583	2.89	3.650	4.62	6.717	20.78	9.78	4.04
0.600	2.89	3.667	4.62	6.733	20.78	9.80	4.04
0.617	2.89	3.683	4.62	6.750	20.75	9.82	4.04
0.633	2.89	3.700	4.62	6.767	9.23	9.83	4.04
0.650	2.89	3.717	4.62	6.783	9.23	9.85	4.04
0.667	2.89	3.733	4.62	6.800	9.23	9.87	4.04
0.683	2.89	3.750	4.62	6.817	9.23	9.88	4.04
0.700	2.89	3.767	4.62	6.833	9.23	9.90	4.04
0.717	2.89	3.783	4.62	6.850	9.23	9.92	4.04
0.733	2.89	3.800	4.62	6.867	9.23	9.93	4.04
0.750	2.89	3.817	4.62	6.883	9.23	9.95	4.04
0.767	2.89	3.833	4.62	6.900	9.23	9.97	4.04
0.783	2.89	3.850	4.62	6.917	9.23	9.98	4.04
0.800	2.89	3.867	4.62	6.933	9.23	10.00	4.04
0.817	2.89	3.883	4.62	6.950	9.23	10.02	4.04
0.833	2.89	3.900	4.62	6.967	9.23	10.03	4.04
0.850	2.89	3.917	4.62	6.983	9.23	10.05	4.04
0.867	2.89	3.933	4.62	7.000	9.23	10.07	4.04
0.883	2.89	3.950	4.62	7.017	9.23	10.08	4.04
0.900	2.89	3.967	4.62	7.033	9.23	10.10	4.04
0.917	2.89	3.983	4.62	7.050	9.23	10.12	4.04
0.933	2.89	4.000	4.62	7.067	9.23	10.13	4.04
0.950	2.89	4.017	4.62	7.083	9.23	10.15	4.04
0.967	2.89	4.033	4.62	7.100	9.23	10.17	4.04
0.983	2.89	4.050	4.62	7.117	9.23	10.18	4.04
1.000	2.89	4.067	4.62	7.133	9.23	10.20	4.04
1.017	2.89	4.083	4.62	7.150	9.23	10.22	4.04
1.033	2.89	4.100	4.62	7.167	9.23	10.23	4.04
1.050	2.89	4.117	4.62	7.183	9.23	10.25	4.04
1.067	2.89	4.133	4.62	7.200	9.23	10.27	2.31
1.083	2.89	4.150	4.62	7.217	9.23	10.28	2.31
1.100	2.89	4.167	4.62	7.233	9.23	10.30	2.31
1.117	2.89	4.183	4.62	7.250	9.23	10.32	2.31
1.133	2.89	4.200	4.62	7.267	6.93	10.33	2.31
1.150	2.89	4.217	4.62	7.283	6.93	10.35	2.31
1.167	2.89	4.233	4.62	7.300	6.93	10.37	2.31
1.183	2.89	4.250	4.62	7.317	6.93	10.38	2.31
1.200	2.89	4.267	6.93	7.333	6.93	10.40	2.31
1.217	2.89	4.283	6.93	7.350	6.93	10.42	2.31
1.233	2.89	4.300	6.93	7.367	6.93	10.43	2.31
1.250	2.89	4.317	6.93	7.383	6.93	10.45	2.31
1.267	2.89	4.333	6.93	7.400	6.93	10.47	2.31
1.283	2.89	4.350	6.93	7.417	6.93	10.48	2.31
1.300	2.89	4.367	6.93	7.433	6.93	10.50	2.31
1.317	2.89	4.383	6.93	7.450	6.93	10.52	2.31
1.333	2.89	4.400	6.93	7.467	6.93	10.53	2.31
1.350	2.89	4.417	6.93	7.483	6.93	10.55	2.31
1.367	2.89	4.433	6.93	7.500	6.93	10.57	2.31
1.383	2.89	4.450	6.93	7.517	6.93	10.58	2.31
1.400	2.89	4.467	6.93	7.533	6.93	10.60	2.31
1.417	2.89	4.483	6.93	7.550	6.93	10.62	2.31
1.433	2.89	4.500	6.93	7.567	6.93	10.63	2.31
1.450	2.89	4.517	6.93	7.583	6.93	10.65	2.31
1.467	2.89	4.533	6.93	7.600	6.93	10.67	2.31
1.483	2.89	4.550	6.93	7.617	6.93	10.68	2.31
1.500	2.89	4.567	6.93	7.633	6.93	10.70	2.31
1.517	2.89	4.583	6.93	7.650	6.93	10.72	2.31
1.533	2.89	4.600	6.93	7.667	6.93	10.73	2.31
1.550	2.89	4.617	6.93	7.683	6.93	10.75	2.31
1.567	2.89	4.633	6.93	7.700	6.93	10.77	2.31
1.583	2.89	4.650	6.93	7.717	6.93	10.78	2.31
1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31
1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31

2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Max.Eff.Inten.(mm/hr)=		152.37	88.85	
over (min)		5.00	4.00	
Storage Coeff. (min)=		0.79 (ii)	3.08 (ii)	
Unit Hyd. Tpeak (min)=		5.00	4.00	
Unit Hyd. peak (cms)=		0.50	0.33	
				TOTALS
PEAK FLOW	(cms)=	0.04	0.00	0.041 (iii)
TIME TO PEAK	(hrs)=	6.23	6.25	6.25
RUNOFF VOLUME	(mm)=	113.43	54.31	102.18
TOTAL RAINFALL	(mm)=	115.43	115.43	115.43
RUNOFF COEFFICIENT	=	0.98	0.47	0.89

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):	0.17	0.065	6.25	100.41
+ ID2= 2 (0202):	0.11	0.041	6.25	102.18
ID = 3 (0010):	0.27	0.106	6.25	101.09

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 1.0 min	

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0200	0.0082
0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.106	6.25	101.09
OUTFLOW: ID= 1 (0012)	0.275	0.023	6.35	100.26

PEAK FLOW REDUCTION [Qout/Qin](%)= 21.85
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0118

ADD HYD (0014)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.023	6.35	100.26
+ ID2= 2 (0204):	0.06	0.008	6.45	57.04
ID = 3 (0014):	0.34	0.031	6.43	92.21

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB NASHYD (0205) ID= 1 DT= 1.0 min	Area (ha)= 0.02	Curve Number (CN)= 74.0
	Ia (mm)= 4.56	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)= 0.22	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.46	6.150	152.37	9.22	4.04
0.033	0.00	3.100	3.46	6.167	152.37	9.23	4.04
0.050	0.00	3.117	3.46	6.183	152.37	9.25	4.04
0.067	0.00	3.133	3.46	6.200	152.37	9.27	4.04
0.083	0.00	3.150	3.46	6.217	152.37	9.28	4.04
0.100	0.00	3.167	3.46	6.233	152.37	9.30	4.04
0.117	0.00	3.183	3.46	6.250	152.16	9.32	4.04
0.133	0.00	3.200	3.46	6.267	20.78	9.33	4.04
0.150	0.00	3.217	3.46	6.283	20.78	9.35	4.04
0.167	0.00	3.233	3.46	6.300	20.78	9.37	4.04
0.183	0.00	3.250	3.46	6.317	20.78	9.38	4.04
0.200	0.00	3.267	4.62	6.333	20.78	9.40	4.04
0.217	0.00	3.283	4.62	6.350	20.78	9.42	4.04
0.233	0.00	3.300	4.62	6.367	20.78	9.43	4.04
0.250	0.00	3.317	4.62	6.383	20.78	9.45	4.04
0.267	2.89	3.333	4.62	6.400	20.78	9.47	4.04
0.283	2.89	3.350	4.62	6.417	20.78	9.48	4.04
0.300	2.89	3.367	4.62	6.433	20.78	9.50	4.04
0.317	2.89	3.383	4.62	6.450	20.78	9.52	4.04
0.333	2.89	3.400	4.62	6.467	20.78	9.53	4.04
0.350	2.89	3.417	4.62	6.483	20.78	9.55	4.04
0.367	2.89	3.433	4.62	6.500	20.78	9.57	4.04
0.383	2.89	3.450	4.62	6.517	20.78	9.58	4.04
0.400	2.89	3.467	4.62	6.533	20.78	9.60	4.04
0.417	2.89	3.483	4.62	6.550	20.78	9.62	4.04
0.433	2.89	3.500	4.62	6.567	20.78	9.63	4.04
0.450	2.89	3.517	4.62	6.583	20.78	9.65	4.04
0.467	2.89	3.533	4.62	6.600	20.78	9.67	4.04
0.483	2.89	3.550	4.62	6.617	20.78	9.68	4.04
0.500	2.89	3.567	4.62	6.633	20.78	9.70	4.04
0.517	2.89	3.583	4.62	6.650	20.78	9.72	4.04
0.533	2.89	3.600	4.62	6.667	20.78	9.73	4.04
0.550	2.89	3.617	4.62	6.683	20.78	9.75	4.04
0.567	2.89	3.633	4.62	6.700	20.78	9.77	4.04
0.583	2.89	3.650	4.62	6.717	20.78	9.78	4.04
0.600	2.89	3.667	4.62	6.733	20.78	9.80	4.04
0.617	2.89	3.683	4.62	6.750	20.75	9.82	4.04
0.633	2.89	3.700	4.62	6.767	9.23	9.83	4.04
0.650	2.89	3.717	4.62	6.783	9.23	9.85	4.04
0.667	2.89	3.733	4.62	6.800	9.23	9.87	4.04
0.683	2.89	3.750	4.62	6.817	9.23	9.88	4.04
0.700	2.89	3.767	4.62	6.833	9.23	9.90	4.04
0.717	2.89	3.783	4.62	6.850	9.23	9.92	4.04
0.733	2.89	3.800	4.62	6.867	9.23	9.93	4.04
0.750	2.89	3.817	4.62	6.883	9.23	9.95	4.04
0.767	2.89	3.833	4.62	6.900	9.23	9.97	4.04
0.783	2.89	3.850	4.62	6.917	9.23	9.98	4.04
0.800	2.89	3.867	4.62	6.933	9.23	10.00	4.04
0.817	2.89	3.883	4.62	6.950	9.23	10.02	4.04
0.833	2.89	3.900	4.62	6.967	9.23	10.03	4.04
0.850	2.89	3.917	4.62	6.983	9.23	10.05	4.04
0.867	2.89	3.933	4.62	7.000	9.23	10.07	4.04
0.883	2.89	3.950	4.62	7.017	9.23	10.08	4.04
0.900	2.89	3.967	4.62	7.033	9.23	10.10	4.04
0.917	2.89	3.983	4.62	7.050	9.23	10.12	4.04
0.933	2.89	4.000	4.62	7.067	9.23	10.13	4.04
0.950	2.89	4.017	4.62	7.083	9.23	10.15	4.04
0.967	2.89	4.033	4.62	7.100	9.23	10.17	4.04
0.983	2.89	4.050	4.62	7.117	9.23	10.18	4.04
1.000	2.89	4.067	4.62	7.133	9.23	10.20	4.04
1.017	2.89	4.083	4.62	7.150	9.23	10.22	4.04
1.033	2.89	4.100	4.62	7.167	9.23	10.23	4.04
1.050	2.89	4.117	4.62	7.183	9.23	10.25	4.04
1.067	2.89	4.133	4.62	7.200	9.23	10.27	2.31

1.083	2.89	4.150	4.62	7.217	9.23	10.28	2.31
1.100	2.89	4.167	4.62	7.233	9.23	10.30	2.31
1.117	2.89	4.183	4.62	7.250	9.23	10.32	2.31
1.133	2.89	4.200	4.62	7.267	6.93	10.33	2.31
1.150	2.89	4.217	4.62	7.283	6.93	10.35	2.31
1.167	2.89	4.233	4.62	7.300	6.93	10.37	2.31
1.183	2.89	4.250	4.62	7.317	6.93	10.38	2.31
1.200	2.89	4.267	6.93	7.333	6.93	10.40	2.31
1.217	2.89	4.283	6.93	7.350	6.93	10.42	2.31
1.233	2.89	4.300	6.93	7.367	6.93	10.43	2.31
1.250	2.89	4.317	6.93	7.383	6.93	10.45	2.31
1.267	2.89	4.333	6.93	7.400	6.93	10.47	2.31
1.283	2.89	4.350	6.93	7.417	6.93	10.48	2.31
1.300	2.89	4.367	6.93	7.433	6.93	10.50	2.31
1.317	2.89	4.383	6.93	7.450	6.93	10.52	2.31
1.333	2.89	4.400	6.93	7.467	6.93	10.53	2.31
1.350	2.89	4.417	6.93	7.483	6.93	10.55	2.31
1.367	2.89	4.433	6.93	7.500	6.93	10.57	2.31
1.383	2.89	4.450	6.93	7.517	6.93	10.58	2.31
1.400	2.89	4.467	6.93	7.533	6.93	10.60	2.31
1.417	2.89	4.483	6.93	7.550	6.93	10.62	2.31
1.433	2.89	4.500	6.93	7.567	6.93	10.63	2.31
1.450	2.89	4.517	6.93	7.583	6.93	10.65	2.31
1.467	2.89	4.533	6.93	7.600	6.93	10.67	2.31
1.483	2.89	4.550	6.93	7.617	6.93	10.68	2.31
1.500	2.89	4.567	6.93	7.633	6.93	10.70	2.31
1.517	2.89	4.583	6.93	7.650	6.93	10.72	2.31
1.533	2.89	4.600	6.93	7.667	6.93	10.73	2.31
1.550	2.89	4.617	6.93	7.683	6.93	10.75	2.31
1.567	2.89	4.633	6.93	7.700	6.93	10.77	2.31
1.583	2.89	4.650	6.93	7.717	6.93	10.78	2.31
1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31
1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31
2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 6.367
RUNOFF VOLUME (mm)= 61.385
TOTAL RAINFALL (mm)= 115.429
RUNOFF COEFFICIENT = 0.532

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00	Dir. Conn.(%)= 75.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	3.083	3.46	6.150	152.37	9.22	4.04
0.033	0.00	3.100	3.46	6.167	152.37	9.23	4.04
0.050	0.00	3.117	3.46	6.183	152.37	9.25	4.04
0.067	0.00	3.133	3.46	6.200	152.37	9.27	4.04
0.083	0.00	3.150	3.46	6.217	152.37	9.28	4.04
0.100	0.00	3.167	3.46	6.233	152.37	9.30	4.04
0.117	0.00	3.183	3.46	6.250	152.16	9.32	4.04
0.133	0.00	3.200	3.46	6.267	20.78	9.33	4.04
0.150	0.00	3.217	3.46	6.283	20.78	9.35	4.04
0.167	0.00	3.233	3.46	6.300	20.78	9.37	4.04
0.183	0.00	3.250	3.46	6.317	20.78	9.38	4.04
0.200	0.00	3.267	4.62	6.333	20.78	9.40	4.04
0.217	0.00	3.283	4.62	6.350	20.78	9.42	4.04
0.233	0.00	3.300	4.62	6.367	20.78	9.43	4.04
0.250	0.00	3.317	4.62	6.383	20.78	9.45	4.04
0.267	2.89	3.333	4.62	6.400	20.78	9.47	4.04
0.283	2.89	3.350	4.62	6.417	20.78	9.48	4.04
0.300	2.89	3.367	4.62	6.433	20.78	9.50	4.04

0.317	2.89	3.383	4.62	6.450	20.78	9.52	4.04
0.333	2.89	3.400	4.62	6.467	20.78	9.53	4.04
0.350	2.89	3.417	4.62	6.483	20.78	9.55	4.04
0.367	2.89	3.433	4.62	6.500	20.78	9.57	4.04
0.383	2.89	3.450	4.62	6.517	20.78	9.58	4.04
0.400	2.89	3.467	4.62	6.533	20.78	9.60	4.04
0.417	2.89	3.483	4.62	6.550	20.78	9.62	4.04
0.433	2.89	3.500	4.62	6.567	20.78	9.63	4.04
0.450	2.89	3.517	4.62	6.583	20.78	9.65	4.04
0.467	2.89	3.533	4.62	6.600	20.78	9.67	4.04
0.483	2.89	3.550	4.62	6.617	20.78	9.68	4.04
0.500	2.89	3.567	4.62	6.633	20.78	9.70	4.04
0.517	2.89	3.583	4.62	6.650	20.78	9.72	4.04
0.533	2.89	3.600	4.62	6.667	20.78	9.73	4.04
0.550	2.89	3.617	4.62	6.683	20.78	9.75	4.04
0.567	2.89	3.633	4.62	6.700	20.78	9.77	4.04
0.583	2.89	3.650	4.62	6.717	20.78	9.78	4.04
0.600	2.89	3.667	4.62	6.733	20.78	9.80	4.04
0.617	2.89	3.683	4.62	6.750	20.75	9.82	4.04
0.633	2.89	3.700	4.62	6.767	9.23	9.83	4.04
0.650	2.89	3.717	4.62	6.783	9.23	9.85	4.04
0.667	2.89	3.733	4.62	6.800	9.23	9.87	4.04
0.683	2.89	3.750	4.62	6.817	9.23	9.88	4.04
0.700	2.89	3.767	4.62	6.833	9.23	9.90	4.04
0.717	2.89	3.783	4.62	6.850	9.23	9.92	4.04
0.733	2.89	3.800	4.62	6.867	9.23	9.93	4.04
0.750	2.89	3.817	4.62	6.883	9.23	9.95	4.04
0.767	2.89	3.833	4.62	6.900	9.23	9.97	4.04
0.783	2.89	3.850	4.62	6.917	9.23	9.98	4.04
0.800	2.89	3.867	4.62	6.933	9.23	10.00	4.04
0.817	2.89	3.883	4.62	6.950	9.23	10.02	4.04
0.833	2.89	3.900	4.62	6.967	9.23	10.03	4.04
0.850	2.89	3.917	4.62	6.983	9.23	10.05	4.04
0.867	2.89	3.933	4.62	7.000	9.23	10.07	4.04
0.883	2.89	3.950	4.62	7.017	9.23	10.08	4.04
0.900	2.89	3.967	4.62	7.033	9.23	10.10	4.04
0.917	2.89	3.983	4.62	7.050	9.23	10.12	4.04
0.933	2.89	4.000	4.62	7.067	9.23	10.13	4.04
0.950	2.89	4.017	4.62	7.083	9.23	10.15	4.04
0.967	2.89	4.033	4.62	7.100	9.23	10.17	4.04
0.983	2.89	4.050	4.62	7.117	9.23	10.18	4.04
1.000	2.89	4.067	4.62	7.133	9.23	10.20	4.04
1.017	2.89	4.083	4.62	7.150	9.23	10.22	4.04
1.033	2.89	4.100	4.62	7.167	9.23	10.23	4.04
1.050	2.89	4.117	4.62	7.183	9.23	10.25	4.04
1.067	2.89	4.133	4.62	7.200	9.23	10.27	2.31
1.083	2.89	4.150	4.62	7.217	9.23	10.28	2.31
1.100	2.89	4.167	4.62	7.233	9.23	10.30	2.31
1.117	2.89	4.183	4.62	7.250	9.23	10.32	2.31
1.133	2.89	4.200	4.62	7.267	6.93	10.33	2.31
1.150	2.89	4.217	4.62	7.283	6.93	10.35	2.31
1.167	2.89	4.233	4.62	7.300	6.93	10.37	2.31
1.183	2.89	4.250	4.62	7.317	6.93	10.38	2.31
1.200	2.89	4.267	6.93	7.333	6.93	10.40	2.31
1.217	2.89	4.283	6.93	7.350	6.93	10.42	2.31
1.233	2.89	4.300	6.93	7.367	6.93	10.43	2.31
1.250	2.89	4.317	6.93	7.383	6.93	10.45	2.31
1.267	2.89	4.333	6.93	7.400	6.93	10.47	2.31
1.283	2.89	4.350	6.93	7.417	6.93	10.48	2.31
1.300	2.89	4.367	6.93	7.433	6.93	10.50	2.31
1.317	2.89	4.383	6.93	7.450	6.93	10.52	2.31
1.333	2.89	4.400	6.93	7.467	6.93	10.53	2.31
1.350	2.89	4.417	6.93	7.483	6.93	10.55	2.31
1.367	2.89	4.433	6.93	7.500	6.93	10.57	2.31
1.383	2.89	4.450	6.93	7.517	6.93	10.58	2.31
1.400	2.89	4.467	6.93	7.533	6.93	10.60	2.31
1.417	2.89	4.483	6.93	7.550	6.93	10.62	2.31
1.433	2.89	4.500	6.93	7.567	6.93	10.63	2.31
1.450	2.89	4.517	6.93	7.583	6.93	10.65	2.31
1.467	2.89	4.533	6.93	7.600	6.93	10.67	2.31
1.483	2.89	4.550	6.93	7.617	6.93	10.68	2.31
1.500	2.89	4.567	6.93	7.633	6.93	10.70	2.31
1.517	2.89	4.583	6.93	7.650	6.93	10.72	2.31
1.533	2.89	4.600	6.93	7.667	6.93	10.73	2.31
1.550	2.89	4.617	6.93	7.683	6.93	10.75	2.31
1.567	2.89	4.633	6.93	7.700	6.93	10.77	2.31
1.583	2.89	4.650	6.93	7.717	6.93	10.78	2.31
1.600	2.89	4.667	6.93	7.733	6.93	10.80	2.31
1.617	2.89	4.683	6.93	7.750	6.93	10.82	2.31
1.633	2.89	4.700	6.93	7.767	6.93	10.83	2.31
1.650	2.89	4.717	6.93	7.783	6.93	10.85	2.31
1.667	2.89	4.733	6.93	7.800	6.93	10.87	2.31
1.683	2.89	4.750	6.93	7.817	6.93	10.88	2.31
1.700	2.89	4.767	9.23	7.833	6.93	10.90	2.31
1.717	2.89	4.783	9.23	7.850	6.93	10.92	2.31
1.733	2.89	4.800	9.23	7.867	6.93	10.93	2.31
1.750	2.89	4.817	9.23	7.883	6.93	10.95	2.31
1.767	2.89	4.833	9.23	7.900	6.93	10.97	2.31
1.783	2.89	4.850	9.23	7.917	6.93	10.98	2.31
1.800	2.89	4.867	9.23	7.933	6.93	11.00	2.31
1.817	2.89	4.883	9.23	7.950	6.93	11.02	2.31
1.833	2.89	4.900	9.23	7.967	6.93	11.03	2.31
1.850	2.89	4.917	9.23	7.983	6.93	11.05	2.31
1.867	2.89	4.933	9.23	8.000	6.93	11.07	2.31
1.883	2.89	4.950	9.23	8.017	6.93	11.08	2.31
1.900	2.89	4.967	9.23	8.033	6.93	11.10	2.31
1.917	2.89	4.983	9.23	8.050	6.93	11.12	2.31
1.933	2.89	5.000	9.23	8.067	6.93	11.13	2.31
1.950	2.89	5.017	9.23	8.083	6.93	11.15	2.31
1.967	2.89	5.033	9.23	8.100	6.93	11.17	2.31
1.983	2.89	5.050	9.23	8.117	6.93	11.18	2.31
2.000	2.89	5.067	9.23	8.133	6.93	11.20	2.31
2.017	2.89	5.083	9.23	8.150	6.93	11.22	2.31
2.033	2.89	5.100	9.23	8.167	6.93	11.23	2.31
2.050	2.89	5.117	9.23	8.183	6.93	11.25	2.31
2.067	2.89	5.133	9.23	8.200	6.93	11.27	2.31
2.083	2.89	5.150	9.23	8.217	6.93	11.28	2.31
2.100	2.89	5.167	9.23	8.233	6.93	11.30	2.31
2.117	2.89	5.183	9.23	8.250	6.92	11.32	2.31
2.133	2.89	5.200	9.23	8.267	4.04	11.33	2.31
2.150	2.89	5.217	9.23	8.283	4.04	11.35	2.31
2.167	2.89	5.233	9.23	8.300	4.04	11.37	2.31
2.183	2.89	5.250	9.24	8.317	4.04	11.38	2.31
2.200	2.89	5.267	13.85	8.333	4.04	11.40	2.31
2.217	2.89	5.283	13.85	8.350	4.04	11.42	2.31
2.233	2.89	5.300	13.85	8.367	4.04	11.43	2.31
2.250	2.89	5.317	13.85	8.383	4.04	11.45	2.31
2.267	3.46	5.333	13.85	8.400	4.04	11.47	2.31
2.283	3.46	5.350	13.85	8.417	4.04	11.48	2.31
2.300	3.46	5.367	13.85	8.433	4.04	11.50	2.31
2.317	3.46	5.383	13.85	8.450	4.04	11.52	2.31
2.333	3.46	5.400	13.85	8.467	4.04	11.53	2.31
2.350	3.46	5.417	13.85	8.483	4.04	11.55	2.31
2.367	3.46	5.433	13.85	8.500	4.04	11.57	2.31
2.383	3.46	5.450	13.85	8.517	4.04	11.58	2.31
2.400	3.46	5.467	13.85	8.533	4.04	11.60	2.31
2.417	3.46	5.483	13.85	8.550	4.04	11.62	2.31
2.433	3.46	5.500	13.85	8.567	4.04	11.63	2.31
2.450	3.46	5.517	13.85	8.583	4.04	11.65	2.31
2.467	3.46	5.533	13.85	8.600	4.04	11.67	2.31
2.483	3.46	5.550	13.85	8.617	4.04	11.68	2.31
2.500	3.46	5.567	13.85	8.633	4.04	11.70	2.31
2.517	3.46	5.583	13.85	8.650	4.04	11.72	2.31
2.533	3.46	5.600	13.85	8.667	4.04	11.73	2.31
2.550	3.46	5.617	13.85	8.683	4.04	11.75	2.31
2.567	3.46	5.633	13.85	8.700	4.04	11.77	2.31
2.583	3.46	5.650	13.85	8.717	4.04	11.78	2.31
2.600	3.46	5.667	13.85	8.733	4.04	11.80	2.31
2.617	3.46	5.683	13.85	8.750	4.04	11.82	2.31
2.633	3.46	5.700	13.85	8.767	4.04	11.83	2.31
2.650	3.46	5.717	13.85	8.783	4.04	11.85	2.31
2.667	3.46	5.733	13.85	8.800	4.04	11.87	2.31
2.683	3.46	5.750	13.90	8.817	4.04	11.88	2.31
2.700	3.46	5.767	55.41	8.833	4.04	11.90	2.31
2.717	3.46	5.783	55.41	8.850	4.04	11.92	2.31
2.733	3.46	5.800	55.41	8.867	4.04	11.93	2.31
2.750	3.46	5.817	55.41	8.883	4.04	11.95	2.31
2.767	3.46	5.833	55.41	8.900	4.04	11.97	2.31
2.783	3.46	5.850	55.41	8.917	4.04	11.98	2.31
2.800	3.46	5.867	55.41	8.933	4.04	12.00	2.31
2.817	3.46	5.883	55.41	8.950	4.04	12.02	2.31
2.833	3.46	5.900	55.41	8.967	4.04	12.03	2.31
2.850	3.46	5.917	55.41	8.983	4.04	12.05	2.31
2.867	3.46	5.933	55.41	9.000	4.04	12.07	2.31
2.883	3.46	5.950	55.41	9.017	4.04	12.08	2.31
2.900	3.46	5.967	55.41	9.033	4.04	12.10	2.31
2.917	3.46	5.983	55.41	9.050	4.04	12.12	2.31
2.933	3.46	6.000	55.54	9.067	4.04	12.13	2.31
2.950	3.46	6.017	152.37	9.083	4.04	12.15	2.31
2.967	3.46	6.033	152.37	9.100	4.04	12.17	2.31
2.983	3.46	6.050	152.37	9.117	4.04	12.18	2.31
3.000	3.46	6.067	152.37	9.133	4.04	12.20	2.31
3.017	3.46	6.083	152.37	9.150	4.04	12.22	2.31
3.033	3.46	6.100	152.37	9.167	4.04	12.23	2.31
3.050	3.46	6.117	152.37	9.183	4.04	12.25	2.31
3.067	3.46	6.133	152.37	9.200	4.04		

Max.Eff.Inten.(mm/hr)= 152.37 88.85

```
            over (min)        5.00          3.00
     Storage Coeff.  (min)=       0.85 (ii)    2.09 (ii)
     Unit Hyd. Tpeak (min)=       5.00          3.00
     Unit Hyd. peak  (cms)=       0.49          0.47
                                                  *TOTALS*
     PEAK FLOW       (cms)=       0.04          0.01          0.051 (iii)
     TIME TO PEAK    (hrs)=       6.23          6.25           6.25
     RUNOFF VOLUME    (mm)=     113.43         54.31          98.65
     TOTAL RAINFALL   (mm)=     115.43        115.43         115.43
     RUNOFF COEFFICIENT   =       0.98          0.47           0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)    |   (cms)     (ha.m.)
                          0.0000     0.0000    |   0.0160     0.0036
                          0.0010     0.0004    |   0.0170     0.0043
                          0.0060     0.0009    |   0.0180     0.0051
                          0.0080     0.0013    |   0.0560     0.0059
                          0.0100     0.0017    |   0.1330     0.0068
                          0.0120     0.0022    |   0.2430     0.0078
                          0.0130     0.0025    |   0.3860     0.0089
                          0.0140     0.0030    |   0.0000     0.0000

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)     0.133     0.051      6.25      98.65
   OUTFLOW: ID= 1 (  0015)     0.133     0.017      6.33      97.90

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 34.28
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0047

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK     R.V.
--------------------         (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):     0.13   0.017     6.33    97.90
     + ID2= 2 (  0205):     0.02   0.004     6.37    61.38
       ==========================================
       ID = 3 (  0007):     0.16   0.021     6.33    92.73

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I      SS   U   U  AAAAA  L
        V  V    I       SS  U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\8b52c3ee-9c
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\8b52c3ee-9c


DATE: 04-17-2023                          TIME: 01:25:46

USER:
```

COMMENTS: _____

```
  ************************************************
  ** SIMULATION : T) 2yr 24hr 15min SCS Type II **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\207475f0
| Ptotal= 55.43 mm |    Comments: 2yr 24hr 15min SCS Type II (MTO)
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	1.00	12.75	7.98	19.00	1.00
0.50	0.61	6.75	1.00	13.00	4.10	19.25	1.00
0.75	0.61	7.00	1.00	13.25	4.10	19.50	1.00
1.00	0.61	7.25	1.00	13.50	2.99	19.75	1.00
1.25	0.61	7.50	1.22	13.75	2.99	20.00	1.00
1.50	0.61	7.75	1.22	14.00	2.33	20.25	1.00
1.75	0.61	8.00	1.22	14.25	2.33	20.50	0.67
2.00	0.61	8.25	1.22	14.50	1.66	20.75	0.67
2.25	0.61	8.50	1.44	14.75	1.66	21.00	0.67
2.50	0.72	8.75	1.44	15.00	1.66	21.25	0.67
2.75	0.72	9.00	1.55	15.25	1.66	21.50	0.67
3.00	0.72	9.25	1.55	15.50	1.66	21.75	0.67
3.25	0.72	9.50	1.77	15.75	1.66	22.00	0.67
3.50	0.72	9.75	1.77	16.00	1.66	22.25	0.67
3.75	0.72	10.00	2.00	16.25	1.66	22.50	0.67
4.00	0.72	10.25	2.00	16.50	1.00	22.75	0.67
4.25	0.72	10.50	2.55	16.75	1.00	23.00	0.67
4.50	0.89	10.75	2.55	17.00	1.00	23.25	0.67
4.75	0.89	11.00	3.44	17.25	1.00	23.50	0.67
5.00	0.89	11.25	3.44	17.50	1.00	23.75	0.67
5.25	0.89	11.50	5.32	17.75	1.00	24.00	0.67
5.50	0.89	11.75	5.32	18.00	1.00	24.25	0.67
5.75	0.89	12.00	16.41	18.25	1.00		
6.00	0.89	12.25	67.85	18.50	1.00		
6.25	0.89	12.50	7.98	18.75	1.00		

```
--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number    (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                        ---- TRANSFORMED HYETOGRAPH ----
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00

0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00
0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00
1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00
1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00
1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67
2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67
2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67

3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67
3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67
3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67
3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67
4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67
4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67
5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67

6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 12.467
RUNOFF VOLUME (mm)= 12.986
TOTAL RAINFALL (mm)= 55.430
RUNOFF COEFFICIENT = 0.234

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0201)	Area (ha)=	0.17
ID= 1 DT= 1.0 min	Total Imp(%)=	78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00
0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00
0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00
1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00
1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00
1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67
2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67

2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67
3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67
3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67
3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67
3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67
4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67
4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67

5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67
6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

Max.Eff.Inten.(mm/hr)=		67.85	22.83	
over (min)		5.00	5.00	
Storage Coeff. (min)=		1.55 (ii)	4.97 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00	
Unit Hyd. peak (cms)=		0.41	0.23	
				TOTALS
PEAK FLOW	(cms)=	0.02	0.00	0.027 (iii)
TIME TO PEAK	(hrs)=	12.25	12.27	12.25
RUNOFF VOLUME	(mm)=	53.43	15.46	45.07
TOTAL RAINFALL	(mm)=	55.43	55.43	55.43
RUNOFF COEFFICIENT	=	0.96	0.28	0.81

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area	(ha)=	0.11
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00
0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00
0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00

1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00
1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00
1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67
2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67
2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67
3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67
3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67

3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67
3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67
4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67
4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67
5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67
6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

			TOTALS
Max.Eff.Inten.(mm/hr)=	67.85	22.83	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.09 (ii)	4.25 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.46	0.25	
PEAK FLOW (cms)=	0.02	0.00	0.017 (iii)
TIME TO PEAK (hrs)=	12.25	12.27	12.25
RUNOFF VOLUME (mm)=	53.43	15.46	46.20
TOTAL RAINFALL (mm)=	55.43	55.43	55.43
RUNOFF COEFFICIENT =	0.96	0.28	0.83

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.027	12.25	45.07
+ ID2= 2 (0202):		0.11	0.017	12.25	46.20
ID = 3 (0010):		0.27	0.044	12.25	45.50

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082

0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.044	12.25	45.50
OUTFLOW: ID= 1 (0012)	0.275	0.015	12.33	44.68

PEAK FLOW REDUCTION [Qout/Qin](%)= 32.95
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0045

ADD HYD (0014)

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.015	12.33	44.68
+ ID2= 2 (0204):	0.06	0.002	12.47	12.99
ID = 3 (0014):	0.34	0.016	12.35	39.44

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
NASHYD (0205)
ID= 1 DT= 1.0 min

Area (ha)= 0.02 Curve Number (CN)= 74.0
Ia (mm)= 4.56 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00
0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00
0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00
1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00
1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00
1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67

2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67
2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67
3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67
3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67
3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67
3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67
4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67

4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67
5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67
6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.001 (i)
TIME TO PEAK (hrs)= 12.383
RUNOFF VOLUME (mm)= 14.662
TOTAL RAINFALL (mm)= 55.430
RUNOFF COEFFICIENT = 0.265

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB

STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	0.89	12.150	67.85	18.22	1.00
0.033	0.00	6.100	0.89	12.167	67.85	18.23	1.00
0.050	0.00	6.117	0.89	12.183	67.85	18.25	1.00
0.067	0.00	6.133	0.89	12.200	67.85	18.27	1.00
0.083	0.00	6.150	0.89	12.217	67.85	18.28	1.00
0.100	0.00	6.167	0.89	12.233	67.85	18.30	1.00
0.117	0.00	6.183	0.89	12.250	67.85	18.32	1.00
0.133	0.00	6.200	0.89	12.267	8.04	18.33	1.00
0.150	0.00	6.217	0.89	12.283	7.98	18.35	1.00
0.167	0.00	6.233	0.89	12.300	7.98	18.37	1.00
0.183	0.00	6.250	0.89	12.317	7.98	18.38	1.00
0.200	0.00	6.267	1.00	12.333	7.98	18.40	1.00
0.217	0.00	6.283	1.00	12.350	7.98	18.42	1.00
0.233	0.00	6.300	1.00	12.367	7.98	18.43	1.00
0.250	0.00	6.317	1.00	12.383	7.98	18.45	1.00
0.267	0.61	6.333	1.00	12.400	7.98	18.47	1.00
0.283	0.61	6.350	1.00	12.417	7.98	18.48	1.00
0.300	0.61	6.367	1.00	12.433	7.98	18.50	1.00
0.317	0.61	6.383	1.00	12.450	7.98	18.52	1.00
0.333	0.61	6.400	1.00	12.467	7.98	18.53	1.00
0.350	0.61	6.417	1.00	12.483	7.98	18.55	1.00
0.367	0.61	6.433	1.00	12.500	7.98	18.57	1.00
0.383	0.61	6.450	1.00	12.517	7.98	18.58	1.00
0.400	0.61	6.467	1.00	12.533	7.98	18.60	1.00
0.417	0.61	6.483	1.00	12.550	7.98	18.62	1.00
0.433	0.61	6.500	1.00	12.567	7.98	18.63	1.00
0.450	0.61	6.517	1.00	12.583	7.98	18.65	1.00
0.467	0.61	6.533	1.00	12.600	7.98	18.67	1.00
0.483	0.61	6.550	1.00	12.617	7.98	18.68	1.00
0.500	0.61	6.567	1.00	12.633	7.98	18.70	1.00
0.517	0.61	6.583	1.00	12.650	7.98	18.72	1.00
0.533	0.61	6.600	1.00	12.667	7.98	18.73	1.00
0.550	0.61	6.617	1.00	12.683	7.98	18.75	1.00
0.567	0.61	6.633	1.00	12.700	7.98	18.77	1.00
0.583	0.61	6.650	1.00	12.717	7.98	18.78	1.00
0.600	0.61	6.667	1.00	12.733	7.98	18.80	1.00
0.617	0.61	6.683	1.00	12.750	7.98	18.82	1.00
0.633	0.61	6.700	1.00	12.767	4.11	18.83	1.00
0.650	0.61	6.717	1.00	12.783	4.10	18.85	1.00
0.667	0.61	6.733	1.00	12.800	4.10	18.87	1.00
0.683	0.61	6.750	1.00	12.817	4.10	18.88	1.00
0.700	0.61	6.767	1.00	12.833	4.10	18.90	1.00
0.717	0.61	6.783	1.00	12.850	4.10	18.92	1.00
0.733	0.61	6.800	1.00	12.867	4.10	18.93	1.00
0.750	0.61	6.817	1.00	12.883	4.10	18.95	1.00
0.767	0.61	6.833	1.00	12.900	4.10	18.97	1.00
0.783	0.61	6.850	1.00	12.917	4.10	18.98	1.00
0.800	0.61	6.867	1.00	12.933	4.10	19.00	1.00
0.817	0.61	6.883	1.00	12.950	4.10	19.02	1.00
0.833	0.61	6.900	1.00	12.967	4.10	19.03	1.00
0.850	0.61	6.917	1.00	12.983	4.10	19.05	1.00
0.867	0.61	6.933	1.00	13.000	4.10	19.07	1.00
0.883	0.61	6.950	1.00	13.017	4.10	19.08	1.00
0.900	0.61	6.967	1.00	13.033	4.10	19.10	1.00
0.917	0.61	6.983	1.00	13.050	4.10	19.12	1.00
0.933	0.61	7.000	1.00	13.067	4.10	19.13	1.00
0.950	0.61	7.017	1.00	13.083	4.10	19.15	1.00
0.967	0.61	7.033	1.00	13.100	4.10	19.17	1.00
0.983	0.61	7.050	1.00	13.117	4.10	19.18	1.00
1.000	0.61	7.067	1.00	13.133	4.10	19.20	1.00
1.017	0.61	7.083	1.00	13.150	4.10	19.22	1.00
1.033	0.61	7.100	1.00	13.167	4.10	19.23	1.00
1.050	0.61	7.117	1.00	13.183	4.10	19.25	1.00
1.067	0.61	7.133	1.00	13.200	4.10	19.27	1.00
1.083	0.61	7.150	1.00	13.217	4.10	19.28	1.00
1.100	0.61	7.167	1.00	13.233	4.10	19.30	1.00
1.117	0.61	7.183	1.00	13.250	4.10	19.32	1.00
1.133	0.61	7.200	1.00	13.267	3.00	19.33	1.00

1.150	0.61	7.217	1.00	13.283	2.99	19.35	1.00
1.167	0.61	7.233	1.00	13.300	2.99	19.37	1.00
1.183	0.61	7.250	1.00	13.317	2.99	19.38	1.00
1.200	0.61	7.267	1.22	13.333	2.99	19.40	1.00
1.217	0.61	7.283	1.22	13.350	2.99	19.42	1.00
1.233	0.61	7.300	1.22	13.367	2.99	19.43	1.00
1.250	0.61	7.317	1.22	13.383	2.99	19.45	1.00
1.267	0.61	7.333	1.22	13.400	2.99	19.47	1.00
1.283	0.61	7.350	1.22	13.417	2.99	19.48	1.00
1.300	0.61	7.367	1.22	13.433	2.99	19.50	1.00
1.317	0.61	7.383	1.22	13.450	2.99	19.52	1.00
1.333	0.61	7.400	1.22	13.467	2.99	19.53	1.00
1.350	0.61	7.417	1.22	13.483	2.99	19.55	1.00
1.367	0.61	7.433	1.22	13.500	2.99	19.57	1.00
1.383	0.61	7.450	1.22	13.517	2.99	19.58	1.00
1.400	0.61	7.467	1.22	13.533	2.99	19.60	1.00
1.417	0.61	7.483	1.22	13.550	2.99	19.62	1.00
1.433	0.61	7.500	1.22	13.567	2.99	19.63	1.00
1.450	0.61	7.517	1.22	13.583	2.99	19.65	1.00
1.467	0.61	7.533	1.22	13.600	2.99	19.67	1.00
1.483	0.61	7.550	1.22	13.617	2.99	19.68	1.00
1.500	0.61	7.567	1.22	13.633	2.99	19.70	1.00
1.517	0.61	7.583	1.22	13.650	2.99	19.72	1.00
1.533	0.61	7.600	1.22	13.667	2.99	19.73	1.00
1.550	0.61	7.617	1.22	13.683	2.99	19.75	1.00
1.567	0.61	7.633	1.22	13.700	2.99	19.77	1.00
1.583	0.61	7.650	1.22	13.717	2.99	19.78	1.00
1.600	0.61	7.667	1.22	13.733	2.99	19.80	1.00
1.617	0.61	7.683	1.22	13.750	2.99	19.82	1.00
1.633	0.61	7.700	1.22	13.767	2.33	19.83	1.00
1.650	0.61	7.717	1.22	13.783	2.33	19.85	1.00
1.667	0.61	7.733	1.22	13.800	2.33	19.87	1.00
1.683	0.61	7.750	1.22	13.817	2.33	19.88	1.00
1.700	0.61	7.767	1.22	13.833	2.33	19.90	1.00
1.717	0.61	7.783	1.22	13.850	2.33	19.92	1.00
1.733	0.61	7.800	1.22	13.867	2.33	19.93	1.00
1.750	0.61	7.817	1.22	13.883	2.33	19.95	1.00
1.767	0.61	7.833	1.22	13.900	2.33	19.97	1.00
1.783	0.61	7.850	1.22	13.917	2.33	19.98	1.00
1.800	0.61	7.867	1.22	13.933	2.33	20.00	1.00
1.817	0.61	7.883	1.22	13.950	2.33	20.02	1.00
1.833	0.61	7.900	1.22	13.967	2.33	20.03	1.00
1.850	0.61	7.917	1.22	13.983	2.33	20.05	1.00
1.867	0.61	7.933	1.22	14.000	2.33	20.07	1.00
1.883	0.61	7.950	1.22	14.017	2.33	20.08	1.00
1.900	0.61	7.967	1.22	14.033	2.33	20.10	1.00
1.917	0.61	7.983	1.22	14.050	2.33	20.12	1.00
1.933	0.61	8.000	1.22	14.067	2.33	20.13	1.00
1.950	0.61	8.017	1.22	14.083	2.33	20.15	1.00
1.967	0.61	8.033	1.22	14.100	2.33	20.17	1.00
1.983	0.61	8.050	1.22	14.117	2.33	20.18	1.00
2.000	0.61	8.067	1.22	14.133	2.33	20.20	1.00
2.017	0.61	8.083	1.22	14.150	2.33	20.22	1.00
2.033	0.61	8.100	1.22	14.167	2.33	20.23	1.00
2.050	0.61	8.117	1.22	14.183	2.33	20.25	1.00
2.067	0.61	8.133	1.22	14.200	2.33	20.27	0.67
2.083	0.61	8.150	1.22	14.217	2.33	20.28	0.67
2.100	0.61	8.167	1.22	14.233	2.33	20.30	0.67
2.117	0.61	8.183	1.22	14.250	2.33	20.32	0.67
2.133	0.61	8.200	1.22	14.267	1.66	20.33	0.67
2.150	0.61	8.217	1.22	14.283	1.66	20.35	0.67
2.167	0.61	8.233	1.22	14.300	1.66	20.37	0.67
2.183	0.61	8.250	1.22	14.317	1.66	20.38	0.67
2.200	0.61	8.267	1.44	14.333	1.66	20.40	0.67
2.217	0.61	8.283	1.44	14.350	1.66	20.42	0.67
2.233	0.61	8.300	1.44	14.367	1.66	20.43	0.67
2.250	0.61	8.317	1.44	14.383	1.66	20.45	0.67
2.267	0.72	8.333	1.44	14.400	1.66	20.47	0.67
2.283	0.72	8.350	1.44	14.417	1.66	20.48	0.67
2.300	0.72	8.367	1.44	14.433	1.66	20.50	0.67
2.317	0.72	8.383	1.44	14.450	1.66	20.52	0.67
2.333	0.72	8.400	1.44	14.467	1.66	20.53	0.67
2.350	0.72	8.417	1.44	14.483	1.66	20.55	0.67
2.367	0.72	8.433	1.44	14.500	1.66	20.57	0.67
2.383	0.72	8.450	1.44	14.517	1.66	20.58	0.67
2.400	0.72	8.467	1.44	14.533	1.66	20.60	0.67
2.417	0.72	8.483	1.44	14.550	1.66	20.62	0.67
2.433	0.72	8.500	1.44	14.567	1.66	20.63	0.67
2.450	0.72	8.517	1.44	14.583	1.66	20.65	0.67
2.467	0.72	8.533	1.44	14.600	1.66	20.67	0.67
2.483	0.72	8.550	1.44	14.617	1.66	20.68	0.67
2.500	0.72	8.567	1.44	14.633	1.66	20.70	0.67
2.517	0.72	8.583	1.44	14.650	1.66	20.72	0.67
2.533	0.72	8.600	1.44	14.667	1.66	20.73	0.67
2.550	0.72	8.617	1.44	14.683	1.66	20.75	0.67
2.567	0.72	8.633	1.44	14.700	1.66	20.77	0.67
2.583	0.72	8.650	1.44	14.717	1.66	20.78	0.67
2.600	0.72	8.667	1.44	14.733	1.66	20.80	0.67
2.617	0.72	8.683	1.44	14.750	1.66	20.82	0.67
2.633	0.72	8.700	1.44	14.767	1.66	20.83	0.67
2.650	0.72	8.717	1.44	14.783	1.66	20.85	0.67
2.667	0.72	8.733	1.44	14.800	1.66	20.87	0.67
2.683	0.72	8.750	1.44	14.817	1.66	20.88	0.67
2.700	0.72	8.767	1.55	14.833	1.66	20.90	0.67
2.717	0.72	8.783	1.55	14.850	1.66	20.92	0.67
2.733	0.72	8.800	1.55	14.867	1.66	20.93	0.67
2.750	0.72	8.817	1.55	14.883	1.66	20.95	0.67
2.767	0.72	8.833	1.55	14.900	1.66	20.97	0.67
2.783	0.72	8.850	1.55	14.917	1.66	20.98	0.67
2.800	0.72	8.867	1.55	14.933	1.66	21.00	0.67
2.817	0.72	8.883	1.55	14.950	1.66	21.02	0.67
2.833	0.72	8.900	1.55	14.967	1.66	21.03	0.67
2.850	0.72	8.917	1.55	14.983	1.66	21.05	0.67
2.867	0.72	8.933	1.55	15.000	1.66	21.07	0.67
2.883	0.72	8.950	1.55	15.017	1.66	21.08	0.67
2.900	0.72	8.967	1.55	15.033	1.66	21.10	0.67
2.917	0.72	8.983	1.55	15.050	1.66	21.12	0.67
2.933	0.72	9.000	1.55	15.067	1.66	21.13	0.67
2.950	0.72	9.017	1.55	15.083	1.66	21.15	0.67
2.967	0.72	9.033	1.55	15.100	1.66	21.17	0.67
2.983	0.72	9.050	1.55	15.117	1.66	21.18	0.67
3.000	0.72	9.067	1.55	15.133	1.66	21.20	0.67
3.017	0.72	9.083	1.55	15.150	1.66	21.22	0.67
3.033	0.72	9.100	1.55	15.167	1.66	21.23	0.67
3.050	0.72	9.117	1.55	15.183	1.66	21.25	0.67
3.067	0.72	9.133	1.55	15.200	1.66	21.27	0.67
3.083	0.72	9.150	1.55	15.217	1.66	21.28	0.67
3.100	0.72	9.167	1.55	15.233	1.66	21.30	0.67
3.117	0.72	9.183	1.55	15.250	1.66	21.32	0.67
3.133	0.72	9.200	1.55	15.267	1.66	21.33	0.67
3.150	0.72	9.217	1.55	15.283	1.66	21.35	0.67
3.167	0.72	9.233	1.55	15.300	1.66	21.37	0.67
3.183	0.72	9.250	1.55	15.317	1.66	21.38	0.67
3.200	0.72	9.267	1.77	15.333	1.66	21.40	0.67
3.217	0.72	9.283	1.77	15.350	1.66	21.42	0.67
3.233	0.72	9.300	1.77	15.367	1.66	21.43	0.67
3.250	0.72	9.317	1.77	15.383	1.66	21.45	0.67
3.267	0.72	9.333	1.77	15.400	1.66	21.47	0.67
3.283	0.72	9.350	1.77	15.417	1.66	21.48	0.67
3.300	0.72	9.367	1.77	15.433	1.66	21.50	0.67
3.317	0.72	9.383	1.77	15.450	1.66	21.52	0.67
3.333	0.72	9.400	1.77	15.467	1.66	21.53	0.67
3.350	0.72	9.417	1.77	15.483	1.66	21.55	0.67
3.367	0.72	9.433	1.77	15.500	1.66	21.57	0.67
3.383	0.72	9.450	1.77	15.517	1.66	21.58	0.67
3.400	0.72	9.467	1.77	15.533	1.66	21.60	0.67
3.417	0.72	9.483	1.77	15.550	1.66	21.62	0.67
3.433	0.72	9.500	1.77	15.567	1.66	21.63	0.67
3.450	0.72	9.517	1.77	15.583	1.66	21.65	0.67
3.467	0.72	9.533	1.77	15.600	1.66	21.67	0.67
3.483	0.72	9.550	1.77	15.617	1.66	21.68	0.67
3.500	0.72	9.567	1.77	15.633	1.66	21.70	0.67
3.517	0.72	9.583	1.77	15.650	1.66	21.72	0.67
3.533	0.72	9.600	1.77	15.667	1.66	21.73	0.67
3.550	0.72	9.617	1.77	15.683	1.66	21.75	0.67
3.567	0.72	9.633	1.77	15.700	1.66	21.77	0.67
3.583	0.72	9.650	1.77	15.717	1.66	21.78	0.67
3.600	0.72	9.667	1.77	15.733	1.66	21.80	0.67
3.617	0.72	9.683	1.77	15.750	1.66	21.82	0.67
3.633	0.72	9.700	1.77	15.767	1.66	21.83	0.67
3.650	0.72	9.717	1.77	15.783	1.66	21.85	0.67
3.667	0.72	9.733	1.77	15.800	1.66	21.87	0.67
3.683	0.72	9.750	1.77	15.817	1.66	21.88	0.67
3.700	0.72	9.767	2.00	15.833	1.66	21.90	0.67
3.717	0.72	9.783	2.00	15.850	1.66	21.92	0.67
3.733	0.72	9.800	2.00	15.867	1.66	21.93	0.67
3.750	0.72	9.817	2.00	15.883	1.66	21.95	0.67
3.767	0.72	9.833	2.00	15.900	1.66	21.97	0.67
3.783	0.72	9.850	2.00	15.917	1.66	21.98	0.67
3.800	0.72	9.867	2.00	15.933	1.66	22.00	0.67
3.817	0.72	9.883	2.00	15.950	1.66	22.02	0.67
3.833	0.72	9.900	2.00	15.967	1.66	22.03	0.67
3.850	0.72	9.917	2.00	15.983	1.66	22.05	0.67
3.867	0.72	9.933	2.00	16.000	1.66	22.07	0.67
3.883	0.72	9.950	2.00	16.017	1.66	22.08	0.67
3.900	0.72	9.967	2.00	16.033	1.66	22.10	0.67
3.917	0.72	9.983	2.00	16.050	1.66	22.12	0.67
3.933	0.72	10.000	2.00	16.067	1.66	22.13	0.67

3.950	0.72	10.017	2.00	16.083	1.66	22.15	0.67
3.967	0.72	10.033	2.00	16.100	1.66	22.17	0.67
3.983	0.72	10.050	2.00	16.117	1.66	22.18	0.67
4.000	0.72	10.067	2.00	16.133	1.66	22.20	0.67
4.017	0.72	10.083	2.00	16.150	1.66	22.22	0.67
4.033	0.72	10.100	2.00	16.167	1.66	22.23	0.67
4.050	0.72	10.117	2.00	16.183	1.66	22.25	0.67
4.067	0.72	10.133	2.00	16.200	1.66	22.27	0.67
4.083	0.72	10.150	2.00	16.217	1.66	22.28	0.67
4.100	0.72	10.167	2.00	16.233	1.66	22.30	0.67
4.117	0.72	10.183	2.00	16.250	1.66	22.32	0.67
4.133	0.72	10.200	2.00	16.267	1.00	22.33	0.67
4.150	0.72	10.217	2.00	16.283	1.00	22.35	0.67
4.167	0.72	10.233	2.00	16.300	1.00	22.37	0.67
4.183	0.72	10.250	2.00	16.317	1.00	22.38	0.67
4.200	0.72	10.267	2.55	16.333	1.00	22.40	0.67
4.217	0.72	10.283	2.55	16.350	1.00	22.42	0.67
4.233	0.72	10.300	2.55	16.367	1.00	22.43	0.67
4.250	0.72	10.317	2.55	16.383	1.00	22.45	0.67
4.267	0.89	10.333	2.55	16.400	1.00	22.47	0.67
4.283	0.89	10.350	2.55	16.417	1.00	22.48	0.67
4.300	0.89	10.367	2.55	16.433	1.00	22.50	0.67
4.317	0.89	10.383	2.55	16.450	1.00	22.52	0.67
4.333	0.89	10.400	2.55	16.467	1.00	22.53	0.67
4.350	0.89	10.417	2.55	16.483	1.00	22.55	0.67
4.367	0.89	10.433	2.55	16.500	1.00	22.57	0.67
4.383	0.89	10.450	2.55	16.517	1.00	22.58	0.67
4.400	0.89	10.467	2.55	16.533	1.00	22.60	0.67
4.417	0.89	10.483	2.55	16.550	1.00	22.62	0.67
4.433	0.89	10.500	2.55	16.567	1.00	22.63	0.67
4.450	0.89	10.517	2.55	16.583	1.00	22.65	0.67
4.467	0.89	10.533	2.55	16.600	1.00	22.67	0.67
4.483	0.89	10.550	2.55	16.617	1.00	22.68	0.67
4.500	0.89	10.567	2.55	16.633	1.00	22.70	0.67
4.517	0.89	10.583	2.55	16.650	1.00	22.72	0.67
4.533	0.89	10.600	2.55	16.667	1.00	22.73	0.67
4.550	0.89	10.617	2.55	16.683	1.00	22.75	0.67
4.567	0.89	10.633	2.55	16.700	1.00	22.77	0.67
4.583	0.89	10.650	2.55	16.717	1.00	22.78	0.67
4.600	0.89	10.667	2.55	16.733	1.00	22.80	0.67
4.617	0.89	10.683	2.55	16.750	1.00	22.82	0.67
4.633	0.89	10.700	2.55	16.767	1.00	22.83	0.67
4.650	0.89	10.717	2.55	16.783	1.00	22.85	0.67
4.667	0.89	10.733	2.55	16.800	1.00	22.87	0.67
4.683	0.89	10.750	2.55	16.817	1.00	22.88	0.67
4.700	0.89	10.767	3.44	16.833	1.00	22.90	0.67
4.717	0.89	10.783	3.44	16.850	1.00	22.92	0.67
4.733	0.89	10.800	3.44	16.867	1.00	22.93	0.67
4.750	0.89	10.817	3.44	16.883	1.00	22.95	0.67
4.767	0.89	10.833	3.44	16.900	1.00	22.97	0.67
4.783	0.89	10.850	3.44	16.917	1.00	22.98	0.67
4.800	0.89	10.867	3.44	16.933	1.00	23.00	0.67
4.817	0.89	10.883	3.44	16.950	1.00	23.02	0.67
4.833	0.89	10.900	3.44	16.967	1.00	23.03	0.67
4.850	0.89	10.917	3.44	16.983	1.00	23.05	0.67
4.867	0.89	10.933	3.44	17.000	1.00	23.07	0.67
4.883	0.89	10.950	3.44	17.017	1.00	23.08	0.67
4.900	0.89	10.967	3.44	17.033	1.00	23.10	0.67
4.917	0.89	10.983	3.44	17.050	1.00	23.12	0.67
4.933	0.89	11.000	3.44	17.067	1.00	23.13	0.67
4.950	0.89	11.017	3.44	17.083	1.00	23.15	0.67
4.967	0.89	11.033	3.44	17.100	1.00	23.17	0.67
4.983	0.89	11.050	3.44	17.117	1.00	23.18	0.67
5.000	0.89	11.067	3.44	17.133	1.00	23.20	0.67
5.017	0.89	11.083	3.44	17.150	1.00	23.22	0.67
5.033	0.89	11.100	3.44	17.167	1.00	23.23	0.67
5.050	0.89	11.117	3.44	17.183	1.00	23.25	0.67
5.067	0.89	11.133	3.44	17.200	1.00	23.27	0.67
5.083	0.89	11.150	3.44	17.217	1.00	23.28	0.67
5.100	0.89	11.167	3.44	17.233	1.00	23.30	0.67
5.117	0.89	11.183	3.44	17.250	1.00	23.32	0.67
5.133	0.89	11.200	3.44	17.267	1.00	23.33	0.67
5.150	0.89	11.217	3.44	17.283	1.00	23.35	0.67
5.167	0.89	11.233	3.44	17.300	1.00	23.37	0.67
5.183	0.89	11.250	3.44	17.317	1.00	23.38	0.67
5.200	0.89	11.267	5.32	17.333	1.00	23.40	0.67
5.217	0.89	11.283	5.32	17.350	1.00	23.42	0.67
5.233	0.89	11.300	5.32	17.367	1.00	23.43	0.67
5.250	0.89	11.317	5.32	17.383	1.00	23.45	0.67
5.267	0.89	11.333	5.32	17.400	1.00	23.47	0.67
5.283	0.89	11.350	5.32	17.417	1.00	23.48	0.67
5.300	0.89	11.367	5.32	17.433	1.00	23.50	0.67
5.317	0.89	11.383	5.32	17.450	1.00	23.52	0.67
5.333	0.89	11.400	5.32	17.467	1.00	23.53	0.67
5.350	0.89	11.417	5.32	17.483	1.00	23.55	0.67
5.367	0.89	11.433	5.32	17.500	1.00	23.57	0.67
5.383	0.89	11.450	5.32	17.517	1.00	23.58	0.67
5.400	0.89	11.467	5.32	17.533	1.00	23.60	0.67
5.417	0.89	11.483	5.32	17.550	1.00	23.62	0.67
5.433	0.89	11.500	5.32	17.567	1.00	23.63	0.67
5.450	0.89	11.517	5.32	17.583	1.00	23.65	0.67
5.467	0.89	11.533	5.32	17.600	1.00	23.67	0.67
5.483	0.89	11.550	5.32	17.617	1.00	23.68	0.67
5.500	0.89	11.567	5.32	17.633	1.00	23.70	0.67
5.517	0.89	11.583	5.32	17.650	1.00	23.72	0.67
5.533	0.89	11.600	5.32	17.667	1.00	23.73	0.67
5.550	0.89	11.617	5.32	17.683	1.00	23.75	0.67
5.567	0.89	11.633	5.32	17.700	1.00	23.77	0.67
5.583	0.89	11.650	5.32	17.717	1.00	23.78	0.67
5.600	0.89	11.667	5.32	17.733	1.00	23.80	0.67
5.617	0.89	11.683	5.32	17.750	1.00	23.82	0.67
5.633	0.89	11.700	5.32	17.767	1.00	23.83	0.67
5.650	0.89	11.717	5.32	17.783	1.00	23.85	0.67
5.667	0.89	11.733	5.32	17.800	1.00	23.87	0.67
5.683	0.89	11.750	5.32	17.817	1.00	23.88	0.67
5.700	0.89	11.767	16.40	17.833	1.00	23.90	0.67
5.717	0.89	11.783	16.41	17.850	1.00	23.92	0.67
5.733	0.89	11.800	16.41	17.867	1.00	23.93	0.67
5.750	0.89	11.817	16.41	17.883	1.00	23.95	0.67
5.767	0.89	11.833	16.41	17.900	1.00	23.97	0.67
5.783	0.89	11.850	16.41	17.917	1.00	23.98	0.67
5.800	0.89	11.867	16.41	17.933	1.00	24.00	0.67
5.817	0.89	11.883	16.41	17.950	1.00	24.02	0.67
5.833	0.89	11.900	16.41	17.967	1.00	24.03	0.67
5.850	0.89	11.917	16.41	17.983	1.00	24.05	0.67
5.867	0.89	11.933	16.41	18.000	1.00	24.07	0.67
5.883	0.89	11.950	16.41	18.017	1.00	24.08	0.67
5.900	0.89	11.967	16.41	18.033	1.00	24.10	0.67
5.917	0.89	11.983	16.41	18.050	1.00	24.12	0.67
5.933	0.89	12.000	16.41	18.067	1.00	24.13	0.67
5.950	0.89	12.017	67.81	18.083	1.00	24.15	0.67
5.967	0.89	12.033	67.85	18.100	1.00	24.17	0.67
5.983	0.89	12.050	67.85	18.117	1.00	24.18	0.67
6.000	0.89	12.067	67.85	18.133	1.00	24.20	0.67
6.017	0.89	12.083	67.85	18.150	1.00	24.22	0.67
6.033	0.89	12.100	67.85	18.167	1.00	24.23	0.67
6.050	0.89	12.117	67.85	18.183	1.00	24.25	0.67
6.067	0.89	12.133	67.85	18.200	1.00		

Max.Eff.Inten.(mm/hr)=	67.85	22.83	
over (min)	5.00	3.00	
Storage Coeff. (min)=	1.17 (ii)	2.89 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.45	0.38	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.021 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	53.43	15.46	43.93
TOTAL RAINFALL (mm)=	55.43	55.43	55.43
RUNOFF COEFFICIENT =	0.96	0.28	0.79

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 1.0 min	

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.021	12.25	43.93
OUTFLOW: ID= 1 (0015)	0.133	0.010	12.32	43.28

```
                PEAK   FLOW   REDUCTION [Qout/Qin](%)= 48.07
                TIME SHIFT OF PEAK FLOW         (min)=  4.00
                MAXIMUM  STORAGE   USED       (ha.m.)=  0.0017

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
-------------------           (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):      0.13    0.010    12.32    43.28
     + ID2= 2 (  0205):      0.02    0.001    12.38    14.66
       ==========================================================
       ID = 3 (  0007):      0.16    0.011    12.32    39.77

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I      SS   U   U  AAAAA  L
        V  V    I       SS  U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\1a3437ec-4b
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\1a3437ec-4b


DATE: 04-17-2023                          TIME: 01:25:43

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : U) 5yr 24hr 15min SCS Type II **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\6f87c807
| Ptotal= 77.82 mm |    Comments: 5yr 24hr 15min SCS Type II (MTO)
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	1.40	12.75	11.21	19.00	1.40
0.50	0.86	6.75	1.40	13.00	5.76	19.25	1.40
0.75	0.86	7.00	1.40	13.25	5.76	19.50	1.40
1.00	0.86	7.25	1.40	13.50	4.20	19.75	1.40
1.25	0.86	7.50	1.71	13.75	4.20	20.00	1.40
1.50	0.86	7.75	1.71	14.00	3.27	20.25	1.40
1.75	0.86	8.00	1.71	14.25	3.27	20.50	0.93
2.00	0.86	8.25	1.71	14.50	2.33	20.75	0.93
2.25	0.86	8.50	2.02	14.75	2.33	21.00	0.93
2.50	1.01	8.75	2.02	15.00	2.33	21.25	0.93
2.75	1.01	9.00	2.18	15.25	2.33	21.50	0.93
3.00	1.01	9.25	2.18	15.50	2.33	21.75	0.93
3.25	1.01	9.50	2.49	15.75	2.33	22.00	0.93
3.50	1.01	9.75	2.49	16.00	2.33	22.25	0.93
3.75	1.01	10.00	2.80	16.25	2.33	22.50	0.93
4.00	1.01	10.25	2.80	16.50	1.40	22.75	0.93
4.25	1.01	10.50	3.58	16.75	1.40	23.00	0.93
4.50	1.25	10.75	3.58	17.00	1.40	23.25	0.93
4.75	1.25	11.00	4.82	17.25	1.40	23.50	0.93
5.00	1.25	11.25	4.82	17.50	1.40	23.75	0.93
5.25	1.25	11.50	7.47	17.75	1.40	24.00	0.93
5.50	1.25	11.75	7.47	18.00	1.40	24.25	0.93
5.75	1.25	12.00	23.03	18.25	1.40		
6.00	1.25	12.25	95.25	18.50	1.40		
6.25	1.25	12.50	11.21	18.75	1.40		

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| CALIB            |
| NASHYD   (  0204)|   Area     (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia       (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40
0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40
0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40

1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40
1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40
1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40
1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93
2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93
2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93
3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93

3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93
4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93
4.583	1.25	10.650	3.58	16.717	1.40	22.78	0.93
4.600	1.25	10.667	3.58	16.733	1.40	22.80	0.93
4.617	1.25	10.683	3.58	16.750	1.40	22.82	0.93
4.633	1.25	10.700	3.58	16.767	1.40	22.83	0.93
4.650	1.25	10.717	3.58	16.783	1.40	22.85	0.93
4.667	1.25	10.733	3.58	16.800	1.40	22.87	0.93
4.683	1.25	10.750	3.58	16.817	1.40	22.88	0.93
4.700	1.25	10.767	4.82	16.833	1.40	22.90	0.93
4.717	1.25	10.783	4.82	16.850	1.40	22.92	0.93
4.733	1.25	10.800	4.82	16.867	1.40	22.93	0.93
4.750	1.25	10.817	4.82	16.883	1.40	22.95	0.93
4.767	1.25	10.833	4.82	16.900	1.40	22.97	0.93
4.783	1.25	10.850	4.82	16.917	1.40	22.98	0.93
4.800	1.25	10.867	4.82	16.933	1.40	23.00	0.93
4.817	1.25	10.883	4.82	16.950	1.40	23.02	0.93
4.833	1.25	10.900	4.82	16.967	1.40	23.03	0.93
4.850	1.25	10.917	4.82	16.983	1.40	23.05	0.93
4.867	1.25	10.933	4.82	17.000	1.40	23.07	0.93
4.883	1.25	10.950	4.82	17.017	1.40	23.08	0.93
4.900	1.25	10.967	4.82	17.033	1.40	23.10	0.93
4.917	1.25	10.983	4.82	17.050	1.40	23.12	0.93
4.933	1.25	11.000	4.82	17.067	1.40	23.13	0.93
4.950	1.25	11.017	4.82	17.083	1.40	23.15	0.93
4.967	1.25	11.033	4.82	17.100	1.40	23.17	0.93
4.983	1.25	11.050	4.82	17.117	1.40	23.18	0.93
5.000	1.25	11.067	4.82	17.133	1.40	23.20	0.93
5.017	1.25	11.083	4.82	17.150	1.40	23.22	0.93
5.033	1.25	11.100	4.82	17.167	1.40	23.23	0.93
5.050	1.25	11.117	4.82	17.183	1.40	23.25	0.93
5.067	1.25	11.133	4.82	17.200	1.40	23.27	0.93
5.083	1.25	11.150	4.82	17.217	1.40	23.28	0.93
5.100	1.25	11.167	4.82	17.233	1.40	23.30	0.93
5.117	1.25	11.183	4.82	17.250	1.40	23.32	0.93
5.133	1.25	11.200	4.82	17.267	1.40	23.33	0.93
5.150	1.25	11.217	4.82	17.283	1.40	23.35	0.93
5.167	1.25	11.233	4.82	17.300	1.40	23.37	0.93
5.183	1.25	11.250	4.82	17.317	1.40	23.38	0.93
5.200	1.25	11.267	7.47	17.333	1.40	23.40	0.93
5.217	1.25	11.283	7.47	17.350	1.40	23.42	0.93
5.233	1.25	11.300	7.47	17.367	1.40	23.43	0.93
5.250	1.25	11.317	7.47	17.383	1.40	23.45	0.93
5.267	1.25	11.333	7.47	17.400	1.40	23.47	0.93
5.283	1.25	11.350	7.47	17.417	1.40	23.48	0.93
5.300	1.25	11.367	7.47	17.433	1.40	23.50	0.93
5.317	1.25	11.383	7.47	17.450	1.40	23.52	0.93
5.333	1.25	11.400	7.47	17.467	1.40	23.53	0.93
5.350	1.25	11.417	7.47	17.483	1.40	23.55	0.93
5.367	1.25	11.433	7.47	17.500	1.40	23.57	0.93
5.383	1.25	11.450	7.47	17.517	1.40	23.58	0.93
5.400	1.25	11.467	7.47	17.533	1.40	23.60	0.93
5.417	1.25	11.483	7.47	17.550	1.40	23.62	0.93
5.433	1.25	11.500	7.47	17.567	1.40	23.63	0.93
5.450	1.25	11.517	7.47	17.583	1.40	23.65	0.93
5.467	1.25	11.533	7.47	17.600	1.40	23.67	0.93
5.483	1.25	11.550	7.47	17.617	1.40	23.68	0.93
5.500	1.25	11.567	7.47	17.633	1.40	23.70	0.93
5.517	1.25	11.583	7.47	17.650	1.40	23.72	0.93
5.533	1.25	11.600	7.47	17.667	1.40	23.73	0.93
5.550	1.25	11.617	7.47	17.683	1.40	23.75	0.93
5.567	1.25	11.633	7.47	17.700	1.40	23.77	0.93
5.583	1.25	11.650	7.47	17.717	1.40	23.78	0.93
5.600	1.25	11.667	7.47	17.733	1.40	23.80	0.93
5.617	1.25	11.683	7.47	17.750	1.40	23.82	0.93
5.633	1.25	11.700	7.47	17.767	1.40	23.83	0.93
5.650	1.25	11.717	7.47	17.783	1.40	23.85	0.93
5.667	1.25	11.733	7.47	17.800	1.40	23.87	0.93
5.683	1.25	11.750	7.47	17.817	1.40	23.88	0.93
5.700	1.25	11.767	23.03	17.833	1.40	23.90	0.93
5.717	1.25	11.783	23.03	17.850	1.40	23.92	0.93
5.733	1.25	11.800	23.03	17.867	1.40	23.93	0.93
5.750	1.25	11.817	23.03	17.883	1.40	23.95	0.93
5.767	1.25	11.833	23.03	17.900	1.40	23.97	0.93
5.783	1.25	11.850	23.03	17.917	1.40	23.98	0.93
5.800	1.25	11.867	23.03	17.933	1.40	24.00	0.93
5.817	1.25	11.883	23.03	17.950	1.40	24.02	0.93
5.833	1.25	11.900	23.03	17.967	1.40	24.03	0.93
5.850	1.25	11.917	23.03	17.983	1.40	24.05	0.93
5.867	1.25	11.933	23.03	18.000	1.40	24.07	0.93
5.883	1.25	11.950	23.03	18.017	1.40	24.08	0.93
5.900	1.25	11.967	23.03	18.033	1.40	24.10	0.93
5.917	1.25	11.983	23.03	18.050	1.40	24.12	0.93
5.933	1.25	12.000	23.03	18.067	1.40	24.13	0.93
5.950	1.25	12.017	95.20	18.083	1.40	24.15	0.93
5.967	1.25	12.033	95.25	18.100	1.40	24.17	0.93
5.983	1.25	12.050	95.25	18.117	1.40	24.18	0.93
6.000	1.25	12.067	95.25	18.133	1.40	24.20	0.93
6.017	1.25	12.083	95.25	18.150	1.40	24.22	0.93
6.033	1.25	12.100	95.25	18.167	1.40	24.23	0.93
6.050	1.25	12.117	95.25	18.183	1.40	24.25	0.93
6.067	1.25	12.133	95.25	18.200	1.40		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 12.467
RUNOFF VOLUME (mm)= 24.053
TOTAL RAINFALL (mm)= 77.821
RUNOFF COEFFICIENT = 0.309

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40

0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40
0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40
1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40
1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40
1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40
1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93
2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93

2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93
3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93
3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93
4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93
4.583	1.25	10.650	3.58	16.717	1.40	22.78	0.93
4.600	1.25	10.667	3.58	16.733	1.40	22.80	0.93
4.617	1.25	10.683	3.58	16.750	1.40	22.82	0.93
4.633	1.25	10.700	3.58	16.767	1.40	22.83	0.93
4.650	1.25	10.717	3.58	16.783	1.40	22.85	0.93
4.667	1.25	10.733	3.58	16.800	1.40	22.87	0.93
4.683	1.25	10.750	3.58	16.817	1.40	22.88	0.93
4.700	1.25	10.767	4.82	16.833	1.40	22.90	0.93
4.717	1.25	10.783	4.82	16.850	1.40	22.92	0.93
4.733	1.25	10.800	4.82	16.867	1.40	22.93	0.93
4.750	1.25	10.817	4.82	16.883	1.40	22.95	0.93
4.767	1.25	10.833	4.82	16.900	1.40	22.97	0.93
4.783	1.25	10.850	4.82	16.917	1.40	22.98	0.93
4.800	1.25	10.867	4.82	16.933	1.40	23.00	0.93
4.817	1.25	10.883	4.82	16.950	1.40	23.02	0.93
4.833	1.25	10.900	4.82	16.967	1.40	23.03	0.93
4.850	1.25	10.917	4.82	16.983	1.40	23.05	0.93
4.867	1.25	10.933	4.82	17.000	1.40	23.07	0.93
4.883	1.25	10.950	4.82	17.017	1.40	23.08	0.93
4.900	1.25	10.967	4.82	17.033	1.40	23.10	0.93
4.917	1.25	10.983	4.82	17.050	1.40	23.12	0.93
4.933	1.25	11.000	4.82	17.067	1.40	23.13	0.93
4.950	1.25	11.017	4.82	17.083	1.40	23.15	0.93
4.967	1.25	11.033	4.82	17.100	1.40	23.17	0.93
4.983	1.25	11.050	4.82	17.117	1.40	23.18	0.93
5.000	1.25	11.067	4.82	17.133	1.40	23.20	0.93
5.017	1.25	11.083	4.82	17.150	1.40	23.22	0.93
5.033	1.25	11.100	4.82	17.167	1.40	23.23	0.93
5.050	1.25	11.117	4.82	17.183	1.40	23.25	0.93
5.067	1.25	11.133	4.82	17.200	1.40	23.27	0.93
5.083	1.25	11.150	4.82	17.217	1.40	23.28	0.93
5.100	1.25	11.167	4.82	17.233	1.40	23.30	0.93
5.117	1.25	11.183	4.82	17.250	1.40	23.32	0.93
5.133	1.25	11.200	4.82	17.267	1.40	23.33	0.93
5.150	1.25	11.217	4.82	17.283	1.40	23.35	0.93
5.167	1.25	11.233	4.82	17.300	1.40	23.37	0.93
5.183	1.25	11.250	4.82	17.317	1.40	23.38	0.93
5.200	1.25	11.267	7.47	17.333	1.40	23.40	0.93
5.217	1.25	11.283	7.47	17.350	1.40	23.42	0.93
5.233	1.25	11.300	7.47	17.367	1.40	23.43	0.93
5.250	1.25	11.317	7.47	17.383	1.40	23.45	0.93
5.267	1.25	11.333	7.47	17.400	1.40	23.47	0.93
5.283	1.25	11.350	7.47	17.417	1.40	23.48	0.93
5.300	1.25	11.367	7.47	17.433	1.40	23.50	0.93
5.317	1.25	11.383	7.47	17.450	1.40	23.52	0.93
5.333	1.25	11.400	7.47	17.467	1.40	23.53	0.93
5.350	1.25	11.417	7.47	17.483	1.40	23.55	0.93
5.367	1.25	11.433	7.47	17.500	1.40	23.57	0.93
5.383	1.25	11.450	7.47	17.517	1.40	23.58	0.93
5.400	1.25	11.467	7.47	17.533	1.40	23.60	0.93
5.417	1.25	11.483	7.47	17.550	1.40	23.62	0.93
5.433	1.25	11.500	7.47	17.567	1.40	23.63	0.93
5.450	1.25	11.517	7.47	17.583	1.40	23.65	0.93
5.467	1.25	11.533	7.47	17.600	1.40	23.67	0.93
5.483	1.25	11.550	7.47	17.617	1.40	23.68	0.93
5.500	1.25	11.567	7.47	17.633	1.40	23.70	0.93
5.517	1.25	11.583	7.47	17.650	1.40	23.72	0.93
5.533	1.25	11.600	7.47	17.667	1.40	23.73	0.93
5.550	1.25	11.617	7.47	17.683	1.40	23.75	0.93
5.567	1.25	11.633	7.47	17.700	1.40	23.77	0.93
5.583	1.25	11.650	7.47	17.717	1.40	23.78	0.93
5.600	1.25	11.667	7.47	17.733	1.40	23.80	0.93
5.617	1.25	11.683	7.47	17.750	1.40	23.82	0.93
5.633	1.25	11.700	7.47	17.767	1.40	23.83	0.93
5.650	1.25	11.717	7.47	17.783	1.40	23.85	0.93
5.667	1.25	11.733	7.47	17.800	1.40	23.87	0.93
5.683	1.25	11.750	7.47	17.817	1.40	23.88	0.93

5.700	1.25	11.767	23.03	17.833	1.40	23.90	0.93
5.717	1.25	11.783	23.03	17.850	1.40	23.92	0.93
5.733	1.25	11.800	23.03	17.867	1.40	23.93	0.93
5.750	1.25	11.817	23.03	17.883	1.40	23.95	0.93
5.767	1.25	11.833	23.03	17.900	1.40	23.97	0.93
5.783	1.25	11.850	23.03	17.917	1.40	23.98	0.93
5.800	1.25	11.867	23.03	17.933	1.40	24.00	0.93
5.817	1.25	11.883	23.03	17.950	1.40	24.02	0.93
5.833	1.25	11.900	23.03	17.967	1.40	24.03	0.93
5.850	1.25	11.917	23.03	17.983	1.40	24.05	0.93
5.867	1.25	11.933	23.03	18.000	1.40	24.07	0.93
5.883	1.25	11.950	23.03	18.017	1.40	24.08	0.93
5.900	1.25	11.967	23.03	18.033	1.40	24.10	0.93
5.917	1.25	11.983	23.03	18.050	1.40	24.12	0.93
5.933	1.25	12.000	23.03	18.067	1.40	24.13	0.93
5.950	1.25	12.017	95.20	18.083	1.40	24.15	0.93
5.967	1.25	12.033	95.25	18.100	1.40	24.17	0.93
5.983	1.25	12.050	95.25	18.117	1.40	24.18	0.93
6.000	1.25	12.067	95.25	18.133	1.40	24.20	0.93
6.017	1.25	12.083	95.25	18.150	1.40	24.22	0.93
6.033	1.25	12.100	95.25	18.167	1.40	24.23	0.93
6.050	1.25	12.117	95.25	18.183	1.40	24.25	0.93
6.067	1.25	12.133	95.25	18.200	1.40		

Max.Eff.Inten.(mm/hr)=		95.25	41.96	
over (min)		5.00	5.00	
Storage Coeff. (min)=		1.35 (ii)	4.34 (ii)	
Unit Hyd. Tpeak (min)=		5.00	5.00	
Unit Hyd. peak (cms)=		0.43	0.25	
				TOTALS
PEAK FLOW	(cms)=	0.03	0.00	0.039 (iii)
TIME TO PEAK	(hrs)=	12.25	12.27	12.25
RUNOFF VOLUME	(mm)=	75.82	28.37	65.37
TOTAL RAINFALL	(mm)=	77.82	77.82	77.82
RUNOFF COEFFICIENT	=	0.97	0.36	0.84

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0202)	Area (ha)= 0.11
ID= 1 DT= 1.0 min	Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40
0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40
0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40
1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40
1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40
1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40

1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93
2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93
2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93
3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93
3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93
4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93

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4.583    1.25 |10.650    3.58 |16.717    1.40 |  22.78    0.93
4.600    1.25 |10.667    3.58 |16.733    1.40 |  22.80    0.93
4.617    1.25 |10.683    3.58 |16.750    1.40 |  22.82    0.93
4.633    1.25 |10.700    3.58 |16.767    1.40 |  22.83    0.93
4.650    1.25 |10.717    3.58 |16.783    1.40 |  22.85    0.93
4.667    1.25 |10.733    3.58 |16.800    1.40 |  22.87    0.93
4.683    1.25 |10.750    3.58 |16.817    1.40 |  22.88    0.93
4.700    1.25 |10.767    4.82 |16.833    1.40 |  22.90    0.93
4.717    1.25 |10.783    4.82 |16.850    1.40 |  22.92    0.93
4.733    1.25 |10.800    4.82 |16.867    1.40 |  22.93    0.93
4.750    1.25 |10.817    4.82 |16.883    1.40 |  22.95    0.93
4.767    1.25 |10.833    4.82 |16.900    1.40 |  22.97    0.93
4.783    1.25 |10.850    4.82 |16.917    1.40 |  22.98    0.93
4.800    1.25 |10.867    4.82 |16.933    1.40 |  23.00    0.93
4.817    1.25 |10.883    4.82 |16.950    1.40 |  23.02    0.93
4.833    1.25 |10.900    4.82 |16.967    1.40 |  23.03    0.93
4.850    1.25 |10.917    4.82 |16.983    1.40 |  23.05    0.93
4.867    1.25 |10.933    4.82 |17.000    1.40 |  23.07    0.93
4.883    1.25 |10.950    4.82 |17.017    1.40 |  23.08    0.93
4.900    1.25 |10.967    4.82 |17.033    1.40 |  23.10    0.93
4.917    1.25 |10.983    4.82 |17.050    1.40 |  23.12    0.93
4.933    1.25 |11.000    4.82 |17.067    1.40 |  23.13    0.93
4.950    1.25 |11.017    4.82 |17.083    1.40 |  23.15    0.93
4.967    1.25 |11.033    4.82 |17.100    1.40 |  23.17    0.93
4.983    1.25 |11.050    4.82 |17.117    1.40 |  23.18    0.93
5.000    1.25 |11.067    4.82 |17.133    1.40 |  23.20    0.93
5.017    1.25 |11.083    4.82 |17.150    1.40 |  23.22    0.93
5.033    1.25 |11.100    4.82 |17.167    1.40 |  23.23    0.93
5.050    1.25 |11.117    4.82 |17.183    1.40 |  23.25    0.93
5.067    1.25 |11.133    4.82 |17.200    1.40 |  23.27    0.93
5.083    1.25 |11.150    4.82 |17.217    1.40 |  23.28    0.93
5.100    1.25 |11.167    4.82 |17.233    1.40 |  23.30    0.93
5.117    1.25 |11.183    4.82 |17.250    1.40 |  23.32    0.93
5.133    1.25 |11.200    4.82 |17.267    1.40 |  23.33    0.93
5.150    1.25 |11.217    4.82 |17.283    1.40 |  23.35    0.93
5.167    1.25 |11.233    4.82 |17.300    1.40 |  23.37    0.93
5.183    1.25 |11.250    4.82 |17.317    1.40 |  23.38    0.93
5.200    1.25 |11.267    7.47 |17.333    1.40 |  23.40    0.93
5.217    1.25 |11.283    7.47 |17.350    1.40 |  23.42    0.93
5.233    1.25 |11.300    7.47 |17.367    1.40 |  23.43    0.93
5.250    1.25 |11.317    7.47 |17.383    1.40 |  23.45    0.93
5.267    1.25 |11.333    7.47 |17.400    1.40 |  23.47    0.93
5.283    1.25 |11.350    7.47 |17.417    1.40 |  23.48    0.93
5.300    1.25 |11.367    7.47 |17.433    1.40 |  23.50    0.93
5.317    1.25 |11.383    7.47 |17.450    1.40 |  23.52    0.93
5.333    1.25 |11.400    7.47 |17.467    1.40 |  23.53    0.93
5.350    1.25 |11.417    7.47 |17.483    1.40 |  23.55    0.93
5.367    1.25 |11.433    7.47 |17.500    1.40 |  23.57    0.93
5.383    1.25 |11.450    7.47 |17.517    1.40 |  23.58    0.93
5.400    1.25 |11.467    7.47 |17.533    1.40 |  23.60    0.93
5.417    1.25 |11.483    7.47 |17.550    1.40 |  23.62    0.93
5.433    1.25 |11.500    7.47 |17.567    1.40 |  23.63    0.93
5.450    1.25 |11.517    7.47 |17.583    1.40 |  23.65    0.93
5.467    1.25 |11.533    7.47 |17.600    1.40 |  23.67    0.93
5.483    1.25 |11.550    7.47 |17.617    1.40 |  23.68    0.93
5.500    1.25 |11.567    7.47 |17.633    1.40 |  23.70    0.93
5.517    1.25 |11.583    7.47 |17.650    1.40 |  23.72    0.93
5.533    1.25 |11.600    7.47 |17.667    1.40 |  23.73    0.93
5.550    1.25 |11.617    7.47 |17.683    1.40 |  23.75    0.93
5.567    1.25 |11.633    7.47 |17.700    1.40 |  23.77    0.93
5.583    1.25 |11.650    7.47 |17.717    1.40 |  23.78    0.93
5.600    1.25 |11.667    7.47 |17.733    1.40 |  23.80    0.93
5.617    1.25 |11.683    7.47 |17.750    1.40 |  23.82    0.93
5.633    1.25 |11.700    7.47 |17.767    1.40 |  23.83    0.93
5.650    1.25 |11.717    7.47 |17.783    1.40 |  23.85    0.93
5.667    1.25 |11.733    7.47 |17.800    1.40 |  23.87    0.93
5.683    1.25 |11.750    7.47 |17.817    1.40 |  23.88    0.93
5.700    1.25 |11.767   23.03 |17.833    1.40 |  23.90    0.93
5.717    1.25 |11.783   23.03 |17.850    1.40 |  23.92    0.93
5.733    1.25 |11.800   23.03 |17.867    1.40 |  23.93    0.93
5.750    1.25 |11.817   23.03 |17.883    1.40 |  23.95    0.93
5.767    1.25 |11.833   23.03 |17.900    1.40 |  23.97    0.93
5.783    1.25 |11.850   23.03 |17.917    1.40 |  23.98    0.93
5.800    1.25 |11.867   23.03 |17.933    1.40 |  24.00    0.93
5.817    1.25 |11.883   23.03 |17.950    1.40 |  24.02    0.93
5.833    1.25 |11.900   23.03 |17.967    1.40 |  24.03    0.93
5.850    1.25 |11.917   23.03 |17.983    1.40 |  24.05    0.93
5.867    1.25 |11.933   23.03 |18.000    1.40 |  24.07    0.93
5.883    1.25 |11.950   23.03 |18.017    1.40 |  24.08    0.93
5.900    1.25 |11.967   23.03 |18.033    1.40 |  24.10    0.93
5.917    1.25 |11.983   23.03 |18.050    1.40 |  24.12    0.93
5.933    1.25 |12.000   23.03 |18.067    1.40 |  24.13    0.93
5.950    1.25 |12.017   95.20 |18.083    1.40 |  24.15    0.93
5.967    1.25 |12.033   95.25 |18.100    1.40 |  24.17    0.93
5.983    1.25 |12.050   95.25 |18.117    1.40 |  24.18    0.93
6.000    1.25 |12.067   95.25 |18.133    1.40 |  24.20    0.93
6.017    1.25 |12.083   95.25 |18.150    1.40 |  24.22    0.93
6.033    1.25 |12.100   95.25 |18.167    1.40 |  24.23    0.93
6.050    1.25 |12.117   95.25 |18.183    1.40 |  24.25    0.93
6.067    1.25 |12.133   95.25 |18.200    1.40 |
```

```
     Max.Eff.Inten.(mm/hr)=      95.25        41.96
               over (min)         5.00         4.00
     Storage Coeff.  (min)=       0.95 (ii)    3.71 (ii)
     Unit Hyd. Tpeak (min)=       5.00         4.00
     Unit Hyd. peak  (cms)=       0.48         0.30
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.02         0.00      0.025 (iii)
     TIME TO PEAK    (hrs)=      12.25        12.25      12.25
     RUNOFF VOLUME    (mm)=      75.82        28.37      66.80
     TOTAL RAINFALL   (mm)=      77.82        77.82      77.82
     RUNOFF COEFFICIENT   =       0.97         0.36       0.86

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0010)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0201):     0.17   0.039    12.25    65.37
     + ID2= 2 (  0202):     0.11   0.025    12.25    66.80
       ================================================
       ID = 3 (  0010):     0.27   0.064    12.25    65.92

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0012)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE    |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)    |   (cms)     (ha.m.)
                          0.0000     0.0000    |   0.0200      0.0082
                          0.0010     0.0009    |   0.0210      0.0098
                          0.0070     0.0019    |   0.0230      0.0115
                          0.0100     0.0028    |   0.0240      0.0134
                          0.0130     0.0038    |   0.0620      0.0155
                          0.0150     0.0047    |   0.1400      0.0177
                          0.0170     0.0054    |   0.2500      0.0200
                          0.0180     0.0067    |   0.0000      0.0000

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0010)     0.275      0.064     12.25      65.92
   OUTFLOW: ID= 1 (  0012)     0.275      0.018     12.33      65.09

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 27.83
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0064

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0012):     0.27   0.018    12.33    65.09
     + ID2= 2 (  0204):     0.06   0.004    12.47    24.05
       ================================================
       ID = 3 (  0014):     0.34   0.021    12.42    58.57

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| CALIB            |
| NASHYD   (  0205)|   Area    (ha)=   0.02   Curve Number   (CN)= 74.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.56   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.22

         NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
```

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40
0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40
0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40
1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40
1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40
1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40
1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93

2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93
2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93
3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93
3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93
4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93
4.583	1.25	10.650	3.58	16.717	1.40	22.78	0.93
4.600	1.25	10.667	3.58	16.733	1.40	22.80	0.93
4.617	1.25	10.683	3.58	16.750	1.40	22.82	0.93
4.633	1.25	10.700	3.58	16.767	1.40	22.83	0.93
4.650	1.25	10.717	3.58	16.783	1.40	22.85	0.93
4.667	1.25	10.733	3.58	16.800	1.40	22.87	0.93
4.683	1.25	10.750	3.58	16.817	1.40	22.88	0.93
4.700	1.25	10.767	4.82	16.833	1.40	22.90	0.93
4.717	1.25	10.783	4.82	16.850	1.40	22.92	0.93
4.733	1.25	10.800	4.82	16.867	1.40	22.93	0.93
4.750	1.25	10.817	4.82	16.883	1.40	22.95	0.93
4.767	1.25	10.833	4.82	16.900	1.40	22.97	0.93
4.783	1.25	10.850	4.82	16.917	1.40	22.98	0.93
4.800	1.25	10.867	4.82	16.933	1.40	23.00	0.93
4.817	1.25	10.883	4.82	16.950	1.40	23.02	0.93
4.833	1.25	10.900	4.82	16.967	1.40	23.03	0.93
4.850	1.25	10.917	4.82	16.983	1.40	23.05	0.93
4.867	1.25	10.933	4.82	17.000	1.40	23.07	0.93
4.883	1.25	10.950	4.82	17.017	1.40	23.08	0.93
4.900	1.25	10.967	4.82	17.033	1.40	23.10	0.93
4.917	1.25	10.983	4.82	17.050	1.40	23.12	0.93
4.933	1.25	11.000	4.82	17.067	1.40	23.13	0.93
4.950	1.25	11.017	4.82	17.083	1.40	23.15	0.93
4.967	1.25	11.033	4.82	17.100	1.40	23.17	0.93
4.983	1.25	11.050	4.82	17.117	1.40	23.18	0.93
5.000	1.25	11.067	4.82	17.133	1.40	23.20	0.93
5.017	1.25	11.083	4.82	17.150	1.40	23.22	0.93
5.033	1.25	11.100	4.82	17.167	1.40	23.23	0.93
5.050	1.25	11.117	4.82	17.183	1.40	23.25	0.93
5.067	1.25	11.133	4.82	17.200	1.40	23.27	0.93
5.083	1.25	11.150	4.82	17.217	1.40	23.28	0.93
5.100	1.25	11.167	4.82	17.233	1.40	23.30	0.93
5.117	1.25	11.183	4.82	17.250	1.40	23.32	0.93
5.133	1.25	11.200	4.82	17.267	1.40	23.33	0.93
5.150	1.25	11.217	4.82	17.283	1.40	23.35	0.93
5.167	1.25	11.233	4.82	17.300	1.40	23.37	0.93
5.183	1.25	11.250	4.82	17.317	1.40	23.38	0.93
5.200	1.25	11.267	7.47	17.333	1.40	23.40	0.93
5.217	1.25	11.283	7.47	17.350	1.40	23.42	0.93
5.233	1.25	11.300	7.47	17.367	1.40	23.43	0.93
5.250	1.25	11.317	7.47	17.383	1.40	23.45	0.93
5.267	1.25	11.333	7.47	17.400	1.40	23.47	0.93
5.283	1.25	11.350	7.47	17.417	1.40	23.48	0.93
5.300	1.25	11.367	7.47	17.433	1.40	23.50	0.93
5.317	1.25	11.383	7.47	17.450	1.40	23.52	0.93
5.333	1.25	11.400	7.47	17.467	1.40	23.53	0.93
5.350	1.25	11.417	7.47	17.483	1.40	23.55	0.93
5.367	1.25	11.433	7.47	17.500	1.40	23.57	0.93
5.383	1.25	11.450	7.47	17.517	1.40	23.58	0.93
5.400	1.25	11.467	7.47	17.533	1.40	23.60	0.93
5.417	1.25	11.483	7.47	17.550	1.40	23.62	0.93
5.433	1.25	11.500	7.47	17.567	1.40	23.63	0.93
5.450	1.25	11.517	7.47	17.583	1.40	23.65	0.93
5.467	1.25	11.533	7.47	17.600	1.40	23.67	0.93
5.483	1.25	11.550	7.47	17.617	1.40	23.68	0.93
5.500	1.25	11.567	7.47	17.633	1.40	23.70	0.93
5.517	1.25	11.583	7.47	17.650	1.40	23.72	0.93
5.533	1.25	11.600	7.47	17.667	1.40	23.73	0.93

5.550	1.25	11.617	7.47	17.683	1.40	23.75	0.93
5.567	1.25	11.633	7.47	17.700	1.40	23.77	0.93
5.583	1.25	11.650	7.47	17.717	1.40	23.78	0.93
5.600	1.25	11.667	7.47	17.733	1.40	23.80	0.93
5.617	1.25	11.683	7.47	17.750	1.40	23.82	0.93
5.633	1.25	11.700	7.47	17.767	1.40	23.83	0.93
5.650	1.25	11.717	7.47	17.783	1.40	23.85	0.93
5.667	1.25	11.733	7.47	17.800	1.40	23.87	0.93
5.683	1.25	11.750	7.47	17.817	1.40	23.88	0.93
5.700	1.25	11.767	23.03	17.833	1.40	23.90	0.93
5.717	1.25	11.783	23.03	17.850	1.40	23.92	0.93
5.733	1.25	11.800	23.03	17.867	1.40	23.93	0.93
5.750	1.25	11.817	23.03	17.883	1.40	23.95	0.93
5.767	1.25	11.833	23.03	17.900	1.40	23.97	0.93
5.783	1.25	11.850	23.03	17.917	1.40	23.98	0.93
5.800	1.25	11.867	23.03	17.933	1.40	24.00	0.93
5.817	1.25	11.883	23.03	17.950	1.40	24.02	0.93
5.833	1.25	11.900	23.03	17.967	1.40	24.03	0.93
5.850	1.25	11.917	23.03	17.983	1.40	24.05	0.93
5.867	1.25	11.933	23.03	18.000	1.40	24.07	0.93
5.883	1.25	11.950	23.03	18.017	1.40	24.08	0.93
5.900	1.25	11.967	23.03	18.033	1.40	24.10	0.93
5.917	1.25	11.983	23.03	18.050	1.40	24.12	0.93
5.933	1.25	12.000	23.03	18.067	1.40	24.13	0.93
5.950	1.25	12.017	95.20	18.083	1.40	24.15	0.93
5.967	1.25	12.033	95.25	18.100	1.40	24.17	0.93
5.983	1.25	12.050	95.25	18.117	1.40	24.18	0.93
6.000	1.25	12.067	95.25	18.133	1.40	24.20	0.93
6.017	1.25	12.083	95.25	18.150	1.40	24.22	0.93
6.033	1.25	12.100	95.25	18.167	1.40	24.23	0.93
6.050	1.25	12.117	95.25	18.183	1.40	24.25	0.93
6.067	1.25	12.133	95.25	18.200	1.40		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 12.367
RUNOFF VOLUME (mm)= 26.700
TOTAL RAINFALL (mm)= 77.821
RUNOFF COEFFICIENT = 0.343

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0203)	Area (ha)= 0.13
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.25	12.150	95.25	18.22	1.40
0.033	0.00	6.100	1.25	12.167	95.25	18.23	1.40
0.050	0.00	6.117	1.25	12.183	95.25	18.25	1.40
0.067	0.00	6.133	1.25	12.200	95.25	18.27	1.40
0.083	0.00	6.150	1.25	12.217	95.25	18.28	1.40
0.100	0.00	6.167	1.25	12.233	95.25	18.30	1.40
0.117	0.00	6.183	1.25	12.250	95.25	18.32	1.40
0.133	0.00	6.200	1.25	12.267	11.28	18.33	1.40
0.150	0.00	6.217	1.25	12.283	11.21	18.35	1.40
0.167	0.00	6.233	1.25	12.300	11.21	18.37	1.40
0.183	0.00	6.250	1.25	12.317	11.21	18.38	1.40
0.200	0.00	6.267	1.40	12.333	11.21	18.40	1.40
0.217	0.00	6.283	1.40	12.350	11.21	18.42	1.40
0.233	0.00	6.300	1.40	12.367	11.21	18.43	1.40
0.250	0.00	6.317	1.40	12.383	11.21	18.45	1.40
0.267	0.86	6.333	1.40	12.400	11.21	18.47	1.40
0.283	0.86	6.350	1.40	12.417	11.21	18.48	1.40
0.300	0.86	6.367	1.40	12.433	11.21	18.50	1.40
0.317	0.86	6.383	1.40	12.450	11.21	18.52	1.40
0.333	0.86	6.400	1.40	12.467	11.21	18.53	1.40
0.350	0.86	6.417	1.40	12.483	11.21	18.55	1.40
0.367	0.86	6.433	1.40	12.500	11.21	18.57	1.40
0.383	0.86	6.450	1.40	12.517	11.21	18.58	1.40
0.400	0.86	6.467	1.40	12.533	11.21	18.60	1.40
0.417	0.86	6.483	1.40	12.550	11.21	18.62	1.40
0.433	0.86	6.500	1.40	12.567	11.21	18.63	1.40
0.450	0.86	6.517	1.40	12.583	11.21	18.65	1.40
0.467	0.86	6.533	1.40	12.600	11.21	18.67	1.40
0.483	0.86	6.550	1.40	12.617	11.21	18.68	1.40
0.500	0.86	6.567	1.40	12.633	11.21	18.70	1.40
0.517	0.86	6.583	1.40	12.650	11.21	18.72	1.40
0.533	0.86	6.600	1.40	12.667	11.21	18.73	1.40
0.550	0.86	6.617	1.40	12.683	11.21	18.75	1.40
0.567	0.86	6.633	1.40	12.700	11.21	18.77	1.40
0.583	0.86	6.650	1.40	12.717	11.21	18.78	1.40
0.600	0.86	6.667	1.40	12.733	11.21	18.80	1.40
0.617	0.86	6.683	1.40	12.750	11.21	18.82	1.40
0.633	0.86	6.700	1.40	12.767	5.77	18.83	1.40
0.650	0.86	6.717	1.40	12.783	5.76	18.85	1.40
0.667	0.86	6.733	1.40	12.800	5.76	18.87	1.40
0.683	0.86	6.750	1.40	12.817	5.76	18.88	1.40
0.700	0.86	6.767	1.40	12.833	5.76	18.90	1.40
0.717	0.86	6.783	1.40	12.850	5.76	18.92	1.40
0.733	0.86	6.800	1.40	12.867	5.76	18.93	1.40
0.750	0.86	6.817	1.40	12.883	5.76	18.95	1.40
0.767	0.86	6.833	1.40	12.900	5.76	18.97	1.40
0.783	0.86	6.850	1.40	12.917	5.76	18.98	1.40
0.800	0.86	6.867	1.40	12.933	5.76	19.00	1.40
0.817	0.86	6.883	1.40	12.950	5.76	19.02	1.40
0.833	0.86	6.900	1.40	12.967	5.76	19.03	1.40
0.850	0.86	6.917	1.40	12.983	5.76	19.05	1.40
0.867	0.86	6.933	1.40	13.000	5.76	19.07	1.40
0.883	0.86	6.950	1.40	13.017	5.76	19.08	1.40
0.900	0.86	6.967	1.40	13.033	5.76	19.10	1.40
0.917	0.86	6.983	1.40	13.050	5.76	19.12	1.40
0.933	0.86	7.000	1.40	13.067	5.76	19.13	1.40
0.950	0.86	7.017	1.40	13.083	5.76	19.15	1.40
0.967	0.86	7.033	1.40	13.100	5.76	19.17	1.40
0.983	0.86	7.050	1.40	13.117	5.76	19.18	1.40
1.000	0.86	7.067	1.40	13.133	5.76	19.20	1.40
1.017	0.86	7.083	1.40	13.150	5.76	19.22	1.40
1.033	0.86	7.100	1.40	13.167	5.76	19.23	1.40
1.050	0.86	7.117	1.40	13.183	5.76	19.25	1.40
1.067	0.86	7.133	1.40	13.200	5.76	19.27	1.40
1.083	0.86	7.150	1.40	13.217	5.76	19.28	1.40
1.100	0.86	7.167	1.40	13.233	5.76	19.30	1.40
1.117	0.86	7.183	1.40	13.250	5.76	19.32	1.40
1.133	0.86	7.200	1.40	13.267	4.21	19.33	1.40
1.150	0.86	7.217	1.40	13.283	4.20	19.35	1.40
1.167	0.86	7.233	1.40	13.300	4.20	19.37	1.40
1.183	0.86	7.250	1.40	13.317	4.20	19.38	1.40
1.200	0.86	7.267	1.71	13.333	4.20	19.40	1.40
1.217	0.86	7.283	1.71	13.350	4.20	19.42	1.40
1.233	0.86	7.300	1.71	13.367	4.20	19.43	1.40
1.250	0.86	7.317	1.71	13.383	4.20	19.45	1.40
1.267	0.86	7.333	1.71	13.400	4.20	19.47	1.40
1.283	0.86	7.350	1.71	13.417	4.20	19.48	1.40
1.300	0.86	7.367	1.71	13.433	4.20	19.50	1.40
1.317	0.86	7.383	1.71	13.450	4.20	19.52	1.40
1.333	0.86	7.400	1.71	13.467	4.20	19.53	1.40
1.350	0.86	7.417	1.71	13.483	4.20	19.55	1.40
1.367	0.86	7.433	1.71	13.500	4.20	19.57	1.40
1.383	0.86	7.450	1.71	13.517	4.20	19.58	1.40
1.400	0.86	7.467	1.71	13.533	4.20	19.60	1.40
1.417	0.86	7.483	1.71	13.550	4.20	19.62	1.40
1.433	0.86	7.500	1.71	13.567	4.20	19.63	1.40
1.450	0.86	7.517	1.71	13.583	4.20	19.65	1.40
1.467	0.86	7.533	1.71	13.600	4.20	19.67	1.40
1.483	0.86	7.550	1.71	13.617	4.20	19.68	1.40
1.500	0.86	7.567	1.71	13.633	4.20	19.70	1.40
1.517	0.86	7.583	1.71	13.650	4.20	19.72	1.40
1.533	0.86	7.600	1.71	13.667	4.20	19.73	1.40
1.550	0.86	7.617	1.71	13.683	4.20	19.75	1.40
1.567	0.86	7.633	1.71	13.700	4.20	19.77	1.40
1.583	0.86	7.650	1.71	13.717	4.20	19.78	1.40
1.600	0.86	7.667	1.71	13.733	4.20	19.80	1.40
1.617	0.86	7.683	1.71	13.750	4.20	19.82	1.40
1.633	0.86	7.700	1.71	13.767	3.27	19.83	1.40
1.650	0.86	7.717	1.71	13.783	3.27	19.85	1.40
1.667	0.86	7.733	1.71	13.800	3.27	19.87	1.40
1.683	0.86	7.750	1.71	13.817	3.27	19.88	1.40
1.700	0.86	7.767	1.71	13.833	3.27	19.90	1.40
1.717	0.86	7.783	1.71	13.850	3.27	19.92	1.40
1.733	0.86	7.800	1.71	13.867	3.27	19.93	1.40
1.750	0.86	7.817	1.71	13.883	3.27	19.95	1.40
1.767	0.86	7.833	1.71	13.900	3.27	19.97	1.40

1.783	0.86	7.850	1.71	13.917	3.27	19.98	1.40
1.800	0.86	7.867	1.71	13.933	3.27	20.00	1.40
1.817	0.86	7.883	1.71	13.950	3.27	20.02	1.40
1.833	0.86	7.900	1.71	13.967	3.27	20.03	1.40
1.850	0.86	7.917	1.71	13.983	3.27	20.05	1.40
1.867	0.86	7.933	1.71	14.000	3.27	20.07	1.40
1.883	0.86	7.950	1.71	14.017	3.27	20.08	1.40
1.900	0.86	7.967	1.71	14.033	3.27	20.10	1.40
1.917	0.86	7.983	1.71	14.050	3.27	20.12	1.40
1.933	0.86	8.000	1.71	14.067	3.27	20.13	1.40
1.950	0.86	8.017	1.71	14.083	3.27	20.15	1.40
1.967	0.86	8.033	1.71	14.100	3.27	20.17	1.40
1.983	0.86	8.050	1.71	14.117	3.27	20.18	1.40
2.000	0.86	8.067	1.71	14.133	3.27	20.20	1.40
2.017	0.86	8.083	1.71	14.150	3.27	20.22	1.40
2.033	0.86	8.100	1.71	14.167	3.27	20.23	1.40
2.050	0.86	8.117	1.71	14.183	3.27	20.25	1.40
2.067	0.86	8.133	1.71	14.200	3.27	20.27	0.94
2.083	0.86	8.150	1.71	14.217	3.27	20.28	0.93
2.100	0.86	8.167	1.71	14.233	3.27	20.30	0.93
2.117	0.86	8.183	1.71	14.250	3.27	20.32	0.93
2.133	0.86	8.200	1.71	14.267	2.34	20.33	0.93
2.150	0.86	8.217	1.71	14.283	2.33	20.35	0.93
2.167	0.86	8.233	1.71	14.300	2.33	20.37	0.93
2.183	0.86	8.250	1.71	14.317	2.33	20.38	0.93
2.200	0.86	8.267	2.02	14.333	2.33	20.40	0.93
2.217	0.86	8.283	2.02	14.350	2.33	20.42	0.93
2.233	0.86	8.300	2.02	14.367	2.33	20.43	0.93
2.250	0.86	8.317	2.02	14.383	2.33	20.45	0.93
2.267	1.01	8.333	2.02	14.400	2.33	20.47	0.93
2.283	1.01	8.350	2.02	14.417	2.33	20.48	0.93
2.300	1.01	8.367	2.02	14.433	2.33	20.50	0.93
2.317	1.01	8.383	2.02	14.450	2.33	20.52	0.93
2.333	1.01	8.400	2.02	14.467	2.33	20.53	0.93
2.350	1.01	8.417	2.02	14.483	2.33	20.55	0.93
2.367	1.01	8.433	2.02	14.500	2.33	20.57	0.93
2.383	1.01	8.450	2.02	14.517	2.33	20.58	0.93
2.400	1.01	8.467	2.02	14.533	2.33	20.60	0.93
2.417	1.01	8.483	2.02	14.550	2.33	20.62	0.93
2.433	1.01	8.500	2.02	14.567	2.33	20.63	0.93
2.450	1.01	8.517	2.02	14.583	2.33	20.65	0.93
2.467	1.01	8.533	2.02	14.600	2.33	20.67	0.93
2.483	1.01	8.550	2.02	14.617	2.33	20.68	0.93
2.500	1.01	8.567	2.02	14.633	2.33	20.70	0.93
2.517	1.01	8.583	2.02	14.650	2.33	20.72	0.93
2.533	1.01	8.600	2.02	14.667	2.33	20.73	0.93
2.550	1.01	8.617	2.02	14.683	2.33	20.75	0.93
2.567	1.01	8.633	2.02	14.700	2.33	20.77	0.93
2.583	1.01	8.650	2.02	14.717	2.33	20.78	0.93
2.600	1.01	8.667	2.02	14.733	2.33	20.80	0.93
2.617	1.01	8.683	2.02	14.750	2.33	20.82	0.93
2.633	1.01	8.700	2.02	14.767	2.33	20.83	0.93
2.650	1.01	8.717	2.02	14.783	2.33	20.85	0.93
2.667	1.01	8.733	2.02	14.800	2.33	20.87	0.93
2.683	1.01	8.750	2.02	14.817	2.33	20.88	0.93
2.700	1.01	8.767	2.18	14.833	2.33	20.90	0.93
2.717	1.01	8.783	2.18	14.850	2.33	20.92	0.93
2.733	1.01	8.800	2.18	14.867	2.33	20.93	0.93
2.750	1.01	8.817	2.18	14.883	2.33	20.95	0.93
2.767	1.01	8.833	2.18	14.900	2.33	20.97	0.93
2.783	1.01	8.850	2.18	14.917	2.33	20.98	0.93
2.800	1.01	8.867	2.18	14.933	2.33	21.00	0.93
2.817	1.01	8.883	2.18	14.950	2.33	21.02	0.93
2.833	1.01	8.900	2.18	14.967	2.33	21.03	0.93
2.850	1.01	8.917	2.18	14.983	2.33	21.05	0.93
2.867	1.01	8.933	2.18	15.000	2.33	21.07	0.93
2.883	1.01	8.950	2.18	15.017	2.33	21.08	0.93
2.900	1.01	8.967	2.18	15.033	2.33	21.10	0.93
2.917	1.01	8.983	2.18	15.050	2.33	21.12	0.93
2.933	1.01	9.000	2.18	15.067	2.33	21.13	0.93
2.950	1.01	9.017	2.18	15.083	2.33	21.15	0.93
2.967	1.01	9.033	2.18	15.100	2.33	21.17	0.93
2.983	1.01	9.050	2.18	15.117	2.33	21.18	0.93
3.000	1.01	9.067	2.18	15.133	2.33	21.20	0.93
3.017	1.01	9.083	2.18	15.150	2.33	21.22	0.93
3.033	1.01	9.100	2.18	15.167	2.33	21.23	0.93
3.050	1.01	9.117	2.18	15.183	2.33	21.25	0.93
3.067	1.01	9.133	2.18	15.200	2.33	21.27	0.93
3.083	1.01	9.150	2.18	15.217	2.33	21.28	0.93
3.100	1.01	9.167	2.18	15.233	2.33	21.30	0.93
3.117	1.01	9.183	2.18	15.250	2.33	21.32	0.93
3.133	1.01	9.200	2.18	15.267	2.33	21.33	0.93
3.150	1.01	9.217	2.18	15.283	2.33	21.35	0.93
3.167	1.01	9.233	2.18	15.300	2.33	21.37	0.93
3.183	1.01	9.250	2.18	15.317	2.33	21.38	0.93
3.200	1.01	9.267	2.49	15.333	2.33	21.40	0.93
3.217	1.01	9.283	2.49	15.350	2.33	21.42	0.93
3.233	1.01	9.300	2.49	15.367	2.33	21.43	0.93
3.250	1.01	9.317	2.49	15.383	2.33	21.45	0.93
3.267	1.01	9.333	2.49	15.400	2.33	21.47	0.93
3.283	1.01	9.350	2.49	15.417	2.33	21.48	0.93
3.300	1.01	9.367	2.49	15.433	2.33	21.50	0.93
3.317	1.01	9.383	2.49	15.450	2.33	21.52	0.93
3.333	1.01	9.400	2.49	15.467	2.33	21.53	0.93
3.350	1.01	9.417	2.49	15.483	2.33	21.55	0.93
3.367	1.01	9.433	2.49	15.500	2.33	21.57	0.93
3.383	1.01	9.450	2.49	15.517	2.33	21.58	0.93
3.400	1.01	9.467	2.49	15.533	2.33	21.60	0.93
3.417	1.01	9.483	2.49	15.550	2.33	21.62	0.93
3.433	1.01	9.500	2.49	15.567	2.33	21.63	0.93
3.450	1.01	9.517	2.49	15.583	2.33	21.65	0.93
3.467	1.01	9.533	2.49	15.600	2.33	21.67	0.93
3.483	1.01	9.550	2.49	15.617	2.33	21.68	0.93
3.500	1.01	9.567	2.49	15.633	2.33	21.70	0.93
3.517	1.01	9.583	2.49	15.650	2.33	21.72	0.93
3.533	1.01	9.600	2.49	15.667	2.33	21.73	0.93
3.550	1.01	9.617	2.49	15.683	2.33	21.75	0.93
3.567	1.01	9.633	2.49	15.700	2.33	21.77	0.93
3.583	1.01	9.650	2.49	15.717	2.33	21.78	0.93
3.600	1.01	9.667	2.49	15.733	2.33	21.80	0.93
3.617	1.01	9.683	2.49	15.750	2.33	21.82	0.93
3.633	1.01	9.700	2.49	15.767	2.33	21.83	0.93
3.650	1.01	9.717	2.49	15.783	2.33	21.85	0.93
3.667	1.01	9.733	2.49	15.800	2.33	21.87	0.93
3.683	1.01	9.750	2.49	15.817	2.33	21.88	0.93
3.700	1.01	9.767	2.80	15.833	2.33	21.90	0.93
3.717	1.01	9.783	2.80	15.850	2.33	21.92	0.93
3.733	1.01	9.800	2.80	15.867	2.33	21.93	0.93
3.750	1.01	9.817	2.80	15.883	2.33	21.95	0.93
3.767	1.01	9.833	2.80	15.900	2.33	21.97	0.93
3.783	1.01	9.850	2.80	15.917	2.33	21.98	0.93
3.800	1.01	9.867	2.80	15.933	2.33	22.00	0.93
3.817	1.01	9.883	2.80	15.950	2.33	22.02	0.93
3.833	1.01	9.900	2.80	15.967	2.33	22.03	0.93
3.850	1.01	9.917	2.80	15.983	2.33	22.05	0.93
3.867	1.01	9.933	2.80	16.000	2.33	22.07	0.93
3.883	1.01	9.950	2.80	16.017	2.33	22.08	0.93
3.900	1.01	9.967	2.80	16.033	2.33	22.10	0.93
3.917	1.01	9.983	2.80	16.050	2.33	22.12	0.93
3.933	1.01	10.000	2.80	16.067	2.33	22.13	0.93
3.950	1.01	10.017	2.80	16.083	2.33	22.15	0.93
3.967	1.01	10.033	2.80	16.100	2.33	22.17	0.93
3.983	1.01	10.050	2.80	16.117	2.33	22.18	0.93
4.000	1.01	10.067	2.80	16.133	2.33	22.20	0.93
4.017	1.01	10.083	2.80	16.150	2.33	22.22	0.93
4.033	1.01	10.100	2.80	16.167	2.33	22.23	0.93
4.050	1.01	10.117	2.80	16.183	2.33	22.25	0.93
4.067	1.01	10.133	2.80	16.200	2.33	22.27	0.93
4.083	1.01	10.150	2.80	16.217	2.33	22.28	0.93
4.100	1.01	10.167	2.80	16.233	2.33	22.30	0.93
4.117	1.01	10.183	2.80	16.250	2.33	22.32	0.93
4.133	1.01	10.200	2.80	16.267	1.41	22.33	0.93
4.150	1.01	10.217	2.80	16.283	1.40	22.35	0.93
4.167	1.01	10.233	2.80	16.300	1.40	22.37	0.93
4.183	1.01	10.250	2.80	16.317	1.40	22.38	0.93
4.200	1.01	10.267	3.58	16.333	1.40	22.40	0.93
4.217	1.01	10.283	3.58	16.350	1.40	22.42	0.93
4.233	1.01	10.300	3.58	16.367	1.40	22.43	0.93
4.250	1.01	10.317	3.58	16.383	1.40	22.45	0.93
4.267	1.25	10.333	3.58	16.400	1.40	22.47	0.93
4.283	1.25	10.350	3.58	16.417	1.40	22.48	0.93
4.300	1.25	10.367	3.58	16.433	1.40	22.50	0.93
4.317	1.25	10.383	3.58	16.450	1.40	22.52	0.93
4.333	1.25	10.400	3.58	16.467	1.40	22.53	0.93
4.350	1.25	10.417	3.58	16.483	1.40	22.55	0.93
4.367	1.25	10.433	3.58	16.500	1.40	22.57	0.93
4.383	1.25	10.450	3.58	16.517	1.40	22.58	0.93
4.400	1.25	10.467	3.58	16.533	1.40	22.60	0.93
4.417	1.25	10.483	3.58	16.550	1.40	22.62	0.93
4.433	1.25	10.500	3.58	16.567	1.40	22.63	0.93
4.450	1.25	10.517	3.58	16.583	1.40	22.65	0.93
4.467	1.25	10.533	3.58	16.600	1.40	22.67	0.93
4.483	1.25	10.550	3.58	16.617	1.40	22.68	0.93
4.500	1.25	10.567	3.58	16.633	1.40	22.70	0.93
4.517	1.25	10.583	3.58	16.650	1.40	22.72	0.93
4.533	1.25	10.600	3.58	16.667	1.40	22.73	0.93
4.550	1.25	10.617	3.58	16.683	1.40	22.75	0.93
4.567	1.25	10.633	3.58	16.700	1.40	22.77	0.93

```
4.583    1.25 |10.650    3.58 |16.717    1.40 | 22.78    0.93
4.600    1.25 |10.667    3.58 |16.733    1.40 | 22.80    0.93
4.617    1.25 |10.683    3.58 |16.750    1.40 | 22.82    0.93
4.633    1.25 |10.700    3.58 |16.767    1.40 | 22.83    0.93
4.650    1.25 |10.717    3.58 |16.783    1.40 | 22.85    0.93
4.667    1.25 |10.733    3.58 |16.800    1.40 | 22.87    0.93
4.683    1.25 |10.750    3.58 |16.817    1.40 | 22.88    0.93
4.700    1.25 |10.767    4.82 |16.833    1.40 | 22.90    0.93
4.717    1.25 |10.783    4.82 |16.850    1.40 | 22.92    0.93
4.733    1.25 |10.800    4.82 |16.867    1.40 | 22.93    0.93
4.750    1.25 |10.817    4.82 |16.883    1.40 | 22.95    0.93
4.767    1.25 |10.833    4.82 |16.900    1.40 | 22.97    0.93
4.783    1.25 |10.850    4.82 |16.917    1.40 | 22.98    0.93
4.800    1.25 |10.867    4.82 |16.933    1.40 | 23.00    0.93
4.817    1.25 |10.883    4.82 |16.950    1.40 | 23.02    0.93
4.833    1.25 |10.900    4.82 |16.967    1.40 | 23.03    0.93
4.850    1.25 |10.917    4.82 |16.983    1.40 | 23.05    0.93
4.867    1.25 |10.933    4.82 |17.000    1.40 | 23.07    0.93
4.883    1.25 |10.950    4.82 |17.017    1.40 | 23.08    0.93
4.900    1.25 |10.967    4.82 |17.033    1.40 | 23.10    0.93
4.917    1.25 |10.983    4.82 |17.050    1.40 | 23.12    0.93
4.933    1.25 |11.000    4.82 |17.067    1.40 | 23.13    0.93
4.950    1.25 |11.017    4.82 |17.083    1.40 | 23.15    0.93
4.967    1.25 |11.033    4.82 |17.100    1.40 | 23.17    0.93
4.983    1.25 |11.050    4.82 |17.117    1.40 | 23.18    0.93
5.000    1.25 |11.067    4.82 |17.133    1.40 | 23.20    0.93
5.017    1.25 |11.083    4.82 |17.150    1.40 | 23.22    0.93
5.033    1.25 |11.100    4.82 |17.167    1.40 | 23.23    0.93
5.050    1.25 |11.117    4.82 |17.183    1.40 | 23.25    0.93
5.067    1.25 |11.133    4.82 |17.200    1.40 | 23.27    0.93
5.083    1.25 |11.150    4.82 |17.217    1.40 | 23.28    0.93
5.100    1.25 |11.167    4.82 |17.233    1.40 | 23.30    0.93
5.117    1.25 |11.183    4.82 |17.250    1.40 | 23.32    0.93
5.133    1.25 |11.200    4.82 |17.267    1.40 | 23.33    0.93
5.150    1.25 |11.217    4.82 |17.283    1.40 | 23.35    0.93
5.167    1.25 |11.233    4.82 |17.300    1.40 | 23.37    0.93
5.183    1.25 |11.250    4.82 |17.317    1.40 | 23.38    0.93
5.200    1.25 |11.267    7.47 |17.333    1.40 | 23.40    0.93
5.217    1.25 |11.283    7.47 |17.350    1.40 | 23.42    0.93
5.233    1.25 |11.300    7.47 |17.367    1.40 | 23.43    0.93
5.250    1.25 |11.317    7.47 |17.383    1.40 | 23.45    0.93
5.267    1.25 |11.333    7.47 |17.400    1.40 | 23.47    0.93
5.283    1.25 |11.350    7.47 |17.417    1.40 | 23.48    0.93
5.300    1.25 |11.367    7.47 |17.433    1.40 | 23.50    0.93
5.317    1.25 |11.383    7.47 |17.450    1.40 | 23.52    0.93
5.333    1.25 |11.400    7.47 |17.467    1.40 | 23.53    0.93
5.350    1.25 |11.417    7.47 |17.483    1.40 | 23.55    0.93
5.367    1.25 |11.433    7.47 |17.500    1.40 | 23.57    0.93
5.383    1.25 |11.450    7.47 |17.517    1.40 | 23.58    0.93
5.400    1.25 |11.467    7.47 |17.533    1.40 | 23.60    0.93
5.417    1.25 |11.483    7.47 |17.550    1.40 | 23.62    0.93
5.433    1.25 |11.500    7.47 |17.567    1.40 | 23.63    0.93
5.450    1.25 |11.517    7.47 |17.583    1.40 | 23.65    0.93
5.467    1.25 |11.533    7.47 |17.600    1.40 | 23.67    0.93
5.483    1.25 |11.550    7.47 |17.617    1.40 | 23.68    0.93
5.500    1.25 |11.567    7.47 |17.633    1.40 | 23.70    0.93
5.517    1.25 |11.583    7.47 |17.650    1.40 | 23.72    0.93
5.533    1.25 |11.600    7.47 |17.667    1.40 | 23.73    0.93
5.550    1.25 |11.617    7.47 |17.683    1.40 | 23.75    0.93
5.567    1.25 |11.633    7.47 |17.700    1.40 | 23.77    0.93
5.583    1.25 |11.650    7.47 |17.717    1.40 | 23.78    0.93
5.600    1.25 |11.667    7.47 |17.733    1.40 | 23.80    0.93
5.617    1.25 |11.683    7.47 |17.750    1.40 | 23.82    0.93
5.633    1.25 |11.700    7.47 |17.767    1.40 | 23.83    0.93
5.650    1.25 |11.717    7.47 |17.783    1.40 | 23.85    0.93
5.667    1.25 |11.733    7.47 |17.800    1.40 | 23.87    0.93
5.683    1.25 |11.750    7.47 |17.817    1.40 | 23.88    0.93
5.700    1.25 |11.767   23.03 |17.833    1.40 | 23.90    0.93
5.717    1.25 |11.783   23.03 |17.850    1.40 | 23.92    0.93
5.733    1.25 |11.800   23.03 |17.867    1.40 | 23.93    0.93
5.750    1.25 |11.817   23.03 |17.883    1.40 | 23.95    0.93
5.767    1.25 |11.833   23.03 |17.900    1.40 | 23.97    0.93
5.783    1.25 |11.850   23.03 |17.917    1.40 | 23.98    0.93
5.800    1.25 |11.867   23.03 |17.933    1.40 | 24.00    0.93
5.817    1.25 |11.883   23.03 |17.950    1.40 | 24.02    0.93
5.833    1.25 |11.900   23.03 |17.967    1.40 | 24.03    0.93
5.850    1.25 |11.917   23.03 |17.983    1.40 | 24.05    0.93
5.867    1.25 |11.933   23.03 |18.000    1.40 | 24.07    0.93
5.883    1.25 |11.950   23.03 |18.017    1.40 | 24.08    0.93
5.900    1.25 |11.967   23.03 |18.033    1.40 | 24.10    0.93
5.917    1.25 |11.983   23.03 |18.050    1.40 | 24.12    0.93
5.933    1.25 |12.000   23.03 |18.067    1.40 | 24.13    0.93
5.950    1.25 |12.017   95.20 |18.083    1.40 | 24.15    0.93
5.967    1.25 |12.033   95.25 |18.100    1.40 | 24.17    0.93
5.983    1.25 |12.050   95.25 |18.117    1.40 | 24.18    0.93
6.000    1.25 |12.067   95.25 |18.133    1.40 | 24.20    0.93
6.017    1.25 |12.083   95.25 |18.150    1.40 | 24.22    0.93
6.033    1.25 |12.100   95.25 |18.167    1.40 | 24.23    0.93
6.050    1.25 |12.117   95.25 |18.183    1.40 | 24.25    0.93
6.067    1.25 |12.133   95.25 |18.200    1.40 |
```

```
     Max.Eff.Inten.(mm/hr)=      95.25        41.96
               over (min)        5.00         3.00
     Storage Coeff.  (min)=      1.02 (ii)    2.52 (ii)
     Unit Hyd. Tpeak (min)=      5.00         3.00
     Unit Hyd. peak  (cms)=      0.47         0.42
                                                    *TOTALS*
     PEAK FLOW       (cms)=      0.03         0.00          0.031 (iii)
     TIME TO PEAK    (hrs)=     12.25        12.25          12.25
     RUNOFF VOLUME    (mm)=     75.82        28.37          63.95
     TOTAL RAINFALL   (mm)=     77.82        77.82          77.82
     RUNOFF COEFFICIENT   =      0.97         0.36           0.82

       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
            CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                         0.0000     0.0000    |   0.0160     0.0036
                         0.0010     0.0004    |   0.0170     0.0043
                         0.0060     0.0009    |   0.0180     0.0051
                         0.0080     0.0013    |   0.0560     0.0059
                         0.0100     0.0017    |   0.1330     0.0068
                         0.0120     0.0022    |   0.2430     0.0078
                         0.0130     0.0025    |   0.3860     0.0089
                         0.0140     0.0030    |   0.0000     0.0000

                                AREA     QPEAK     TPEAK       R.V.
                                (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)     0.133     0.031     12.25      63.95
   OUTFLOW: ID= 1 (  0015)     0.133     0.013     12.32      63.20

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 42.60
                  TIME SHIFT OF PEAK FLOW         (min)=  4.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0025

--------------------------------------------------------------------------------

--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |         AREA    QPEAK    TPEAK      R.V.
--------------------         (ha)    (cms)    (hrs)      (mm)
       ID1= 1 (  0015):     0.13    0.013    12.32     63.20
     + ID2= 2 (  0205):     0.02    0.002    12.37     26.70
       ================================================
       ID = 3 (  0007):     0.16    0.015    12.33     58.93

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
```

Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\e27b10b8-71
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\e27b10b8-71

DATE: 04-17-2023 TIME: 01:25:49

USER:

COMMENTS: _____

****
** SIMULATION : V) 10yr 24hr 15min SCS Type I **
****

READ STORM	Filename: C:\Users\cgagnon\AppData\Local\Temp\5c5ec430-821e-4636-8c82-03edb318c07e\63ac96bf
Ptotal= 92.93 mm	Comments: 10yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	1.67	12.75	13.38	19.00	1.67
0.50	1.02	6.75	1.67	13.00	6.88	19.25	1.67
0.75	1.02	7.00	1.67	13.25	6.88	19.50	1.67
1.00	1.02	7.25	1.67	13.50	5.02	19.75	1.67
1.25	1.02	7.50	2.04	13.75	5.02	20.00	1.67
1.50	1.02	7.75	2.04	14.00	3.90	20.25	1.67
1.75	1.02	8.00	2.04	14.25	3.90	20.50	1.12
2.00	1.02	8.25	2.04	14.50	2.79	20.75	1.12
2.25	1.02	8.50	2.42	14.75	2.79	21.00	1.12
2.50	1.21	8.75	2.42	15.00	2.79	21.25	1.12
2.75	1.21	9.00	2.60	15.25	2.79	21.50	1.12
3.00	1.21	9.25	2.60	15.50	2.79	21.75	1.12
3.25	1.21	9.50	2.97	15.75	2.79	22.00	1.12
3.50	1.21	9.75	2.97	16.00	2.79	22.25	1.12
3.75	1.21	10.00	3.35	16.25	2.79	22.50	1.12
4.00	1.21	10.25	3.35	16.50	1.67	22.75	1.12
4.25	1.21	10.50	4.27	16.75	1.67	23.00	1.12
4.50	1.49	10.75	4.27	17.00	1.67	23.25	1.12
4.75	1.49	11.00	5.76	17.25	1.67	23.50	1.12
5.00	1.49	11.25	5.76	17.50	1.67	23.75	1.12
5.25	1.49	11.50	8.92	17.75	1.67	24.00	1.12
5.50	1.49	11.75	8.92	18.00	1.67	24.25	1.12
5.75	1.49	12.00	27.51	18.25	1.67		
6.00	1.49	12.25	113.75	18.50	1.67		
6.25	1.49	12.50	13.38	18.75	1.67		

CALIB					
NASHYD (0204)	Area (ha)=	0.06	Curve Number (CN)=	71.0	
ID= 1 DT= 1.0 min	Ia (mm)=	4.85	# of Linear Res.(N)=	3.00	
	U.H. Tp(hrs)=	0.31			

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67
0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67
0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67
0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67

1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12
2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12
2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12
3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12
3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12
3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12

4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12
5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12
5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.005 (i)
TIME TO PEAK (hrs)= 12.467
RUNOFF VOLUME (mm)= 32.577
TOTAL RAINFALL (mm)= 92.931
RUNOFF COEFFICIENT = 0.351

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67
0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67

0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67
0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67
1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12
2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12
2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12
3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12

3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12
3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12
4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12
5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12
5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

			TOTALS
Max.Eff.Inten.(mm/hr)=	113.75	56.58	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.26 (ii)	4.05 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.44	0.26	
PEAK FLOW (cms)=	0.04	0.01	0.047 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	90.92	38.27	79.34
TOTAL RAINFALL (mm)=	92.93	92.93	92.93
RUNOFF COEFFICIENT =	0.98	0.41	0.85

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)= 0.11		
ID= 1 DT= 1.0 min	Total Imp(%)= 81.00	Dir. Conn.(%)= 81.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67
0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67
0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67
0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67
1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12

2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12
2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12
3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12
3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12
3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12
4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12

5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12
5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

Max.Eff.Inten.(mm/hr)=	113.75	56.58	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.89 (ii)	3.46 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.49	0.31	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.030 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	90.93	38.27	80.92
TOTAL RAINFALL (mm)=	92.93	92.93	92.93
RUNOFF COEFFICIENT =	0.98	0.41	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.047	12.25	79.34
+ ID2= 2 (0202):		0.11	0.030	12.25	80.92
ID = 3 (0010):		0.27	0.077	12.25	79.94

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.077	12.25	79.94
OUTFLOW: ID= 1 (0012)	0.275	0.019	12.35	79.11

PEAK FLOW REDUCTION [Qout/Qin](%)= 25.15
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0078

ADD HYD (0014)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0012):		0.27	0.019	12.35	79.11
+ ID2= 2 (0204):		0.06	0.005	12.47	32.58
ID = 3 (0014):		0.34	0.024	12.40	71.90

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB			
NASHYD (0205)	Area (ha)=	0.02	Curve Number (CN)= 74.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.56	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.22	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67

0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67
0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67
0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67
1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12
2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12
2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12

3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12
3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12
3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12
4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12
5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12
5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.002 (i)
TIME TO PEAK (hrs)= 12.367
RUNOFF VOLUME (mm)= 35.851

TOTAL RAINFALL (mm)= 92.931
RUNOFF COEFFICIENT = 0.386

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB					
STANDHYD (0203)	Area (ha)= 0.13				
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00	Dir. Conn.(%)= 75.00			

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.49	12.150	113.75	18.22	1.67
0.033	0.00	6.100	1.49	12.167	113.75	18.23	1.67
0.050	0.00	6.117	1.49	12.183	113.75	18.25	1.67
0.067	0.00	6.133	1.49	12.200	113.75	18.27	1.67
0.083	0.00	6.150	1.49	12.217	113.75	18.28	1.67
0.100	0.00	6.167	1.49	12.233	113.75	18.30	1.67
0.117	0.00	6.183	1.49	12.250	113.75	18.32	1.67
0.133	0.00	6.200	1.49	12.267	13.47	18.33	1.67
0.150	0.00	6.217	1.49	12.283	13.38	18.35	1.67
0.167	0.00	6.233	1.49	12.300	13.38	18.37	1.67
0.183	0.00	6.250	1.49	12.317	13.38	18.38	1.67
0.200	0.00	6.267	1.67	12.333	13.38	18.40	1.67
0.217	0.00	6.283	1.67	12.350	13.38	18.42	1.67
0.233	0.00	6.300	1.67	12.367	13.38	18.43	1.67
0.250	0.00	6.317	1.67	12.383	13.38	18.45	1.67
0.267	1.02	6.333	1.67	12.400	13.38	18.47	1.67
0.283	1.02	6.350	1.67	12.417	13.38	18.48	1.67
0.300	1.02	6.367	1.67	12.433	13.38	18.50	1.67
0.317	1.02	6.383	1.67	12.450	13.38	18.52	1.67
0.333	1.02	6.400	1.67	12.467	13.38	18.53	1.67
0.350	1.02	6.417	1.67	12.483	13.38	18.55	1.67
0.367	1.02	6.433	1.67	12.500	13.38	18.57	1.67
0.383	1.02	6.450	1.67	12.517	13.38	18.58	1.67
0.400	1.02	6.467	1.67	12.533	13.38	18.60	1.67
0.417	1.02	6.483	1.67	12.550	13.38	18.62	1.67
0.433	1.02	6.500	1.67	12.567	13.38	18.63	1.67
0.450	1.02	6.517	1.67	12.583	13.38	18.65	1.67
0.467	1.02	6.533	1.67	12.600	13.38	18.67	1.67
0.483	1.02	6.550	1.67	12.617	13.38	18.68	1.67
0.500	1.02	6.567	1.67	12.633	13.38	18.70	1.67
0.517	1.02	6.583	1.67	12.650	13.38	18.72	1.67
0.533	1.02	6.600	1.67	12.667	13.38	18.73	1.67
0.550	1.02	6.617	1.67	12.683	13.38	18.75	1.67
0.567	1.02	6.633	1.67	12.700	13.38	18.77	1.67
0.583	1.02	6.650	1.67	12.717	13.38	18.78	1.67
0.600	1.02	6.667	1.67	12.733	13.38	18.80	1.67
0.617	1.02	6.683	1.67	12.750	13.38	18.82	1.67
0.633	1.02	6.700	1.67	12.767	6.89	18.83	1.67
0.650	1.02	6.717	1.67	12.783	6.88	18.85	1.67
0.667	1.02	6.733	1.67	12.800	6.88	18.87	1.67
0.683	1.02	6.750	1.67	12.817	6.88	18.88	1.67
0.700	1.02	6.767	1.67	12.833	6.88	18.90	1.67
0.717	1.02	6.783	1.67	12.850	6.88	18.92	1.67
0.733	1.02	6.800	1.67	12.867	6.88	18.93	1.67
0.750	1.02	6.817	1.67	12.883	6.88	18.95	1.67
0.767	1.02	6.833	1.67	12.900	6.88	18.97	1.67
0.783	1.02	6.850	1.67	12.917	6.88	18.98	1.67
0.800	1.02	6.867	1.67	12.933	6.88	19.00	1.67
0.817	1.02	6.883	1.67	12.950	6.88	19.02	1.67
0.833	1.02	6.900	1.67	12.967	6.88	19.03	1.67
0.850	1.02	6.917	1.67	12.983	6.88	19.05	1.67
0.867	1.02	6.933	1.67	13.000	6.88	19.07	1.67
0.883	1.02	6.950	1.67	13.017	6.88	19.08	1.67
0.900	1.02	6.967	1.67	13.033	6.88	19.10	1.67
0.917	1.02	6.983	1.67	13.050	6.88	19.12	1.67
0.933	1.02	7.000	1.67	13.067	6.88	19.13	1.67
0.950	1.02	7.017	1.67	13.083	6.88	19.15	1.67
0.967	1.02	7.033	1.67	13.100	6.88	19.17	1.67
0.983	1.02	7.050	1.67	13.117	6.88	19.18	1.67
1.000	1.02	7.067	1.67	13.133	6.88	19.20	1.67
1.017	1.02	7.083	1.67	13.150	6.88	19.22	1.67
1.033	1.02	7.100	1.67	13.167	6.88	19.23	1.67
1.050	1.02	7.117	1.67	13.183	6.88	19.25	1.67
1.067	1.02	7.133	1.67	13.200	6.88	19.27	1.67
1.083	1.02	7.150	1.67	13.217	6.88	19.28	1.67
1.100	1.02	7.167	1.67	13.233	6.88	19.30	1.67
1.117	1.02	7.183	1.67	13.250	6.88	19.32	1.67
1.133	1.02	7.200	1.67	13.267	5.02	19.33	1.67
1.150	1.02	7.217	1.67	13.283	5.02	19.35	1.67
1.167	1.02	7.233	1.67	13.300	5.02	19.37	1.67
1.183	1.02	7.250	1.67	13.317	5.02	19.38	1.67
1.200	1.02	7.267	2.04	13.333	5.02	19.40	1.67
1.217	1.02	7.283	2.04	13.350	5.02	19.42	1.67
1.233	1.02	7.300	2.04	13.367	5.02	19.43	1.67
1.250	1.02	7.317	2.04	13.383	5.02	19.45	1.67
1.267	1.02	7.333	2.04	13.400	5.02	19.47	1.67
1.283	1.02	7.350	2.04	13.417	5.02	19.48	1.67
1.300	1.02	7.367	2.04	13.433	5.02	19.50	1.67
1.317	1.02	7.383	2.04	13.450	5.02	19.52	1.67
1.333	1.02	7.400	2.04	13.467	5.02	19.53	1.67
1.350	1.02	7.417	2.04	13.483	5.02	19.55	1.67
1.367	1.02	7.433	2.04	13.500	5.02	19.57	1.67
1.383	1.02	7.450	2.04	13.517	5.02	19.58	1.67
1.400	1.02	7.467	2.04	13.533	5.02	19.60	1.67
1.417	1.02	7.483	2.04	13.550	5.02	19.62	1.67
1.433	1.02	7.500	2.04	13.567	5.02	19.63	1.67
1.450	1.02	7.517	2.04	13.583	5.02	19.65	1.67
1.467	1.02	7.533	2.04	13.600	5.02	19.67	1.67
1.483	1.02	7.550	2.04	13.617	5.02	19.68	1.67
1.500	1.02	7.567	2.04	13.633	5.02	19.70	1.67
1.517	1.02	7.583	2.04	13.650	5.02	19.72	1.67
1.533	1.02	7.600	2.04	13.667	5.02	19.73	1.67
1.550	1.02	7.617	2.04	13.683	5.02	19.75	1.67
1.567	1.02	7.633	2.04	13.700	5.02	19.77	1.67
1.583	1.02	7.650	2.04	13.717	5.02	19.78	1.67
1.600	1.02	7.667	2.04	13.733	5.02	19.80	1.67
1.617	1.02	7.683	2.04	13.750	5.02	19.82	1.67
1.633	1.02	7.700	2.04	13.767	3.91	19.83	1.67
1.650	1.02	7.717	2.04	13.783	3.90	19.85	1.67
1.667	1.02	7.733	2.04	13.800	3.90	19.87	1.67
1.683	1.02	7.750	2.04	13.817	3.90	19.88	1.67
1.700	1.02	7.767	2.04	13.833	3.90	19.90	1.67
1.717	1.02	7.783	2.04	13.850	3.90	19.92	1.67
1.733	1.02	7.800	2.04	13.867	3.90	19.93	1.67
1.750	1.02	7.817	2.04	13.883	3.90	19.95	1.67
1.767	1.02	7.833	2.04	13.900	3.90	19.97	1.67
1.783	1.02	7.850	2.04	13.917	3.90	19.98	1.67
1.800	1.02	7.867	2.04	13.933	3.90	20.00	1.67
1.817	1.02	7.883	2.04	13.950	3.90	20.02	1.67
1.833	1.02	7.900	2.04	13.967	3.90	20.03	1.67
1.850	1.02	7.917	2.04	13.983	3.90	20.05	1.67
1.867	1.02	7.933	2.04	14.000	3.90	20.07	1.67
1.883	1.02	7.950	2.04	14.017	3.90	20.08	1.67
1.900	1.02	7.967	2.04	14.033	3.90	20.10	1.67
1.917	1.02	7.983	2.04	14.050	3.90	20.12	1.67
1.933	1.02	8.000	2.04	14.067	3.90	20.13	1.67
1.950	1.02	8.017	2.04	14.083	3.90	20.15	1.67
1.967	1.02	8.033	2.04	14.100	3.90	20.17	1.67
1.983	1.02	8.050	2.04	14.117	3.90	20.18	1.67
2.000	1.02	8.067	2.04	14.133	3.90	20.20	1.67
2.017	1.02	8.083	2.04	14.150	3.90	20.22	1.67
2.033	1.02	8.100	2.04	14.167	3.90	20.23	1.67
2.050	1.02	8.117	2.04	14.183	3.90	20.25	1.67
2.067	1.02	8.133	2.04	14.200	3.90	20.27	1.12
2.083	1.02	8.150	2.04	14.217	3.90	20.28	1.12
2.100	1.02	8.167	2.04	14.233	3.90	20.30	1.12
2.117	1.02	8.183	2.04	14.250	3.90	20.32	1.12
2.133	1.02	8.200	2.04	14.267	2.79	20.33	1.12
2.150	1.02	8.217	2.04	14.283	2.79	20.35	1.12
2.167	1.02	8.233	2.04	14.300	2.79	20.37	1.12
2.183	1.02	8.250	2.05	14.317	2.79	20.38	1.12
2.200	1.02	8.267	2.42	14.333	2.79	20.40	1.12
2.217	1.02	8.283	2.42	14.350	2.79	20.42	1.12
2.233	1.02	8.300	2.42	14.367	2.79	20.43	1.12
2.250	1.02	8.317	2.42	14.383	2.79	20.45	1.12
2.267	1.21	8.333	2.42	14.400	2.79	20.47	1.12
2.283	1.21	8.350	2.42	14.417	2.79	20.48	1.12
2.300	1.21	8.367	2.42	14.433	2.79	20.50	1.12
2.317	1.21	8.383	2.42	14.450	2.79	20.52	1.12
2.333	1.21	8.400	2.42	14.467	2.79	20.53	1.12
2.350	1.21	8.417	2.42	14.483	2.79	20.55	1.12
2.367	1.21	8.433	2.42	14.500	2.79	20.57	1.12
2.383	1.21	8.450	2.42	14.517	2.79	20.58	1.12
2.400	1.21	8.467	2.42	14.533	2.79	20.60	1.12

2.417	1.21	8.483	2.42	14.550	2.79	20.62	1.12
2.433	1.21	8.500	2.42	14.567	2.79	20.63	1.12
2.450	1.21	8.517	2.42	14.583	2.79	20.65	1.12
2.467	1.21	8.533	2.42	14.600	2.79	20.67	1.12
2.483	1.21	8.550	2.42	14.617	2.79	20.68	1.12
2.500	1.21	8.567	2.42	14.633	2.79	20.70	1.12
2.517	1.21	8.583	2.42	14.650	2.79	20.72	1.12
2.533	1.21	8.600	2.42	14.667	2.79	20.73	1.12
2.550	1.21	8.617	2.42	14.683	2.79	20.75	1.12
2.567	1.21	8.633	2.42	14.700	2.79	20.77	1.12
2.583	1.21	8.650	2.42	14.717	2.79	20.78	1.12
2.600	1.21	8.667	2.42	14.733	2.79	20.80	1.12
2.617	1.21	8.683	2.42	14.750	2.79	20.82	1.12
2.633	1.21	8.700	2.42	14.767	2.79	20.83	1.12
2.650	1.21	8.717	2.42	14.783	2.79	20.85	1.12
2.667	1.21	8.733	2.42	14.800	2.79	20.87	1.12
2.683	1.21	8.750	2.42	14.817	2.79	20.88	1.12
2.700	1.21	8.767	2.60	14.833	2.79	20.90	1.12
2.717	1.21	8.783	2.60	14.850	2.79	20.92	1.12
2.733	1.21	8.800	2.60	14.867	2.79	20.93	1.12
2.750	1.21	8.817	2.60	14.883	2.79	20.95	1.12
2.767	1.21	8.833	2.60	14.900	2.79	20.97	1.12
2.783	1.21	8.850	2.60	14.917	2.79	20.98	1.12
2.800	1.21	8.867	2.60	14.933	2.79	21.00	1.12
2.817	1.21	8.883	2.60	14.950	2.79	21.02	1.12
2.833	1.21	8.900	2.60	14.967	2.79	21.03	1.12
2.850	1.21	8.917	2.60	14.983	2.79	21.05	1.12
2.867	1.21	8.933	2.60	15.000	2.79	21.07	1.12
2.883	1.21	8.950	2.60	15.017	2.79	21.08	1.12
2.900	1.21	8.967	2.60	15.033	2.79	21.10	1.12
2.917	1.21	8.983	2.60	15.050	2.79	21.12	1.12
2.933	1.21	9.000	2.60	15.067	2.79	21.13	1.12
2.950	1.21	9.017	2.60	15.083	2.79	21.15	1.12
2.967	1.21	9.033	2.60	15.100	2.79	21.17	1.12
2.983	1.21	9.050	2.60	15.117	2.79	21.18	1.12
3.000	1.21	9.067	2.60	15.133	2.79	21.20	1.12
3.017	1.21	9.083	2.60	15.150	2.79	21.22	1.12
3.033	1.21	9.100	2.60	15.167	2.79	21.23	1.12
3.050	1.21	9.117	2.60	15.183	2.79	21.25	1.12
3.067	1.21	9.133	2.60	15.200	2.79	21.27	1.12
3.083	1.21	9.150	2.60	15.217	2.79	21.28	1.12
3.100	1.21	9.167	2.60	15.233	2.79	21.30	1.12
3.117	1.21	9.183	2.60	15.250	2.79	21.32	1.12
3.133	1.21	9.200	2.60	15.267	2.79	21.33	1.12
3.150	1.21	9.217	2.60	15.283	2.79	21.35	1.12
3.167	1.21	9.233	2.60	15.300	2.79	21.37	1.12
3.183	1.21	9.250	2.60	15.317	2.79	21.38	1.12
3.200	1.21	9.267	2.97	15.333	2.79	21.40	1.12
3.217	1.21	9.283	2.97	15.350	2.79	21.42	1.12
3.233	1.21	9.300	2.97	15.367	2.79	21.43	1.12
3.250	1.21	9.317	2.97	15.383	2.79	21.45	1.12
3.267	1.21	9.333	2.97	15.400	2.79	21.47	1.12
3.283	1.21	9.350	2.97	15.417	2.79	21.48	1.12
3.300	1.21	9.367	2.97	15.433	2.79	21.50	1.12
3.317	1.21	9.383	2.97	15.450	2.79	21.52	1.12
3.333	1.21	9.400	2.97	15.467	2.79	21.53	1.12
3.350	1.21	9.417	2.97	15.483	2.79	21.55	1.12
3.367	1.21	9.433	2.97	15.500	2.79	21.57	1.12
3.383	1.21	9.450	2.97	15.517	2.79	21.58	1.12
3.400	1.21	9.467	2.97	15.533	2.79	21.60	1.12
3.417	1.21	9.483	2.97	15.550	2.79	21.62	1.12
3.433	1.21	9.500	2.97	15.567	2.79	21.63	1.12
3.450	1.21	9.517	2.97	15.583	2.79	21.65	1.12
3.467	1.21	9.533	2.97	15.600	2.79	21.67	1.12
3.483	1.21	9.550	2.97	15.617	2.79	21.68	1.12
3.500	1.21	9.567	2.97	15.633	2.79	21.70	1.12
3.517	1.21	9.583	2.97	15.650	2.79	21.72	1.12
3.533	1.21	9.600	2.97	15.667	2.79	21.73	1.12
3.550	1.21	9.617	2.97	15.683	2.79	21.75	1.12
3.567	1.21	9.633	2.97	15.700	2.79	21.77	1.12
3.583	1.21	9.650	2.97	15.717	2.79	21.78	1.12
3.600	1.21	9.667	2.97	15.733	2.79	21.80	1.12
3.617	1.21	9.683	2.97	15.750	2.79	21.82	1.12
3.633	1.21	9.700	2.97	15.767	2.79	21.83	1.12
3.650	1.21	9.717	2.97	15.783	2.79	21.85	1.12
3.667	1.21	9.733	2.97	15.800	2.79	21.87	1.12
3.683	1.21	9.750	2.97	15.817	2.79	21.88	1.12
3.700	1.21	9.767	3.35	15.833	2.79	21.90	1.12
3.717	1.21	9.783	3.35	15.850	2.79	21.92	1.12
3.733	1.21	9.800	3.35	15.867	2.79	21.93	1.12
3.750	1.21	9.817	3.35	15.883	2.79	21.95	1.12
3.767	1.21	9.833	3.35	15.900	2.79	21.97	1.12
3.783	1.21	9.850	3.35	15.917	2.79	21.98	1.12
3.800	1.21	9.867	3.35	15.933	2.79	22.00	1.12
3.817	1.21	9.883	3.35	15.950	2.79	22.02	1.12
3.833	1.21	9.900	3.35	15.967	2.79	22.03	1.12
3.850	1.21	9.917	3.35	15.983	2.79	22.05	1.12
3.867	1.21	9.933	3.35	16.000	2.79	22.07	1.12
3.883	1.21	9.950	3.35	16.017	2.79	22.08	1.12
3.900	1.21	9.967	3.35	16.033	2.79	22.10	1.12
3.917	1.21	9.983	3.35	16.050	2.79	22.12	1.12
3.933	1.21	10.000	3.35	16.067	2.79	22.13	1.12
3.950	1.21	10.017	3.35	16.083	2.79	22.15	1.12
3.967	1.21	10.033	3.35	16.100	2.79	22.17	1.12
3.983	1.21	10.050	3.35	16.117	2.79	22.18	1.12
4.000	1.21	10.067	3.35	16.133	2.79	22.20	1.12
4.017	1.21	10.083	3.35	16.150	2.79	22.22	1.12
4.033	1.21	10.100	3.35	16.167	2.79	22.23	1.12
4.050	1.21	10.117	3.35	16.183	2.79	22.25	1.12
4.067	1.21	10.133	3.35	16.200	2.79	22.27	1.12
4.083	1.21	10.150	3.35	16.217	2.79	22.28	1.12
4.100	1.21	10.167	3.35	16.233	2.79	22.30	1.12
4.117	1.21	10.183	3.35	16.250	2.79	22.32	1.12
4.133	1.21	10.200	3.35	16.267	1.68	22.33	1.12
4.150	1.21	10.217	3.35	16.283	1.67	22.35	1.12
4.167	1.21	10.233	3.35	16.300	1.67	22.37	1.12
4.183	1.21	10.250	3.35	16.317	1.67	22.38	1.12
4.200	1.21	10.267	4.27	16.333	1.67	22.40	1.12
4.217	1.21	10.283	4.27	16.350	1.67	22.42	1.12
4.233	1.21	10.300	4.27	16.367	1.67	22.43	1.12
4.250	1.21	10.317	4.27	16.383	1.67	22.45	1.12
4.267	1.49	10.333	4.27	16.400	1.67	22.47	1.12
4.283	1.49	10.350	4.27	16.417	1.67	22.48	1.12
4.300	1.49	10.367	4.27	16.433	1.67	22.50	1.12
4.317	1.49	10.383	4.27	16.450	1.67	22.52	1.12
4.333	1.49	10.400	4.27	16.467	1.67	22.53	1.12
4.350	1.49	10.417	4.27	16.483	1.67	22.55	1.12
4.367	1.49	10.433	4.27	16.500	1.67	22.57	1.12
4.383	1.49	10.450	4.27	16.517	1.67	22.58	1.12
4.400	1.49	10.467	4.27	16.533	1.67	22.60	1.12
4.417	1.49	10.483	4.27	16.550	1.67	22.62	1.12
4.433	1.49	10.500	4.27	16.567	1.67	22.63	1.12
4.450	1.49	10.517	4.27	16.583	1.67	22.65	1.12
4.467	1.49	10.533	4.27	16.600	1.67	22.67	1.12
4.483	1.49	10.550	4.27	16.617	1.67	22.68	1.12
4.500	1.49	10.567	4.27	16.633	1.67	22.70	1.12
4.517	1.49	10.583	4.27	16.650	1.67	22.72	1.12
4.533	1.49	10.600	4.27	16.667	1.67	22.73	1.12
4.550	1.49	10.617	4.27	16.683	1.67	22.75	1.12
4.567	1.49	10.633	4.27	16.700	1.67	22.77	1.12
4.583	1.49	10.650	4.27	16.717	1.67	22.78	1.12
4.600	1.49	10.667	4.27	16.733	1.67	22.80	1.12
4.617	1.49	10.683	4.27	16.750	1.67	22.82	1.12
4.633	1.49	10.700	4.27	16.767	1.67	22.83	1.12
4.650	1.49	10.717	4.27	16.783	1.67	22.85	1.12
4.667	1.49	10.733	4.27	16.800	1.67	22.87	1.12
4.683	1.49	10.750	4.28	16.817	1.67	22.88	1.12
4.700	1.49	10.767	5.76	16.833	1.67	22.90	1.12
4.717	1.49	10.783	5.76	16.850	1.67	22.92	1.12
4.733	1.49	10.800	5.76	16.867	1.67	22.93	1.12
4.750	1.49	10.817	5.76	16.883	1.67	22.95	1.12
4.767	1.49	10.833	5.76	16.900	1.67	22.97	1.12
4.783	1.49	10.850	5.76	16.917	1.67	22.98	1.12
4.800	1.49	10.867	5.76	16.933	1.67	23.00	1.12
4.817	1.49	10.883	5.76	16.950	1.67	23.02	1.12
4.833	1.49	10.900	5.76	16.967	1.67	23.03	1.12
4.850	1.49	10.917	5.76	16.983	1.67	23.05	1.12
4.867	1.49	10.933	5.76	17.000	1.67	23.07	1.12
4.883	1.49	10.950	5.76	17.017	1.67	23.08	1.12
4.900	1.49	10.967	5.76	17.033	1.67	23.10	1.12
4.917	1.49	10.983	5.76	17.050	1.67	23.12	1.12
4.933	1.49	11.000	5.76	17.067	1.67	23.13	1.12
4.950	1.49	11.017	5.76	17.083	1.67	23.15	1.12
4.967	1.49	11.033	5.76	17.100	1.67	23.17	1.12
4.983	1.49	11.050	5.76	17.117	1.67	23.18	1.12
5.000	1.49	11.067	5.76	17.133	1.67	23.20	1.12
5.017	1.49	11.083	5.76	17.150	1.67	23.22	1.12
5.033	1.49	11.100	5.76	17.167	1.67	23.23	1.12
5.050	1.49	11.117	5.76	17.183	1.67	23.25	1.12
5.067	1.49	11.133	5.76	17.200	1.67	23.27	1.12
5.083	1.49	11.150	5.76	17.217	1.67	23.28	1.12
5.100	1.49	11.167	5.76	17.233	1.67	23.30	1.12
5.117	1.49	11.183	5.76	17.250	1.67	23.32	1.12
5.133	1.49	11.200	5.76	17.267	1.67	23.33	1.12
5.150	1.49	11.217	5.76	17.283	1.67	23.35	1.12
5.167	1.49	11.233	5.76	17.300	1.67	23.37	1.12
5.183	1.49	11.250	5.76	17.317	1.67	23.38	1.12
5.200	1.49	11.267	8.92	17.333	1.67	23.40	1.12

5.217	1.49	11.283	8.92	17.350	1.67	23.42	1.12
5.233	1.49	11.300	8.92	17.367	1.67	23.43	1.12
5.250	1.49	11.317	8.92	17.383	1.67	23.45	1.12
5.267	1.49	11.333	8.92	17.400	1.67	23.47	1.12
5.283	1.49	11.350	8.92	17.417	1.67	23.48	1.12
5.300	1.49	11.367	8.92	17.433	1.67	23.50	1.12
5.317	1.49	11.383	8.92	17.450	1.67	23.52	1.12
5.333	1.49	11.400	8.92	17.467	1.67	23.53	1.12
5.350	1.49	11.417	8.92	17.483	1.67	23.55	1.12
5.367	1.49	11.433	8.92	17.500	1.67	23.57	1.12
5.383	1.49	11.450	8.92	17.517	1.67	23.58	1.12
5.400	1.49	11.467	8.92	17.533	1.67	23.60	1.12
5.417	1.49	11.483	8.92	17.550	1.67	23.62	1.12
5.433	1.49	11.500	8.92	17.567	1.67	23.63	1.12
5.450	1.49	11.517	8.92	17.583	1.67	23.65	1.12
5.467	1.49	11.533	8.92	17.600	1.67	23.67	1.12
5.483	1.49	11.550	8.92	17.617	1.67	23.68	1.12
5.500	1.49	11.567	8.92	17.633	1.67	23.70	1.12
5.517	1.49	11.583	8.92	17.650	1.67	23.72	1.12
5.533	1.49	11.600	8.92	17.667	1.67	23.73	1.12
5.550	1.49	11.617	8.92	17.683	1.67	23.75	1.12
5.567	1.49	11.633	8.92	17.700	1.67	23.77	1.12
5.583	1.49	11.650	8.92	17.717	1.67	23.78	1.12
5.600	1.49	11.667	8.92	17.733	1.67	23.80	1.12
5.617	1.49	11.683	8.92	17.750	1.67	23.82	1.12
5.633	1.49	11.700	8.92	17.767	1.67	23.83	1.12
5.650	1.49	11.717	8.92	17.783	1.67	23.85	1.12
5.667	1.49	11.733	8.92	17.800	1.67	23.87	1.12
5.683	1.49	11.750	8.92	17.817	1.67	23.88	1.12
5.700	1.49	11.767	27.50	17.833	1.67	23.90	1.12
5.717	1.49	11.783	27.51	17.850	1.67	23.92	1.12
5.733	1.49	11.800	27.51	17.867	1.67	23.93	1.12
5.750	1.49	11.817	27.51	17.883	1.67	23.95	1.12
5.767	1.49	11.833	27.51	17.900	1.67	23.97	1.12
5.783	1.49	11.850	27.51	17.917	1.67	23.98	1.12
5.800	1.49	11.867	27.51	17.933	1.67	24.00	1.12
5.817	1.49	11.883	27.51	17.950	1.67	24.02	1.12
5.833	1.49	11.900	27.51	17.967	1.67	24.03	1.12
5.850	1.49	11.917	27.51	17.983	1.67	24.05	1.12
5.867	1.49	11.933	27.51	18.000	1.67	24.07	1.12
5.883	1.49	11.950	27.51	18.017	1.67	24.08	1.12
5.900	1.49	11.967	27.51	18.033	1.67	24.10	1.12
5.917	1.49	11.983	27.51	18.050	1.67	24.12	1.12
5.933	1.49	12.000	27.51	18.067	1.67	24.13	1.12
5.950	1.49	12.017	113.69	18.083	1.67	24.15	1.12
5.967	1.49	12.033	113.75	18.100	1.67	24.17	1.12
5.983	1.49	12.050	113.75	18.117	1.67	24.18	1.12
6.000	1.49	12.067	113.75	18.133	1.67	24.20	1.12
6.017	1.49	12.083	113.75	18.150	1.67	24.22	1.12
6.033	1.49	12.100	113.75	18.167	1.67	24.23	1.12
6.050	1.49	12.117	113.75	18.183	1.67	24.25	1.12
6.067	1.49	12.133	113.75	18.200	1.67		

Max.Eff.Inten.(mm/hr)=	113.75	56.58	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.95 (ii)	2.35 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.48	0.44	
			TOTALS
PEAK FLOW (cms)=	0.03	0.01	0.037 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	90.92	38.27	77.76
TOTAL RAINFALL (mm)=	92.93	92.93	92.93
RUNOFF COEFFICIENT =	0.98	0.41	0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015) | IN= 2---> OUT= 1 | DT= 1.0 min	OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.037	12.25	77.76
OUTFLOW: ID= 1 (0015)	0.133	0.014	12.32	77.00

PEAK FLOW REDUCTION [Qout/Qin](%)= 38.35
TIME SHIFT OF PEAK FLOW (min)= 4.00
MAXIMUM STORAGE USED (ha.m.)= 0.0031

ADD HYD (0007) | 1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0015):	0.13	0.014	12.32	77.00
+ ID2= 2 (0205):	0.02	0.002	12.37	35.85
ID = 3 (0007):	0.16	0.016	12.33	72.33

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

V V I SSSSS U U A L (v 6.1.2002)
V V I SS U U A A L
V V I SS U U AAAAA L
V V I SS U U A A L
VV I SSSSS UUUUU A A LLLLL

OOO TTTTT TTTTT H H Y Y M M OOO TM
O O T T H H Y Y MM MM O O
O O T T H H Y M M O O
OOO T T H H Y M M OOO

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***** D E T A I L E D O U T P U T *****

Input filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
Output filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\71ed04e8-d2
Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\71ed04e8-d2

DATE: 04-17-2023 TIME: 01:25:45

USER:

COMMENTS: _____

** SIMULATION : W) 25yr 24hr 15min SCS Type I **

READ STORM | Ptotal=111.56 mm	Filename: C:\Users\cgagnon\AppData\Local\Temp\5c5ec430-821e-4636-8c82-03edb318c07e\7ca5777e Comments: 25yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.01	12.75	16.06	19.00	2.01
0.50	1.23	6.75	2.01	13.00	8.26	19.25	2.01
0.75	1.23	7.00	2.01	13.25	8.26	19.50	2.01
1.00	1.23	7.25	2.01	13.50	6.02	19.75	2.01
1.25	1.23	7.50	2.45	13.75	6.02	20.00	2.01
1.50	1.23	7.75	2.45	14.00	4.69	20.25	2.01
1.75	1.23	8.00	2.45	14.25	4.69	20.50	1.34
2.00	1.23	8.25	2.45	14.50	3.35	20.75	1.34
2.25	1.23	8.50	2.90	14.75	3.35	21.00	1.34
2.50	1.45	8.75	2.90	15.00	3.35	21.25	1.34

2.75	1.45	9.00	3.12	15.25	3.35	21.50	1.34
3.00	1.45	9.25	3.12	15.50	3.35	21.75	1.34
3.25	1.45	9.50	3.57	15.75	3.35	22.00	1.34
3.50	1.45	9.75	3.57	16.00	3.35	22.25	1.34
3.75	1.45	10.00	4.02	16.25	3.35	22.50	1.34
4.00	1.45	10.25	4.02	16.50	2.01	22.75	1.34
4.25	1.45	10.50	5.13	16.75	2.01	23.00	1.34
4.50	1.78	10.75	5.13	17.00	2.01	23.25	1.34
4.75	1.78	11.00	6.92	17.25	2.01	23.50	1.34
5.00	1.78	11.25	6.92	17.50	2.01	23.75	1.34
5.25	1.78	11.50	10.71	17.75	2.01	24.00	1.34
5.50	1.78	11.75	10.71	18.00	2.01	24.25	1.34
5.75	1.78	12.00	33.02	18.25	2.01		
6.00	1.78	12.25	136.55	18.50	2.01		
6.25	1.78	12.50	16.06	18.75	2.01		

CALIB			
NASHYD (0204)	Area (ha)=	0.06	Curve Number (CN)= 71.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.85	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01
0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01
0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01
1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01
1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34
2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34

2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34
3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34
3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34
4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34
4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34
5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34

5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34
5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34
6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.006 (i)
TIME TO PEAK (hrs)= 12.450
RUNOFF VOLUME (mm)= 43.963
TOTAL RAINFALL (mm)= 111.561
RUNOFF COEFFICIENT = 0.394

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB STANDHYD (0201) ID= 1 DT= 1.0 min	Area (ha)= 0.17 Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01
0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01
0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01
1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01

1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34
2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34
2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34
3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34
3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34
4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34

4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34
5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34
5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34
5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34
6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Max.Eff.Inten.(mm/hr)=	136.55	75.97	
over (min)	5.00	4.00	
Storage Coeff. (min)=	1.17 (ii)	3.76 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.45	0.29	
			TOTALS
PEAK FLOW (cms)=	0.05	0.01	0.058 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	109.56	51.45	96.77
TOTAL RAINFALL (mm)=	111.56	111.56	111.56
RUNOFF COEFFICIENT =	0.98	0.46	0.87

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01

0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01
0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01
1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01
1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34
2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34
2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34

3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34
3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34
4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34
4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34
5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34
5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34

5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34
6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Max.Eff.Inten.(mm/hr)=	136.55	75.97	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.83 (ii)	3.21 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.50	0.32	
			TOTALS
PEAK FLOW (cms)=	0.03	0.00	0.037 (iii)
TIME TO PEAK (hrs)=	12.23	12.25	12.25
RUNOFF VOLUME (mm)=	109.56	51.45	98.51
TOTAL RAINFALL (mm)=	111.56	111.56	111.56
RUNOFF COEFFICIENT =	0.98	0.46	0.88

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):	0.17	0.058	12.25	96.77
+ ID2= 2 (0202):	0.11	0.037	12.25	98.51
ID = 3 (0010):	0.27	0.094	12.25	97.44

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)
IN= 2---> OUT= 1
DT= 1.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0200	0.0082
0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.094	12.25	97.44
OUTFLOW: ID= 1 (0012)	0.275	0.021	12.35	96.61

PEAK FLOW REDUCTION [Qout/Qin](%)= 22.11
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0096

ADD HYD (0014)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.021	12.35	96.61
+ ID2= 2 (0204):	0.06	0.006	12.45	43.96
ID = 3 (0014):	0.34	0.027	12.43	88.68

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
NASHYD (0205)
ID= 1 DT= 1.0 min

Area (ha)= 0.02 Curve Number (CN)= 74.0
Ia (mm)= 4.56 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01
0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01
0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01

1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01
1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34
2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34
2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34
3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34
3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34

4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34
4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34
5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34
5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34
5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34
6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.003 (i)
TIME TO PEAK (hrs)= 12.367
RUNOFF VOLUME (mm)= 47.967
TOTAL RAINFALL (mm)= 111.561
RUNOFF COEFFICIENT = 0.430

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0203) | Area (ha)= 0.13
ID= 1 DT= 1.0 min | Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	1.78	12.150	136.55	18.22	2.01
0.033	0.00	6.100	1.78	12.167	136.55	18.23	2.01
0.050	0.00	6.117	1.78	12.183	136.55	18.25	2.01
0.067	0.00	6.133	1.78	12.200	136.55	18.27	2.01
0.083	0.00	6.150	1.78	12.217	136.55	18.28	2.01
0.100	0.00	6.167	1.78	12.233	136.55	18.30	2.01
0.117	0.00	6.183	1.78	12.250	136.55	18.32	2.01
0.133	0.00	6.200	1.78	12.267	16.17	18.33	2.01
0.150	0.00	6.217	1.78	12.283	16.06	18.35	2.01
0.167	0.00	6.233	1.78	12.300	16.06	18.37	2.01
0.183	0.00	6.250	1.79	12.317	16.06	18.38	2.01
0.200	0.00	6.267	2.01	12.333	16.06	18.40	2.01
0.217	0.00	6.283	2.01	12.350	16.06	18.42	2.01

0.233	0.00	6.300	2.01	12.367	16.06	18.43	2.01
0.250	0.00	6.317	2.01	12.383	16.06	18.45	2.01
0.267	1.23	6.333	2.01	12.400	16.06	18.47	2.01
0.283	1.23	6.350	2.01	12.417	16.06	18.48	2.01
0.300	1.23	6.367	2.01	12.433	16.06	18.50	2.01
0.317	1.23	6.383	2.01	12.450	16.06	18.52	2.01
0.333	1.23	6.400	2.01	12.467	16.06	18.53	2.01
0.350	1.23	6.417	2.01	12.483	16.06	18.55	2.01
0.367	1.23	6.433	2.01	12.500	16.06	18.57	2.01
0.383	1.23	6.450	2.01	12.517	16.06	18.58	2.01
0.400	1.23	6.467	2.01	12.533	16.06	18.60	2.01
0.417	1.23	6.483	2.01	12.550	16.06	18.62	2.01
0.433	1.23	6.500	2.01	12.567	16.06	18.63	2.01
0.450	1.23	6.517	2.01	12.583	16.06	18.65	2.01
0.467	1.23	6.533	2.01	12.600	16.06	18.67	2.01
0.483	1.23	6.550	2.01	12.617	16.06	18.68	2.01
0.500	1.23	6.567	2.01	12.633	16.06	18.70	2.01
0.517	1.23	6.583	2.01	12.650	16.06	18.72	2.01
0.533	1.23	6.600	2.01	12.667	16.06	18.73	2.01
0.550	1.23	6.617	2.01	12.683	16.06	18.75	2.01
0.567	1.23	6.633	2.01	12.700	16.06	18.77	2.01
0.583	1.23	6.650	2.01	12.717	16.06	18.78	2.01
0.600	1.23	6.667	2.01	12.733	16.06	18.80	2.01
0.617	1.23	6.683	2.01	12.750	16.06	18.82	2.01
0.633	1.23	6.700	2.01	12.767	8.27	18.83	2.01
0.650	1.23	6.717	2.01	12.783	8.26	18.85	2.01
0.667	1.23	6.733	2.01	12.800	8.26	18.87	2.01
0.683	1.23	6.750	2.01	12.817	8.26	18.88	2.01
0.700	1.23	6.767	2.01	12.833	8.26	18.90	2.01
0.717	1.23	6.783	2.01	12.850	8.26	18.92	2.01
0.733	1.23	6.800	2.01	12.867	8.26	18.93	2.01
0.750	1.23	6.817	2.01	12.883	8.26	18.95	2.01
0.767	1.23	6.833	2.01	12.900	8.26	18.97	2.01
0.783	1.23	6.850	2.01	12.917	8.26	18.98	2.01
0.800	1.23	6.867	2.01	12.933	8.26	19.00	2.01
0.817	1.23	6.883	2.01	12.950	8.26	19.02	2.01
0.833	1.23	6.900	2.01	12.967	8.26	19.03	2.01
0.850	1.23	6.917	2.01	12.983	8.26	19.05	2.01
0.867	1.23	6.933	2.01	13.000	8.26	19.07	2.01
0.883	1.23	6.950	2.01	13.017	8.26	19.08	2.01
0.900	1.23	6.967	2.01	13.033	8.26	19.10	2.01
0.917	1.23	6.983	2.01	13.050	8.26	19.12	2.01
0.933	1.23	7.000	2.01	13.067	8.26	19.13	2.01
0.950	1.23	7.017	2.01	13.083	8.26	19.15	2.01
0.967	1.23	7.033	2.01	13.100	8.26	19.17	2.01
0.983	1.23	7.050	2.01	13.117	8.26	19.18	2.01
1.000	1.23	7.067	2.01	13.133	8.26	19.20	2.01
1.017	1.23	7.083	2.01	13.150	8.26	19.22	2.01
1.033	1.23	7.100	2.01	13.167	8.26	19.23	2.01
1.050	1.23	7.117	2.01	13.183	8.26	19.25	2.01
1.067	1.23	7.133	2.01	13.200	8.26	19.27	2.01
1.083	1.23	7.150	2.01	13.217	8.26	19.28	2.01
1.100	1.23	7.167	2.01	13.233	8.26	19.30	2.01
1.117	1.23	7.183	2.01	13.250	8.26	19.32	2.01
1.133	1.23	7.200	2.01	13.267	6.03	19.33	2.01
1.150	1.23	7.217	2.01	13.283	6.02	19.35	2.01
1.167	1.23	7.233	2.01	13.300	6.02	19.37	2.01
1.183	1.23	7.250	2.01	13.317	6.02	19.38	2.01
1.200	1.23	7.267	2.45	13.333	6.02	19.40	2.01
1.217	1.23	7.283	2.45	13.350	6.02	19.42	2.01
1.233	1.23	7.300	2.45	13.367	6.02	19.43	2.01
1.250	1.23	7.317	2.45	13.383	6.02	19.45	2.01
1.267	1.23	7.333	2.45	13.400	6.02	19.47	2.01
1.283	1.23	7.350	2.45	13.417	6.02	19.48	2.01
1.300	1.23	7.367	2.45	13.433	6.02	19.50	2.01
1.317	1.23	7.383	2.45	13.450	6.02	19.52	2.01
1.333	1.23	7.400	2.45	13.467	6.02	19.53	2.01
1.350	1.23	7.417	2.45	13.483	6.02	19.55	2.01
1.367	1.23	7.433	2.45	13.500	6.02	19.57	2.01
1.383	1.23	7.450	2.45	13.517	6.02	19.58	2.01
1.400	1.23	7.467	2.45	13.533	6.02	19.60	2.01
1.417	1.23	7.483	2.45	13.550	6.02	19.62	2.01
1.433	1.23	7.500	2.45	13.567	6.02	19.63	2.01
1.450	1.23	7.517	2.45	13.583	6.02	19.65	2.01
1.467	1.23	7.533	2.45	13.600	6.02	19.67	2.01
1.483	1.23	7.550	2.45	13.617	6.02	19.68	2.01
1.500	1.23	7.567	2.45	13.633	6.02	19.70	2.01
1.517	1.23	7.583	2.45	13.650	6.02	19.72	2.01
1.533	1.23	7.600	2.45	13.667	6.02	19.73	2.01
1.550	1.23	7.617	2.45	13.683	6.02	19.75	2.01
1.567	1.23	7.633	2.45	13.700	6.02	19.77	2.01
1.583	1.23	7.650	2.45	13.717	6.02	19.78	2.01
1.600	1.23	7.667	2.45	13.733	6.02	19.80	2.01
1.617	1.23	7.683	2.45	13.750	6.02	19.82	2.01
1.633	1.23	7.700	2.45	13.767	4.69	19.83	2.01
1.650	1.23	7.717	2.45	13.783	4.69	19.85	2.01
1.667	1.23	7.733	2.45	13.800	4.69	19.87	2.01
1.683	1.23	7.750	2.45	13.817	4.69	19.88	2.01
1.700	1.23	7.767	2.45	13.833	4.69	19.90	2.01
1.717	1.23	7.783	2.45	13.850	4.69	19.92	2.01
1.733	1.23	7.800	2.45	13.867	4.69	19.93	2.01
1.750	1.23	7.817	2.45	13.883	4.69	19.95	2.01
1.767	1.23	7.833	2.45	13.900	4.69	19.97	2.01
1.783	1.23	7.850	2.45	13.917	4.69	19.98	2.01
1.800	1.23	7.867	2.45	13.933	4.69	20.00	2.01
1.817	1.23	7.883	2.45	13.950	4.69	20.02	2.01
1.833	1.23	7.900	2.45	13.967	4.69	20.03	2.01
1.850	1.23	7.917	2.45	13.983	4.69	20.05	2.01
1.867	1.23	7.933	2.45	14.000	4.69	20.07	2.01
1.883	1.23	7.950	2.45	14.017	4.69	20.08	2.01
1.900	1.23	7.967	2.45	14.033	4.69	20.10	2.01
1.917	1.23	7.983	2.45	14.050	4.69	20.12	2.01
1.933	1.23	8.000	2.45	14.067	4.69	20.13	2.01
1.950	1.23	8.017	2.45	14.083	4.69	20.15	2.01
1.967	1.23	8.033	2.45	14.100	4.69	20.17	2.01
1.983	1.23	8.050	2.45	14.117	4.69	20.18	2.01
2.000	1.23	8.067	2.45	14.133	4.69	20.20	2.01
2.017	1.23	8.083	2.45	14.150	4.69	20.22	2.01
2.033	1.23	8.100	2.45	14.167	4.69	20.23	2.01
2.050	1.23	8.117	2.45	14.183	4.69	20.25	2.01
2.067	1.23	8.133	2.45	14.200	4.69	20.27	1.34
2.083	1.23	8.150	2.45	14.217	4.69	20.28	1.34
2.100	1.23	8.167	2.45	14.233	4.69	20.30	1.34
2.117	1.23	8.183	2.45	14.250	4.69	20.32	1.34
2.133	1.23	8.200	2.45	14.267	3.35	20.33	1.34
2.150	1.23	8.217	2.45	14.283	3.35	20.35	1.34
2.167	1.23	8.233	2.45	14.300	3.35	20.37	1.34
2.183	1.23	8.250	2.46	14.317	3.35	20.38	1.34
2.200	1.23	8.267	2.90	14.333	3.35	20.40	1.34
2.217	1.23	8.283	2.90	14.350	3.35	20.42	1.34
2.233	1.23	8.300	2.90	14.367	3.35	20.43	1.34
2.250	1.23	8.317	2.90	14.383	3.35	20.45	1.34
2.267	1.45	8.333	2.90	14.400	3.35	20.47	1.34
2.283	1.45	8.350	2.90	14.417	3.35	20.48	1.34
2.300	1.45	8.367	2.90	14.433	3.35	20.50	1.34
2.317	1.45	8.383	2.90	14.450	3.35	20.52	1.34
2.333	1.45	8.400	2.90	14.467	3.35	20.53	1.34
2.350	1.45	8.417	2.90	14.483	3.35	20.55	1.34
2.367	1.45	8.433	2.90	14.500	3.35	20.57	1.34
2.383	1.45	8.450	2.90	14.517	3.35	20.58	1.34
2.400	1.45	8.467	2.90	14.533	3.35	20.60	1.34
2.417	1.45	8.483	2.90	14.550	3.35	20.62	1.34
2.433	1.45	8.500	2.90	14.567	3.35	20.63	1.34
2.450	1.45	8.517	2.90	14.583	3.35	20.65	1.34
2.467	1.45	8.533	2.90	14.600	3.35	20.67	1.34
2.483	1.45	8.550	2.90	14.617	3.35	20.68	1.34
2.500	1.45	8.567	2.90	14.633	3.35	20.70	1.34
2.517	1.45	8.583	2.90	14.650	3.35	20.72	1.34
2.533	1.45	8.600	2.90	14.667	3.35	20.73	1.34
2.550	1.45	8.617	2.90	14.683	3.35	20.75	1.34
2.567	1.45	8.633	2.90	14.700	3.35	20.77	1.34
2.583	1.45	8.650	2.90	14.717	3.35	20.78	1.34
2.600	1.45	8.667	2.90	14.733	3.35	20.80	1.34
2.617	1.45	8.683	2.90	14.750	3.35	20.82	1.34
2.633	1.45	8.700	2.90	14.767	3.35	20.83	1.34
2.650	1.45	8.717	2.90	14.783	3.35	20.85	1.34
2.667	1.45	8.733	2.90	14.800	3.35	20.87	1.34
2.683	1.45	8.750	2.90	14.817	3.35	20.88	1.34
2.700	1.45	8.767	3.12	14.833	3.35	20.90	1.34
2.717	1.45	8.783	3.12	14.850	3.35	20.92	1.34
2.733	1.45	8.800	3.12	14.867	3.35	20.93	1.34
2.750	1.45	8.817	3.12	14.883	3.35	20.95	1.34
2.767	1.45	8.833	3.12	14.900	3.35	20.97	1.34
2.783	1.45	8.850	3.12	14.917	3.35	20.98	1.34
2.800	1.45	8.867	3.12	14.933	3.35	21.00	1.34
2.817	1.45	8.883	3.12	14.950	3.35	21.02	1.34
2.833	1.45	8.900	3.12	14.967	3.35	21.03	1.34
2.850	1.45	8.917	3.12	14.983	3.35	21.05	1.34
2.867	1.45	8.933	3.12	15.000	3.35	21.07	1.34
2.883	1.45	8.950	3.12	15.017	3.35	21.08	1.34
2.900	1.45	8.967	3.12	15.033	3.35	21.10	1.34
2.917	1.45	8.983	3.12	15.050	3.35	21.12	1.34
2.933	1.45	9.000	3.12	15.067	3.35	21.13	1.34
2.950	1.45	9.017	3.12	15.083	3.35	21.15	1.34
2.967	1.45	9.033	3.12	15.100	3.35	21.17	1.34
2.983	1.45	9.050	3.12	15.117	3.35	21.18	1.34
3.000	1.45	9.067	3.12	15.133	3.35	21.20	1.34
3.017	1.45	9.083	3.12	15.150	3.35	21.22	1.34

3.033	1.45	9.100	3.12	15.167	3.35	21.23	1.34
3.050	1.45	9.117	3.12	15.183	3.35	21.25	1.34
3.067	1.45	9.133	3.12	15.200	3.35	21.27	1.34
3.083	1.45	9.150	3.12	15.217	3.35	21.28	1.34
3.100	1.45	9.167	3.12	15.233	3.35	21.30	1.34
3.117	1.45	9.183	3.12	15.250	3.35	21.32	1.34
3.133	1.45	9.200	3.12	15.267	3.35	21.33	1.34
3.150	1.45	9.217	3.12	15.283	3.35	21.35	1.34
3.167	1.45	9.233	3.12	15.300	3.35	21.37	1.34
3.183	1.45	9.250	3.12	15.317	3.35	21.38	1.34
3.200	1.45	9.267	3.57	15.333	3.35	21.40	1.34
3.217	1.45	9.283	3.57	15.350	3.35	21.42	1.34
3.233	1.45	9.300	3.57	15.367	3.35	21.43	1.34
3.250	1.45	9.317	3.57	15.383	3.35	21.45	1.34
3.267	1.45	9.333	3.57	15.400	3.35	21.47	1.34
3.283	1.45	9.350	3.57	15.417	3.35	21.48	1.34
3.300	1.45	9.367	3.57	15.433	3.35	21.50	1.34
3.317	1.45	9.383	3.57	15.450	3.35	21.52	1.34
3.333	1.45	9.400	3.57	15.467	3.35	21.53	1.34
3.350	1.45	9.417	3.57	15.483	3.35	21.55	1.34
3.367	1.45	9.433	3.57	15.500	3.35	21.57	1.34
3.383	1.45	9.450	3.57	15.517	3.35	21.58	1.34
3.400	1.45	9.467	3.57	15.533	3.35	21.60	1.34
3.417	1.45	9.483	3.57	15.550	3.35	21.62	1.34
3.433	1.45	9.500	3.57	15.567	3.35	21.63	1.34
3.450	1.45	9.517	3.57	15.583	3.35	21.65	1.34
3.467	1.45	9.533	3.57	15.600	3.35	21.67	1.34
3.483	1.45	9.550	3.57	15.617	3.35	21.68	1.34
3.500	1.45	9.567	3.57	15.633	3.35	21.70	1.34
3.517	1.45	9.583	3.57	15.650	3.35	21.72	1.34
3.533	1.45	9.600	3.57	15.667	3.35	21.73	1.34
3.550	1.45	9.617	3.57	15.683	3.35	21.75	1.34
3.567	1.45	9.633	3.57	15.700	3.35	21.77	1.34
3.583	1.45	9.650	3.57	15.717	3.35	21.78	1.34
3.600	1.45	9.667	3.57	15.733	3.35	21.80	1.34
3.617	1.45	9.683	3.57	15.750	3.35	21.82	1.34
3.633	1.45	9.700	3.57	15.767	3.35	21.83	1.34
3.650	1.45	9.717	3.57	15.783	3.35	21.85	1.34
3.667	1.45	9.733	3.57	15.800	3.35	21.87	1.34
3.683	1.45	9.750	3.57	15.817	3.35	21.88	1.34
3.700	1.45	9.767	4.02	15.833	3.35	21.90	1.34
3.717	1.45	9.783	4.02	15.850	3.35	21.92	1.34
3.733	1.45	9.800	4.02	15.867	3.35	21.93	1.34
3.750	1.45	9.817	4.02	15.883	3.35	21.95	1.34
3.767	1.45	9.833	4.02	15.900	3.35	21.97	1.34
3.783	1.45	9.850	4.02	15.917	3.35	21.98	1.34
3.800	1.45	9.867	4.02	15.933	3.35	22.00	1.34
3.817	1.45	9.883	4.02	15.950	3.35	22.02	1.34
3.833	1.45	9.900	4.02	15.967	3.35	22.03	1.34
3.850	1.45	9.917	4.02	15.983	3.35	22.05	1.34
3.867	1.45	9.933	4.02	16.000	3.35	22.07	1.34
3.883	1.45	9.950	4.02	16.017	3.35	22.08	1.34
3.900	1.45	9.967	4.02	16.033	3.35	22.10	1.34
3.917	1.45	9.983	4.02	16.050	3.35	22.12	1.34
3.933	1.45	10.000	4.02	16.067	3.35	22.13	1.34
3.950	1.45	10.017	4.02	16.083	3.35	22.15	1.34
3.967	1.45	10.033	4.02	16.100	3.35	22.17	1.34
3.983	1.45	10.050	4.02	16.117	3.35	22.18	1.34
4.000	1.45	10.067	4.02	16.133	3.35	22.20	1.34
4.017	1.45	10.083	4.02	16.150	3.35	22.22	1.34
4.033	1.45	10.100	4.02	16.167	3.35	22.23	1.34
4.050	1.45	10.117	4.02	16.183	3.35	22.25	1.34
4.067	1.45	10.133	4.02	16.200	3.35	22.27	1.34
4.083	1.45	10.150	4.02	16.217	3.35	22.28	1.34
4.100	1.45	10.167	4.02	16.233	3.35	22.30	1.34
4.117	1.45	10.183	4.02	16.250	3.35	22.32	1.34
4.133	1.45	10.200	4.02	16.267	2.01	22.33	1.34
4.150	1.45	10.217	4.02	16.283	2.01	22.35	1.34
4.167	1.45	10.233	4.02	16.300	2.01	22.37	1.34
4.183	1.45	10.250	4.02	16.317	2.01	22.38	1.34
4.200	1.45	10.267	5.13	16.333	2.01	22.40	1.34
4.217	1.45	10.283	5.13	16.350	2.01	22.42	1.34
4.233	1.45	10.300	5.13	16.367	2.01	22.43	1.34
4.250	1.45	10.317	5.13	16.383	2.01	22.45	1.34
4.267	1.78	10.333	5.13	16.400	2.01	22.47	1.34
4.283	1.78	10.350	5.13	16.417	2.01	22.48	1.34
4.300	1.78	10.367	5.13	16.433	2.01	22.50	1.34
4.317	1.78	10.383	5.13	16.450	2.01	22.52	1.34
4.333	1.78	10.400	5.13	16.467	2.01	22.53	1.34
4.350	1.78	10.417	5.13	16.483	2.01	22.55	1.34
4.367	1.78	10.433	5.13	16.500	2.01	22.57	1.34
4.383	1.78	10.450	5.13	16.517	2.01	22.58	1.34
4.400	1.78	10.467	5.13	16.533	2.01	22.60	1.34
4.417	1.78	10.483	5.13	16.550	2.01	22.62	1.34
4.433	1.78	10.500	5.13	16.567	2.01	22.63	1.34
4.450	1.78	10.517	5.13	16.583	2.01	22.65	1.34
4.467	1.78	10.533	5.13	16.600	2.01	22.67	1.34
4.483	1.78	10.550	5.13	16.617	2.01	22.68	1.34
4.500	1.78	10.567	5.13	16.633	2.01	22.70	1.34
4.517	1.78	10.583	5.13	16.650	2.01	22.72	1.34
4.533	1.78	10.600	5.13	16.667	2.01	22.73	1.34
4.550	1.78	10.617	5.13	16.683	2.01	22.75	1.34
4.567	1.78	10.633	5.13	16.700	2.01	22.77	1.34
4.583	1.78	10.650	5.13	16.717	2.01	22.78	1.34
4.600	1.78	10.667	5.13	16.733	2.01	22.80	1.34
4.617	1.78	10.683	5.13	16.750	2.01	22.82	1.34
4.633	1.78	10.700	5.13	16.767	2.01	22.83	1.34
4.650	1.78	10.717	5.13	16.783	2.01	22.85	1.34
4.667	1.78	10.733	5.13	16.800	2.01	22.87	1.34
4.683	1.78	10.750	5.13	16.817	2.01	22.88	1.34
4.700	1.78	10.767	6.92	16.833	2.01	22.90	1.34
4.717	1.78	10.783	6.92	16.850	2.01	22.92	1.34
4.733	1.78	10.800	6.92	16.867	2.01	22.93	1.34
4.750	1.78	10.817	6.92	16.883	2.01	22.95	1.34
4.767	1.78	10.833	6.92	16.900	2.01	22.97	1.34
4.783	1.78	10.850	6.92	16.917	2.01	22.98	1.34
4.800	1.78	10.867	6.92	16.933	2.01	23.00	1.34
4.817	1.78	10.883	6.92	16.950	2.01	23.02	1.34
4.833	1.78	10.900	6.92	16.967	2.01	23.03	1.34
4.850	1.78	10.917	6.92	16.983	2.01	23.05	1.34
4.867	1.78	10.933	6.92	17.000	2.01	23.07	1.34
4.883	1.78	10.950	6.92	17.017	2.01	23.08	1.34
4.900	1.78	10.967	6.92	17.033	2.01	23.10	1.34
4.917	1.78	10.983	6.92	17.050	2.01	23.12	1.34
4.933	1.78	11.000	6.92	17.067	2.01	23.13	1.34
4.950	1.78	11.017	6.92	17.083	2.01	23.15	1.34
4.967	1.78	11.033	6.92	17.100	2.01	23.17	1.34
4.983	1.78	11.050	6.92	17.117	2.01	23.18	1.34
5.000	1.78	11.067	6.92	17.133	2.01	23.20	1.34
5.017	1.78	11.083	6.92	17.150	2.01	23.22	1.34
5.033	1.78	11.100	6.92	17.167	2.01	23.23	1.34
5.050	1.78	11.117	6.92	17.183	2.01	23.25	1.34
5.067	1.78	11.133	6.92	17.200	2.01	23.27	1.34
5.083	1.78	11.150	6.92	17.217	2.01	23.28	1.34
5.100	1.78	11.167	6.92	17.233	2.01	23.30	1.34
5.117	1.78	11.183	6.92	17.250	2.01	23.32	1.34
5.133	1.78	11.200	6.92	17.267	2.01	23.33	1.34
5.150	1.78	11.217	6.92	17.283	2.01	23.35	1.34
5.167	1.78	11.233	6.92	17.300	2.01	23.37	1.34
5.183	1.78	11.250	6.92	17.317	2.01	23.38	1.34
5.200	1.78	11.267	10.71	17.333	2.01	23.40	1.34
5.217	1.78	11.283	10.71	17.350	2.01	23.42	1.34
5.233	1.78	11.300	10.71	17.367	2.01	23.43	1.34
5.250	1.78	11.317	10.71	17.383	2.01	23.45	1.34
5.267	1.78	11.333	10.71	17.400	2.01	23.47	1.34
5.283	1.78	11.350	10.71	17.417	2.01	23.48	1.34
5.300	1.78	11.367	10.71	17.433	2.01	23.50	1.34
5.317	1.78	11.383	10.71	17.450	2.01	23.52	1.34
5.333	1.78	11.400	10.71	17.467	2.01	23.53	1.34
5.350	1.78	11.417	10.71	17.483	2.01	23.55	1.34
5.367	1.78	11.433	10.71	17.500	2.01	23.57	1.34
5.383	1.78	11.450	10.71	17.517	2.01	23.58	1.34
5.400	1.78	11.467	10.71	17.533	2.01	23.60	1.34
5.417	1.78	11.483	10.71	17.550	2.01	23.62	1.34
5.433	1.78	11.500	10.71	17.567	2.01	23.63	1.34
5.450	1.78	11.517	10.71	17.583	2.01	23.65	1.34
5.467	1.78	11.533	10.71	17.600	2.01	23.67	1.34
5.483	1.78	11.550	10.71	17.617	2.01	23.68	1.34
5.500	1.78	11.567	10.71	17.633	2.01	23.70	1.34
5.517	1.78	11.583	10.71	17.650	2.01	23.72	1.34
5.533	1.78	11.600	10.71	17.667	2.01	23.73	1.34
5.550	1.78	11.617	10.71	17.683	2.01	23.75	1.34
5.567	1.78	11.633	10.71	17.700	2.01	23.77	1.34
5.583	1.78	11.650	10.71	17.717	2.01	23.78	1.34
5.600	1.78	11.667	10.71	17.733	2.01	23.80	1.34
5.617	1.78	11.683	10.71	17.750	2.01	23.82	1.34
5.633	1.78	11.700	10.71	17.767	2.01	23.83	1.34
5.650	1.78	11.717	10.71	17.783	2.01	23.85	1.34
5.667	1.78	11.733	10.71	17.800	2.01	23.87	1.34
5.683	1.78	11.750	10.71	17.817	2.01	23.88	1.34
5.700	1.78	11.767	33.01	17.833	2.01	23.90	1.34
5.717	1.78	11.783	33.02	17.850	2.01	23.92	1.34
5.733	1.78	11.800	33.02	17.867	2.01	23.93	1.34
5.750	1.78	11.817	33.02	17.883	2.01	23.95	1.34
5.767	1.78	11.833	33.02	17.900	2.01	23.97	1.34
5.783	1.78	11.850	33.02	17.917	2.01	23.98	1.34
5.800	1.78	11.867	33.02	17.933	2.01	24.00	1.34
5.817	1.78	11.883	33.02	17.950	2.01	24.02	1.34

5.833	1.78	11.900	33.02	17.967	2.01	24.03	1.34
5.850	1.78	11.917	33.02	17.983	2.01	24.05	1.34
5.867	1.78	11.933	33.02	18.000	2.01	24.07	1.34
5.883	1.78	11.950	33.02	18.017	2.01	24.08	1.34
5.900	1.78	11.967	33.02	18.033	2.01	24.10	1.34
5.917	1.78	11.983	33.02	18.050	2.01	24.12	1.34
5.933	1.78	12.000	33.02	18.067	2.01	24.13	1.34
5.950	1.78	12.017	136.48	18.083	2.01	24.15	1.34
5.967	1.78	12.033	136.55	18.100	2.01	24.17	1.34
5.983	1.78	12.050	136.55	18.117	2.01	24.18	1.34
6.000	1.78	12.067	136.55	18.133	2.01	24.20	1.34
6.017	1.78	12.083	136.55	18.150	2.01	24.22	1.34
6.033	1.78	12.100	136.55	18.167	2.01	24.23	1.34
6.050	1.78	12.117	136.55	18.183	2.01	24.25	1.34
6.067	1.78	12.133	136.55	18.200	2.01		

Max.Eff.Inten.(mm/hr)=	136.55	75.97	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.89 (ii)	2.18 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.49	0.46	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.045 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	109.56	51.45	95.03
TOTAL RAINFALL (mm)=	111.56	111.56	111.56
RUNOFF COEFFICIENT =	0.98	0.46	0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)	OVERFLOW IS OFF
IN= 2---> OUT= 1	
DT= 1.0 min	

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0160	0.0036
0.0010	0.0004	0.0170	0.0043
0.0060	0.0009	0.0180	0.0051
0.0080	0.0013	0.0560	0.0059
0.0100	0.0017	0.1330	0.0068
0.0120	0.0022	0.2430	0.0078
0.0130	0.0025	0.3860	0.0089
0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.045	12.25	95.03
OUTFLOW: ID= 1 (0015)	0.133	0.016	12.33	94.27

PEAK FLOW REDUCTION [Qout/Qin](%)= 35.94
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0038

ADD HYD (0007)		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3	ID1= 1 (0015):	0.13	0.016	12.33	94.27
	+ ID2= 2 (0205):	0.02	0.003	12.37	47.97
	ID = 3 (0007):	0.16	0.019	12.33	89.19

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

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       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
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        OOO     T      T    H   H    Y    M   M   OOO
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***** D E T A I L E D O U T P U T *****

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  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\6a689cc4-37
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\6a689cc4-37
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DATE: 04-17-2023 TIME: 01:25:45

USER:

COMMENTS: _____

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  ************************************************
  ** SIMULATION : X) 50yr 24hr 15min SCS Type I **
  ************************************************
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READ STORM	Filename: C:\Users\cgagnon\AppD ata\Local\Temp\ 5c5ec430-821e-4636-8c82-03edb318c07e\7f384309
Ptotal=125.69 mm	Comments: 50yr 24hr 15min SCS Type II (MTO)

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.25	0.00	6.50	2.26	12.75	18.10	19.00	2.26
0.50	1.38	6.75	2.26	13.00	9.30	19.25	2.26
0.75	1.38	7.00	2.26	13.25	9.30	19.50	2.26
1.00	1.38	7.25	2.26	13.50	6.79	19.75	2.26
1.25	1.38	7.50	2.77	13.75	6.79	20.00	2.26
1.50	1.38	7.75	2.77	14.00	5.28	20.25	2.26
1.75	1.38	8.00	2.77	14.25	5.28	20.50	1.51
2.00	1.38	8.25	2.77	14.50	3.77	20.75	1.51
2.25	1.38	8.50	3.27	14.75	3.77	21.00	1.51
2.50	1.63	8.75	3.27	15.00	3.77	21.25	1.51
2.75	1.63	9.00	3.52	15.25	3.77	21.50	1.51
3.00	1.63	9.25	3.52	15.50	3.77	21.75	1.51
3.25	1.63	9.50	4.02	15.75	3.77	22.00	1.51
3.50	1.63	9.75	4.02	16.00	3.77	22.25	1.51
3.75	1.63	10.00	4.52	16.25	3.77	22.50	1.51
4.00	1.63	10.25	4.52	16.50	2.26	22.75	1.51
4.25	1.63	10.50	5.78	16.75	2.26	23.00	1.51
4.50	2.01	10.75	5.78	17.00	2.26	23.25	1.51
4.75	2.01	11.00	7.79	17.25	2.26	23.50	1.51
5.00	2.01	11.25	7.79	17.50	2.26	23.75	1.51
5.25	2.01	11.50	12.07	17.75	2.26	24.00	1.51
5.50	2.01	11.75	12.07	18.00	2.26	24.25	1.51
5.75	2.01	12.00	37.20	18.25	2.26		
6.00	2.01	12.25	153.84	18.50	2.26		
6.25	2.01	12.50	18.10	18.75	2.26		

CALIB			
NASHYD (0204)	Area (ha)=	0.06	Curve Number (CN)= 71.0
ID= 1 DT= 1.0 min	Ia (mm)=	4.85	# of Linear Res.(N)= 3.00
	U.H. Tp(hrs)=	0.31	

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.01	12.150	153.84	18.22	2.26
0.033	0.00	6.100	2.01	12.167	153.84	18.23	2.26
0.050	0.00	6.117	2.01	12.183	153.84	18.25	2.26
0.067	0.00	6.133	2.01	12.200	153.84	18.27	2.26
0.083	0.00	6.150	2.01	12.217	153.84	18.28	2.26
0.100	0.00	6.167	2.01	12.233	153.84	18.30	2.26
0.117	0.00	6.183	2.01	12.250	153.84	18.32	2.26

0.133	0.00	6.200	2.01	12.267	18.22	18.33	2.26
0.150	0.00	6.217	2.01	12.283	18.10	18.35	2.26
0.167	0.00	6.233	2.01	12.300	18.10	18.37	2.26
0.183	0.00	6.250	2.01	12.317	18.10	18.38	2.26
0.200	0.00	6.267	2.26	12.333	18.10	18.40	2.26
0.217	0.00	6.283	2.26	12.350	18.10	18.42	2.26
0.233	0.00	6.300	2.26	12.367	18.10	18.43	2.26
0.250	0.00	6.317	2.26	12.383	18.10	18.45	2.26
0.267	1.38	6.333	2.26	12.400	18.10	18.47	2.26
0.283	1.38	6.350	2.26	12.417	18.10	18.48	2.26
0.300	1.38	6.367	2.26	12.433	18.10	18.50	2.26
0.317	1.38	6.383	2.26	12.450	18.10	18.52	2.26
0.333	1.38	6.400	2.26	12.467	18.10	18.53	2.26
0.350	1.38	6.417	2.26	12.483	18.10	18.55	2.26
0.367	1.38	6.433	2.26	12.500	18.10	18.57	2.26
0.383	1.38	6.450	2.26	12.517	18.10	18.58	2.26
0.400	1.38	6.467	2.26	12.533	18.10	18.60	2.26
0.417	1.38	6.483	2.26	12.550	18.10	18.62	2.26
0.433	1.38	6.500	2.26	12.567	18.10	18.63	2.26
0.450	1.38	6.517	2.26	12.583	18.10	18.65	2.26
0.467	1.38	6.533	2.26	12.600	18.10	18.67	2.26
0.483	1.38	6.550	2.26	12.617	18.10	18.68	2.26
0.500	1.38	6.567	2.26	12.633	18.10	18.70	2.26
0.517	1.38	6.583	2.26	12.650	18.10	18.72	2.26
0.533	1.38	6.600	2.26	12.667	18.10	18.73	2.26
0.550	1.38	6.617	2.26	12.683	18.10	18.75	2.26
0.567	1.38	6.633	2.26	12.700	18.10	18.77	2.26
0.583	1.38	6.650	2.26	12.717	18.10	18.78	2.26
0.600	1.38	6.667	2.26	12.733	18.10	18.80	2.26
0.617	1.38	6.683	2.26	12.750	18.10	18.82	2.26
0.633	1.38	6.700	2.26	12.767	9.31	18.83	2.26
0.650	1.38	6.717	2.26	12.783	9.30	18.85	2.26
0.667	1.38	6.733	2.26	12.800	9.30	18.87	2.26
0.683	1.38	6.750	2.26	12.817	9.30	18.88	2.26
0.700	1.38	6.767	2.26	12.833	9.30	18.90	2.26
0.717	1.38	6.783	2.26	12.850	9.30	18.92	2.26
0.733	1.38	6.800	2.26	12.867	9.30	18.93	2.26
0.750	1.38	6.817	2.26	12.883	9.30	18.95	2.26
0.767	1.38	6.833	2.26	12.900	9.30	18.97	2.26
0.783	1.38	6.850	2.26	12.917	9.30	18.98	2.26
0.800	1.38	6.867	2.26	12.933	9.30	19.00	2.26
0.817	1.38	6.883	2.26	12.950	9.30	19.02	2.26
0.833	1.38	6.900	2.26	12.967	9.30	19.03	2.26
0.850	1.38	6.917	2.26	12.983	9.30	19.05	2.26
0.867	1.38	6.933	2.26	13.000	9.30	19.07	2.26
0.883	1.38	6.950	2.26	13.017	9.30	19.08	2.26
0.900	1.38	6.967	2.26	13.033	9.30	19.10	2.26
0.917	1.38	6.983	2.26	13.050	9.30	19.12	2.26
0.933	1.38	7.000	2.26	13.067	9.30	19.13	2.26
0.950	1.38	7.017	2.26	13.083	9.30	19.15	2.26
0.967	1.38	7.033	2.26	13.100	9.30	19.17	2.26
0.983	1.38	7.050	2.26	13.117	9.30	19.18	2.26
1.000	1.38	7.067	2.26	13.133	9.30	19.20	2.26
1.017	1.38	7.083	2.26	13.150	9.30	19.22	2.26
1.033	1.38	7.100	2.26	13.167	9.30	19.23	2.26
1.050	1.38	7.117	2.26	13.183	9.30	19.25	2.26
1.067	1.38	7.133	2.26	13.200	9.30	19.27	2.26
1.083	1.38	7.150	2.26	13.217	9.30	19.28	2.26
1.100	1.38	7.167	2.26	13.233	9.30	19.30	2.26
1.117	1.38	7.183	2.26	13.250	9.30	19.32	2.26
1.133	1.38	7.200	2.26	13.267	6.79	19.33	2.26
1.150	1.38	7.217	2.26	13.283	6.79	19.35	2.26
1.167	1.38	7.233	2.26	13.300	6.79	19.37	2.26
1.183	1.38	7.250	2.26	13.317	6.79	19.38	2.26
1.200	1.38	7.267	2.77	13.333	6.79	19.40	2.26
1.217	1.38	7.283	2.77	13.350	6.79	19.42	2.26
1.233	1.38	7.300	2.77	13.367	6.79	19.43	2.26
1.250	1.38	7.317	2.77	13.383	6.79	19.45	2.26
1.267	1.38	7.333	2.77	13.400	6.79	19.47	2.26
1.283	1.38	7.350	2.77	13.417	6.79	19.48	2.26
1.300	1.38	7.367	2.77	13.433	6.79	19.50	2.26
1.317	1.38	7.383	2.77	13.450	6.79	19.52	2.26
1.333	1.38	7.400	2.77	13.467	6.79	19.53	2.26
1.350	1.38	7.417	2.77	13.483	6.79	19.55	2.26
1.367	1.38	7.433	2.77	13.500	6.79	19.57	2.26
1.383	1.38	7.450	2.77	13.517	6.79	19.58	2.26
1.400	1.38	7.467	2.77	13.533	6.79	19.60	2.26
1.417	1.38	7.483	2.77	13.550	6.79	19.62	2.26
1.433	1.38	7.500	2.77	13.567	6.79	19.63	2.26
1.450	1.38	7.517	2.77	13.583	6.79	19.65	2.26
1.467	1.38	7.533	2.77	13.600	6.79	19.67	2.26
1.483	1.38	7.550	2.77	13.617	6.79	19.68	2.26
1.500	1.38	7.567	2.77	13.633	6.79	19.70	2.26
1.517	1.38	7.583	2.77	13.650	6.79	19.72	2.26
1.533	1.38	7.600	2.77	13.667	6.79	19.73	2.26
1.550	1.38	7.617	2.77	13.683	6.79	19.75	2.26
1.567	1.38	7.633	2.77	13.700	6.79	19.77	2.26
1.583	1.38	7.650	2.77	13.717	6.79	19.78	2.26
1.600	1.38	7.667	2.77	13.733	6.79	19.80	2.26
1.617	1.38	7.683	2.77	13.750	6.79	19.82	2.26
1.633	1.38	7.700	2.77	13.767	5.28	19.83	2.26
1.650	1.38	7.717	2.77	13.783	5.28	19.85	2.26
1.667	1.38	7.733	2.77	13.800	5.28	19.87	2.26
1.683	1.38	7.750	2.77	13.817	5.28	19.88	2.26
1.700	1.38	7.767	2.77	13.833	5.28	19.90	2.26
1.717	1.38	7.783	2.77	13.850	5.28	19.92	2.26
1.733	1.38	7.800	2.77	13.867	5.28	19.93	2.26
1.750	1.38	7.817	2.77	13.883	5.28	19.95	2.26
1.767	1.38	7.833	2.77	13.900	5.28	19.97	2.26
1.783	1.38	7.850	2.77	13.917	5.28	19.98	2.26
1.800	1.38	7.867	2.77	13.933	5.28	20.00	2.26
1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26
1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51
2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51

2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51
3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51
4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51
4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51
5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51

5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.008 (i)
TIME TO PEAK (hrs)= 12.450
RUNOFF VOLUME (mm)= 53.115
TOTAL RAINFALL (mm)= 125.691
RUNOFF COEFFICIENT = 0.423

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.01	12.150	153.84	18.22	2.26
0.033	0.00	6.100	2.01	12.167	153.84	18.23	2.26
0.050	0.00	6.117	2.01	12.183	153.84	18.25	2.26
0.067	0.00	6.133	2.01	12.200	153.84	18.27	2.26
0.083	0.00	6.150	2.01	12.217	153.84	18.28	2.26
0.100	0.00	6.167	2.01	12.233	153.84	18.30	2.26
0.117	0.00	6.183	2.01	12.250	153.84	18.32	2.26
0.133	0.00	6.200	2.01	12.267	18.22	18.33	2.26
0.150	0.00	6.217	2.01	12.283	18.10	18.35	2.26
0.167	0.00	6.233	2.01	12.300	18.10	18.37	2.26
0.183	0.00	6.250	2.01	12.317	18.10	18.38	2.26
0.200	0.00	6.267	2.26	12.333	18.10	18.40	2.26
0.217	0.00	6.283	2.26	12.350	18.10	18.42	2.26
0.233	0.00	6.300	2.26	12.367	18.10	18.43	2.26
0.250	0.00	6.317	2.26	12.383	18.10	18.45	2.26
0.267	1.38	6.333	2.26	12.400	18.10	18.47	2.26
0.283	1.38	6.350	2.26	12.417	18.10	18.48	2.26
0.300	1.38	6.367	2.26	12.433	18.10	18.50	2.26
0.317	1.38	6.383	2.26	12.450	18.10	18.52	2.26
0.333	1.38	6.400	2.26	12.467	18.10	18.53	2.26
0.350	1.38	6.417	2.26	12.483	18.10	18.55	2.26
0.367	1.38	6.433	2.26	12.500	18.10	18.57	2.26
0.383	1.38	6.450	2.26	12.517	18.10	18.58	2.26
0.400	1.38	6.467	2.26	12.533	18.10	18.60	2.26
0.417	1.38	6.483	2.26	12.550	18.10	18.62	2.26
0.433	1.38	6.500	2.26	12.567	18.10	18.63	2.26
0.450	1.38	6.517	2.26	12.583	18.10	18.65	2.26
0.467	1.38	6.533	2.26	12.600	18.10	18.67	2.26
0.483	1.38	6.550	2.26	12.617	18.10	18.68	2.26
0.500	1.38	6.567	2.26	12.633	18.10	18.70	2.26
0.517	1.38	6.583	2.26	12.650	18.10	18.72	2.26
0.533	1.38	6.600	2.26	12.667	18.10	18.73	2.26
0.550	1.38	6.617	2.26	12.683	18.10	18.75	2.26
0.567	1.38	6.633	2.26	12.700	18.10	18.77	2.26
0.583	1.38	6.650	2.26	12.717	18.10	18.78	2.26
0.600	1.38	6.667	2.26	12.733	18.10	18.80	2.26
0.617	1.38	6.683	2.26	12.750	18.10	18.82	2.26
0.633	1.38	6.700	2.26	12.767	9.31	18.83	2.26
0.650	1.38	6.717	2.26	12.783	9.30	18.85	2.26
0.667	1.38	6.733	2.26	12.800	9.30	18.87	2.26
0.683	1.38	6.750	2.26	12.817	9.30	18.88	2.26
0.700	1.38	6.767	2.26	12.833	9.30	18.90	2.26
0.717	1.38	6.783	2.26	12.850	9.30	18.92	2.26
0.733	1.38	6.800	2.26	12.867	9.30	18.93	2.26
0.750	1.38	6.817	2.26	12.883	9.30	18.95	2.26
0.767	1.38	6.833	2.26	12.900	9.30	18.97	2.26
0.783	1.38	6.850	2.26	12.917	9.30	18.98	2.26
0.800	1.38	6.867	2.26	12.933	9.30	19.00	2.26
0.817	1.38	6.883	2.26	12.950	9.30	19.02	2.26
0.833	1.38	6.900	2.26	12.967	9.30	19.03	2.26
0.850	1.38	6.917	2.26	12.983	9.30	19.05	2.26
0.867	1.38	6.933	2.26	13.000	9.30	19.07	2.26
0.883	1.38	6.950	2.26	13.017	9.30	19.08	2.26
0.900	1.38	6.967	2.26	13.033	9.30	19.10	2.26
0.917	1.38	6.983	2.26	13.050	9.30	19.12	2.26
0.933	1.38	7.000	2.26	13.067	9.30	19.13	2.26
0.950	1.38	7.017	2.26	13.083	9.30	19.15	2.26
0.967	1.38	7.033	2.26	13.100	9.30	19.17	2.26
0.983	1.38	7.050	2.26	13.117	9.30	19.18	2.26
1.000	1.38	7.067	2.26	13.133	9.30	19.20	2.26
1.017	1.38	7.083	2.26	13.150	9.30	19.22	2.26
1.033	1.38	7.100	2.26	13.167	9.30	19.23	2.26
1.050	1.38	7.117	2.26	13.183	9.30	19.25	2.26
1.067	1.38	7.133	2.26	13.200	9.30	19.27	2.26
1.083	1.38	7.150	2.26	13.217	9.30	19.28	2.26
1.100	1.38	7.167	2.26	13.233	9.30	19.30	2.26
1.117	1.38	7.183	2.26	13.250	9.30	19.32	2.26
1.133	1.38	7.200	2.26	13.267	6.79	19.33	2.26
1.150	1.38	7.217	2.26	13.283	6.79	19.35	2.26
1.167	1.38	7.233	2.26	13.300	6.79	19.37	2.26
1.183	1.38	7.250	2.26	13.317	6.79	19.38	2.26
1.200	1.38	7.267	2.77	13.333	6.79	19.40	2.26
1.217	1.38	7.283	2.77	13.350	6.79	19.42	2.26
1.233	1.38	7.300	2.77	13.367	6.79	19.43	2.26
1.250	1.38	7.317	2.77	13.383	6.79	19.45	2.26
1.267	1.38	7.333	2.77	13.400	6.79	19.47	2.26
1.283	1.38	7.350	2.77	13.417	6.79	19.48	2.26
1.300	1.38	7.367	2.77	13.433	6.79	19.50	2.26
1.317	1.38	7.383	2.77	13.450	6.79	19.52	2.26
1.333	1.38	7.400	2.77	13.467	6.79	19.53	2.26
1.350	1.38	7.417	2.77	13.483	6.79	19.55	2.26
1.367	1.38	7.433	2.77	13.500	6.79	19.57	2.26
1.383	1.38	7.450	2.77	13.517	6.79	19.58	2.26
1.400	1.38	7.467	2.77	13.533	6.79	19.60	2.26
1.417	1.38	7.483	2.77	13.550	6.79	19.62	2.26
1.433	1.38	7.500	2.77	13.567	6.79	19.63	2.26
1.450	1.38	7.517	2.77	13.583	6.79	19.65	2.26
1.467	1.38	7.533	2.77	13.600	6.79	19.67	2.26
1.483	1.38	7.550	2.77	13.617	6.79	19.68	2.26
1.500	1.38	7.567	2.77	13.633	6.79	19.70	2.26
1.517	1.38	7.583	2.77	13.650	6.79	19.72	2.26
1.533	1.38	7.600	2.77	13.667	6.79	19.73	2.26
1.550	1.38	7.617	2.77	13.683	6.79	19.75	2.26
1.567	1.38	7.633	2.77	13.700	6.79	19.77	2.26
1.583	1.38	7.650	2.77	13.717	6.79	19.78	2.26
1.600	1.38	7.667	2.77	13.733	6.79	19.80	2.26
1.617	1.38	7.683	2.77	13.750	6.79	19.82	2.26
1.633	1.38	7.700	2.77	13.767	5.28	19.83	2.26
1.650	1.38	7.717	2.77	13.783	5.28	19.85	2.26
1.667	1.38	7.733	2.77	13.800	5.28	19.87	2.26
1.683	1.38	7.750	2.77	13.817	5.28	19.88	2.26
1.700	1.38	7.767	2.77	13.833	5.28	19.90	2.26
1.717	1.38	7.783	2.77	13.850	5.28	19.92	2.26
1.733	1.38	7.800	2.77	13.867	5.28	19.93	2.26
1.750	1.38	7.817	2.77	13.883	5.28	19.95	2.26
1.767	1.38	7.833	2.77	13.900	5.28	19.97	2.26
1.783	1.38	7.850	2.77	13.917	5.28	19.98	2.26
1.800	1.38	7.867	2.77	13.933	5.28	20.00	2.26
1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26

1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51
2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51
2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51
3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51
4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51

4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51
5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51
5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Max.Eff.Inten.(mm/hr)=	153.84	91.43
over (min)	5.00	4.00
Storage Coeff. (min)=	1.12 (ii)	3.59 (ii)
Unit Hyd. Tpeak (min)=	5.00	4.00

Unit Hyd. peak (cms)=	0.46	0.30	
			TOTALS
PEAK FLOW (cms)=	0.06	0.01	0.066 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	123.68	62.03	110.12
TOTAL RAINFALL (mm)=	125.69	125.69	125.69
RUNOFF COEFFICIENT =	0.98	0.49	0.88

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.01	12.150	153.84	18.22	2.26
0.033	0.00	6.100	2.01	12.167	153.84	18.23	2.26
0.050	0.00	6.117	2.01	12.183	153.84	18.25	2.26
0.067	0.00	6.133	2.01	12.200	153.84	18.27	2.26
0.083	0.00	6.150	2.01	12.217	153.84	18.28	2.26
0.100	0.00	6.167	2.01	12.233	153.84	18.30	2.26
0.117	0.00	6.183	2.01	12.250	153.84	18.32	2.26
0.133	0.00	6.200	2.01	12.267	18.22	18.33	2.26
0.150	0.00	6.217	2.01	12.283	18.10	18.35	2.26
0.167	0.00	6.233	2.01	12.300	18.10	18.37	2.26
0.183	0.00	6.250	2.01	12.317	18.10	18.38	2.26
0.200	0.00	6.267	2.26	12.333	18.10	18.40	2.26
0.217	0.00	6.283	2.26	12.350	18.10	18.42	2.26
0.233	0.00	6.300	2.26	12.367	18.10	18.43	2.26
0.250	0.00	6.317	2.26	12.383	18.10	18.45	2.26
0.267	1.38	6.333	2.26	12.400	18.10	18.47	2.26
0.283	1.38	6.350	2.26	12.417	18.10	18.48	2.26
0.300	1.38	6.367	2.26	12.433	18.10	18.50	2.26
0.317	1.38	6.383	2.26	12.450	18.10	18.52	2.26
0.333	1.38	6.400	2.26	12.467	18.10	18.53	2.26
0.350	1.38	6.417	2.26	12.483	18.10	18.55	2.26
0.367	1.38	6.433	2.26	12.500	18.10	18.57	2.26
0.383	1.38	6.450	2.26	12.517	18.10	18.58	2.26
0.400	1.38	6.467	2.26	12.533	18.10	18.60	2.26
0.417	1.38	6.483	2.26	12.550	18.10	18.62	2.26
0.433	1.38	6.500	2.26	12.567	18.10	18.63	2.26
0.450	1.38	6.517	2.26	12.583	18.10	18.65	2.26
0.467	1.38	6.533	2.26	12.600	18.10	18.67	2.26
0.483	1.38	6.550	2.26	12.617	18.10	18.68	2.26
0.500	1.38	6.567	2.26	12.633	18.10	18.70	2.26
0.517	1.38	6.583	2.26	12.650	18.10	18.72	2.26
0.533	1.38	6.600	2.26	12.667	18.10	18.73	2.26
0.550	1.38	6.617	2.26	12.683	18.10	18.75	2.26
0.567	1.38	6.633	2.26	12.700	18.10	18.77	2.26
0.583	1.38	6.650	2.26	12.717	18.10	18.78	2.26
0.600	1.38	6.667	2.26	12.733	18.10	18.80	2.26
0.617	1.38	6.683	2.26	12.750	18.10	18.82	2.26
0.633	1.38	6.700	2.26	12.767	9.31	18.83	2.26
0.650	1.38	6.717	2.26	12.783	9.30	18.85	2.26
0.667	1.38	6.733	2.26	12.800	9.30	18.87	2.26
0.683	1.38	6.750	2.26	12.817	9.30	18.88	2.26
0.700	1.38	6.767	2.26	12.833	9.30	18.90	2.26
0.717	1.38	6.783	2.26	12.850	9.30	18.92	2.26
0.733	1.38	6.800	2.26	12.867	9.30	18.93	2.26
0.750	1.38	6.817	2.26	12.883	9.30	18.95	2.26
0.767	1.38	6.833	2.26	12.900	9.30	18.97	2.26
0.783	1.38	6.850	2.26	12.917	9.30	18.98	2.26
0.800	1.38	6.867	2.26	12.933	9.30	19.00	2.26
0.817	1.38	6.883	2.26	12.950	9.30	19.02	2.26
0.833	1.38	6.900	2.26	12.967	9.30	19.03	2.26

0.850	1.38	6.917	2.26	12.983	9.30	19.05	2.26
0.867	1.38	6.933	2.26	13.000	9.30	19.07	2.26
0.883	1.38	6.950	2.26	13.017	9.30	19.08	2.26
0.900	1.38	6.967	2.26	13.033	9.30	19.10	2.26
0.917	1.38	6.983	2.26	13.050	9.30	19.12	2.26
0.933	1.38	7.000	2.26	13.067	9.30	19.13	2.26
0.950	1.38	7.017	2.26	13.083	9.30	19.15	2.26
0.967	1.38	7.033	2.26	13.100	9.30	19.17	2.26
0.983	1.38	7.050	2.26	13.117	9.30	19.18	2.26
1.000	1.38	7.067	2.26	13.133	9.30	19.20	2.26
1.017	1.38	7.083	2.26	13.150	9.30	19.22	2.26
1.033	1.38	7.100	2.26	13.167	9.30	19.23	2.26
1.050	1.38	7.117	2.26	13.183	9.30	19.25	2.26
1.067	1.38	7.133	2.26	13.200	9.30	19.27	2.26
1.083	1.38	7.150	2.26	13.217	9.30	19.28	2.26
1.100	1.38	7.167	2.26	13.233	9.30	19.30	2.26
1.117	1.38	7.183	2.26	13.250	9.30	19.32	2.26
1.133	1.38	7.200	2.26	13.267	6.79	19.33	2.26
1.150	1.38	7.217	2.26	13.283	6.79	19.35	2.26
1.167	1.38	7.233	2.26	13.300	6.79	19.37	2.26
1.183	1.38	7.250	2.26	13.317	6.79	19.38	2.26
1.200	1.38	7.267	2.77	13.333	6.79	19.40	2.26
1.217	1.38	7.283	2.77	13.350	6.79	19.42	2.26
1.233	1.38	7.300	2.77	13.367	6.79	19.43	2.26
1.250	1.38	7.317	2.77	13.383	6.79	19.45	2.26
1.267	1.38	7.333	2.77	13.400	6.79	19.47	2.26
1.283	1.38	7.350	2.77	13.417	6.79	19.48	2.26
1.300	1.38	7.367	2.77	13.433	6.79	19.50	2.26
1.317	1.38	7.383	2.77	13.450	6.79	19.52	2.26
1.333	1.38	7.400	2.77	13.467	6.79	19.53	2.26
1.350	1.38	7.417	2.77	13.483	6.79	19.55	2.26
1.367	1.38	7.433	2.77	13.500	6.79	19.57	2.26
1.383	1.38	7.450	2.77	13.517	6.79	19.58	2.26
1.400	1.38	7.467	2.77	13.533	6.79	19.60	2.26
1.417	1.38	7.483	2.77	13.550	6.79	19.62	2.26
1.433	1.38	7.500	2.77	13.567	6.79	19.63	2.26
1.450	1.38	7.517	2.77	13.583	6.79	19.65	2.26
1.467	1.38	7.533	2.77	13.600	6.79	19.67	2.26
1.483	1.38	7.550	2.77	13.617	6.79	19.68	2.26
1.500	1.38	7.567	2.77	13.633	6.79	19.70	2.26
1.517	1.38	7.583	2.77	13.650	6.79	19.72	2.26
1.533	1.38	7.600	2.77	13.667	6.79	19.73	2.26
1.550	1.38	7.617	2.77	13.683	6.79	19.75	2.26
1.567	1.38	7.633	2.77	13.700	6.79	19.77	2.26
1.583	1.38	7.650	2.77	13.717	6.79	19.78	2.26
1.600	1.38	7.667	2.77	13.733	6.79	19.80	2.26
1.617	1.38	7.683	2.77	13.750	6.79	19.82	2.26
1.633	1.38	7.700	2.77	13.767	5.28	19.83	2.26
1.650	1.38	7.717	2.77	13.783	5.28	19.85	2.26
1.667	1.38	7.733	2.77	13.800	5.28	19.87	2.26
1.683	1.38	7.750	2.77	13.817	5.28	19.88	2.26
1.700	1.38	7.767	2.77	13.833	5.28	19.90	2.26
1.717	1.38	7.783	2.77	13.850	5.28	19.92	2.26
1.733	1.38	7.800	2.77	13.867	5.28	19.93	2.26
1.750	1.38	7.817	2.77	13.883	5.28	19.95	2.26
1.767	1.38	7.833	2.77	13.900	5.28	19.97	2.26
1.783	1.38	7.850	2.77	13.917	5.28	19.98	2.26
1.800	1.38	7.867	2.77	13.933	5.28	20.00	2.26
1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26
1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51
2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51
2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51

3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51
4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51
4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51
5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51
5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Max.Eff.Inten.(mm/hr)=	153.84	91.43	
over (min)	5.00	4.00	
Storage Coeff. (min)=	0.79 (ii)	3.06 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.50	0.33	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.042 (iii)
TIME TO PEAK (hrs)=	12.23	12.25	12.25
RUNOFF VOLUME (mm)=	123.69	62.03	111.97
TOTAL RAINFALL (mm)=	125.69	125.69	125.69
RUNOFF COEFFICIENT =	0.98	0.49	0.89

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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--------------------
| ADD HYD  (  0010)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0201):     0.17   0.066    12.25   110.12
     + ID2= 2 (  0202):     0.11   0.042    12.25   111.97
       ================================================
       ID = 3 (  0010):     0.27   0.107    12.25   110.83

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0012)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                         0.0000     0.0000    |   0.0200     0.0082
                         0.0010     0.0009    |   0.0210     0.0098
                         0.0070     0.0019    |   0.0230     0.0115
                         0.0100     0.0028    |   0.0240     0.0134
                         0.0130     0.0038    |   0.0620     0.0155
                         0.0150     0.0047    |   0.1400     0.0177
                         0.0170     0.0054    |   0.2500     0.0200
                         0.0180     0.0067    |   0.0000     0.0000

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0010)    0.275     0.107     12.25     110.83
   OUTFLOW: ID= 1 (  0012)    0.275     0.022     12.35     110.00

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 20.85
                  TIME SHIFT OF PEAK FLOW          (min)=  6.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0110

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0012):     0.27   0.022    12.35   110.00
     + ID2= 2 (  0204):     0.06   0.008    12.45    53.11
       ================================================
       ID = 3 (  0014):     0.34   0.030    12.43   101.61

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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--------------------
| CALIB            |
| NASHYD   (  0205)|   Area    (ha)=   0.02   Curve Number   (CN)= 74.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.56   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.22

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
               TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
              0.017    0.00 | 6.083    2.01 |12.150  153.84 | 18.22    2.26
              0.033    0.00 | 6.100    2.01 |12.167  153.84 | 18.23    2.26
              0.050    0.00 | 6.117    2.01 |12.183  153.84 | 18.25    2.26
              0.067    0.00 | 6.133    2.01 |12.200  153.84 | 18.27    2.26
              0.083    0.00 | 6.150    2.01 |12.217  153.84 | 18.28    2.26
              0.100    0.00 | 6.167    2.01 |12.233  153.84 | 18.30    2.26
              0.117    0.00 | 6.183    2.01 |12.250  153.84 | 18.32    2.26
              0.133    0.00 | 6.200    2.01 |12.267   18.22 | 18.33    2.26
              0.150    0.00 | 6.217    2.01 |12.283   18.10 | 18.35    2.26
              0.167    0.00 | 6.233    2.01 |12.300   18.10 | 18.37    2.26
              0.183    0.00 | 6.250    2.01 |12.317   18.10 | 18.38    2.26
              0.200    0.00 | 6.267    2.26 |12.333   18.10 | 18.40    2.26
              0.217    0.00 | 6.283    2.26 |12.350   18.10 | 18.42    2.26
              0.233    0.00 | 6.300    2.26 |12.367   18.10 | 18.43    2.26
              0.250    0.00 | 6.317    2.26 |12.383   18.10 | 18.45    2.26
              0.267    1.38 | 6.333    2.26 |12.400   18.10 | 18.47    2.26
              0.283    1.38 | 6.350    2.26 |12.417   18.10 | 18.48    2.26
              0.300    1.38 | 6.367    2.26 |12.433   18.10 | 18.50    2.26
              0.317    1.38 | 6.383    2.26 |12.450   18.10 | 18.52    2.26
              0.333    1.38 | 6.400    2.26 |12.467   18.10 | 18.53    2.26
              0.350    1.38 | 6.417    2.26 |12.483   18.10 | 18.55    2.26
              0.367    1.38 | 6.433    2.26 |12.500   18.10 | 18.57    2.26
              0.383    1.38 | 6.450    2.26 |12.517   18.10 | 18.58    2.26
              0.400    1.38 | 6.467    2.26 |12.533   18.10 | 18.60    2.26
              0.417    1.38 | 6.483    2.26 |12.550   18.10 | 18.62    2.26
              0.433    1.38 | 6.500    2.26 |12.567   18.10 | 18.63    2.26
              0.450    1.38 | 6.517    2.26 |12.583   18.10 | 18.65    2.26
              0.467    1.38 | 6.533    2.26 |12.600   18.10 | 18.67    2.26
              0.483    1.38 | 6.550    2.26 |12.617   18.10 | 18.68    2.26
              0.500    1.38 | 6.567    2.26 |12.633   18.10 | 18.70    2.26
              0.517    1.38 | 6.583    2.26 |12.650   18.10 | 18.72    2.26
              0.533    1.38 | 6.600    2.26 |12.667   18.10 | 18.73    2.26
              0.550    1.38 | 6.617    2.26 |12.683   18.10 | 18.75    2.26
              0.567    1.38 | 6.633    2.26 |12.700   18.10 | 18.77    2.26
              0.583    1.38 | 6.650    2.26 |12.717   18.10 | 18.78    2.26
              0.600    1.38 | 6.667    2.26 |12.733   18.10 | 18.80    2.26
              0.617    1.38 | 6.683    2.26 |12.750   18.10 | 18.82    2.26
              0.633    1.38 | 6.700    2.26 |12.767    9.31 | 18.83    2.26
              0.650    1.38 | 6.717    2.26 |12.783    9.30 | 18.85    2.26
              0.667    1.38 | 6.733    2.26 |12.800    9.30 | 18.87    2.26
              0.683    1.38 | 6.750    2.26 |12.817    9.30 | 18.88    2.26
              0.700    1.38 | 6.767    2.26 |12.833    9.30 | 18.90    2.26
              0.717    1.38 | 6.783    2.26 |12.850    9.30 | 18.92    2.26
              0.733    1.38 | 6.800    2.26 |12.867    9.30 | 18.93    2.26
              0.750    1.38 | 6.817    2.26 |12.883    9.30 | 18.95    2.26
              0.767    1.38 | 6.833    2.26 |12.900    9.30 | 18.97    2.26
              0.783    1.38 | 6.850    2.26 |12.917    9.30 | 18.98    2.26
              0.800    1.38 | 6.867    2.26 |12.933    9.30 | 19.00    2.26
              0.817    1.38 | 6.883    2.26 |12.950    9.30 | 19.02    2.26
              0.833    1.38 | 6.900    2.26 |12.967    9.30 | 19.03    2.26
              0.850    1.38 | 6.917    2.26 |12.983    9.30 | 19.05    2.26
              0.867    1.38 | 6.933    2.26 |13.000    9.30 | 19.07    2.26
              0.883    1.38 | 6.950    2.26 |13.017    9.30 | 19.08    2.26
              0.900    1.38 | 6.967    2.26 |13.033    9.30 | 19.10    2.26
              0.917    1.38 | 6.983    2.26 |13.050    9.30 | 19.12    2.26
              0.933    1.38 | 7.000    2.26 |13.067    9.30 | 19.13    2.26
              0.950    1.38 | 7.017    2.26 |13.083    9.30 | 19.15    2.26
              0.967    1.38 | 7.033    2.26 |13.100    9.30 | 19.17    2.26
              0.983    1.38 | 7.050    2.26 |13.117    9.30 | 19.18    2.26
              1.000    1.38 | 7.067    2.26 |13.133    9.30 | 19.20    2.26
              1.017    1.38 | 7.083    2.26 |13.150    9.30 | 19.22    2.26
              1.033    1.38 | 7.100    2.26 |13.167    9.30 | 19.23    2.26
              1.050    1.38 | 7.117    2.26 |13.183    9.30 | 19.25    2.26
              1.067    1.38 | 7.133    2.26 |13.200    9.30 | 19.27    2.26
              1.083    1.38 | 7.150    2.26 |13.217    9.30 | 19.28    2.26
              1.100    1.38 | 7.167    2.26 |13.233    9.30 | 19.30    2.26
              1.117    1.38 | 7.183    2.26 |13.250    9.30 | 19.32    2.26
              1.133    1.38 | 7.200    2.26 |13.267    6.79 | 19.33    2.26
              1.150    1.38 | 7.217    2.26 |13.283    6.79 | 19.35    2.26
              1.167    1.38 | 7.233    2.26 |13.300    6.79 | 19.37    2.26
              1.183    1.38 | 7.250    2.26 |13.317    6.79 | 19.38    2.26
              1.200    1.38 | 7.267    2.77 |13.333    6.79 | 19.40    2.26
              1.217    1.38 | 7.283    2.77 |13.350    6.79 | 19.42    2.26
              1.233    1.38 | 7.300    2.77 |13.367    6.79 | 19.43    2.26
              1.250    1.38 | 7.317    2.77 |13.383    6.79 | 19.45    2.26
              1.267    1.38 | 7.333    2.77 |13.400    6.79 | 19.47    2.26
              1.283    1.38 | 7.350    2.77 |13.417    6.79 | 19.48    2.26
              1.300    1.38 | 7.367    2.77 |13.433    6.79 | 19.50    2.26
              1.317    1.38 | 7.383    2.77 |13.450    6.79 | 19.52    2.26
              1.333    1.38 | 7.400    2.77 |13.467    6.79 | 19.53    2.26
              1.350    1.38 | 7.417    2.77 |13.483    6.79 | 19.55    2.26
              1.367    1.38 | 7.433    2.77 |13.500    6.79 | 19.57    2.26
              1.383    1.38 | 7.450    2.77 |13.517    6.79 | 19.58    2.26
              1.400    1.38 | 7.467    2.77 |13.533    6.79 | 19.60    2.26
              1.417    1.38 | 7.483    2.77 |13.550    6.79 | 19.62    2.26
              1.433    1.38 | 7.500    2.77 |13.567    6.79 | 19.63    2.26
              1.450    1.38 | 7.517    2.77 |13.583    6.79 | 19.65    2.26
              1.467    1.38 | 7.533    2.77 |13.600    6.79 | 19.67    2.26
              1.483    1.38 | 7.550    2.77 |13.617    6.79 | 19.68    2.26
              1.500    1.38 | 7.567    2.77 |13.633    6.79 | 19.70    2.26
              1.517    1.38 | 7.583    2.77 |13.650    6.79 | 19.72    2.26
              1.533    1.38 | 7.600    2.77 |13.667    6.79 | 19.73    2.26
              1.550    1.38 | 7.617    2.77 |13.683    6.79 | 19.75    2.26
              1.567    1.38 | 7.633    2.77 |13.700    6.79 | 19.77    2.26
              1.583    1.38 | 7.650    2.77 |13.717    6.79 | 19.78    2.26
              1.600    1.38 | 7.667    2.77 |13.733    6.79 | 19.80    2.26
              1.617    1.38 | 7.683    2.77 |13.750    6.79 | 19.82    2.26
              1.633    1.38 | 7.700    2.77 |13.767    5.28 | 19.83    2.26
              1.650    1.38 | 7.717    2.77 |13.783    5.28 | 19.85    2.26
              1.667    1.38 | 7.733    2.77 |13.800    5.28 | 19.87    2.26
              1.683    1.38 | 7.750    2.77 |13.817    5.28 | 19.88    2.26
              1.700    1.38 | 7.767    2.77 |13.833    5.28 | 19.90    2.26
              1.717    1.38 | 7.783    2.77 |13.850    5.28 | 19.92    2.26
              1.733    1.38 | 7.800    2.77 |13.867    5.28 | 19.93    2.26
              1.750    1.38 | 7.817    2.77 |13.883    5.28 | 19.95    2.26
              1.767    1.38 | 7.833    2.77 |13.900    5.28 | 19.97    2.26
              1.783    1.38 | 7.850    2.77 |13.917    5.28 | 19.98    2.26
              1.800    1.38 | 7.867    2.77 |13.933    5.28 | 20.00    2.26
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1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26
1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51
2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51
2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51
3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51

4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51
4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51
5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51
5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 12.367
RUNOFF VOLUME (mm)= 57.637
TOTAL RAINFALL (mm)= 125.691
RUNOFF COEFFICIENT = 0.459

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (0203)	Area (ha)=	0.13
ID= 1 DT= 1.0 min	Total Imp(%)=	75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.01	12.150	153.84	18.22	2.26
0.033	0.00	6.100	2.01	12.167	153.84	18.23	2.26
0.050	0.00	6.117	2.01	12.183	153.84	18.25	2.26
0.067	0.00	6.133	2.01	12.200	153.84	18.27	2.26
0.083	0.00	6.150	2.01	12.217	153.84	18.28	2.26
0.100	0.00	6.167	2.01	12.233	153.84	18.30	2.26
0.117	0.00	6.183	2.01	12.250	153.84	18.32	2.26
0.133	0.00	6.200	2.01	12.267	18.22	18.33	2.26
0.150	0.00	6.217	2.01	12.283	18.10	18.35	2.26
0.167	0.00	6.233	2.01	12.300	18.10	18.37	2.26
0.183	0.00	6.250	2.01	12.317	18.10	18.38	2.26
0.200	0.00	6.267	2.26	12.333	18.10	18.40	2.26
0.217	0.00	6.283	2.26	12.350	18.10	18.42	2.26
0.233	0.00	6.300	2.26	12.367	18.10	18.43	2.26
0.250	0.00	6.317	2.26	12.383	18.10	18.45	2.26
0.267	1.38	6.333	2.26	12.400	18.10	18.47	2.26
0.283	1.38	6.350	2.26	12.417	18.10	18.48	2.26
0.300	1.38	6.367	2.26	12.433	18.10	18.50	2.26
0.317	1.38	6.383	2.26	12.450	18.10	18.52	2.26
0.333	1.38	6.400	2.26	12.467	18.10	18.53	2.26
0.350	1.38	6.417	2.26	12.483	18.10	18.55	2.26
0.367	1.38	6.433	2.26	12.500	18.10	18.57	2.26
0.383	1.38	6.450	2.26	12.517	18.10	18.58	2.26
0.400	1.38	6.467	2.26	12.533	18.10	18.60	2.26
0.417	1.38	6.483	2.26	12.550	18.10	18.62	2.26
0.433	1.38	6.500	2.26	12.567	18.10	18.63	2.26
0.450	1.38	6.517	2.26	12.583	18.10	18.65	2.26
0.467	1.38	6.533	2.26	12.600	18.10	18.67	2.26
0.483	1.38	6.550	2.26	12.617	18.10	18.68	2.26
0.500	1.38	6.567	2.26	12.633	18.10	18.70	2.26
0.517	1.38	6.583	2.26	12.650	18.10	18.72	2.26
0.533	1.38	6.600	2.26	12.667	18.10	18.73	2.26
0.550	1.38	6.617	2.26	12.683	18.10	18.75	2.26
0.567	1.38	6.633	2.26	12.700	18.10	18.77	2.26
0.583	1.38	6.650	2.26	12.717	18.10	18.78	2.26
0.600	1.38	6.667	2.26	12.733	18.10	18.80	2.26
0.617	1.38	6.683	2.26	12.750	18.10	18.82	2.26
0.633	1.38	6.700	2.26	12.767	9.31	18.83	2.26
0.650	1.38	6.717	2.26	12.783	9.30	18.85	2.26
0.667	1.38	6.733	2.26	12.800	9.30	18.87	2.26
0.683	1.38	6.750	2.26	12.817	9.30	18.88	2.26
0.700	1.38	6.767	2.26	12.833	9.30	18.90	2.26
0.717	1.38	6.783	2.26	12.850	9.30	18.92	2.26
0.733	1.38	6.800	2.26	12.867	9.30	18.93	2.26
0.750	1.38	6.817	2.26	12.883	9.30	18.95	2.26
0.767	1.38	6.833	2.26	12.900	9.30	18.97	2.26
0.783	1.38	6.850	2.26	12.917	9.30	18.98	2.26
0.800	1.38	6.867	2.26	12.933	9.30	19.00	2.26
0.817	1.38	6.883	2.26	12.950	9.30	19.02	2.26
0.833	1.38	6.900	2.26	12.967	9.30	19.03	2.26

0.850	1.38	6.917	2.26	12.983	9.30	19.05	2.26
0.867	1.38	6.933	2.26	13.000	9.30	19.07	2.26
0.883	1.38	6.950	2.26	13.017	9.30	19.08	2.26
0.900	1.38	6.967	2.26	13.033	9.30	19.10	2.26
0.917	1.38	6.983	2.26	13.050	9.30	19.12	2.26
0.933	1.38	7.000	2.26	13.067	9.30	19.13	2.26
0.950	1.38	7.017	2.26	13.083	9.30	19.15	2.26
0.967	1.38	7.033	2.26	13.100	9.30	19.17	2.26
0.983	1.38	7.050	2.26	13.117	9.30	19.18	2.26
1.000	1.38	7.067	2.26	13.133	9.30	19.20	2.26
1.017	1.38	7.083	2.26	13.150	9.30	19.22	2.26
1.033	1.38	7.100	2.26	13.167	9.30	19.23	2.26
1.050	1.38	7.117	2.26	13.183	9.30	19.25	2.26
1.067	1.38	7.133	2.26	13.200	9.30	19.27	2.26
1.083	1.38	7.150	2.26	13.217	9.30	19.28	2.26
1.100	1.38	7.167	2.26	13.233	9.30	19.30	2.26
1.117	1.38	7.183	2.26	13.250	9.30	19.32	2.26
1.133	1.38	7.200	2.26	13.267	6.79	19.33	2.26
1.150	1.38	7.217	2.26	13.283	6.79	19.35	2.26
1.167	1.38	7.233	2.26	13.300	6.79	19.37	2.26
1.183	1.38	7.250	2.26	13.317	6.79	19.38	2.26
1.200	1.38	7.267	2.77	13.333	6.79	19.40	2.26
1.217	1.38	7.283	2.77	13.350	6.79	19.42	2.26
1.233	1.38	7.300	2.77	13.367	6.79	19.43	2.26
1.250	1.38	7.317	2.77	13.383	6.79	19.45	2.26
1.267	1.38	7.333	2.77	13.400	6.79	19.47	2.26
1.283	1.38	7.350	2.77	13.417	6.79	19.48	2.26
1.300	1.38	7.367	2.77	13.433	6.79	19.50	2.26
1.317	1.38	7.383	2.77	13.450	6.79	19.52	2.26
1.333	1.38	7.400	2.77	13.467	6.79	19.53	2.26
1.350	1.38	7.417	2.77	13.483	6.79	19.55	2.26
1.367	1.38	7.433	2.77	13.500	6.79	19.57	2.26
1.383	1.38	7.450	2.77	13.517	6.79	19.58	2.26
1.400	1.38	7.467	2.77	13.533	6.79	19.60	2.26
1.417	1.38	7.483	2.77	13.550	6.79	19.62	2.26
1.433	1.38	7.500	2.77	13.567	6.79	19.63	2.26
1.450	1.38	7.517	2.77	13.583	6.79	19.65	2.26
1.467	1.38	7.533	2.77	13.600	6.79	19.67	2.26
1.483	1.38	7.550	2.77	13.617	6.79	19.68	2.26
1.500	1.38	7.567	2.77	13.633	6.79	19.70	2.26
1.517	1.38	7.583	2.77	13.650	6.79	19.72	2.26
1.533	1.38	7.600	2.77	13.667	6.79	19.73	2.26
1.550	1.38	7.617	2.77	13.683	6.79	19.75	2.26
1.567	1.38	7.633	2.77	13.700	6.79	19.77	2.26
1.583	1.38	7.650	2.77	13.717	6.79	19.78	2.26
1.600	1.38	7.667	2.77	13.733	6.79	19.80	2.26
1.617	1.38	7.683	2.77	13.750	6.79	19.82	2.26
1.633	1.38	7.700	2.77	13.767	5.28	19.83	2.26
1.650	1.38	7.717	2.77	13.783	5.28	19.85	2.26
1.667	1.38	7.733	2.77	13.800	5.28	19.87	2.26
1.683	1.38	7.750	2.77	13.817	5.28	19.88	2.26
1.700	1.38	7.767	2.77	13.833	5.28	19.90	2.26
1.717	1.38	7.783	2.77	13.850	5.28	19.92	2.26
1.733	1.38	7.800	2.77	13.867	5.28	19.93	2.26
1.750	1.38	7.817	2.77	13.883	5.28	19.95	2.26
1.767	1.38	7.833	2.77	13.900	5.28	19.97	2.26
1.783	1.38	7.850	2.77	13.917	5.28	19.98	2.26
1.800	1.38	7.867	2.77	13.933	5.28	20.00	2.26
1.817	1.38	7.883	2.77	13.950	5.28	20.02	2.26
1.833	1.38	7.900	2.77	13.967	5.28	20.03	2.26
1.850	1.38	7.917	2.77	13.983	5.28	20.05	2.26
1.867	1.38	7.933	2.77	14.000	5.28	20.07	2.26
1.883	1.38	7.950	2.77	14.017	5.28	20.08	2.26
1.900	1.38	7.967	2.77	14.033	5.28	20.10	2.26
1.917	1.38	7.983	2.77	14.050	5.28	20.12	2.26
1.933	1.38	8.000	2.77	14.067	5.28	20.13	2.26
1.950	1.38	8.017	2.77	14.083	5.28	20.15	2.26
1.967	1.38	8.033	2.77	14.100	5.28	20.17	2.26
1.983	1.38	8.050	2.77	14.117	5.28	20.18	2.26
2.000	1.38	8.067	2.77	14.133	5.28	20.20	2.26
2.017	1.38	8.083	2.77	14.150	5.28	20.22	2.26
2.033	1.38	8.100	2.77	14.167	5.28	20.23	2.26
2.050	1.38	8.117	2.77	14.183	5.28	20.25	2.26
2.067	1.38	8.133	2.77	14.200	5.28	20.27	1.51
2.083	1.38	8.150	2.77	14.217	5.28	20.28	1.51
2.100	1.38	8.167	2.77	14.233	5.28	20.30	1.51
2.117	1.38	8.183	2.77	14.250	5.28	20.32	1.51
2.133	1.38	8.200	2.77	14.267	3.77	20.33	1.51
2.150	1.38	8.217	2.77	14.283	3.77	20.35	1.51
2.167	1.38	8.233	2.77	14.300	3.77	20.37	1.51
2.183	1.38	8.250	2.77	14.317	3.77	20.38	1.51
2.200	1.38	8.267	3.27	14.333	3.77	20.40	1.51
2.217	1.38	8.283	3.27	14.350	3.77	20.42	1.51
2.233	1.38	8.300	3.27	14.367	3.77	20.43	1.51
2.250	1.38	8.317	3.27	14.383	3.77	20.45	1.51
2.267	1.63	8.333	3.27	14.400	3.77	20.47	1.51
2.283	1.63	8.350	3.27	14.417	3.77	20.48	1.51
2.300	1.63	8.367	3.27	14.433	3.77	20.50	1.51
2.317	1.63	8.383	3.27	14.450	3.77	20.52	1.51
2.333	1.63	8.400	3.27	14.467	3.77	20.53	1.51
2.350	1.63	8.417	3.27	14.483	3.77	20.55	1.51
2.367	1.63	8.433	3.27	14.500	3.77	20.57	1.51
2.383	1.63	8.450	3.27	14.517	3.77	20.58	1.51
2.400	1.63	8.467	3.27	14.533	3.77	20.60	1.51
2.417	1.63	8.483	3.27	14.550	3.77	20.62	1.51
2.433	1.63	8.500	3.27	14.567	3.77	20.63	1.51
2.450	1.63	8.517	3.27	14.583	3.77	20.65	1.51
2.467	1.63	8.533	3.27	14.600	3.77	20.67	1.51
2.483	1.63	8.550	3.27	14.617	3.77	20.68	1.51
2.500	1.63	8.567	3.27	14.633	3.77	20.70	1.51
2.517	1.63	8.583	3.27	14.650	3.77	20.72	1.51
2.533	1.63	8.600	3.27	14.667	3.77	20.73	1.51
2.550	1.63	8.617	3.27	14.683	3.77	20.75	1.51
2.567	1.63	8.633	3.27	14.700	3.77	20.77	1.51
2.583	1.63	8.650	3.27	14.717	3.77	20.78	1.51
2.600	1.63	8.667	3.27	14.733	3.77	20.80	1.51
2.617	1.63	8.683	3.27	14.750	3.77	20.82	1.51
2.633	1.63	8.700	3.27	14.767	3.77	20.83	1.51
2.650	1.63	8.717	3.27	14.783	3.77	20.85	1.51
2.667	1.63	8.733	3.27	14.800	3.77	20.87	1.51
2.683	1.63	8.750	3.27	14.817	3.77	20.88	1.51
2.700	1.63	8.767	3.52	14.833	3.77	20.90	1.51
2.717	1.63	8.783	3.52	14.850	3.77	20.92	1.51
2.733	1.63	8.800	3.52	14.867	3.77	20.93	1.51
2.750	1.63	8.817	3.52	14.883	3.77	20.95	1.51
2.767	1.63	8.833	3.52	14.900	3.77	20.97	1.51
2.783	1.63	8.850	3.52	14.917	3.77	20.98	1.51
2.800	1.63	8.867	3.52	14.933	3.77	21.00	1.51
2.817	1.63	8.883	3.52	14.950	3.77	21.02	1.51
2.833	1.63	8.900	3.52	14.967	3.77	21.03	1.51
2.850	1.63	8.917	3.52	14.983	3.77	21.05	1.51
2.867	1.63	8.933	3.52	15.000	3.77	21.07	1.51
2.883	1.63	8.950	3.52	15.017	3.77	21.08	1.51
2.900	1.63	8.967	3.52	15.033	3.77	21.10	1.51
2.917	1.63	8.983	3.52	15.050	3.77	21.12	1.51
2.933	1.63	9.000	3.52	15.067	3.77	21.13	1.51
2.950	1.63	9.017	3.52	15.083	3.77	21.15	1.51
2.967	1.63	9.033	3.52	15.100	3.77	21.17	1.51
2.983	1.63	9.050	3.52	15.117	3.77	21.18	1.51
3.000	1.63	9.067	3.52	15.133	3.77	21.20	1.51
3.017	1.63	9.083	3.52	15.150	3.77	21.22	1.51
3.033	1.63	9.100	3.52	15.167	3.77	21.23	1.51
3.050	1.63	9.117	3.52	15.183	3.77	21.25	1.51
3.067	1.63	9.133	3.52	15.200	3.77	21.27	1.51
3.083	1.63	9.150	3.52	15.217	3.77	21.28	1.51
3.100	1.63	9.167	3.52	15.233	3.77	21.30	1.51
3.117	1.63	9.183	3.52	15.250	3.77	21.32	1.51
3.133	1.63	9.200	3.52	15.267	3.77	21.33	1.51
3.150	1.63	9.217	3.52	15.283	3.77	21.35	1.51
3.167	1.63	9.233	3.52	15.300	3.77	21.37	1.51
3.183	1.63	9.250	3.52	15.317	3.77	21.38	1.51
3.200	1.63	9.267	4.02	15.333	3.77	21.40	1.51
3.217	1.63	9.283	4.02	15.350	3.77	21.42	1.51
3.233	1.63	9.300	4.02	15.367	3.77	21.43	1.51
3.250	1.63	9.317	4.02	15.383	3.77	21.45	1.51
3.267	1.63	9.333	4.02	15.400	3.77	21.47	1.51
3.283	1.63	9.350	4.02	15.417	3.77	21.48	1.51
3.300	1.63	9.367	4.02	15.433	3.77	21.50	1.51
3.317	1.63	9.383	4.02	15.450	3.77	21.52	1.51
3.333	1.63	9.400	4.02	15.467	3.77	21.53	1.51
3.350	1.63	9.417	4.02	15.483	3.77	21.55	1.51
3.367	1.63	9.433	4.02	15.500	3.77	21.57	1.51
3.383	1.63	9.450	4.02	15.517	3.77	21.58	1.51
3.400	1.63	9.467	4.02	15.533	3.77	21.60	1.51
3.417	1.63	9.483	4.02	15.550	3.77	21.62	1.51
3.433	1.63	9.500	4.02	15.567	3.77	21.63	1.51
3.450	1.63	9.517	4.02	15.583	3.77	21.65	1.51
3.467	1.63	9.533	4.02	15.600	3.77	21.67	1.51
3.483	1.63	9.550	4.02	15.617	3.77	21.68	1.51
3.500	1.63	9.567	4.02	15.633	3.77	21.70	1.51
3.517	1.63	9.583	4.02	15.650	3.77	21.72	1.51
3.533	1.63	9.600	4.02	15.667	3.77	21.73	1.51
3.550	1.63	9.617	4.02	15.683	3.77	21.75	1.51
3.567	1.63	9.633	4.02	15.700	3.77	21.77	1.51
3.583	1.63	9.650	4.02	15.717	3.77	21.78	1.51
3.600	1.63	9.667	4.02	15.733	3.77	21.80	1.51
3.617	1.63	9.683	4.02	15.750	3.77	21.82	1.51
3.633	1.63	9.700	4.02	15.767	3.77	21.83	1.51

3.650	1.63	9.717	4.02	15.783	3.77	21.85	1.51
3.667	1.63	9.733	4.02	15.800	3.77	21.87	1.51
3.683	1.63	9.750	4.02	15.817	3.77	21.88	1.51
3.700	1.63	9.767	4.52	15.833	3.77	21.90	1.51
3.717	1.63	9.783	4.52	15.850	3.77	21.92	1.51
3.733	1.63	9.800	4.52	15.867	3.77	21.93	1.51
3.750	1.63	9.817	4.52	15.883	3.77	21.95	1.51
3.767	1.63	9.833	4.52	15.900	3.77	21.97	1.51
3.783	1.63	9.850	4.52	15.917	3.77	21.98	1.51
3.800	1.63	9.867	4.52	15.933	3.77	22.00	1.51
3.817	1.63	9.883	4.52	15.950	3.77	22.02	1.51
3.833	1.63	9.900	4.52	15.967	3.77	22.03	1.51
3.850	1.63	9.917	4.52	15.983	3.77	22.05	1.51
3.867	1.63	9.933	4.52	16.000	3.77	22.07	1.51
3.883	1.63	9.950	4.52	16.017	3.77	22.08	1.51
3.900	1.63	9.967	4.52	16.033	3.77	22.10	1.51
3.917	1.63	9.983	4.52	16.050	3.77	22.12	1.51
3.933	1.63	10.000	4.52	16.067	3.77	22.13	1.51
3.950	1.63	10.017	4.52	16.083	3.77	22.15	1.51
3.967	1.63	10.033	4.52	16.100	3.77	22.17	1.51
3.983	1.63	10.050	4.52	16.117	3.77	22.18	1.51
4.000	1.63	10.067	4.52	16.133	3.77	22.20	1.51
4.017	1.63	10.083	4.52	16.150	3.77	22.22	1.51
4.033	1.63	10.100	4.52	16.167	3.77	22.23	1.51
4.050	1.63	10.117	4.52	16.183	3.77	22.25	1.51
4.067	1.63	10.133	4.52	16.200	3.77	22.27	1.51
4.083	1.63	10.150	4.52	16.217	3.77	22.28	1.51
4.100	1.63	10.167	4.52	16.233	3.77	22.30	1.51
4.117	1.63	10.183	4.52	16.250	3.77	22.32	1.51
4.133	1.63	10.200	4.52	16.267	2.27	22.33	1.51
4.150	1.63	10.217	4.52	16.283	2.26	22.35	1.51
4.167	1.63	10.233	4.52	16.300	2.26	22.37	1.51
4.183	1.63	10.250	4.53	16.317	2.26	22.38	1.51
4.200	1.63	10.267	5.78	16.333	2.26	22.40	1.51
4.217	1.63	10.283	5.78	16.350	2.26	22.42	1.51
4.233	1.63	10.300	5.78	16.367	2.26	22.43	1.51
4.250	1.63	10.317	5.78	16.383	2.26	22.45	1.51
4.267	2.01	10.333	5.78	16.400	2.26	22.47	1.51
4.283	2.01	10.350	5.78	16.417	2.26	22.48	1.51
4.300	2.01	10.367	5.78	16.433	2.26	22.50	1.51
4.317	2.01	10.383	5.78	16.450	2.26	22.52	1.51
4.333	2.01	10.400	5.78	16.467	2.26	22.53	1.51
4.350	2.01	10.417	5.78	16.483	2.26	22.55	1.51
4.367	2.01	10.433	5.78	16.500	2.26	22.57	1.51
4.383	2.01	10.450	5.78	16.517	2.26	22.58	1.51
4.400	2.01	10.467	5.78	16.533	2.26	22.60	1.51
4.417	2.01	10.483	5.78	16.550	2.26	22.62	1.51
4.433	2.01	10.500	5.78	16.567	2.26	22.63	1.51
4.450	2.01	10.517	5.78	16.583	2.26	22.65	1.51
4.467	2.01	10.533	5.78	16.600	2.26	22.67	1.51
4.483	2.01	10.550	5.78	16.617	2.26	22.68	1.51
4.500	2.01	10.567	5.78	16.633	2.26	22.70	1.51
4.517	2.01	10.583	5.78	16.650	2.26	22.72	1.51
4.533	2.01	10.600	5.78	16.667	2.26	22.73	1.51
4.550	2.01	10.617	5.78	16.683	2.26	22.75	1.51
4.567	2.01	10.633	5.78	16.700	2.26	22.77	1.51
4.583	2.01	10.650	5.78	16.717	2.26	22.78	1.51
4.600	2.01	10.667	5.78	16.733	2.26	22.80	1.51
4.617	2.01	10.683	5.78	16.750	2.26	22.82	1.51
4.633	2.01	10.700	5.78	16.767	2.26	22.83	1.51
4.650	2.01	10.717	5.78	16.783	2.26	22.85	1.51
4.667	2.01	10.733	5.78	16.800	2.26	22.87	1.51
4.683	2.01	10.750	5.78	16.817	2.26	22.88	1.51
4.700	2.01	10.767	7.79	16.833	2.26	22.90	1.51
4.717	2.01	10.783	7.79	16.850	2.26	22.92	1.51
4.733	2.01	10.800	7.79	16.867	2.26	22.93	1.51
4.750	2.01	10.817	7.79	16.883	2.26	22.95	1.51
4.767	2.01	10.833	7.79	16.900	2.26	22.97	1.51
4.783	2.01	10.850	7.79	16.917	2.26	22.98	1.51
4.800	2.01	10.867	7.79	16.933	2.26	23.00	1.51
4.817	2.01	10.883	7.79	16.950	2.26	23.02	1.51
4.833	2.01	10.900	7.79	16.967	2.26	23.03	1.51
4.850	2.01	10.917	7.79	16.983	2.26	23.05	1.51
4.867	2.01	10.933	7.79	17.000	2.26	23.07	1.51
4.883	2.01	10.950	7.79	17.017	2.26	23.08	1.51
4.900	2.01	10.967	7.79	17.033	2.26	23.10	1.51
4.917	2.01	10.983	7.79	17.050	2.26	23.12	1.51
4.933	2.01	11.000	7.79	17.067	2.26	23.13	1.51
4.950	2.01	11.017	7.79	17.083	2.26	23.15	1.51
4.967	2.01	11.033	7.79	17.100	2.26	23.17	1.51
4.983	2.01	11.050	7.79	17.117	2.26	23.18	1.51
5.000	2.01	11.067	7.79	17.133	2.26	23.20	1.51
5.017	2.01	11.083	7.79	17.150	2.26	23.22	1.51
5.033	2.01	11.100	7.79	17.167	2.26	23.23	1.51
5.050	2.01	11.117	7.79	17.183	2.26	23.25	1.51
5.067	2.01	11.133	7.79	17.200	2.26	23.27	1.51
5.083	2.01	11.150	7.79	17.217	2.26	23.28	1.51
5.100	2.01	11.167	7.79	17.233	2.26	23.30	1.51
5.117	2.01	11.183	7.79	17.250	2.26	23.32	1.51
5.133	2.01	11.200	7.79	17.267	2.26	23.33	1.51
5.150	2.01	11.217	7.79	17.283	2.26	23.35	1.51
5.167	2.01	11.233	7.79	17.300	2.26	23.37	1.51
5.183	2.01	11.250	7.79	17.317	2.26	23.38	1.51
5.200	2.01	11.267	12.07	17.333	2.26	23.40	1.51
5.217	2.01	11.283	12.07	17.350	2.26	23.42	1.51
5.233	2.01	11.300	12.07	17.367	2.26	23.43	1.51
5.250	2.01	11.317	12.07	17.383	2.26	23.45	1.51
5.267	2.01	11.333	12.07	17.400	2.26	23.47	1.51
5.283	2.01	11.350	12.07	17.417	2.26	23.48	1.51
5.300	2.01	11.367	12.07	17.433	2.26	23.50	1.51
5.317	2.01	11.383	12.07	17.450	2.26	23.52	1.51
5.333	2.01	11.400	12.07	17.467	2.26	23.53	1.51
5.350	2.01	11.417	12.07	17.483	2.26	23.55	1.51
5.367	2.01	11.433	12.07	17.500	2.26	23.57	1.51
5.383	2.01	11.450	12.07	17.517	2.26	23.58	1.51
5.400	2.01	11.467	12.07	17.533	2.26	23.60	1.51
5.417	2.01	11.483	12.07	17.550	2.26	23.62	1.51
5.433	2.01	11.500	12.07	17.567	2.26	23.63	1.51
5.450	2.01	11.517	12.07	17.583	2.26	23.65	1.51
5.467	2.01	11.533	12.07	17.600	2.26	23.67	1.51
5.483	2.01	11.550	12.07	17.617	2.26	23.68	1.51
5.500	2.01	11.567	12.07	17.633	2.26	23.70	1.51
5.517	2.01	11.583	12.07	17.650	2.26	23.72	1.51
5.533	2.01	11.600	12.07	17.667	2.26	23.73	1.51
5.550	2.01	11.617	12.07	17.683	2.26	23.75	1.51
5.567	2.01	11.633	12.07	17.700	2.26	23.77	1.51
5.583	2.01	11.650	12.07	17.717	2.26	23.78	1.51
5.600	2.01	11.667	12.07	17.733	2.26	23.80	1.51
5.617	2.01	11.683	12.07	17.750	2.26	23.82	1.51
5.633	2.01	11.700	12.07	17.767	2.26	23.83	1.51
5.650	2.01	11.717	12.07	17.783	2.26	23.85	1.51
5.667	2.01	11.733	12.07	17.800	2.26	23.87	1.51
5.683	2.01	11.750	12.07	17.817	2.26	23.88	1.51
5.700	2.01	11.767	37.19	17.833	2.26	23.90	1.51
5.717	2.01	11.783	37.20	17.850	2.26	23.92	1.51
5.733	2.01	11.800	37.20	17.867	2.26	23.93	1.51
5.750	2.01	11.817	37.20	17.883	2.26	23.95	1.51
5.767	2.01	11.833	37.20	17.900	2.26	23.97	1.51
5.783	2.01	11.850	37.20	17.917	2.26	23.98	1.51
5.800	2.01	11.867	37.20	17.933	2.26	24.00	1.51
5.817	2.01	11.883	37.20	17.950	2.26	24.02	1.51
5.833	2.01	11.900	37.20	17.967	2.26	24.03	1.51
5.850	2.01	11.917	37.20	17.983	2.26	24.05	1.51
5.867	2.01	11.933	37.20	18.000	2.26	24.07	1.51
5.883	2.01	11.950	37.20	18.017	2.26	24.08	1.51
5.900	2.01	11.967	37.20	18.033	2.26	24.10	1.51
5.917	2.01	11.983	37.20	18.050	2.26	24.12	1.51
5.933	2.01	12.000	37.20	18.067	2.26	24.13	1.51
5.950	2.01	12.017	153.76	18.083	2.26	24.15	1.51
5.967	2.01	12.033	153.84	18.100	2.26	24.17	1.51
5.983	2.01	12.050	153.84	18.117	2.26	24.18	1.51
6.000	2.01	12.067	153.84	18.133	2.26	24.20	1.51
6.017	2.01	12.083	153.84	18.150	2.26	24.22	1.51
6.033	2.01	12.100	153.84	18.167	2.26	24.23	1.51
6.050	2.01	12.117	153.84	18.183	2.26	24.25	1.51
6.067	2.01	12.133	153.84	18.200	2.26		

Max.Eff.Inten.(mm/hr)=	153.84	91.43	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.85 (ii)	2.08 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.49	0.47	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.052 (iii)
TIME TO PEAK (hrs)=	12.23	12.25	12.25
RUNOFF VOLUME (mm)=	123.69	62.03	108.27
TOTAL RAINFALL (mm)=	125.69	125.69	125.69
RUNOFF COEFFICIENT =	0.98	0.49	0.86

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                         0.0000     0.0000   |  0.0160     0.0036
                         0.0010     0.0004   |  0.0170     0.0043
                         0.0060     0.0009   |  0.0180     0.0051
                         0.0080     0.0013   |  0.0560     0.0059
                         0.0100     0.0017   |  0.1330     0.0068
                         0.0120     0.0022   |  0.2430     0.0078
                         0.0130     0.0025   |  0.3860     0.0089
                         0.0140     0.0030   |  0.0000     0.0000

                              AREA     QPEAK     TPEAK       R.V.
                              (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)    0.133     0.052     12.25     108.27
   OUTFLOW: ID= 1 (  0015)    0.133     0.017     12.33     107.52

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 33.16
                  TIME SHIFT OF PEAK FLOW         (min)=  5.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0044

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--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
--------------------          (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):      0.13    0.017    12.33   107.52
     + ID2= 2 (  0205):      0.02    0.004    12.37    57.64
       ==================================================
       ID = 3 (  0007):      0.16    0.021    12.33   102.17

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
--------------------------------------------------------------------------------
================================================================================================================

       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
        V  V    I      SS   U   U  A   A  L
         VV     I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\c5512848-f8
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\c5512848-f8


DATE: 04-17-2023                          TIME: 01:25:48

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : Y) 100yr 24hr 15min SCS Type  **
  ************************************************


--------------------
|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\b676e08a
| Ptotal=136.79 mm |    Comments: 100yr 24hr 15min SCS Type II (MTO)
--------------------
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
              0.25    0.00 |  6.50    2.46 | 12.75   19.70 | 19.00    2.46
              0.50    1.50 |  6.75    2.46 | 13.00   10.12 | 19.25    2.46
              0.75    1.50 |  7.00    2.46 | 13.25   10.12 | 19.50    2.46
              1.00    1.50 |  7.25    2.46 | 13.50    7.39 | 19.75    2.46
              1.25    1.50 |  7.50    3.01 | 13.75    7.39 | 20.00    2.46
              1.50    1.50 |  7.75    3.01 | 14.00    5.75 | 20.25    2.46
              1.75    1.50 |  8.00    3.01 | 14.25    5.75 | 20.50    1.64
              2.00    1.50 |  8.25    3.01 | 14.50    4.10 | 20.75    1.64
              2.25    1.50 |  8.50    3.56 | 14.75    4.10 | 21.00    1.64
              2.50    1.78 |  8.75    3.56 | 15.00    4.10 | 21.25    1.64
              2.75    1.78 |  9.00    3.83 | 15.25    4.10 | 21.50    1.64
              3.00    1.78 |  9.25    3.83 | 15.50    4.10 | 21.75    1.64
              3.25    1.78 |  9.50    4.38 | 15.75    4.10 | 22.00    1.64
              3.50    1.78 |  9.75    4.38 | 16.00    4.10 | 22.25    1.64
              3.75    1.78 | 10.00    4.92 | 16.25    4.10 | 22.50    1.64
              4.00    1.78 | 10.25    4.92 | 16.50    2.46 | 22.75    1.64
              4.25    1.78 | 10.50    6.29 | 16.75    2.46 | 23.00    1.64
              4.50    2.19 | 10.75    6.29 | 17.00    2.46 | 23.25    1.64
              4.75    2.19 | 11.00    8.48 | 17.25    2.46 | 23.50    1.64
              5.00    2.19 | 11.25    8.48 | 17.50    2.46 | 23.75    1.64
              5.25    2.19 | 11.50   13.13 | 17.75    2.46 | 24.00    1.64
              5.50    2.19 | 11.75   13.13 | 18.00    2.46 | 24.25    1.64
              5.75    2.19 | 12.00   40.49 | 18.25    2.46 |
              6.00    2.19 | 12.25  167.43 | 18.50    2.46 |
              6.25    2.19 | 12.50   19.70 | 18.75    2.46 |

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--------------------
| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.

                          ---- TRANSFORMED HYETOGRAPH ----
                TIME    RAIN |  TIME    RAIN |'  TIME    RAIN |  TIME    RAIN
                 hrs   mm/hr |   hrs   mm/hr |'   hrs   mm/hr |   hrs   mm/hr
              0.017    0.00 | 6.083    2.19 |12.150  167.43 | 18.22    2.46
              0.033    0.00 | 6.100    2.19 |12.167  167.43 | 18.23    2.46
              0.050    0.00 | 6.117    2.19 |12.183  167.43 | 18.25    2.46
              0.067    0.00 | 6.133    2.19 |12.200  167.43 | 18.27    2.46
              0.083    0.00 | 6.150    2.19 |12.217  167.43 | 18.28    2.46
              0.100    0.00 | 6.167    2.19 |12.233  167.43 | 18.30    2.46
              0.117    0.00 | 6.183    2.19 |12.250  167.43 | 18.32    2.46
              0.133    0.00 | 6.200    2.19 |12.267   19.83 | 18.33    2.46
              0.150    0.00 | 6.217    2.19 |12.283   19.70 | 18.35    2.46
              0.167    0.00 | 6.233    2.19 |12.300   19.70 | 18.37    2.46
              0.183    0.00 | 6.250    2.19 |12.317   19.70 | 18.38    2.46
              0.200    0.00 | 6.267    2.46 |12.333   19.70 | 18.40    2.46
              0.217    0.00 | 6.283    2.46 |12.350   19.70 | 18.42    2.46
              0.233    0.00 | 6.300    2.46 |12.367   19.70 | 18.43    2.46
              0.250    0.00 | 6.317    2.46 |12.383   19.70 | 18.45    2.46
              0.267    1.50 | 6.333    2.46 |12.400   19.70 | 18.47    2.46
              0.283    1.50 | 6.350    2.46 |12.417   19.70 | 18.48    2.46
              0.300    1.50 | 6.367    2.46 |12.433   19.70 | 18.50    2.46
              0.317    1.50 | 6.383    2.46 |12.450   19.70 | 18.52    2.46
              0.333    1.50 | 6.400    2.46 |12.467   19.70 | 18.53    2.46
              0.350    1.50 | 6.417    2.46 |12.483   19.70 | 18.55    2.46
              0.367    1.50 | 6.433    2.46 |12.500   19.70 | 18.57    2.46
              0.383    1.50 | 6.450    2.46 |12.517   19.70 | 18.58    2.46
              0.400    1.50 | 6.467    2.46 |12.533   19.70 | 18.60    2.46
              0.417    1.50 | 6.483    2.46 |12.550   19.70 | 18.62    2.46
              0.433    1.50 | 6.500    2.46 |12.567   19.70 | 18.63    2.46
              0.450    1.50 | 6.517    2.46 |12.583   19.70 | 18.65    2.46
              0.467    1.50 | 6.533    2.46 |12.600   19.70 | 18.67    2.46
              0.483    1.50 | 6.550    2.46 |12.617   19.70 | 18.68    2.46
              0.500    1.50 | 6.567    2.46 |12.633   19.70 | 18.70    2.46
              0.517    1.50 | 6.583    2.46 |12.650   19.70 | 18.72    2.46
              0.533    1.50 | 6.600    2.46 |12.667   19.70 | 18.73    2.46
              0.550    1.50 | 6.617    2.46 |12.683   19.70 | 18.75    2.46
              0.567    1.50 | 6.633    2.46 |12.700   19.70 | 18.77    2.46
              0.583    1.50 | 6.650    2.46 |12.717   19.70 | 18.78    2.46
              0.600    1.50 | 6.667    2.46 |12.733   19.70 | 18.80    2.46
              0.617    1.50 | 6.683    2.46 |12.750   19.70 | 18.82    2.46
              0.633    1.50 | 6.700    2.46 |12.767   10.14 | 18.83    2.46
              0.650    1.50 | 6.717    2.46 |12.783   10.12 | 18.85    2.46
              0.667    1.50 | 6.733    2.46 |12.800   10.12 | 18.87    2.46
              0.683    1.50 | 6.750    2.46 |12.817   10.12 | 18.88    2.46
              0.700    1.50 | 6.767    2.46 |12.833   10.12 | 18.90    2.46
              0.717    1.50 | 6.783    2.46 |12.850   10.12 | 18.92    2.46
              0.733    1.50 | 6.800    2.46 |12.867   10.12 | 18.93    2.46
```

0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46
1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46
1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64
2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64
2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64
2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64

3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64
4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64
4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64
5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64
5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64
5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.009 (i)
TIME TO PEAK (hrs)= 12.450
RUNOFF VOLUME (mm)= 60.562
TOTAL RAINFALL (mm)= 136.791
RUNOFF COEFFICIENT = 0.443

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB	
STANDHYD (0201)	Area (ha)= 0.17
ID= 1 DT= 1.0 min	Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.19	12.150	167.43	18.22	2.46
0.033	0.00	6.100	2.19	12.167	167.43	18.23	2.46
0.050	0.00	6.117	2.19	12.183	167.43	18.25	2.46
0.067	0.00	6.133	2.19	12.200	167.43	18.27	2.46
0.083	0.00	6.150	2.19	12.217	167.43	18.28	2.46
0.100	0.00	6.167	2.19	12.233	167.43	18.30	2.46
0.117	0.00	6.183	2.19	12.250	167.43	18.32	2.46
0.133	0.00	6.200	2.19	12.267	19.83	18.33	2.46
0.150	0.00	6.217	2.19	12.283	19.70	18.35	2.46
0.167	0.00	6.233	2.19	12.300	19.70	18.37	2.46
0.183	0.00	6.250	2.19	12.317	19.70	18.38	2.46
0.200	0.00	6.267	2.46	12.333	19.70	18.40	2.46
0.217	0.00	6.283	2.46	12.350	19.70	18.42	2.46
0.233	0.00	6.300	2.46	12.367	19.70	18.43	2.46
0.250	0.00	6.317	2.46	12.383	19.70	18.45	2.46
0.267	1.50	6.333	2.46	12.400	19.70	18.47	2.46
0.283	1.50	6.350	2.46	12.417	19.70	18.48	2.46
0.300	1.50	6.367	2.46	12.433	19.70	18.50	2.46
0.317	1.50	6.383	2.46	12.450	19.70	18.52	2.46
0.333	1.50	6.400	2.46	12.467	19.70	18.53	2.46
0.350	1.50	6.417	2.46	12.483	19.70	18.55	2.46
0.367	1.50	6.433	2.46	12.500	19.70	18.57	2.46
0.383	1.50	6.450	2.46	12.517	19.70	18.58	2.46
0.400	1.50	6.467	2.46	12.533	19.70	18.60	2.46
0.417	1.50	6.483	2.46	12.550	19.70	18.62	2.46
0.433	1.50	6.500	2.46	12.567	19.70	18.63	2.46
0.450	1.50	6.517	2.46	12.583	19.70	18.65	2.46
0.467	1.50	6.533	2.46	12.600	19.70	18.67	2.46
0.483	1.50	6.550	2.46	12.617	19.70	18.68	2.46
0.500	1.50	6.567	2.46	12.633	19.70	18.70	2.46
0.517	1.50	6.583	2.46	12.650	19.70	18.72	2.46
0.533	1.50	6.600	2.46	12.667	19.70	18.73	2.46
0.550	1.50	6.617	2.46	12.683	19.70	18.75	2.46
0.567	1.50	6.633	2.46	12.700	19.70	18.77	2.46
0.583	1.50	6.650	2.46	12.717	19.70	18.78	2.46
0.600	1.50	6.667	2.46	12.733	19.70	18.80	2.46
0.617	1.50	6.683	2.46	12.750	19.70	18.82	2.46
0.633	1.50	6.700	2.46	12.767	10.14	18.83	2.46
0.650	1.50	6.717	2.46	12.783	10.12	18.85	2.46
0.667	1.50	6.733	2.46	12.800	10.12	18.87	2.46
0.683	1.50	6.750	2.46	12.817	10.12	18.88	2.46
0.700	1.50	6.767	2.46	12.833	10.12	18.90	2.46
0.717	1.50	6.783	2.46	12.850	10.12	18.92	2.46
0.733	1.50	6.800	2.46	12.867	10.12	18.93	2.46
0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46
1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46
1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64
2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64
2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64

2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64
3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64
4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64
4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64
5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64
5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64

5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Max.Eff.Inten.(mm/hr)=	167.43	103.95	
over (min)	5.00	4.00	
Storage Coeff. (min)=	1.08 (ii)	3.47 (ii)	
Unit Hyd. Tpeak (min)=	5.00	4.00	
Unit Hyd. peak (cms)=	0.46	0.31	
			TOTALS
PEAK FLOW (cms)=	0.06	0.01	0.072 (iii)
TIME TO PEAK (hrs)=	12.25	12.25	12.25
RUNOFF VOLUME (mm)=	134.78	70.63	120.67
TOTAL RAINFALL (mm)=	136.79	136.79	136.79
RUNOFF COEFFICIENT =	0.99	0.52	0.88

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0202) | Area (ha)= 0.11
ID= 1 DT= 1.0 min | Total Imp(%)= 81.00 Dir. Conn.(%)= 81.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.09	0.02
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.19	12.150	167.43	18.22	2.46
0.033	0.00	6.100	2.19	12.167	167.43	18.23	2.46
0.050	0.00	6.117	2.19	12.183	167.43	18.25	2.46
0.067	0.00	6.133	2.19	12.200	167.43	18.27	2.46
0.083	0.00	6.150	2.19	12.217	167.43	18.28	2.46
0.100	0.00	6.167	2.19	12.233	167.43	18.30	2.46
0.117	0.00	6.183	2.19	12.250	167.43	18.32	2.46
0.133	0.00	6.200	2.19	12.267	19.83	18.33	2.46
0.150	0.00	6.217	2.19	12.283	19.70	18.35	2.46
0.167	0.00	6.233	2.19	12.300	19.70	18.37	2.46
0.183	0.00	6.250	2.19	12.317	19.70	18.38	2.46
0.200	0.00	6.267	2.46	12.333	19.70	18.40	2.46
0.217	0.00	6.283	2.46	12.350	19.70	18.42	2.46
0.233	0.00	6.300	2.46	12.367	19.70	18.43	2.46
0.250	0.00	6.317	2.46	12.383	19.70	18.45	2.46
0.267	1.50	6.333	2.46	12.400	19.70	18.47	2.46
0.283	1.50	6.350	2.46	12.417	19.70	18.48	2.46
0.300	1.50	6.367	2.46	12.433	19.70	18.50	2.46
0.317	1.50	6.383	2.46	12.450	19.70	18.52	2.46
0.333	1.50	6.400	2.46	12.467	19.70	18.53	2.46
0.350	1.50	6.417	2.46	12.483	19.70	18.55	2.46
0.367	1.50	6.433	2.46	12.500	19.70	18.57	2.46
0.383	1.50	6.450	2.46	12.517	19.70	18.58	2.46
0.400	1.50	6.467	2.46	12.533	19.70	18.60	2.46
0.417	1.50	6.483	2.46	12.550	19.70	18.62	2.46
0.433	1.50	6.500	2.46	12.567	19.70	18.63	2.46
0.450	1.50	6.517	2.46	12.583	19.70	18.65	2.46
0.467	1.50	6.533	2.46	12.600	19.70	18.67	2.46
0.483	1.50	6.550	2.46	12.617	19.70	18.68	2.46
0.500	1.50	6.567	2.46	12.633	19.70	18.70	2.46
0.517	1.50	6.583	2.46	12.650	19.70	18.72	2.46
0.533	1.50	6.600	2.46	12.667	19.70	18.73	2.46
0.550	1.50	6.617	2.46	12.683	19.70	18.75	2.46
0.567	1.50	6.633	2.46	12.700	19.70	18.77	2.46
0.583	1.50	6.650	2.46	12.717	19.70	18.78	2.46
0.600	1.50	6.667	2.46	12.733	19.70	18.80	2.46
0.617	1.50	6.683	2.46	12.750	19.70	18.82	2.46
0.633	1.50	6.700	2.46	12.767	10.14	18.83	2.46
0.650	1.50	6.717	2.46	12.783	10.12	18.85	2.46
0.667	1.50	6.733	2.46	12.800	10.12	18.87	2.46
0.683	1.50	6.750	2.46	12.817	10.12	18.88	2.46
0.700	1.50	6.767	2.46	12.833	10.12	18.90	2.46
0.717	1.50	6.783	2.46	12.850	10.12	18.92	2.46
0.733	1.50	6.800	2.46	12.867	10.12	18.93	2.46
0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46
1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46

1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64
2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64
2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64
2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64
3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64
4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64

4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64
5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64
5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64
5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Max.Eff.Inten.(mm/hr)=	167.43	103.95	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.76 (ii)	2.96 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.50	0.38	
			TOTALS
PEAK FLOW (cms)=	0.04	0.01	0.046 (iii)
TIME TO PEAK (hrs)=	12.23	12.25	12.25
RUNOFF VOLUME (mm)=	134.80	70.63	122.59
TOTAL RAINFALL (mm)=	136.79	136.79	136.79
RUNOFF COEFFICIENT =	0.99	0.52	0.90

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)		AREA	QPEAK	TPEAK	R.V.
1 + 2 = 3		(ha)	(cms)	(hrs)	(mm)
ID1= 1 (0201):		0.17	0.072	12.25	120.67
+ ID2= 2 (0202):		0.11	0.046	12.25	122.59
ID = 3 (0010):		0.27	0.118	12.25	121.41

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)	OVERFLOW IS OFF			
IN= 2---> OUT= 1				
DT= 1.0 min	OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
	0.0000	0.0000	0.0200	0.0082
	0.0010	0.0009	0.0210	0.0098
	0.0070	0.0019	0.0230	0.0115
	0.0100	0.0028	0.0240	0.0134
	0.0130	0.0038	0.0620	0.0155
	0.0150	0.0047	0.1400	0.0177
	0.0170	0.0054	0.2500	0.0200
	0.0180	0.0067	0.0000	0.0000

		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)		0.275	0.118	12.25	121.41
OUTFLOW: ID= 1 (0012)		0.275	0.023	12.35	120.58

PEAK FLOW REDUCTION [Qout/Qin](%)= 19.82
TIME SHIFT OF PEAK FLOW (min)= 6.00
MAXIMUM STORAGE USED (ha.m.)= 0.0121

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--------------------
| ADD HYD  (  0014)|
|   1 +  2 =  3    |          AREA     QPEAK     TPEAK      R.V.
--------------------          (ha)     (cms)     (hrs)      (mm)
       ID1= 1 (  0012):      0.27    0.023     12.35    120.58
     + ID2= 2 (  0204):      0.06    0.009     12.45     60.56
       ================================================
       ID = 3 (  0014):      0.34    0.032     12.45    111.87

    NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
-------------------------------------------------------------------------------
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| CALIB            |
| NASHYD   (  0205)|   Area    (ha)=   0.02   Curve Number   (CN)= 74.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.56   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.22

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.
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---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.19	12.150	167.43	18.22	2.46
0.033	0.00	6.100	2.19	12.167	167.43	18.23	2.46
0.050	0.00	6.117	2.19	12.183	167.43	18.25	2.46
0.067	0.00	6.133	2.19	12.200	167.43	18.27	2.46
0.083	0.00	6.150	2.19	12.217	167.43	18.28	2.46
0.100	0.00	6.167	2.19	12.233	167.43	18.30	2.46
0.117	0.00	6.183	2.19	12.250	167.43	18.32	2.46
0.133	0.00	6.200	2.19	12.267	19.83	18.33	2.46
0.150	0.00	6.217	2.19	12.283	19.70	18.35	2.46
0.167	0.00	6.233	2.19	12.300	19.70	18.37	2.46
0.183	0.00	6.250	2.19	12.317	19.70	18.38	2.46
0.200	0.00	6.267	2.46	12.333	19.70	18.40	2.46
0.217	0.00	6.283	2.46	12.350	19.70	18.42	2.46
0.233	0.00	6.300	2.46	12.367	19.70	18.43	2.46
0.250	0.00	6.317	2.46	12.383	19.70	18.45	2.46
0.267	1.50	6.333	2.46	12.400	19.70	18.47	2.46
0.283	1.50	6.350	2.46	12.417	19.70	18.48	2.46
0.300	1.50	6.367	2.46	12.433	19.70	18.50	2.46
0.317	1.50	6.383	2.46	12.450	19.70	18.52	2.46
0.333	1.50	6.400	2.46	12.467	19.70	18.53	2.46
0.350	1.50	6.417	2.46	12.483	19.70	18.55	2.46
0.367	1.50	6.433	2.46	12.500	19.70	18.57	2.46
0.383	1.50	6.450	2.46	12.517	19.70	18.58	2.46
0.400	1.50	6.467	2.46	12.533	19.70	18.60	2.46
0.417	1.50	6.483	2.46	12.550	19.70	18.62	2.46
0.433	1.50	6.500	2.46	12.567	19.70	18.63	2.46
0.450	1.50	6.517	2.46	12.583	19.70	18.65	2.46
0.467	1.50	6.533	2.46	12.600	19.70	18.67	2.46
0.483	1.50	6.550	2.46	12.617	19.70	18.68	2.46
0.500	1.50	6.567	2.46	12.633	19.70	18.70	2.46
0.517	1.50	6.583	2.46	12.650	19.70	18.72	2.46
0.533	1.50	6.600	2.46	12.667	19.70	18.73	2.46
0.550	1.50	6.617	2.46	12.683	19.70	18.75	2.46
0.567	1.50	6.633	2.46	12.700	19.70	18.77	2.46
0.583	1.50	6.650	2.46	12.717	19.70	18.78	2.46
0.600	1.50	6.667	2.46	12.733	19.70	18.80	2.46
0.617	1.50	6.683	2.46	12.750	19.70	18.82	2.46
0.633	1.50	6.700	2.46	12.767	10.14	18.83	2.46
0.650	1.50	6.717	2.46	12.783	10.12	18.85	2.46
0.667	1.50	6.733	2.46	12.800	10.12	18.87	2.46
0.683	1.50	6.750	2.46	12.817	10.12	18.88	2.46
0.700	1.50	6.767	2.46	12.833	10.12	18.90	2.46
0.717	1.50	6.783	2.46	12.850	10.12	18.92	2.46
0.733	1.50	6.800	2.46	12.867	10.12	18.93	2.46
0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46
1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46
1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64
2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64

2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64
2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64
3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64
4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64
4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64
5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64

5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64
5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 12.367
RUNOFF VOLUME (mm)= 65.469
TOTAL RAINFALL (mm)= 136.791
RUNOFF COEFFICIENT = 0.479

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0203)	Area (ha)= 0.13		
ID= 1 DT= 1.0 min	Total Imp(%)= 75.00	Dir. Conn.(%)= 75.00	

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	0.00	6.083	2.19	12.150	167.43	18.22	2.46
0.033	0.00	6.100	2.19	12.167	167.43	18.23	2.46
0.050	0.00	6.117	2.19	12.183	167.43	18.25	2.46
0.067	0.00	6.133	2.19	12.200	167.43	18.27	2.46
0.083	0.00	6.150	2.19	12.217	167.43	18.28	2.46
0.100	0.00	6.167	2.19	12.233	167.43	18.30	2.46
0.117	0.00	6.183	2.19	12.250	167.43	18.32	2.46
0.133	0.00	6.200	2.19	12.267	19.83	18.33	2.46
0.150	0.00	6.217	2.19	12.283	19.70	18.35	2.46
0.167	0.00	6.233	2.19	12.300	19.70	18.37	2.46
0.183	0.00	6.250	2.19	12.317	19.70	18.38	2.46
0.200	0.00	6.267	2.46	12.333	19.70	18.40	2.46
0.217	0.00	6.283	2.46	12.350	19.70	18.42	2.46
0.233	0.00	6.300	2.46	12.367	19.70	18.43	2.46
0.250	0.00	6.317	2.46	12.383	19.70	18.45	2.46
0.267	1.50	6.333	2.46	12.400	19.70	18.47	2.46
0.283	1.50	6.350	2.46	12.417	19.70	18.48	2.46
0.300	1.50	6.367	2.46	12.433	19.70	18.50	2.46
0.317	1.50	6.383	2.46	12.450	19.70	18.52	2.46
0.333	1.50	6.400	2.46	12.467	19.70	18.53	2.46
0.350	1.50	6.417	2.46	12.483	19.70	18.55	2.46
0.367	1.50	6.433	2.46	12.500	19.70	18.57	2.46
0.383	1.50	6.450	2.46	12.517	19.70	18.58	2.46
0.400	1.50	6.467	2.46	12.533	19.70	18.60	2.46
0.417	1.50	6.483	2.46	12.550	19.70	18.62	2.46
0.433	1.50	6.500	2.46	12.567	19.70	18.63	2.46
0.450	1.50	6.517	2.46	12.583	19.70	18.65	2.46
0.467	1.50	6.533	2.46	12.600	19.70	18.67	2.46
0.483	1.50	6.550	2.46	12.617	19.70	18.68	2.46
0.500	1.50	6.567	2.46	12.633	19.70	18.70	2.46
0.517	1.50	6.583	2.46	12.650	19.70	18.72	2.46
0.533	1.50	6.600	2.46	12.667	19.70	18.73	2.46
0.550	1.50	6.617	2.46	12.683	19.70	18.75	2.46
0.567	1.50	6.633	2.46	12.700	19.70	18.77	2.46
0.583	1.50	6.650	2.46	12.717	19.70	18.78	2.46
0.600	1.50	6.667	2.46	12.733	19.70	18.80	2.46
0.617	1.50	6.683	2.46	12.750	19.70	18.82	2.46
0.633	1.50	6.700	2.46	12.767	10.14	18.83	2.46
0.650	1.50	6.717	2.46	12.783	10.12	18.85	2.46
0.667	1.50	6.733	2.46	12.800	10.12	18.87	2.46
0.683	1.50	6.750	2.46	12.817	10.12	18.88	2.46
0.700	1.50	6.767	2.46	12.833	10.12	18.90	2.46
0.717	1.50	6.783	2.46	12.850	10.12	18.92	2.46
0.733	1.50	6.800	2.46	12.867	10.12	18.93	2.46
0.750	1.50	6.817	2.46	12.883	10.12	18.95	2.46
0.767	1.50	6.833	2.46	12.900	10.12	18.97	2.46
0.783	1.50	6.850	2.46	12.917	10.12	18.98	2.46
0.800	1.50	6.867	2.46	12.933	10.12	19.00	2.46
0.817	1.50	6.883	2.46	12.950	10.12	19.02	2.46
0.833	1.50	6.900	2.46	12.967	10.12	19.03	2.46
0.850	1.50	6.917	2.46	12.983	10.12	19.05	2.46
0.867	1.50	6.933	2.46	13.000	10.12	19.07	2.46
0.883	1.50	6.950	2.46	13.017	10.12	19.08	2.46
0.900	1.50	6.967	2.46	13.033	10.12	19.10	2.46
0.917	1.50	6.983	2.46	13.050	10.12	19.12	2.46
0.933	1.50	7.000	2.46	13.067	10.12	19.13	2.46
0.950	1.50	7.017	2.46	13.083	10.12	19.15	2.46
0.967	1.50	7.033	2.46	13.100	10.12	19.17	2.46
0.983	1.50	7.050	2.46	13.117	10.12	19.18	2.46
1.000	1.50	7.067	2.46	13.133	10.12	19.20	2.46
1.017	1.50	7.083	2.46	13.150	10.12	19.22	2.46
1.033	1.50	7.100	2.46	13.167	10.12	19.23	2.46
1.050	1.50	7.117	2.46	13.183	10.12	19.25	2.46
1.067	1.50	7.133	2.46	13.200	10.12	19.27	2.46
1.083	1.50	7.150	2.46	13.217	10.12	19.28	2.46
1.100	1.50	7.167	2.46	13.233	10.12	19.30	2.46
1.117	1.50	7.183	2.46	13.250	10.12	19.32	2.46
1.133	1.50	7.200	2.46	13.267	7.39	19.33	2.46
1.150	1.50	7.217	2.46	13.283	7.39	19.35	2.46
1.167	1.50	7.233	2.46	13.300	7.39	19.37	2.46
1.183	1.50	7.250	2.46	13.317	7.39	19.38	2.46
1.200	1.50	7.267	3.01	13.333	7.39	19.40	2.46
1.217	1.50	7.283	3.01	13.350	7.39	19.42	2.46
1.233	1.50	7.300	3.01	13.367	7.39	19.43	2.46
1.250	1.50	7.317	3.01	13.383	7.39	19.45	2.46
1.267	1.50	7.333	3.01	13.400	7.39	19.47	2.46
1.283	1.50	7.350	3.01	13.417	7.39	19.48	2.46
1.300	1.50	7.367	3.01	13.433	7.39	19.50	2.46
1.317	1.50	7.383	3.01	13.450	7.39	19.52	2.46
1.333	1.50	7.400	3.01	13.467	7.39	19.53	2.46
1.350	1.50	7.417	3.01	13.483	7.39	19.55	2.46
1.367	1.50	7.433	3.01	13.500	7.39	19.57	2.46
1.383	1.50	7.450	3.01	13.517	7.39	19.58	2.46
1.400	1.50	7.467	3.01	13.533	7.39	19.60	2.46
1.417	1.50	7.483	3.01	13.550	7.39	19.62	2.46
1.433	1.50	7.500	3.01	13.567	7.39	19.63	2.46
1.450	1.50	7.517	3.01	13.583	7.39	19.65	2.46

1.467	1.50	7.533	3.01	13.600	7.39	19.67	2.46
1.483	1.50	7.550	3.01	13.617	7.39	19.68	2.46
1.500	1.50	7.567	3.01	13.633	7.39	19.70	2.46
1.517	1.50	7.583	3.01	13.650	7.39	19.72	2.46
1.533	1.50	7.600	3.01	13.667	7.39	19.73	2.46
1.550	1.50	7.617	3.01	13.683	7.39	19.75	2.46
1.567	1.50	7.633	3.01	13.700	7.39	19.77	2.46
1.583	1.50	7.650	3.01	13.717	7.39	19.78	2.46
1.600	1.50	7.667	3.01	13.733	7.39	19.80	2.46
1.617	1.50	7.683	3.01	13.750	7.39	19.82	2.46
1.633	1.50	7.700	3.01	13.767	5.75	19.83	2.46
1.650	1.50	7.717	3.01	13.783	5.75	19.85	2.46
1.667	1.50	7.733	3.01	13.800	5.75	19.87	2.46
1.683	1.50	7.750	3.01	13.817	5.75	19.88	2.46
1.700	1.50	7.767	3.01	13.833	5.75	19.90	2.46
1.717	1.50	7.783	3.01	13.850	5.75	19.92	2.46
1.733	1.50	7.800	3.01	13.867	5.75	19.93	2.46
1.750	1.50	7.817	3.01	13.883	5.75	19.95	2.46
1.767	1.50	7.833	3.01	13.900	5.75	19.97	2.46
1.783	1.50	7.850	3.01	13.917	5.75	19.98	2.46
1.800	1.50	7.867	3.01	13.933	5.75	20.00	2.46
1.817	1.50	7.883	3.01	13.950	5.75	20.02	2.46
1.833	1.50	7.900	3.01	13.967	5.75	20.03	2.46
1.850	1.50	7.917	3.01	13.983	5.75	20.05	2.46
1.867	1.50	7.933	3.01	14.000	5.75	20.07	2.46
1.883	1.50	7.950	3.01	14.017	5.75	20.08	2.46
1.900	1.50	7.967	3.01	14.033	5.75	20.10	2.46
1.917	1.50	7.983	3.01	14.050	5.75	20.12	2.46
1.933	1.50	8.000	3.01	14.067	5.75	20.13	2.46
1.950	1.50	8.017	3.01	14.083	5.75	20.15	2.46
1.967	1.50	8.033	3.01	14.100	5.75	20.17	2.46
1.983	1.50	8.050	3.01	14.117	5.75	20.18	2.46
2.000	1.50	8.067	3.01	14.133	5.75	20.20	2.46
2.017	1.50	8.083	3.01	14.150	5.75	20.22	2.46
2.033	1.50	8.100	3.01	14.167	5.75	20.23	2.46
2.050	1.50	8.117	3.01	14.183	5.75	20.25	2.46
2.067	1.50	8.133	3.01	14.200	5.75	20.27	1.65
2.083	1.50	8.150	3.01	14.217	5.75	20.28	1.64
2.100	1.50	8.167	3.01	14.233	5.75	20.30	1.64
2.117	1.50	8.183	3.01	14.250	5.75	20.32	1.64
2.133	1.50	8.200	3.01	14.267	4.11	20.33	1.64
2.150	1.50	8.217	3.01	14.283	4.10	20.35	1.64
2.167	1.50	8.233	3.01	14.300	4.10	20.37	1.64
2.183	1.50	8.250	3.01	14.317	4.10	20.38	1.64
2.200	1.50	8.267	3.56	14.333	4.10	20.40	1.64
2.217	1.50	8.283	3.56	14.350	4.10	20.42	1.64
2.233	1.50	8.300	3.56	14.367	4.10	20.43	1.64
2.250	1.50	8.317	3.56	14.383	4.10	20.45	1.64
2.267	1.78	8.333	3.56	14.400	4.10	20.47	1.64
2.283	1.78	8.350	3.56	14.417	4.10	20.48	1.64
2.300	1.78	8.367	3.56	14.433	4.10	20.50	1.64
2.317	1.78	8.383	3.56	14.450	4.10	20.52	1.64
2.333	1.78	8.400	3.56	14.467	4.10	20.53	1.64
2.350	1.78	8.417	3.56	14.483	4.10	20.55	1.64
2.367	1.78	8.433	3.56	14.500	4.10	20.57	1.64
2.383	1.78	8.450	3.56	14.517	4.10	20.58	1.64
2.400	1.78	8.467	3.56	14.533	4.10	20.60	1.64
2.417	1.78	8.483	3.56	14.550	4.10	20.62	1.64
2.433	1.78	8.500	3.56	14.567	4.10	20.63	1.64
2.450	1.78	8.517	3.56	14.583	4.10	20.65	1.64
2.467	1.78	8.533	3.56	14.600	4.10	20.67	1.64
2.483	1.78	8.550	3.56	14.617	4.10	20.68	1.64
2.500	1.78	8.567	3.56	14.633	4.10	20.70	1.64
2.517	1.78	8.583	3.56	14.650	4.10	20.72	1.64
2.533	1.78	8.600	3.56	14.667	4.10	20.73	1.64
2.550	1.78	8.617	3.56	14.683	4.10	20.75	1.64
2.567	1.78	8.633	3.56	14.700	4.10	20.77	1.64
2.583	1.78	8.650	3.56	14.717	4.10	20.78	1.64
2.600	1.78	8.667	3.56	14.733	4.10	20.80	1.64
2.617	1.78	8.683	3.56	14.750	4.10	20.82	1.64
2.633	1.78	8.700	3.56	14.767	4.10	20.83	1.64
2.650	1.78	8.717	3.56	14.783	4.10	20.85	1.64
2.667	1.78	8.733	3.56	14.800	4.10	20.87	1.64
2.683	1.78	8.750	3.56	14.817	4.10	20.88	1.64
2.700	1.78	8.767	3.83	14.833	4.10	20.90	1.64
2.717	1.78	8.783	3.83	14.850	4.10	20.92	1.64
2.733	1.78	8.800	3.83	14.867	4.10	20.93	1.64
2.750	1.78	8.817	3.83	14.883	4.10	20.95	1.64
2.767	1.78	8.833	3.83	14.900	4.10	20.97	1.64
2.783	1.78	8.850	3.83	14.917	4.10	20.98	1.64
2.800	1.78	8.867	3.83	14.933	4.10	21.00	1.64
2.817	1.78	8.883	3.83	14.950	4.10	21.02	1.64
2.833	1.78	8.900	3.83	14.967	4.10	21.03	1.64
2.850	1.78	8.917	3.83	14.983	4.10	21.05	1.64
2.867	1.78	8.933	3.83	15.000	4.10	21.07	1.64
2.883	1.78	8.950	3.83	15.017	4.10	21.08	1.64
2.900	1.78	8.967	3.83	15.033	4.10	21.10	1.64
2.917	1.78	8.983	3.83	15.050	4.10	21.12	1.64
2.933	1.78	9.000	3.83	15.067	4.10	21.13	1.64
2.950	1.78	9.017	3.83	15.083	4.10	21.15	1.64
2.967	1.78	9.033	3.83	15.100	4.10	21.17	1.64
2.983	1.78	9.050	3.83	15.117	4.10	21.18	1.64
3.000	1.78	9.067	3.83	15.133	4.10	21.20	1.64
3.017	1.78	9.083	3.83	15.150	4.10	21.22	1.64
3.033	1.78	9.100	3.83	15.167	4.10	21.23	1.64
3.050	1.78	9.117	3.83	15.183	4.10	21.25	1.64
3.067	1.78	9.133	3.83	15.200	4.10	21.27	1.64
3.083	1.78	9.150	3.83	15.217	4.10	21.28	1.64
3.100	1.78	9.167	3.83	15.233	4.10	21.30	1.64
3.117	1.78	9.183	3.83	15.250	4.10	21.32	1.64
3.133	1.78	9.200	3.83	15.267	4.10	21.33	1.64
3.150	1.78	9.217	3.83	15.283	4.10	21.35	1.64
3.167	1.78	9.233	3.83	15.300	4.10	21.37	1.64
3.183	1.78	9.250	3.83	15.317	4.10	21.38	1.64
3.200	1.78	9.267	4.38	15.333	4.10	21.40	1.64
3.217	1.78	9.283	4.38	15.350	4.10	21.42	1.64
3.233	1.78	9.300	4.38	15.367	4.10	21.43	1.64
3.250	1.78	9.317	4.38	15.383	4.10	21.45	1.64
3.267	1.78	9.333	4.38	15.400	4.10	21.47	1.64
3.283	1.78	9.350	4.38	15.417	4.10	21.48	1.64
3.300	1.78	9.367	4.38	15.433	4.10	21.50	1.64
3.317	1.78	9.383	4.38	15.450	4.10	21.52	1.64
3.333	1.78	9.400	4.38	15.467	4.10	21.53	1.64
3.350	1.78	9.417	4.38	15.483	4.10	21.55	1.64
3.367	1.78	9.433	4.38	15.500	4.10	21.57	1.64
3.383	1.78	9.450	4.38	15.517	4.10	21.58	1.64
3.400	1.78	9.467	4.38	15.533	4.10	21.60	1.64
3.417	1.78	9.483	4.38	15.550	4.10	21.62	1.64
3.433	1.78	9.500	4.38	15.567	4.10	21.63	1.64
3.450	1.78	9.517	4.38	15.583	4.10	21.65	1.64
3.467	1.78	9.533	4.38	15.600	4.10	21.67	1.64
3.483	1.78	9.550	4.38	15.617	4.10	21.68	1.64
3.500	1.78	9.567	4.38	15.633	4.10	21.70	1.64
3.517	1.78	9.583	4.38	15.650	4.10	21.72	1.64
3.533	1.78	9.600	4.38	15.667	4.10	21.73	1.64
3.550	1.78	9.617	4.38	15.683	4.10	21.75	1.64
3.567	1.78	9.633	4.38	15.700	4.10	21.77	1.64
3.583	1.78	9.650	4.38	15.717	4.10	21.78	1.64
3.600	1.78	9.667	4.38	15.733	4.10	21.80	1.64
3.617	1.78	9.683	4.38	15.750	4.10	21.82	1.64
3.633	1.78	9.700	4.38	15.767	4.10	21.83	1.64
3.650	1.78	9.717	4.38	15.783	4.10	21.85	1.64
3.667	1.78	9.733	4.38	15.800	4.10	21.87	1.64
3.683	1.78	9.750	4.38	15.817	4.10	21.88	1.64
3.700	1.78	9.767	4.92	15.833	4.10	21.90	1.64
3.717	1.78	9.783	4.92	15.850	4.10	21.92	1.64
3.733	1.78	9.800	4.92	15.867	4.10	21.93	1.64
3.750	1.78	9.817	4.92	15.883	4.10	21.95	1.64
3.767	1.78	9.833	4.92	15.900	4.10	21.97	1.64
3.783	1.78	9.850	4.92	15.917	4.10	21.98	1.64
3.800	1.78	9.867	4.92	15.933	4.10	22.00	1.64
3.817	1.78	9.883	4.92	15.950	4.10	22.02	1.64
3.833	1.78	9.900	4.92	15.967	4.10	22.03	1.64
3.850	1.78	9.917	4.92	15.983	4.10	22.05	1.64
3.867	1.78	9.933	4.92	16.000	4.10	22.07	1.64
3.883	1.78	9.950	4.92	16.017	4.10	22.08	1.64
3.900	1.78	9.967	4.92	16.033	4.10	22.10	1.64
3.917	1.78	9.983	4.92	16.050	4.10	22.12	1.64
3.933	1.78	10.000	4.92	16.067	4.10	22.13	1.64
3.950	1.78	10.017	4.92	16.083	4.10	22.15	1.64
3.967	1.78	10.033	4.92	16.100	4.10	22.17	1.64
3.983	1.78	10.050	4.92	16.117	4.10	22.18	1.64
4.000	1.78	10.067	4.92	16.133	4.10	22.20	1.64
4.017	1.78	10.083	4.92	16.150	4.10	22.22	1.64
4.033	1.78	10.100	4.92	16.167	4.10	22.23	1.64
4.050	1.78	10.117	4.92	16.183	4.10	22.25	1.64
4.067	1.78	10.133	4.92	16.200	4.10	22.27	1.64
4.083	1.78	10.150	4.92	16.217	4.10	22.28	1.64
4.100	1.78	10.167	4.92	16.233	4.10	22.30	1.64
4.117	1.78	10.183	4.92	16.250	4.10	22.32	1.64
4.133	1.78	10.200	4.92	16.267	2.47	22.33	1.64
4.150	1.78	10.217	4.92	16.283	2.46	22.35	1.64
4.167	1.78	10.233	4.92	16.300	2.46	22.37	1.64
4.183	1.78	10.250	4.93	16.317	2.46	22.38	1.64
4.200	1.78	10.267	6.29	16.333	2.46	22.40	1.64
4.217	1.78	10.283	6.29	16.350	2.46	22.42	1.64
4.233	1.78	10.300	6.29	16.367	2.46	22.43	1.64
4.250	1.78	10.317	6.29	16.383	2.46	22.45	1.64

4.267	2.19	10.333	6.29	16.400	2.46	22.47	1.64
4.283	2.19	10.350	6.29	16.417	2.46	22.48	1.64
4.300	2.19	10.367	6.29	16.433	2.46	22.50	1.64
4.317	2.19	10.383	6.29	16.450	2.46	22.52	1.64
4.333	2.19	10.400	6.29	16.467	2.46	22.53	1.64
4.350	2.19	10.417	6.29	16.483	2.46	22.55	1.64
4.367	2.19	10.433	6.29	16.500	2.46	22.57	1.64
4.383	2.19	10.450	6.29	16.517	2.46	22.58	1.64
4.400	2.19	10.467	6.29	16.533	2.46	22.60	1.64
4.417	2.19	10.483	6.29	16.550	2.46	22.62	1.64
4.433	2.19	10.500	6.29	16.567	2.46	22.63	1.64
4.450	2.19	10.517	6.29	16.583	2.46	22.65	1.64
4.467	2.19	10.533	6.29	16.600	2.46	22.67	1.64
4.483	2.19	10.550	6.29	16.617	2.46	22.68	1.64
4.500	2.19	10.567	6.29	16.633	2.46	22.70	1.64
4.517	2.19	10.583	6.29	16.650	2.46	22.72	1.64
4.533	2.19	10.600	6.29	16.667	2.46	22.73	1.64
4.550	2.19	10.617	6.29	16.683	2.46	22.75	1.64
4.567	2.19	10.633	6.29	16.700	2.46	22.77	1.64
4.583	2.19	10.650	6.29	16.717	2.46	22.78	1.64
4.600	2.19	10.667	6.29	16.733	2.46	22.80	1.64
4.617	2.19	10.683	6.29	16.750	2.46	22.82	1.64
4.633	2.19	10.700	6.29	16.767	2.46	22.83	1.64
4.650	2.19	10.717	6.29	16.783	2.46	22.85	1.64
4.667	2.19	10.733	6.29	16.800	2.46	22.87	1.64
4.683	2.19	10.750	6.29	16.817	2.46	22.88	1.64
4.700	2.19	10.767	8.48	16.833	2.46	22.90	1.64
4.717	2.19	10.783	8.48	16.850	2.46	22.92	1.64
4.733	2.19	10.800	8.48	16.867	2.46	22.93	1.64
4.750	2.19	10.817	8.48	16.883	2.46	22.95	1.64
4.767	2.19	10.833	8.48	16.900	2.46	22.97	1.64
4.783	2.19	10.850	8.48	16.917	2.46	22.98	1.64
4.800	2.19	10.867	8.48	16.933	2.46	23.00	1.64
4.817	2.19	10.883	8.48	16.950	2.46	23.02	1.64
4.833	2.19	10.900	8.48	16.967	2.46	23.03	1.64
4.850	2.19	10.917	8.48	16.983	2.46	23.05	1.64
4.867	2.19	10.933	8.48	17.000	2.46	23.07	1.64
4.883	2.19	10.950	8.48	17.017	2.46	23.08	1.64
4.900	2.19	10.967	8.48	17.033	2.46	23.10	1.64
4.917	2.19	10.983	8.48	17.050	2.46	23.12	1.64
4.933	2.19	11.000	8.48	17.067	2.46	23.13	1.64
4.950	2.19	11.017	8.48	17.083	2.46	23.15	1.64
4.967	2.19	11.033	8.48	17.100	2.46	23.17	1.64
4.983	2.19	11.050	8.48	17.117	2.46	23.18	1.64
5.000	2.19	11.067	8.48	17.133	2.46	23.20	1.64
5.017	2.19	11.083	8.48	17.150	2.46	23.22	1.64
5.033	2.19	11.100	8.48	17.167	2.46	23.23	1.64
5.050	2.19	11.117	8.48	17.183	2.46	23.25	1.64
5.067	2.19	11.133	8.48	17.200	2.46	23.27	1.64
5.083	2.19	11.150	8.48	17.217	2.46	23.28	1.64
5.100	2.19	11.167	8.48	17.233	2.46	23.30	1.64
5.117	2.19	11.183	8.48	17.250	2.46	23.32	1.64
5.133	2.19	11.200	8.48	17.267	2.46	23.33	1.64
5.150	2.19	11.217	8.48	17.283	2.46	23.35	1.64
5.167	2.19	11.233	8.48	17.300	2.46	23.37	1.64
5.183	2.19	11.250	8.48	17.317	2.46	23.38	1.64
5.200	2.19	11.267	13.13	17.333	2.46	23.40	1.64
5.217	2.19	11.283	13.13	17.350	2.46	23.42	1.64
5.233	2.19	11.300	13.13	17.367	2.46	23.43	1.64
5.250	2.19	11.317	13.13	17.383	2.46	23.45	1.64
5.267	2.19	11.333	13.13	17.400	2.46	23.47	1.64
5.283	2.19	11.350	13.13	17.417	2.46	23.48	1.64
5.300	2.19	11.367	13.13	17.433	2.46	23.50	1.64
5.317	2.19	11.383	13.13	17.450	2.46	23.52	1.64
5.333	2.19	11.400	13.13	17.467	2.46	23.53	1.64
5.350	2.19	11.417	13.13	17.483	2.46	23.55	1.64
5.367	2.19	11.433	13.13	17.500	2.46	23.57	1.64
5.383	2.19	11.450	13.13	17.517	2.46	23.58	1.64
5.400	2.19	11.467	13.13	17.533	2.46	23.60	1.64
5.417	2.19	11.483	13.13	17.550	2.46	23.62	1.64
5.433	2.19	11.500	13.13	17.567	2.46	23.63	1.64
5.450	2.19	11.517	13.13	17.583	2.46	23.65	1.64
5.467	2.19	11.533	13.13	17.600	2.46	23.67	1.64
5.483	2.19	11.550	13.13	17.617	2.46	23.68	1.64
5.500	2.19	11.567	13.13	17.633	2.46	23.70	1.64
5.517	2.19	11.583	13.13	17.650	2.46	23.72	1.64
5.533	2.19	11.600	13.13	17.667	2.46	23.73	1.64
5.550	2.19	11.617	13.13	17.683	2.46	23.75	1.64
5.567	2.19	11.633	13.13	17.700	2.46	23.77	1.64
5.583	2.19	11.650	13.13	17.717	2.46	23.78	1.64
5.600	2.19	11.667	13.13	17.733	2.46	23.80	1.64
5.617	2.19	11.683	13.13	17.750	2.46	23.82	1.64
5.633	2.19	11.700	13.13	17.767	2.46	23.83	1.64
5.650	2.19	11.717	13.13	17.783	2.46	23.85	1.64
5.667	2.19	11.733	13.13	17.800	2.46	23.87	1.64
5.683	2.19	11.750	13.13	17.817	2.46	23.88	1.64
5.700	2.19	11.767	40.48	17.833	2.46	23.90	1.64
5.717	2.19	11.783	40.49	17.850	2.46	23.92	1.64
5.733	2.19	11.800	40.49	17.867	2.46	23.93	1.64
5.750	2.19	11.817	40.49	17.883	2.46	23.95	1.64
5.767	2.19	11.833	40.49	17.900	2.46	23.97	1.64
5.783	2.19	11.850	40.49	17.917	2.46	23.98	1.64
5.800	2.19	11.867	40.49	17.933	2.46	24.00	1.64
5.817	2.19	11.883	40.49	17.950	2.46	24.02	1.64
5.833	2.19	11.900	40.49	17.967	2.46	24.03	1.64
5.850	2.19	11.917	40.49	17.983	2.46	24.05	1.64
5.867	2.19	11.933	40.49	18.000	2.46	24.07	1.64
5.883	2.19	11.950	40.49	18.017	2.46	24.08	1.64
5.900	2.19	11.967	40.49	18.033	2.46	24.10	1.64
5.917	2.19	11.983	40.49	18.050	2.46	24.12	1.64
5.933	2.19	12.000	40.49	18.067	2.46	24.13	1.64
5.950	2.19	12.017	167.34	18.083	2.46	24.15	1.64
5.967	2.19	12.033	167.43	18.100	2.46	24.17	1.64
5.983	2.19	12.050	167.43	18.117	2.46	24.18	1.64
6.000	2.19	12.067	167.43	18.133	2.46	24.20	1.64
6.017	2.19	12.083	167.43	18.150	2.46	24.22	1.64
6.033	2.19	12.100	167.43	18.167	2.46	24.23	1.64
6.050	2.19	12.117	167.43	18.183	2.46	24.25	1.64
6.067	2.19	12.133	167.43	18.200	2.46		

Max.Eff.Inten.(mm/hr)=	167.43	103.95	
over (min)	5.00	3.00	
Storage Coeff. (min)=	0.82 (ii)	2.01 (ii)	
Unit Hyd. Tpeak (min)=	5.00	3.00	
Unit Hyd. peak (cms)=	0.50	0.48	
			TOTALS
PEAK FLOW (cms)=	0.05	0.01	0.057 (iii)
TIME TO PEAK (hrs)=	12.23	12.25	12.25
RUNOFF VOLUME (mm)=	134.79	70.63	118.75
TOTAL RAINFALL (mm)=	136.79	136.79	136.79
RUNOFF COEFFICIENT =	0.99	0.52	0.87

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0015)		OVERFLOW IS OFF			
IN= 2---> OUT= 1					
DT= 1.0 min		OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
		0.0000	0.0000	0.0160	0.0036
		0.0010	0.0004	0.0170	0.0043
		0.0060	0.0009	0.0180	0.0051
		0.0080	0.0013	0.0560	0.0059
		0.0100	0.0017	0.1330	0.0068
		0.0120	0.0022	0.2430	0.0078
		0.0130	0.0025	0.3860	0.0089
		0.0140	0.0030	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0203)	0.133	0.057	12.25	118.75
OUTFLOW: ID= 1 (0015)	0.133	0.018	12.33	117.99

PEAK FLOW REDUCTION [Qout/Qin](%)= 31.30
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0049

ADD HYD (0007)		AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
1 + 2 = 3	ID1= 1 (0015):	0.13	0.018	12.33	117.99
	+ ID2= 2 (0205):	0.02	0.004	12.37	65.47
	ID = 3 (0007):	0.16	0.022	12.35	112.47

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

```
       V    V   I    SSSSS  U   U    A    L              (v 6.1.2002)
       V    V   I    SS     U   U   A A   L
        V  V    I     SS    U   U  AAAAA  L
         V V    I      SS   U   U  A   A  L
          VV    I    SSSSS  UUUUU  A   A  LLLLL

        OOO   TTTTT  TTTTT  H   H  Y   Y  M   M   OOO    TM
       O   O    T      T    H   H   Y Y   MM MM  O   O
       O   O    T      T    H   H    Y    M   M  O   O
        OOO     T      T    H   H    Y    M   M   OOO
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                  *****  D E T A I L E D   O U T P U T *****


  Input   filename: C:\Program Files (x86)\Visual OTTHYMO 6.1\VO2\voin.dat
  Output  filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0bcf2e55-49
  Summary filename: C:\Users\cgagnon\AppData\Local\Civica\VH5\0906e37e-75e6-400b-a23e-2d541bf79e85\0bcf2e55-49


DATE: 04-17-2023                          TIME: 01:25:42

USER:


COMMENTS: _____________________________________________________


--------------------------------------------------------------------------------------------------------------------------
  ************************************************
  ** SIMULATION : Z) Barrie Hazel Design Storm  **
  ************************************************


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|    READ STORM    |    Filename: C:\Users\cgagnon\AppD
|                  |              ata\Local\Temp\
|                  |              5c5ec430-821e-4636-8c82-03edb318c07e\a08a7059
| Ptotal=242.80 mm |    Comments: Barrie Hazel Design Storm
--------------------
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.20	6.00	3.40	13.00	6.60	23.00	9.80	53.00
0.40	6.00	3.60	13.00	6.80	23.00	10.00	53.00
0.60	6.00	3.80	13.00	7.00	23.00	10.20	53.00
0.80	6.00	4.00	13.00	7.20	23.00	10.40	68.00
1.00	6.00	4.20	13.00	7.40	13.00	10.60	68.00
1.20	4.00	4.40	17.00	7.60	13.00	10.80	68.00
1.40	4.00	4.60	17.00	7.80	13.00	11.00	68.00
1.60	4.00	4.80	17.00	8.00	13.00	11.20	68.00
1.80	4.00	5.00	17.00	8.20	13.00	11.40	13.00
2.00	4.00	5.20	17.00	8.40	13.00	11.60	13.00
2.20	4.00	5.40	13.00	8.60	13.00	11.80	13.00
2.40	6.00	5.60	13.00	8.80	13.00	12.00	13.00
2.60	6.00	5.80	13.00	9.00	13.00	12.20	13.00
2.80	6.00	6.00	13.00	9.20	13.00		
3.00	6.00	6.20	13.00	9.40	53.00		
3.20	6.00	6.40	23.00	9.60	53.00		

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| CALIB            |
| NASHYD   (  0204)|   Area    (ha)=   0.06   Curve Number   (CN)= 71.0
|ID= 1 DT= 1.0 min |   Ia      (mm)=   4.85   # of Linear Res.(N)= 3.00
--------------------   U.H. Tp(hrs)=   0.31

        NOTE:  RAINFALL WAS TRANSFORMED TO   1.0 MIN. TIME STEP.


                        ---- TRANSFORMED HYETOGRAPH ----
```

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00
0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00
0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01
1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00

1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00
2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00
2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Unit Hyd Qpeak (cms)= 0.008

PEAK FLOW (cms)= 0.010 (i)
TIME TO PEAK (hrs)= 11.233
RUNOFF VOLUME (mm)= 165.681
TOTAL RAINFALL (mm)= 242.801
RUNOFF COEFFICIENT = 0.682

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0201)
ID= 1 DT= 1.0 min

Area (ha)= 0.17
Total Imp(%)= 78.00 Dir. Conn.(%)= 78.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.13	0.04
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	1.00	1.00
Length	(m)=	33.63	20.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00
0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00

0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01
1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00
1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00
2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00
2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Max.Eff.Inten.(mm/hr)=	68.00	60.02	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.55 (ii)	4.97 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.41	0.23	
			TOTALS
PEAK FLOW (cms)=	0.02	0.01	0.031 (iii)
TIME TO PEAK (hrs)=	10.58	11.20	11.20
RUNOFF VOLUME (mm)=	240.80	160.69	223.16
TOTAL RAINFALL (mm)=	242.80	242.80	242.80
RUNOFF COEFFICIENT =	0.99	0.66	0.92

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB					
STANDHYD (0202)	Area (ha)=	0.11			
ID= 1 DT= 1.0 min	Total Imp(%)=	81.00	Dir. Conn.(%)=	81.00	
		IMPERVIOUS	PERVIOUS (i)		
Surface Area	(ha)=	0.09	0.02		
Dep. Storage	(mm)=	2.00	5.00		
Average Slope	(%)=	2.00	2.00		

Length	(m)=	26.50	28.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00
0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00
0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01
1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00
1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00
2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00

2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Max.Eff.Inten.(mm/hr)=	68.00	60.02	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.09 (ii)	4.25 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.46	0.25	
			TOTALS
PEAK FLOW (cms)=	0.02	0.00	0.019 (iii)
TIME TO PEAK (hrs)=	10.55	11.20	11.20
RUNOFF VOLUME (mm)=	240.80	160.69	225.56
TOTAL RAINFALL (mm)=	242.80	242.80	242.80
RUNOFF COEFFICIENT =	0.99	0.66	0.93

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 69.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

ADD HYD (0010)
1 + 2 = 3

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0201):	0.17	0.031	11.20	223.16
+ ID2= 2 (0202):	0.11	0.019	11.20	225.56
ID = 3 (0010):	0.27	0.051	11.20	224.08

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0012)
IN= 2---> OUT= 1
DT= 1.0 min

OVERFLOW IS OFF

OUTFLOW (cms)	STORAGE (ha.m.)	OUTFLOW (cms)	STORAGE (ha.m.)
0.0000	0.0000	0.0200	0.0082
0.0010	0.0009	0.0210	0.0098
0.0070	0.0019	0.0230	0.0115
0.0100	0.0028	0.0240	0.0134
0.0130	0.0038	0.0620	0.0155
0.0150	0.0047	0.1400	0.0177
0.0170	0.0054	0.2500	0.0200
0.0180	0.0067	0.0000	0.0000

	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
INFLOW : ID= 2 (0010)	0.275	0.051	11.20	224.08
OUTFLOW: ID= 1 (0012)	0.275	0.050	11.20	223.25

PEAK FLOW REDUCTION [Qout/Qin](%)= 98.81
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0148

ADD HYD (0014)

1 + 2 = 3	AREA (ha)	QPEAK (cms)	TPEAK (hrs)	R.V. (mm)
ID1= 1 (0012):	0.27	0.050	11.20	223.25
+ ID2= 2 (0204):	0.06	0.010	11.23	165.68
ID = 3 (0014):	0.34	0.060	11.20	212.51

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

CALIB
NASHYD (0205)
ID= 1 DT= 1.0 min

Area (ha)= 0.02 Curve Number (CN)= 74.0
Ia (mm)= 4.56 # of Linear Res.(N)= 3.00
U.H. Tp(hrs)= 0.22

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00
0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00
0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01

1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00
1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00
2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00
2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Unit Hyd Qpeak (cms)= 0.004

PEAK FLOW (cms)= 0.004 (i)
TIME TO PEAK (hrs)= 11.200
RUNOFF VOLUME (mm)= 173.219
TOTAL RAINFALL (mm)= 242.801
RUNOFF COEFFICIENT = 0.713

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB
STANDHYD (0203)
ID= 1 DT= 1.0 min

Area (ha)= 0.13
Total Imp(%)= 75.00 Dir. Conn.(%)= 75.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.10	0.03
Dep. Storage	(mm)=	2.00	5.00
Average Slope	(%)=	2.00	2.00
Length	(m)=	29.83	8.00
Mannings n	=	0.013	0.190

NOTE: RAINFALL WAS TRANSFORMED TO 1.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr	TIME hrs	RAIN mm/hr
0.017	6.00	3.067	6.00	6.117	13.00	9.17	13.00
0.033	6.00	3.083	6.00	6.133	13.00	9.18	13.00
0.050	6.00	3.100	6.00	6.150	13.00	9.20	13.08
0.067	6.00	3.117	6.00	6.167	13.00	9.22	53.00
0.083	6.00	3.133	6.00	6.183	13.00	9.23	53.00
0.100	6.00	3.150	6.00	6.200	13.02	9.25	53.00
0.117	6.00	3.167	6.00	6.217	23.00	9.27	53.00
0.133	6.00	3.183	6.00	6.233	23.00	9.28	53.00
0.150	6.00	3.200	6.00	6.250	23.00	9.30	53.00
0.167	6.00	3.217	13.00	6.267	23.00	9.32	53.00
0.183	6.00	3.233	13.00	6.283	23.00	9.33	53.00
0.200	6.00	3.250	13.00	6.300	23.00	9.35	53.00
0.217	6.00	3.267	13.00	6.317	23.00	9.37	53.00
0.233	6.00	3.283	13.00	6.333	23.00	9.38	53.00
0.250	6.00	3.300	13.00	6.350	23.00	9.40	53.00
0.267	6.00	3.317	13.00	6.367	23.00	9.42	53.00
0.283	6.00	3.333	13.00	6.383	23.00	9.43	53.00
0.300	6.00	3.350	13.00	6.400	23.00	9.45	53.00

0.317	6.00	3.367	13.00	6.417	23.00	9.47	53.00
0.333	6.00	3.383	13.00	6.433	23.00	9.48	53.00
0.350	6.00	3.400	13.00	6.450	23.00	9.50	53.00
0.367	6.00	3.417	13.00	6.467	23.00	9.52	53.00
0.383	6.00	3.433	13.00	6.483	23.00	9.53	53.00
0.400	6.00	3.450	13.00	6.500	23.00	9.55	53.00
0.417	6.00	3.467	13.00	6.517	23.00	9.57	53.00
0.433	6.00	3.483	13.00	6.533	23.00	9.58	53.00
0.450	6.00	3.500	13.00	6.550	23.00	9.60	53.00
0.467	6.00	3.517	13.00	6.567	23.00	9.62	53.00
0.483	6.00	3.533	13.00	6.583	23.00	9.63	53.00
0.500	6.00	3.550	13.00	6.600	23.00	9.65	53.00
0.517	6.00	3.567	13.00	6.617	23.00	9.67	53.00
0.533	6.00	3.583	13.00	6.633	23.00	9.68	53.00
0.550	6.00	3.600	13.00	6.650	23.00	9.70	53.00
0.567	6.00	3.617	13.00	6.667	23.00	9.72	53.00
0.583	6.00	3.633	13.00	6.683	23.00	9.73	53.00
0.600	6.00	3.650	13.00	6.700	23.00	9.75	53.00
0.617	6.00	3.667	13.00	6.717	23.00	9.77	53.00
0.633	6.00	3.683	13.00	6.733	23.00	9.78	53.00
0.650	6.00	3.700	13.00	6.750	23.00	9.80	53.00
0.667	6.00	3.717	13.00	6.767	23.00	9.82	53.00
0.683	6.00	3.733	13.00	6.783	23.00	9.83	53.00
0.700	6.00	3.750	13.00	6.800	23.00	9.85	53.00
0.717	6.00	3.767	13.00	6.817	23.00	9.87	53.00
0.733	6.00	3.783	13.00	6.833	23.00	9.88	53.00
0.750	6.00	3.800	13.00	6.850	23.00	9.90	53.00
0.767	6.00	3.817	13.00	6.867	23.00	9.92	53.00
0.783	6.00	3.833	13.00	6.883	23.00	9.93	53.00
0.800	6.00	3.850	13.00	6.900	23.00	9.95	53.00
0.817	6.00	3.867	13.00	6.917	23.00	9.97	53.00
0.833	6.00	3.883	13.00	6.933	23.00	9.98	53.00
0.850	6.00	3.900	13.00	6.950	23.00	10.00	53.00
0.867	6.00	3.917	13.00	6.967	23.00	10.02	53.00
0.883	6.00	3.933	13.00	6.983	23.00	10.03	53.00
0.900	6.00	3.950	13.00	7.000	23.00	10.05	53.00
0.917	6.00	3.967	13.00	7.017	23.00	10.07	53.00
0.933	6.00	3.983	13.00	7.033	23.00	10.08	53.00
0.950	6.00	4.000	13.00	7.050	23.00	10.10	53.00
0.967	6.00	4.017	13.00	7.067	23.00	10.12	53.00
0.983	6.00	4.033	13.00	7.083	23.00	10.13	53.00
1.000	6.00	4.050	13.00	7.100	23.00	10.15	53.00
1.017	4.00	4.067	13.00	7.117	23.00	10.17	53.00
1.033	4.00	4.083	13.00	7.133	23.00	10.18	53.00
1.050	4.00	4.100	13.00	7.150	23.00	10.20	53.01
1.067	4.00	4.117	13.00	7.167	23.00	10.22	68.00
1.083	4.00	4.133	13.00	7.183	23.00	10.23	68.00
1.100	4.00	4.150	13.00	7.200	22.98	10.25	68.00
1.117	4.00	4.167	13.00	7.217	13.00	10.27	68.00
1.133	4.00	4.183	13.00	7.233	13.00	10.28	68.00
1.150	4.00	4.200	13.00	7.250	13.00	10.30	68.00
1.167	4.00	4.217	17.00	7.267	13.00	10.32	68.00
1.183	4.00	4.233	17.00	7.283	13.00	10.33	68.00
1.200	4.00	4.250	17.00	7.300	13.00	10.35	68.00
1.217	4.00	4.267	17.00	7.317	13.00	10.37	68.00
1.233	4.00	4.283	17.00	7.333	13.00	10.38	68.00
1.250	4.00	4.300	17.00	7.350	13.00	10.40	68.00
1.267	4.00	4.317	17.00	7.367	13.00	10.42	68.00
1.283	4.00	4.333	17.00	7.383	13.00	10.43	68.00
1.300	4.00	4.350	17.00	7.400	13.00	10.45	68.00
1.317	4.00	4.367	17.00	7.417	13.00	10.47	68.00
1.333	4.00	4.383	17.00	7.433	13.00	10.48	68.00
1.350	4.00	4.400	17.00	7.450	13.00	10.50	68.00
1.367	4.00	4.417	17.00	7.467	13.00	10.52	68.00
1.383	4.00	4.433	17.00	7.483	13.00	10.53	68.00
1.400	4.00	4.450	17.00	7.500	13.00	10.55	68.00
1.417	4.00	4.467	17.00	7.517	13.00	10.57	68.00
1.433	4.00	4.483	17.00	7.533	13.00	10.58	68.00
1.450	4.00	4.500	17.00	7.550	13.00	10.60	68.00
1.467	4.00	4.517	17.00	7.567	13.00	10.62	68.00
1.483	4.00	4.533	17.00	7.583	13.00	10.63	68.00
1.500	4.00	4.550	17.00	7.600	13.00	10.65	68.00
1.517	4.00	4.567	17.00	7.617	13.00	10.67	68.00
1.533	4.00	4.583	17.00	7.633	13.00	10.68	68.00
1.550	4.00	4.600	17.00	7.650	13.00	10.70	68.00
1.567	4.00	4.617	17.00	7.667	13.00	10.72	68.00
1.583	4.00	4.633	17.00	7.683	13.00	10.73	68.00
1.600	4.00	4.650	17.00	7.700	13.00	10.75	68.00
1.617	4.00	4.667	17.00	7.717	13.00	10.77	68.00
1.633	4.00	4.683	17.00	7.733	13.00	10.78	68.00
1.650	4.00	4.700	17.00	7.750	13.00	10.80	68.00
1.667	4.00	4.717	17.00	7.767	13.00	10.82	68.00
1.683	4.00	4.733	17.00	7.783	13.00	10.83	68.00
1.700	4.00	4.750	17.00	7.800	13.00	10.85	68.00
1.717	4.00	4.767	17.00	7.817	13.00	10.87	68.00
1.733	4.00	4.783	17.00	7.833	13.00	10.88	68.00
1.750	4.00	4.800	17.00	7.850	13.00	10.90	68.00
1.767	4.00	4.817	17.00	7.867	13.00	10.92	68.00
1.783	4.00	4.833	17.00	7.883	13.00	10.93	68.00
1.800	4.00	4.850	17.00	7.900	13.00	10.95	68.00
1.817	4.00	4.867	17.00	7.917	13.00	10.97	68.00
1.833	4.00	4.883	17.00	7.933	13.00	10.98	68.00
1.850	4.00	4.900	17.00	7.950	13.00	11.00	68.00
1.867	4.00	4.917	17.00	7.967	13.00	11.02	68.00
1.883	4.00	4.933	17.00	7.983	13.00	11.03	68.00
1.900	4.00	4.950	17.00	8.000	13.00	11.05	68.00
1.917	4.00	4.967	17.00	8.017	13.00	11.07	68.00
1.933	4.00	4.983	17.00	8.033	13.00	11.08	68.00
1.950	4.00	5.000	17.00	8.050	13.00	11.10	68.00
1.967	4.00	5.017	17.00	8.067	13.00	11.12	68.00
1.983	4.00	5.033	17.00	8.083	13.00	11.13	68.00
2.000	4.00	5.050	17.00	8.100	13.00	11.15	68.00
2.017	4.00	5.067	17.00	8.117	13.00	11.17	68.00
2.033	4.00	5.083	17.00	8.133	13.00	11.18	68.00
2.050	4.00	5.100	17.00	8.150	13.00	11.20	68.00
2.067	4.00	5.117	17.00	8.167	13.00	11.22	13.00
2.083	4.00	5.133	17.00	8.183	13.00	11.23	13.00
2.100	4.00	5.150	17.00	8.200	13.00	11.25	13.00
2.117	4.00	5.167	17.00	8.217	13.00	11.27	13.00
2.133	4.00	5.183	17.00	8.233	13.00	11.28	13.00
2.150	4.00	5.200	17.00	8.250	13.00	11.30	13.00
2.167	4.00	5.217	13.00	8.267	13.00	11.32	13.00
2.183	4.00	5.233	13.00	8.283	13.00	11.33	13.00
2.200	4.00	5.250	13.00	8.300	13.00	11.35	13.00
2.217	6.00	5.267	13.00	8.317	13.00	11.37	13.00
2.233	6.00	5.283	13.00	8.333	13.00	11.38	13.00
2.250	6.00	5.300	13.00	8.350	13.00	11.40	13.00
2.267	6.00	5.317	13.00	8.367	13.00	11.42	13.00
2.283	6.00	5.333	13.00	8.383	13.00	11.43	13.00
2.300	6.00	5.350	13.00	8.400	13.00	11.45	13.00
2.317	6.00	5.367	13.00	8.417	13.00	11.47	13.00
2.333	6.00	5.383	13.00	8.433	13.00	11.48	13.00
2.350	6.00	5.400	13.00	8.450	13.00	11.50	13.00
2.367	6.00	5.417	13.00	8.467	13.00	11.52	13.00
2.383	6.00	5.433	13.00	8.483	13.00	11.53	13.00
2.400	6.00	5.450	13.00	8.500	13.00	11.55	13.00
2.417	6.00	5.467	13.00	8.517	13.00	11.57	13.00
2.433	6.00	5.483	13.00	8.533	13.00	11.58	13.00
2.450	6.00	5.500	13.00	8.550	13.00	11.60	13.00
2.467	6.00	5.517	13.00	8.567	13.00	11.62	13.00
2.483	6.00	5.533	13.00	8.583	13.00	11.63	13.00
2.500	6.00	5.550	13.00	8.600	13.00	11.65	13.00
2.517	6.00	5.567	13.00	8.617	13.00	11.67	13.00
2.533	6.00	5.583	13.00	8.633	13.00	11.68	13.00
2.550	6.00	5.600	13.00	8.650	13.00	11.70	13.00
2.567	6.00	5.617	13.00	8.667	13.00	11.72	13.00
2.583	6.00	5.633	13.00	8.683	13.00	11.73	13.00
2.600	6.00	5.650	13.00	8.700	13.00	11.75	13.00
2.617	6.00	5.667	13.00	8.717	13.00	11.77	13.00
2.633	6.00	5.683	13.00	8.733	13.00	11.78	13.00
2.650	6.00	5.700	13.00	8.750	13.00	11.80	13.00
2.667	6.00	5.717	13.00	8.767	13.00	11.82	13.00
2.683	6.00	5.733	13.00	8.783	13.00	11.83	13.00
2.700	6.00	5.750	13.00	8.800	13.00	11.85	13.00
2.717	6.00	5.767	13.00	8.817	13.00	11.87	13.00
2.733	6.00	5.783	13.00	8.833	13.00	11.88	13.00
2.750	6.00	5.800	13.00	8.850	13.00	11.90	13.00
2.767	6.00	5.817	13.00	8.867	13.00	11.92	13.00
2.783	6.00	5.833	13.00	8.883	13.00	11.93	13.00
2.800	6.00	5.850	13.00	8.900	13.00	11.95	13.00
2.817	6.00	5.867	13.00	8.917	13.00	11.97	13.00
2.833	6.00	5.883	13.00	8.933	13.00	11.98	13.00
2.850	6.00	5.900	13.00	8.950	13.00	12.00	13.00
2.867	6.00	5.917	13.00	8.967	13.00	12.02	13.00
2.883	6.00	5.933	13.00	8.983	13.00	12.03	13.00
2.900	6.00	5.950	13.00	9.000	13.00	12.05	13.00
2.917	6.00	5.967	13.00	9.017	13.00	12.07	13.00
2.933	6.00	5.983	13.00	9.033	13.00	12.08	13.00
2.950	6.00	6.000	13.00	9.050	13.00	12.10	13.00
2.967	6.00	6.017	13.00	9.067	13.00	12.12	13.00
2.983	6.00	6.033	13.00	9.083	13.00	12.13	13.00
3.000	6.00	6.050	13.00	9.100	13.00	12.15	13.00
3.017	6.00	6.067	13.00	9.117	13.00	12.17	13.00
3.033	6.00	6.083	13.00	9.133	13.00	12.18	13.00
3.050	6.00	6.100	13.00	9.150	13.00	12.20	13.00

Max.Eff.Inten.(mm/hr)=	68.00	60.02
over (min)	5.00	3.00

```
     Storage Coeff.  (min)=       1.17 (ii)    2.89 (ii)
     Unit Hyd. Tpeak (min)=       5.00         3.00
     Unit Hyd. peak  (cms)=       0.45         0.38
                                                      *TOTALS*
     PEAK FLOW       (cms)=       0.02         0.01         0.024 (iii)
     TIME TO PEAK    (hrs)=      10.58        11.20         11.20
     RUNOFF VOLUME    (mm)=     240.80       160.69        220.76
     TOTAL RAINFALL   (mm)=     242.80       242.80        242.80
     RUNOFF COEFFICIENT   =       0.99         0.66          0.91


       (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
           CN*  =  69.0    Ia = Dep. Storage  (Above)
      (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
           THAN THE STORAGE COEFFICIENT.
     (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

--------------------------------------------------------------------------------
--------------------
| RESERVOIR(  0015)|     OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT=  1.0 min     |     OUTFLOW    STORAGE   |  OUTFLOW    STORAGE
--------------------      (cms)     (ha.m.)   |   (cms)     (ha.m.)
                          0.0000     0.0000   |   0.0160     0.0036
                          0.0010     0.0004   |   0.0170     0.0043
                          0.0060     0.0009   |   0.0180     0.0051
                          0.0080     0.0013   |   0.0560     0.0059
                          0.0100     0.0017   |   0.1330     0.0068
                          0.0120     0.0022   |   0.2430     0.0078
                          0.0130     0.0025   |   0.3860     0.0089
                          0.0140     0.0030   |   0.0000     0.0000

                               AREA     QPEAK     TPEAK       R.V.
                               (ha)     (cms)     (hrs)       (mm)
   INFLOW : ID= 2 (  0203)     0.133     0.024     11.20     220.76
   OUTFLOW: ID= 1 (  0015)     0.133     0.024     11.20     220.01

                  PEAK   FLOW   REDUCTION [Qout/Qin](%)= 99.54
                  TIME SHIFT OF PEAK FLOW         (min)=  0.00
                  MAXIMUM  STORAGE   USED       (ha.m.)=  0.0052

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--------------------
| ADD HYD  (  0007)|
|   1 +  2 =  3    |          AREA    QPEAK    TPEAK     R.V.
-------------------           (ha)    (cms)    (hrs)     (mm)
       ID1= 1 (  0015):     0.13   0.024    11.20   220.01
     + ID2= 2 (  0205):     0.02   0.004    11.20   173.22
       ================================================
       ID = 3 (  0007):     0.16   0.028    11.20   213.39

     NOTE:  PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.
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Appendix D

Supporting Water Balance and Phosphorous Budget Calculations

- Water Balance Calculations
- Project Development Summary – Pioneer Pools

Project:	518, 520, 522, 524 Tiffin Street	Date:	April 2022	
File No.:	PIO-21060	Designed:	NB	
Subject:	Water Balance Calculations	Checked:	DR	
Revisions:				

Water Balance - 518, 520, 522, 524 Tiffin Street

Pre-Development

Total Area (ha)	0.494
Impervious Area (ha)	0.183
Pervious Area (ha)	0.311

(Hydrologic Soil Group B - Urban/Muck)

	Area (m^2)	Precipitation	Evapo-Tanspiration	Infiltration	Infiltration Factor	Actual Infiltration	Run-off
Ind. / Urban Lawn (Perv)	3,112	940	525	228	0.40	91.2	324
Ind. / Urban Lawn (Imp)	1,828	940	525	228	0.00	0.0	415
Annual Volume (m^3)	**4,940**	**4,644**	**2,594**			**284**	**1,766**

Post Development

Total Area (ha)	0.494
Impervious Area (ha)	0.347
Pervious Area (ha)	0.147

(Hydrologic Soil Group A - Tioga Sandy Loam)

		Precipitation	Evapo-Tanspiration	Infiltration*	Infiltration Factor	Actual Infiltration	Run-off
Ind. / Urban Lawn (Perv)	1,469	940	525	228	0.40	91.2	324
Ind. / Urban Lawn (Imp)	3,471	940	525	228	0.00	0.0	415
Annual Volume (m^3)	**4,940**	**4,644**	**2,594**			**134**	**1,916**

Allowable - Post Development Volume (m^3): 150 Deficit before BMP 's

Net Change (%) 47.2

Infiltration Factor:

The infiltration factor has been calculated by summing the most appropriate factor associated with each subfactor.
Slopes are ranging from 0.5% to 2% corresponding to "Hilly land" and a factor of 0.1.
Soils are HSG B as indicated corresponding to an Fine Sandy Loam and a factor of 0.2
The land is currently urban with very little cover and a factor of 0.1

Infiltration Factors

Sub Factors	Description	Factor	
Topography	Flat Land	0.3	average slope <0.6m/km (<0.06%s)
	Rolling Land	0.2	average slope 2.8m to 3.8m/km (0.28 to 0.38%s)
	Hilly Land	0.1	average slope 28m to 47m/km (2.8 to 4.7%s)
Soils	Tight Impervious Clay	0.1	
	Medium Combinations of Clay/Loam	0.2	
	Open Sandy Loam	0.4	
Cover	Cultivated Land	0.1	
	Woodland	0.2	

Ontario

MINISTRY OF THE ENVIRONMENT

Database Version: V 2.0 Release Update
Update Date: 30-Mar-12

Project DEVELOPMENT Summary

DEVELOPMENT: Pioneer Pools
Subwatershed: Barrie Creeks

Total Pre-Development Area (ha):	**0.494**	Total Pre-Development Phosphorus Load (kg/yr):	**0.48**

Pre-Development Land Use	Area (ha)	P coeff. (kg/ha)	P Load (kg/yr)
High Intensity - Comm/Industrial	0.247	1.82	0.45
Low Intensity Development	0.247	0.13	0.03

POST-DEVELOPMENT LOAD

Post-Development Land Use	Area (ha)	P coeff. (kg/ha)	Best Management Practice applied with P Removal Efficiency		P Load (kg/yr)
High Intensity - Comm/Industrial	0.085	1.82	NONE	0%	0.15
					Uncontrolled Areas
High Intensity - Comm/Industrial	0.4084	1.82	Sand or Media Filters	45%	0.41
					Area Draining to LID Swales

		P Load (kg/yr)
Post-Development Area Altered:	**0.49**	
Total Pre-Development Area:	**0.49**	
Unaffected Area:	**0**	
	Pre-Development:	**0.48**
	Post-Development:	**0.90**
	Change (Pre - Post):	**-0.42**
	86% Net Increase in Load	
	Post-Development (with BMPs):	**0.56**
	Change (Pre - Post):	**-0.08**
	17% Net Increase in Load	

DEVELOPMENT: **Pioneer Pools**
Subwatershed: **Barrie Creeks**

CONSTRUCTION PHASE LOAD

SUMMARY WITH IMPLEMENTATION OF BMPs	P Load (kg/yr)
Pre-Development:	**0.48**
Construction Phase Amortized Over 8 Years :	to be determined
Post-Development:	**0.56**
Post-Development + Amortized Construction:	**to be determined**
Pre-Development Load - Post-Development Load:	**-0.08**
Conclusion:	**17% Increase in Load**
Pre-Development Load - (Post-Development + Amortized Construction Load):	**to be determined**
Conclusion:	**to be determined**

Based on a comparison of Pre-Development and Post-Development loads, and in consideration of Construction Phase loads, the Ministry would encourage the Municipality to:

Not approve development as site specific appropriate

Appendix E

Engineering Drawings (Reduced Size, NTS)

List of Drawings

- TITLE TITLE PAGE
- GN-1 GENERAL NOTES
- ESC-1 EROSION AND SEDIMENT CONTROL PLAN
- ESC-2 EROSION AND SEDIMENT CONTROL DETAILS
- STM-1 PRE-DEVELOPMENT STORM DRAINAGE AREA PLAN
- STM-2 POST-DEVELOPMENT STORM DRAINAGE AREA PLAN
- SG-1 GRADING PLAN
- SS-1 SITE SERVICING PLAN
- CS-1 LID CROSS-SECTION PLAN
- PM-1 PAVMENT MARKING AND SIGNAGE PLAN
- DET-1 STANDARD DETAILS

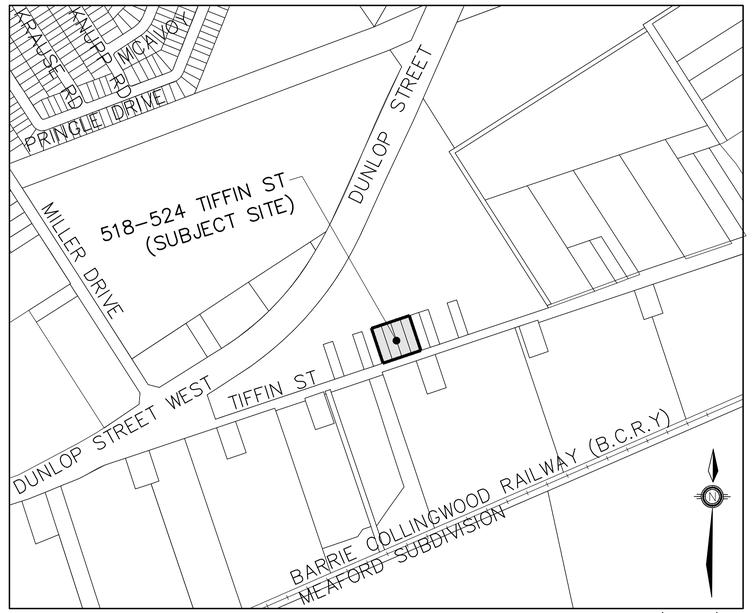
PIONEER FAMILY POOLS INC.
518–524 TIFFIN STREET, CITY OF BARRIE

PLAN OF SURVEY OF PART OF WEST HALF OF LOT 25,
CONCESSION 7 (GEOGRAPHIC TOWNSHIP OF VESPRA)
CITY OF BARRIE
COUNTY OF SIMCOE

CITY OF BARRIE FILE No.: D28–025–2024

THE JONES CONSULTING GROUP LTD. DRAWING LIST

GN–1	GENERAL NOTES
ESC–1	EROSION AND SEDIMENT CONTROL PLAN
ESC–2	EROSION AND SEDIMENT CONTROL DETAILS
STM–1	PRE–DEVELOPMENT DRAINAGE AREA PLAN
STM–2	POST–DEVELOPMENT DRAINAGE AREA PLAN
SG–1	SITE GRADING PLAN
SS–1	SITE SERVICING PLAN
CS–1	LID CROSS–SECTION PLAN
PM–1	PAVEMENT MARKING AND SIGNAGE PLAN
DET–1	STANDARD DETAILS



KEYPLAN (NTS)

MUNICIPALITY:

CITY OF BARRIE
70 COLLIER STREET (BOX 400)
BARRIE, ON L4M 4T5
PH. 705.726.4242
FAX 705.739.4243

CLIENT:

PIONEER FAMILY POOLS INC.
42 ANNE STREET SOUTH
BARRIE, ONTARIO L4N 2C9

DEVELOPER'S ENGINEER:

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

PROJECT No. PIO–21060 – THIRD SUBMISSION SEPTEMBER 2024

G:\Eng_3D\PIO-21060\Design Dwgs\PIO-21060_Title and General Notes.dwg Layout:Title Plotted Sep 24, 2024 @ 2:37pm by cgagnon The Jones Consulting Group Ltd.

GENERAL NOTES

1. DRAWINGS

A. ALL DRAWINGS SHALL BE PRODUCED IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARDS & SYMBOLS FOR PLAN & PROFILE DRAWINGS, GENERAL SERVICE PLANS AND LOT GRADING PLANS.

2. MEASUREMENTS

A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.

3. GENERAL

A. ALL WORK SHALL BE IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARD DRAWINGS (BSD) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

B. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY CITY OF BARRIE STANDARD DRAWINGS (BSD) AND SECONDLY ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD).

C. LOCATION OF EXISTING SERVICES ARE NOT GUARANTEED. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.

D. A ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE ROADS AND PARKS OPERATIONS BRANCH PRIOR TO THE COMMENCEMENT OF WORK WITHIN ANY CITY RIGHT-OF-WAY.

E. A SITE ALTERATION PERMIT IS REQUIRED FROM THE ENGINEERING DEPARTMENT PRIOR TO THE COMMENCEMENT OF ANY EARTH WORKS ON THE SITE.

F. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

G. GRANULAR MATERIAL , USED FOR BACKFILL , SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.

H. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE CITY ENGINEERING DEPARTMENT.

I. ALL SILT CONTROL AND EROSION PROTECTION DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE CITY ENGINEERING DEPARTMENT.

Barrie	Development General Notes	REV No. 5	DATE: APR 2023
			SCALE: N.T.S
			G200B

STORM SEWER

A. STORM SEWER TO BE PROVIDED ON ALL ROADS WITH CURB AND GUTTER.

B. PLACE ALL CATCH BASIN LATERALS AT 2% GRADE UNLESS OTHERWISE NOTED.
PIPE SIZE MINIMUM 250mm DIA. SINGLE , 300mm DIA. DOUBLE.

C. STORM SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD-802.010 (GRAN. 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES AND OPSD-802.030 OR 802.031 CLASS B (GRAN. 'A' BEDDING MATERIAL) FOR RIGID PIPE UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF ENGINEERING.

D. MAINTENANCE HOLE TOPS (FRAMES) AND CATCH BASIN (FRAMES) ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED. ALL ADJUSTMENT WILL BE ACCORDANCE WITH BSD-N2.

E. STORM SEWER TO BE LOCATED OFFSET 3.0m SOUTH OR EAST OF CENTRELINE UNLESS OTHERWISE SPECIFIED.

F. ALL CONNECTIONS TO THE STORM MAIN SHALL BE MADE WITH A STORM MANHOLE OR APPROVED FACTORY TEE CONNECTION AS PER OPSD-708.01 OR 708.03.

G. PIPE MATERIAL TO BE REINFORCED CONCRETE WITH A MINIMUM STRENGTH OF 50 N/mm CERTIFIED TO C.S.A. STANDARD A247.2-1982, CLASS 50-D (PREVIOUSLY C.S.A. STANDARD A257.2-1974, CLASS II) OR PVC CERTIFIED TO C.S.A. STANDARDS 182.2 AND 182.4.

H. STORM SEWER TO BE MINIMUM 300mm DIAMETER WITH JOINTS CONFORMING TO C.S.A. STANDARD A257.3.

I. ALL PIPE BEDDING MUST CONFORM TO OPSD, MAXIMUM COVER TABLE. NO FLEXIBLE PIPE SEWERS WILL BE INSTALLED WITH A DEPTH OF COVER GREATER THAN 6 METRES UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF ENGINEERING.

J. ALL PIPE HANDLING INSTALLATIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURES INSTALLATION GUIDES AND THE O.C.P.A. OR UNIBELL GUIDELINES.

K. SUMP PUMP DISCHARGE PIPING IN BOULEVARD:
IN THE EVENT OF OVERACTIVE SUMP PUMP ACTIVITY, A 150mm DIAMETER PVC DR-28 SEWER MAY BE INSTALLED, WHEN SO DIRECTED BY THE DIRECTOR OF ENGINEERING, ALONG THE FRONTAGES OF DESIGNATED LOTS, WITH AN OFFSET OF 0.6m FROM BACK OF CURB. THIS SEWER IS TO BE CAPPED AT THE UPSTREAM END AND IS TO OUTLET INTO THE NEAREST CATCHBASIN DOWNSTREAM. DEPTH OF SEWER IS TO BE EQUAL TO SUBDRAIN DEPTH. NOT TO BE DIRECTLY CONNECTED TO FOUNDATION DRAINS.

Barrie	Storm Sewers General Notes	REV No. 5	DATE: APR 2023
			SCALE: N.T.S.
			D788

EROSION CONTROL NOTES

1. THE ACCOMPANYING PLANS SET OUT THE MEASURES THAT WILL BE TAKEN BY THE DEVELOPER AND ITS CONTRACTORS TO CONTROL DOWNSTREAM SEDIMENT TO THE LOWEST LEVEL PRACTICALLY ACHIEVABLE. THE CONDITIONS AND TECHNIQUES SET OUT ON ARE TO BE FOLLOWED UNLESS APPROVED OTHERWISE BY THE CONTRACT ADMINISTRATOR, CONSERVATION AUTHORITY AND/OR MUNICIPALITY.
2. ALL TEMPORARY SILT CONTROL AND EROSION PROTECTION DEVICES (I.E. SILT FENCING, DRAINAGE SWALES, ROCK CHECK DAMS, SEDIMENT BASIN, GRAVEL ACCESS PAD, ETC.) SHALL BE CONSTRUCTED PRIOR TO COMMENCEMENT OF SITE WORKS AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE CITY ENGINEERING DEPARTMENT.
3. ALL SEDIMENTATION CONTROL MEASURES ARE TO BE INSPECTED REGULARLY (MINIMUM WEEKLY), AS WELL AS AFTER EVERY RAINFALL EVENT AND ANY DAMAGED SILT CONTROL AND EROSION PROTECTION DEVICES SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR.
4. THE CONTRACTOR MUST USE MATERIALS, CONSTRUCTION PRACTICES, AND MITIGATION TECHNIQUES IN ORDER TO PREVENT THE UNAUTHORIZED HARMFUL ALTERATION, DISRUPTION OR DESTRUCTION OF VEGETATION OR THE IMPAIRMENT OF WATER QUALITY.
5. THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES.
6. AREAS WITHOUT STABLE GROUND COVER SHALL BE PROTECTED WITH SILTATION CONTROL FENCING, STRAW MULCH, ETC, AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BECOME ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
7. ALL EXPOSED SOIL MUST BE GRADED TO A STABLE SLOPE AND TREATED AS QUICKLY AS POSSIBLE TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE SITE. ALL AREA STRIPPED OF VEGETATIVE COVER FOR LONGER THAN 30 DAYS SHALL BE MULCHED AND SEEDED AT THE DIRECTION OF THE ENGINEER.
8. ALL SITE DRAINAGE TO OUTLET VIA SHEET DRAINAGE, BERMS OR SWALES (AS NECESSARY) TO FACILITATE THE COMPLETION OF GRADING WORKS. THE CONTRACTOR SHALL CONSTRUCT ANY ADDITIONAL SWALES OR BERMS THAT MAY BE NECESSARY TO DIRECT RUN-OFF IN A CONTROLLED MANNER OF SUITABLE QUALITY.
9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE FROM PROPOSED CONSTRUCTION ACCESS VIA THE GRAVEL ACCESS PAD.
10. ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30m FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE INSPECTOR.
11. TECHNIQUES FOR EROSION AND SEDIMENT CONTROL ARE TO ADHERE TO ACCEPTED ENGINEERING PRACTICE AND MUNICIPAL CONSERVATION AUTHORITY AND ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 805; CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, AS WELL AS APPLICABLE MUNICIPAL STANDARDS AND/OR APPROVAL AGENCY STANDARDS.
12. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES, SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL BY THE CONTRACT ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE APPLICABLE APPROVAL AGENCIES.
13. REFER TO DRAWINGS EP-1 TO EP-2 FOR ADDITIONAL INFORMATION.

GRADING NOTES

1. ALL DISTURBED AREAS TO BE RESTORED TO EXISTING CONDITIONS OR BETTER. GRASSED LANDSCAPE AREAS TO RECEIVE A MIN. 200mm DEPTH OF TOPSOIL AND SOD IMMEDIATELY FOLLOWING COMPLETION OF GRADING.
2. ALL SLOPES ALONG BERMS AND DITCHES TO BE MAXIMUM SLOPES OF 3:1, UNLESS OTHERWISE NOTED.

ENGINEERING NOTES

UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE FOLLOWING REQUIREMENTS SHALL APPLY TO THE WORKS.

1. ALL MEASUREMENTS FOR THIS PROJECT ARE IN METERS, EXCEPT PIPE DIAMETERS WHICH IS IN MILLIMETRES, UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
2. ALL MECHANICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, RULES AND REGULATIONS, TO MEET THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION AND TO MEET THE DESIGN INTENT.
3. ALL WORK AND MATERIALS WITHIN THE PROPERTY BOUNDARIES SHALL CONFORM TO THE LATEST EDITION OF THE ONTARIO BUILDING CODE. WHERE THERE IS A CONFLICT BETWEEN THE FOLLOWING NOTES AND SPECIFICATIONS AND THE ONTARIO BUILDING CODE, THE DECISION OF THE CHIEF BUILDING OFFICIAL WILL GOVERN.
4. INFORMATION ON EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY UTILITY LOCATES PRIOR TO COMMENCING CONSTRUCTION.
5. CONTRACTOR SHALL INFORM THE SITE (PROJECT) MANAGER A MINIMUM 24 HOURS IN ADVANCE OF HIS INTENTION TO COMMENCE WORK. CONTRACTOR SHALL AT ALL TIMES, PROVIDE SUITABLE BARRICADES AND FLAGGING PROTECTION IN ACCORDANCE WITH THE MINISTRY OF LABOUR PRACTICES, AND OCCUPATIONAL HEALTH AND SAFETY ACT.
6. THESE NOTES ARE GENERAL IN NATURE; FOR SPECIFIC DETAILS REFER TO CITY OF BARRIE AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS.
7. SEWER PIPE MATERIAL (IF APPLICABLE): -POLYVINYL CHLORIDE PIPE SHALL CONFORM TO CSA-B-182.1 AND CSA-B-182.2 WITH BELL AND SPIGOT RUBBER GASKETED JOINTS COMPLYING WITH CSA-B182.2 AND CSA-B182.3. SANITARY PIPE SHALL BE SDR-35 AND ALL SANITARY SERVICE LATERALS TO BE SDR-28.
8. SEWER BEDDING WILL CONFORM TO O.P.S.D. 802.030 FOR RIGID PIPE INSTALLATION AND O.P.S.D. 802.010 FOR FLEXIBLE PIPE INSTALLATION. NATIVE MATERIAL USED FOR BACKFILL SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER.
9. ALL TRENCHES ARE TO BE BACKFILLED WITH NATIVE MATERIAL AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY OR AS PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. IN ADDITION, ALL STRUCTURES WITHIN TRAVELLED PORTION OF THE ROAD & PARKING AREAS SHALL HAVE NATIVE 1:4 FROST TAPERS FROM FROST LINE TO SUBGRADE.
10. MANHOLES:
-STEPS SHALL BE ALUMINUM ALLOY O.P.S.D. 405.010 SOLID CIRCULAR ALUMINUM OR APPROVED EQUAL.
-FRAMES AND COVERS SHALL BE DOMINION WHEEL FOUNDRIES DESIGN STD. 579 OR APPROVED EQUAL AND SHALL CONFORM TO O.P.S.D. 401.010 TYPE 'A'.
-SANITARY MANHOLES ARE TO HAVE CORE AND SEAL GASKETS ON ALL PIPE CONNECTIONS. 1200 DIAMETER MANHOLES – O.P.S.D. 701.010
-MANHOLE BENCHING SHALL EXTEND TO PIPE OBVERT AND SHALL BE IN ACCORDANCE WITH DETAILS SHOWN AS PER OPSD 1004.010 -SAFETY PLATFORMS SHALL BE AS PER OPSD 404.020.
11. ROAD MAKE-UP: (REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY GEI CONSULTANTS DATED MARCH 4, 2022)

LIGHT DUTY
-40mm HL3 (OPSS 1150) WITH PG 58-28 ASPHALT CEMENT SURFACE COURSE ASPHALTIC CONCRETE
-50mm HL8 (OPSS 1150) WITH PG 58-28 ASPHALT CEMENT BINDER COURSE ASPHALTIC CONCRETE
-150mm OPSS GRANULAR "A" BASE COURSE
-300mm OPSS GRANULAR "B" SUBBASE COURSE

HEAVY DUTY
-40mm HL3 (OPSS 1150) WITH PG 58-28 ASPHALT CEMENT SURFACE COURSE ASPHALTIC CONCRETE
-70mm HL8 (OPSS 1150) WITH PG 58-28 ASPHALT CEMENT BINDER COURSE ASPHALTIC CONCRETE
-150mm OPSS GRANULAR "A" BASE COURSE
-450mm OPSS GRANULAR "B" SUBBASE COURSE

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 155861oPo.
LOT 9 REGISTERED PLAN 51M-378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY 400 AND HWY 27 (ESSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONDUTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV. 239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.8 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 6.8 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR. NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
1.	THIRD SUBMISSION	SEP 2024	JWI

LICENSED PROFESSIONAL ENGINEER
J. W. INGRAM
100143779
24-09-24
PROVINCE OF ONTARIO

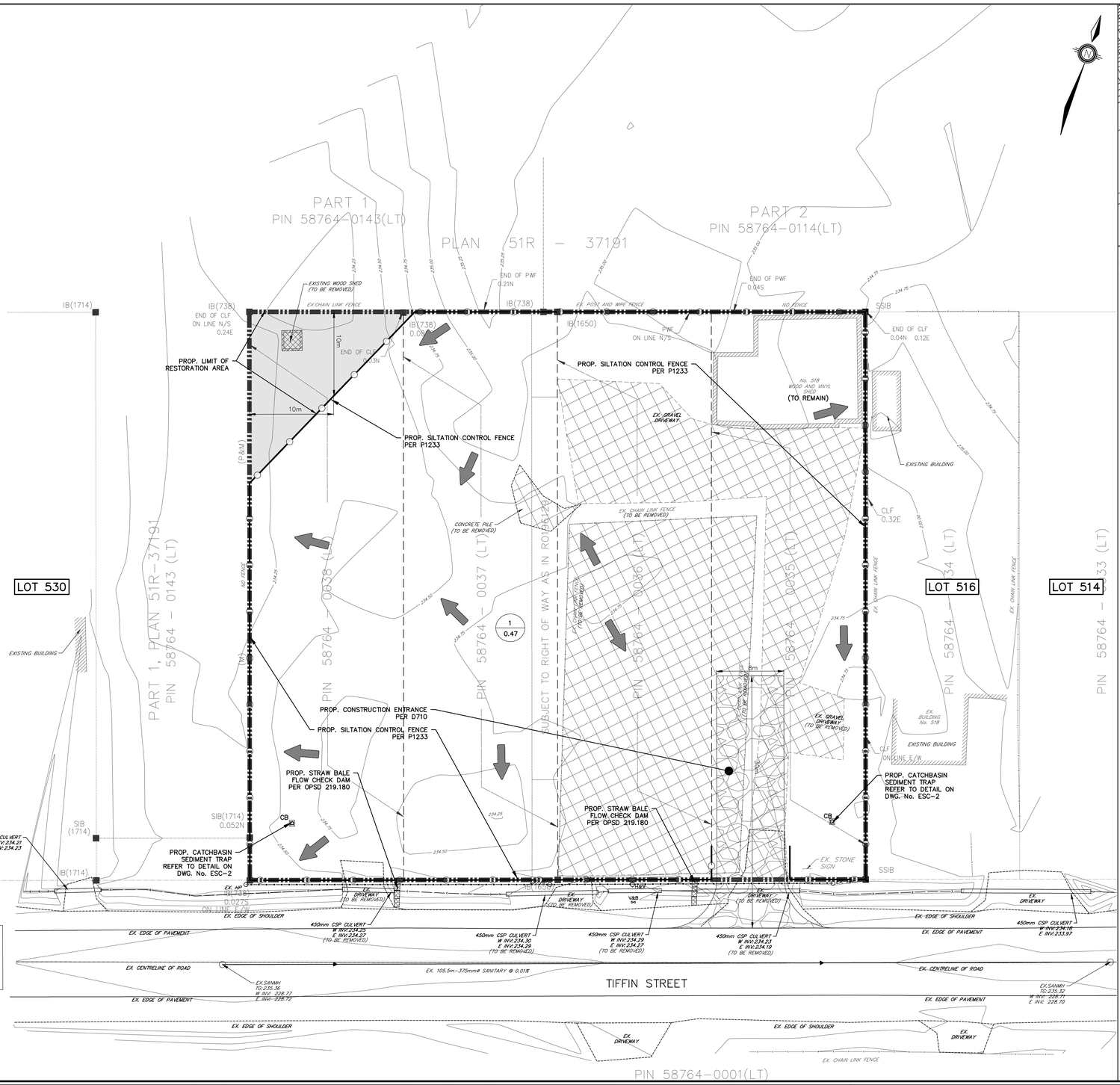
PIONEER FAMILY POOLS INC.
518-524 TIFFIN STREET
BARRIE, ONTARIO

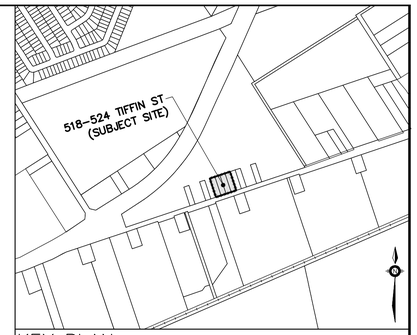
GENERAL NOTES

JONES CONSULTING GROUP LTD.
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P. 705.734.2538
F. 705.734.1056

DESIGN CG	SCALE: NTS	DATE JULY 2024
DRAWN CG	PROJECT P10-21060	DWG. Nº GN-1
CHECKED JWI		

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KEY PLAN
NTS

LEGEND

- EX. PROPERTY LINE
- EX. LOT LINE
- 253.00 EX. CONTOUR AND ELEVATION
- H&V EX. HYDRANT AND VALVE
- V&B EX. VALVE
- EX. DITCH
- 1 / 0.47 CATCHMENT ID NUMBER / AREA (ha.)
- PROP. CONSTRUCTION ENTRANCE
- PROP. SILTATION CONTROL FENCE
- PROP. STRAW BALE
- PROP. CATCHBASIN SEDIMENT TRAP
- EX. OVERLAND FLOW DIRECTION
- LIMIT OF RESTORATION AREA
- AREA OF REMOVALS

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 15586ToPo.
LOT 9 REGISTERED PLAN 51M-378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY 400 AND HWY 27 (ESSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONSOLTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV.239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISION BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE ROADWAY GRADE LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE - CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 9.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR. NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
1.	THIRD SUBMISSION	SEP 2024	JWI

J. W. INGRAM
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LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

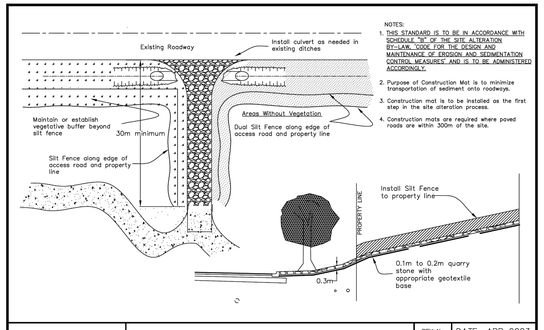
PIONEER FAMILY POOLS INC.
518-524 TIFFIN STREET
BARRIE, ONTARIO

EROSION AND SEDIMENT CONTROL AND REMOVALS PLAN

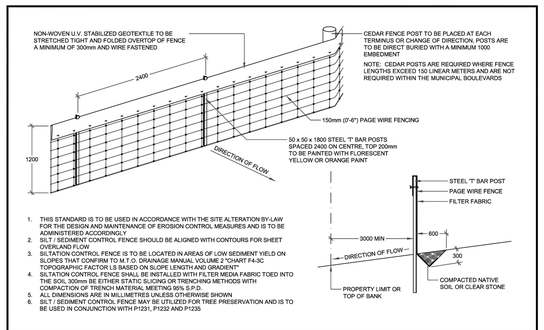
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DESIGN	CG	SCALE: 1:250	DATE JUL 2024
DRAWN	CG	PROJECT PIO-21060	DWG. Nº ESC-1
CHECKED	JWI		

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Barrie | Construction Entrance | REV No. 2 | DATE: APR 2023 | SCALE: N.T.S | D710



Barrie | FENCE SILTATION CONTROL | REV No. 3 | DATE: APR 2023 | SCALE: N.T.S. | P1233

EROSION CONTROL NOTES

1. THE ACCOMPANYING PLANS SET OUT THE MEASURES THAT WILL BE TAKEN BY THE DEVELOPER AND ITS CONTRACTORS TO CONTROL DOWNSTREAM SEDIMENT TO THE LOWEST LEVEL PRACTICALLY ACHIEVABLE. THE CONDITIONS AND TECHNIQUES SET OUT ARE TO BE FOLLOWED UNLESS APPROVED OTHERWISE BY THE CONTRACT ADMINISTRATOR, CONSERVATION AUTHORITY AND/OR MUNICIPALITY.
2. ALL TEMPORARY SILT CONTROL AND EROSION PROTECTION DEVICES (I.E. SILT FENCING, DRAINAGE SWALES, ROCK CHECK DAMS, SEDIMENT BASIN, GRAVEL ACCESS PAD, ETC.) SHALL BE CONSTRUCTED PRIOR TO COMMENCEMENT OF SITE WORKS AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO APPROVAL BY THE CITY ENGINEERING DEPARTMENT.
3. ALL SEDIMENTATION CONTROL MEASURES ARE TO BE INSPECTED REGULARLY (MINIMUM WEEKLY), AS WELL AS AFTER EVERY RAINFALL EVENT AND ANY DAMAGED SILT CONTROL AND EROSION PROTECTION DEVICES SHALL BE PROMPTLY REPAIRED OR REPLACED BY THE CONTRACTOR.
4. THE CONTRACTOR MUST USE MATERIALS, CONSTRUCTION PRACTICES, AND MITIGATION TECHNIQUES IN ORDER TO PREVENT THE UNAUTHORIZED HARMFUL ALTERATION, DISRUPTION OR DESTRUCTION OF VEGETATION OR THE IMPAIRMENT OF WATER QUALITY.
5. THE CONTRACTOR SHALL BE PREPARED FOR UNEXPECTED CONDITIONS AND ACCORDINGLY HAVE STOCKPILED MATERIALS ON SITE FOR NECESSARY REPAIRS AS A RESULT OF FAILED OR INADEQUATE CONTROL MEASURES.
6. AREAS WITHOUT STABLE GROUND COVER SHALL BE PROTECTED WITH SILTATION CONTROL FENCING, STRAW MULCH, ETC, AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION HAS BECOME ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
7. ALL EXPOSED SOIL MUST BE GRADED TO A STABLE SLOPE AND TREATED AS QUICKLY AS POSSIBLE TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE SITE. ALL AREA STRIPPED OF VEGETATIVE COVER FOR LONGER THAN 30 DAYS SHALL BE TOPSOILED AND SEEDED AT THE DIRECTION OF THE ENGINEER.
8. ALL SITE DRAINAGE (I.E. SILT SHEET DRAINAGE, BERMS OR SWALES (AS NECESSARY) TO FACILITATE THE COMPLETION OF GRADING WORKS. THE CONTRACTOR SHALL CONSTRUCT ANY ADDITIONAL SWALES OR BERMS THAT MAY BE NECESSARY TO DIRECT RUN-OFF IN A CONTROLLED MANNER OF SUITABLE QUALITY.
9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE FROM PROPOSED CONSTRUCTION ACCESS VIA THE GRAVEL ACCESS PAD.
10. ANY DEWATERING WASTE SHALL BE DISCHARGED TO A VEGETATED AREA AT LEAST 30M FROM ANY WATERCOURSE AND FILTERED. FILTERING METHODS MUST BE APPROVED BY THE SITE INSPECTOR.
11. TECHNIQUES FOR EROSION AND SEDIMENT CONTROLS ARE TO ADHERE TO ACCEPTED ENGINEERING PRACTICE AND MUNICIPAL, CONSERVATION AUTHORITY AND ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 805: CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, AS WELL AS APPLICABLE MUNICIPAL STANDARDS AND/OR APPROVAL AGENCY STANDARDS.
12. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL BY THE CONTRACT ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE APPLICABLE APPROVAL AGENCIES.

NOTE:
"I HAVE REVIEWED THE PLANS FOR THE CONSTRUCTION OF 518-524 TIFFIN STREET AND HAVE PREPARED THIS PLAN TO INDICATE THE COMPATIBILITY OF THE PROPOSAL TO EXISTING ADJACENT PROPERTIES AND MUNICIPAL SERVICES. IT IS MY BELIEF THAT ADHERENCE TO THE PROPOSED GRADES AS SHOWN WILL PRODUCE ADEQUATE SURFACE DRAINAGE AND PROPER FACILITY OF MUNICIPAL SERVICES WITHOUT ANY DETRIMENTAL EFFECT TO THE EXISTING DRAINAGE PATTERNS OR ADJACENT PROPERTIES."

CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS PROVIDED FOR CONTRACTING GUIDANCE:

1. CONSTRUCT ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING SILT FENCE, TREE PRESERVATION FENCE, MUD MATS, CHECK DAMS, SEDIMENT BASIN, SWALES/BERMS, ETC.
2. PROCEED WITH REMOVALS.
3. PROCEED WITH STRIPPING AND REMOVAL OF TOPSOIL. TOPSOIL TO BE STORED ON-SITE AS REQUIRED TO FACILITATE RESTORATION OF SITE.
4. PROCEED WITH EARTH EXCAVATION AND PRE-GRADING.
5. PROCEED WITH SITE WORKS I.E. SITE SERVICING AND SURFACE WORKS INSTALLATIONS.
6. RESTORATION OF DISTURBED AREAS.
7. REMOVAL OF SEDIMENT AND EROSION CONTROLS.

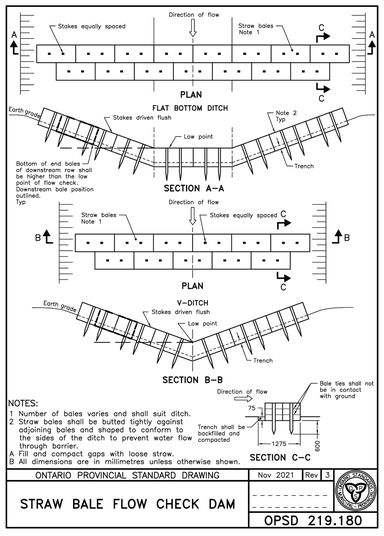
NOTE SILTATION AND EROSION CONTROL MEASURES ARE TO BE MONITORED AND MAINTAINED THROUGHOUT CONSTRUCTION AND NECESSARY REPAIRS TO BE PROMPTLY COMPLETED AS REQUIRED.

CONTINGENCY PLAN

IF UNFORESEEN EVENTS CAUSE THE STRATEGIES SET OUT IN THIS PLAN TO BE INSUFFICIENT OR INAPPROPRIATE TO MEET THE OBJECTIVE, THE CONTRACTOR IS EXPECTED TO RESPOND IN A TIMELY MANNER WITH ALL REASONABLE MEASURES CONSISTENT WITH SAFETY, TO PREVENT, COUNTERACT OR REMEDY DOWNSTREAM SEDIMENTATION AND EROSION.

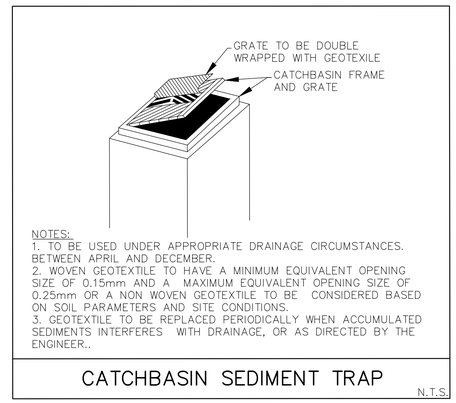
SPILL REPORTING PROCEDURES ESTABLISHED BY MOE SHALL BE USED TO REPORT UNEXPECTED DISCHARGE OF SILT, SEDIMENT OR OTHER DELETERIOUS SUBSTANCES. THE MINISTRY OF ENVIRONMENT & CLIMATE CHANGE SHALL BE NOTIFIED VIA THE SPILLS ACTION CENTRE (1-800-268-6060). IN THE EVENT OF A SPILL THE MNR SHALL BE NOTIFIED AS WELL. THE ON-CALL CITY OF BARRIE ENVIRONMENTAL OFFICER SHOULD ALSO BE NOTIFIED VIA CELL PHONE AT (705)725-3374.

IF APPROVAL AGENCIES DETERMINE THAT LONG TERM DAMAGE TO THE NATURAL ENVIRONMENT HAS OCCURRED DUE TO FAILURE OF THIS PLAN TO CONTROL SEDIMENTS, A RESTORATION PLAN WILL BE DEVELOPED BY THE CONTRACTOR IN CONSULTATION WITH, AND APPROVAL FROM THE APPROPRIATE AGENCIES FOR IMPLEMENTATION BY THE CONTRACTOR.



ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2021 | Rev 3

STRAW BALE FLOW CHECK DAM | OPSD 219.180



CATCHBASIN SEDIMENT TRAP N.T.S.

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 155867oPo.
LOT 9 REGISTERED PLAN 51M-378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.3 KM NORTH OF HWY 400 AND HWY 27 (ESSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONOUTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV. 239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE - CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.8 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 6.8 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR, NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
1.	THIRD SUBMISSION	SEP 2024	JWI

LICENSED PROFESSIONAL ENGINEER J. W. INGRAM 100143779 24-09-24 PROVINCE OF ONTARIO

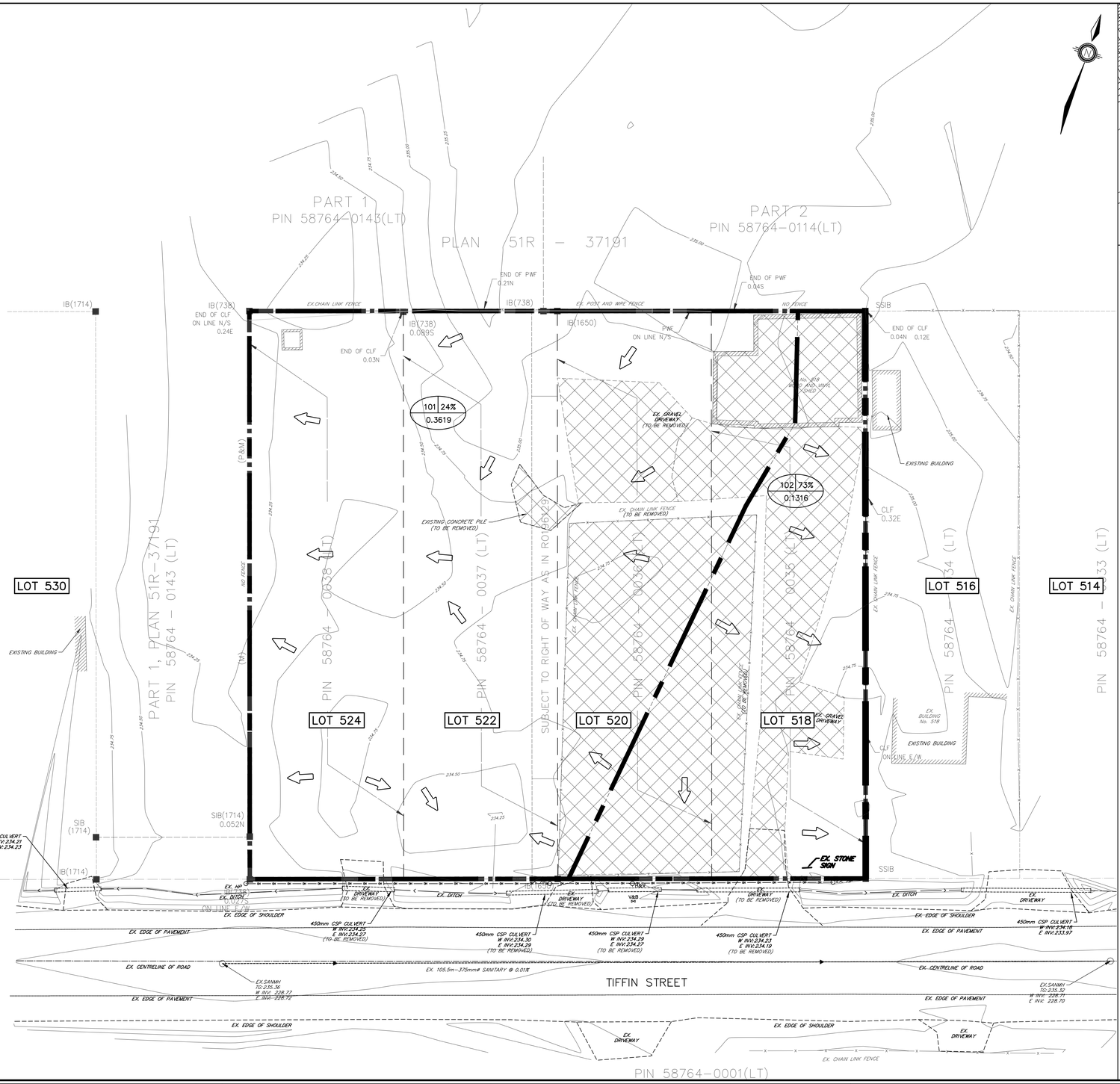
PIONEER FAMILY POOLS INC.
518-524 TIFFIN STREET
BARRIE, ONTARIO

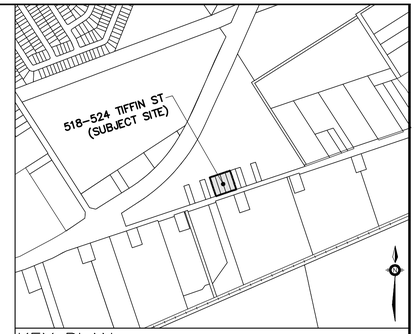
EROSION AND SEDIMENT CONTROL AND REMOVALS PLAN NOTES AND DETAILS

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS
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DESIGN	CG	SCALE: NTS	DATE JUL 2024
DRAWN	CG	PROJECT PIO-21060	DWG. Nº ESC-2
CHECKED	JWI		

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KEY PLAN
NTS

LEGEND

- EX. CONTOUR AND ELEVATION
- EX. HYDRANT AND VALVE
- EX. VALVE
- EX. HYDRO POLE AND OVERHEAD CABLE
- BOUNDARY LIMIT
- EXISTING OVERLAND FLOW DIRECTION
- CATCHMENT BOUNDARY
- IMPERVIOUS AREA
- CATCHMENT AREA ID NUMBER
- IMPERVIOUSNESS %
- AREA (ha.)

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 15586ToPo.
LOT 9 REGISTERED PLAN 51M-378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.3 KM NORTH OF HWY 400 AND HWY 27 (OSSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONSOLTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE ELEV. 239.953

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400. TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.4 M NORTHWEST OF POWER POLE No. 3 SUPPORTS A DOUBLEBOARD TRAFFIC SIGN, 6.8 M SOUTH OF A CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR. NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
4.	THIRD SUBMISSION	SEP 2024	JWI
3.	SECOND SUBMISSION	APR 2023	JWI
2.	OPA AND ZBA SUBMISSION	APR 2022	NWB
1.	EXISTING SURVEY	DEC 2021	NWB

LICENSED PROFESSIONAL ENGINEER
J. W. INGRAM
100143779
24-09-24
PROVINCE OF ONTARIO

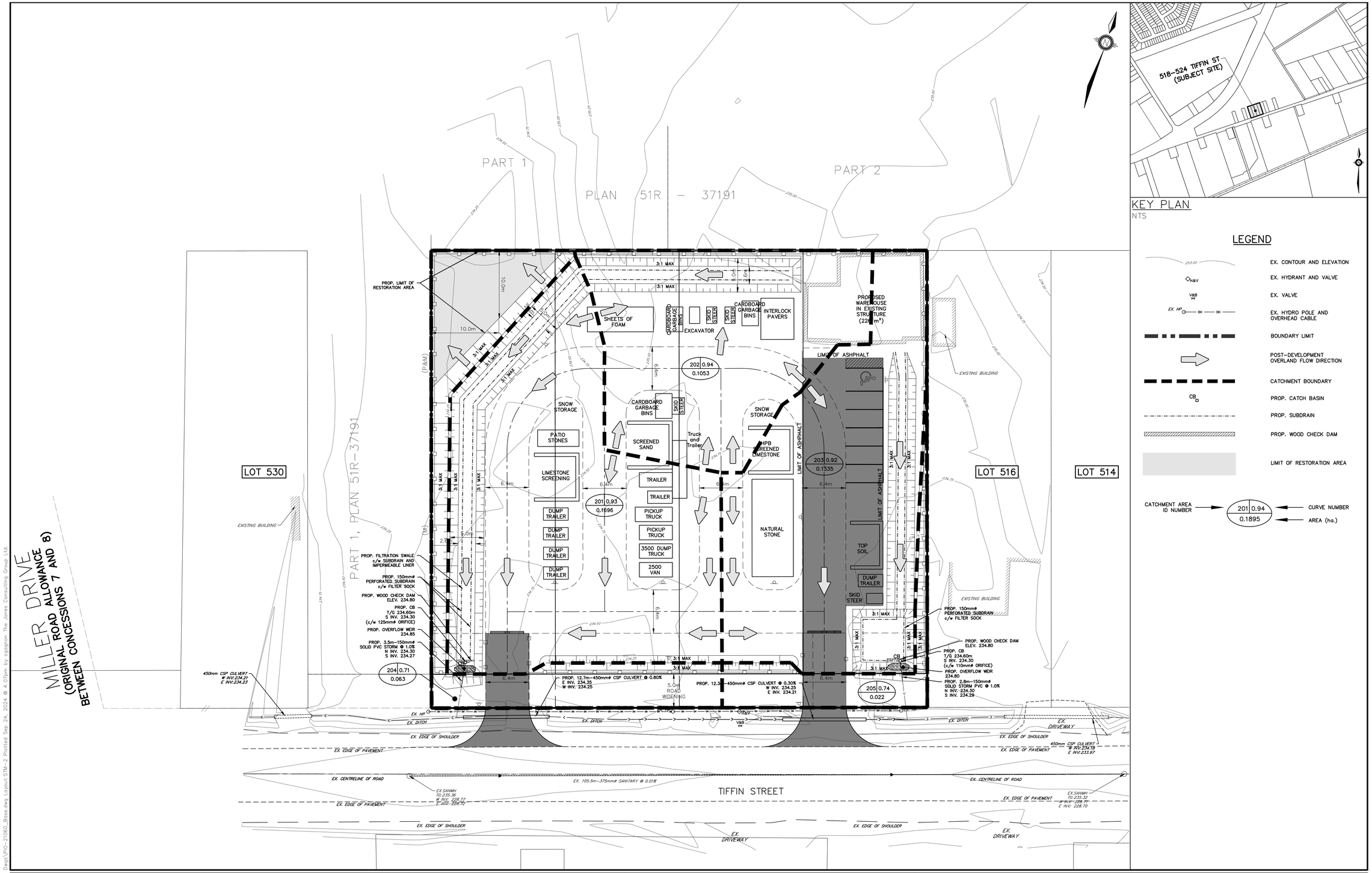
PIONEER FAMILY POOLS INC.
518-524 TIFFIN STREET
BARRIE, ONTARIO

PRE-DEVELOPMENT DRAINAGE AREA PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

DESIGN	CG	SCALE: 1:250	DATE FEB 2022
DRAWN	CG	PROJECT PIO-21060	DWG. Nº STM-1
CHECKED	JWI		

G:\Eng_3D\PIO-21060\Design Dwgs\PIO-21060_Base.dwg, Layout: STM-1 Plotted Sep 24, 2024 @ 2:49pm by cgagnon The Jones Consulting Group Ltd



KEY PLAN
NTS

LEGEND

- EX. CONTOUR AND ELEVATION
- EX. HYDRANT AND VALVE
- EX. VALVE
- EX. HYDRO POLE AND OVERHEAD CABLE
- BOUNDARY LIMIT
- POST–DEVELOPMENT OVERLAND FLOW DIRECTION
- CATCHMENT BOUNDARY
- PROP. CATCH BASIN
- PROP. SUBDRAIN
- PROP. WOOD CHECK DAM
- LIMIT OF RESTORATION AREA

CATCHMENT AREA ID NUMBER — 201 | 0.94 / 0.1895 — CURVE NUMBER / AREA (ha.)

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 15586ToPo. LOT 9 REGISTERED PLAN 51M–378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY 400 AND HWY 27 (ESSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONSOLTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE ELEV. 239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400. TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL. ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 8.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR. NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
4.	THIRD SUBMISSION	SEP 2024	JWI
3.	SECOND SUBMISSION	APR 2023	JWI
2.	OPA AND ZBA SUBMISSION	APR 2022	NWB
1.	EXISTING SURVEY	DEC 2021	NWB

LICENCED PROFESSIONAL ENGINEER — J. W. INGRAM — 100143779 — 24-09-24 — PROVINCE OF ONTARIO

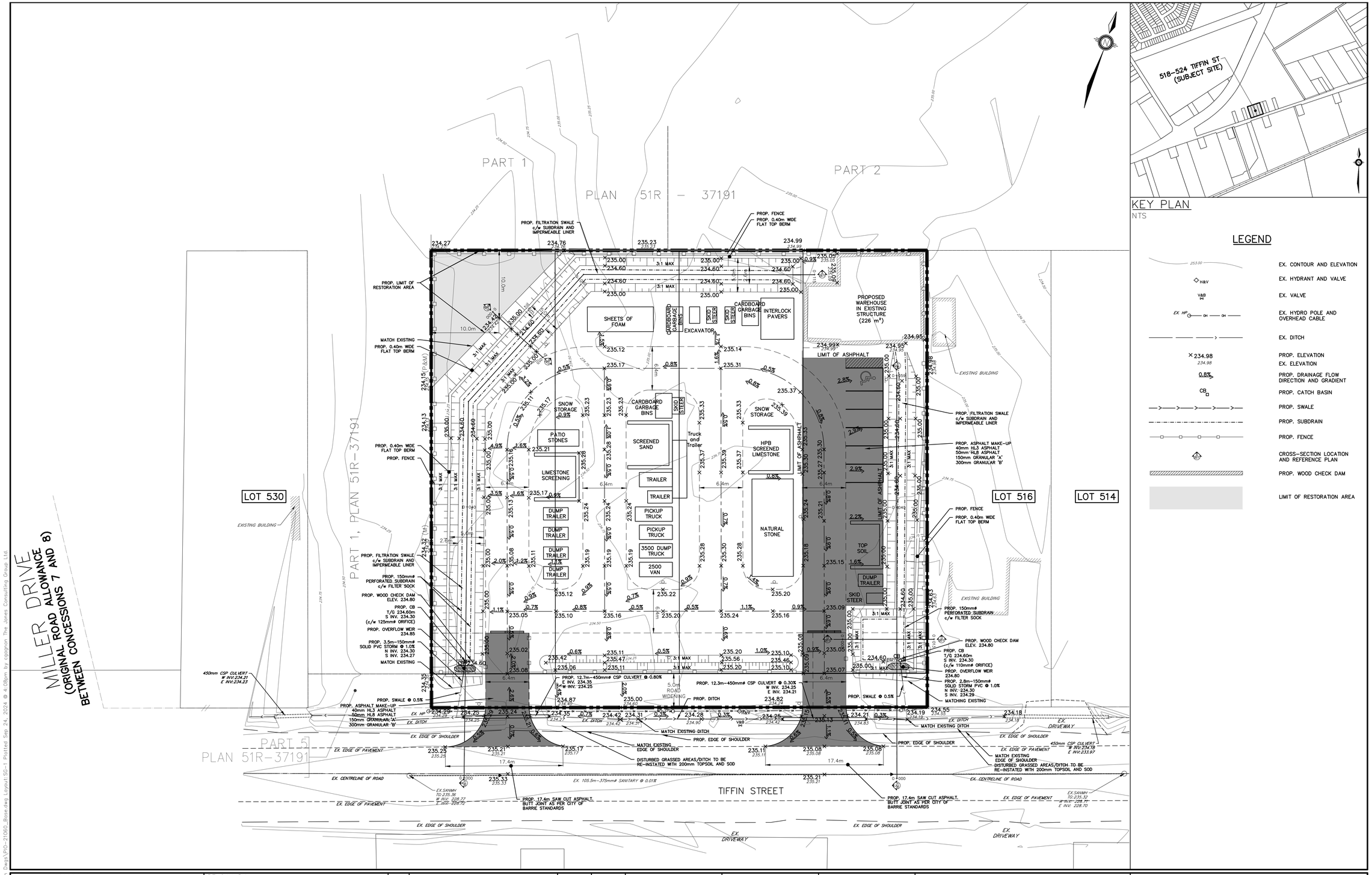
PIONEER FAMILY POOLS INC.
518–524 TIFFIN STREET
BARRIE, ONTARIO

POST–DEVELOPMENT DRAINAGE AREA PLAN

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS
229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

DESIGN	CG	SCALE: 1:250	DATE FEB 2022
DRAWN	CG	PROJECT PIO–21060	DWG. Nº STM–2
CHECKED	JWI		

G:\Eng_3D\PIO-21060\Design Data\PIO-21060_Base.dwg Layout: STM-2 Plotted Sep 24, 2024 @ 4:07pm by cgagnon The Jones Consulting Group Ltd.



KEY PLAN
NTS

LEGEND

- EX. CONTOUR AND ELEVATION
- EX. HYDRANT AND VALVE
- EX. VALVE
- EX. HYDRO POLE AND OVERHEAD CABLE
- EX. DITCH
- PROP. ELEVATION
- EX. ELEVATION
- PROP. DRAINAGE FLOW DIRECTION AND GRADIENT
- PROP. CATCH BASIN
- PROP. SWALE
- PROP. SUBDRAIN
- PROP. FENCE
- CROSS–SECTION LOCATION AND REFERENCE PLAN
- PROP. WOOD CHECK DAM
- LIMIT OF RESTORATION AREA

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 155867oPo.
LOT 9 REGISTERED PLAN 51M–378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY 400 AND HWY 27 (OSSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE, TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONCRETE ON N.E CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV.239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90' WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE ROADWAY GRADE LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 8.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR. NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
4.	THIRD SUBMISSION	SEP 2024	JWI
3.	SECOND SUBMISSION	APR 2023	JWI
2.	OPA AND ZBA SUBMISSION	APR 2022	NWB
1.	EXISTING SURVEY	DEC 2021	NWB

LICENCED PROFESSIONAL ENGINEER
J. W. INGRAM
100145779
24-09-24
PROVINCE OF ONTARIO

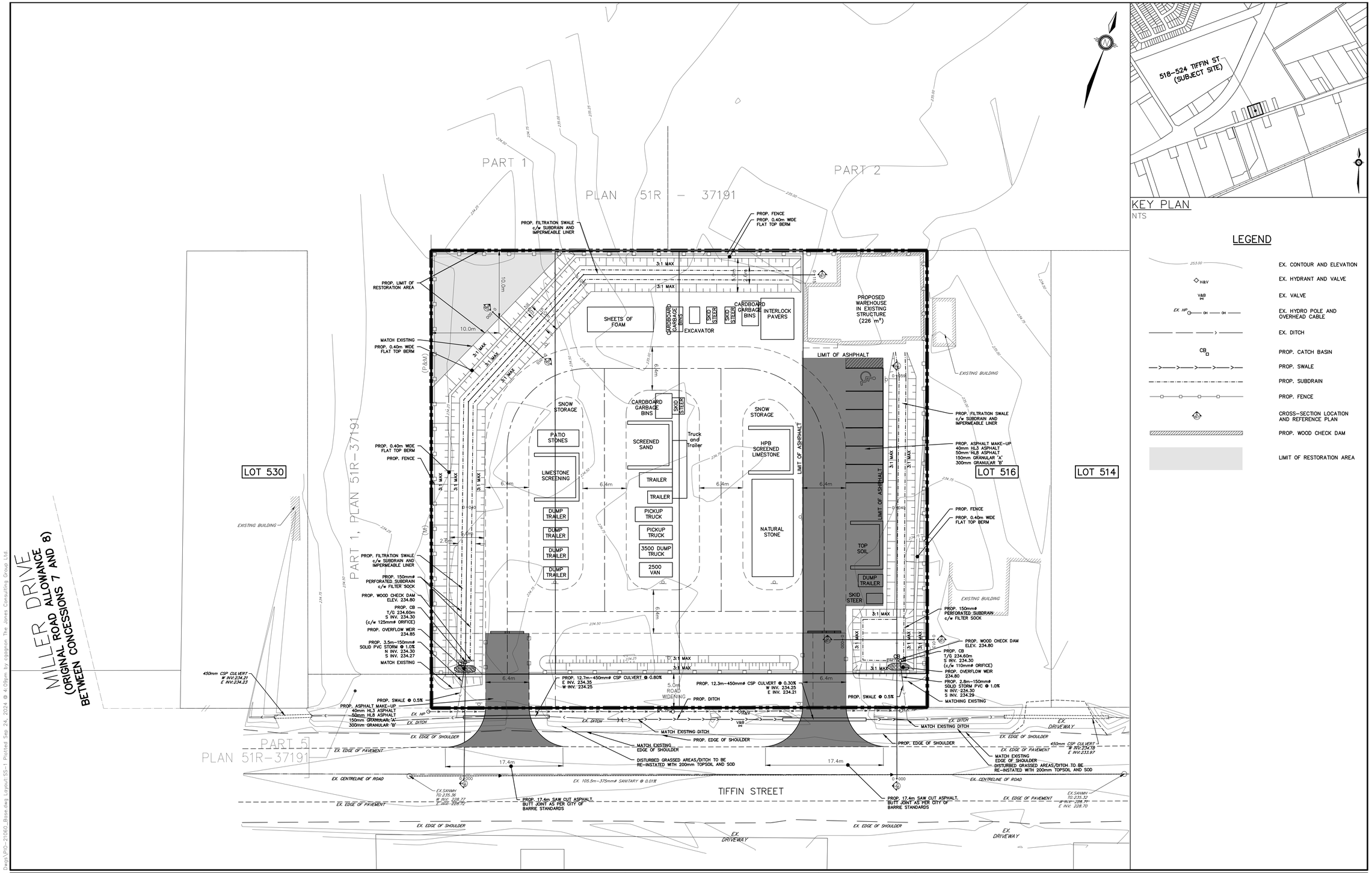
PIONEER FAMILY POOLS INC.
518–524 TIFFIN STREET
BARRIE, ONTARIO

SITE GRADING PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1056

DESIGN	CG	SCALE: 1:250	DATE FEB 2022
DRAWN	CG	PROJECT PIO–21060	DWG. Nº SG–1
CHECKED	JWI		

G:\Eng_3D\PIO–21060\Design Data\PIO–21060_Base.dwg Layout:SG–1 Plotted Sep 24, 2024 @ 4:08pm by cgagnon The Jones Consulting Group Ltd



KEY PLAN
NTS

LEGEND

- EX. CONTOUR AND ELEVATION
- EX. HYDRANT AND VALVE
- EX. VALVE
- EX. HYDRO POLE AND OVERHEAD CABLE
- EX. DITCH
- PROP. CATCH BASIN
- PROP. SWALE
- PROP. SUBDRAIN
- PROP. FENCE
- CROSS–SECTION LOCATION AND REFERENCE PLAN
- PROP. WOOD CHECK DAM
- LIMIT OF RESTORATION AREA

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 155861oPo.
LOT 9 REGISTERED PLAN 51M–378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY. 400 AND HWY 27 (ESSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONOUTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV.239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 40 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 6.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE SIDEWALK AND THE ROADWAY, SIDEWALK END OF A HYDRO ANCHOR, NOTE A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
4.	THIRD SUBMISSION	SEP 2024	JWI
3.	SECOND SUBMISSION	APR 2023	JWI
2.	OPA AND ZBA SUBMISSION	APR 2022	NWB
1.	EXISTING SURVEY	DEC 2021	NWB

LICENSED PROFESSIONAL ENGINEER
J. W. INGRAM
100143779
24-09-24
PROVINCE OF ONTARIO

PIONEER FAMILY POOLS INC.
518–524 TIFFIN STREET
BARRIE, ONTARIO

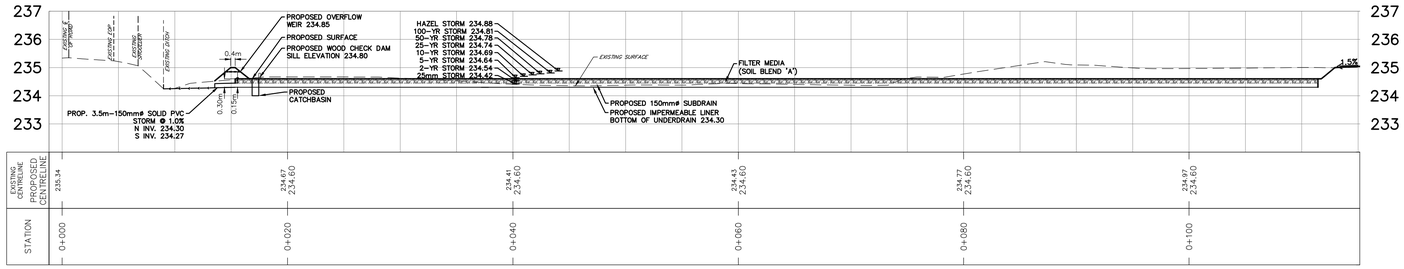
SITE SERVICING PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
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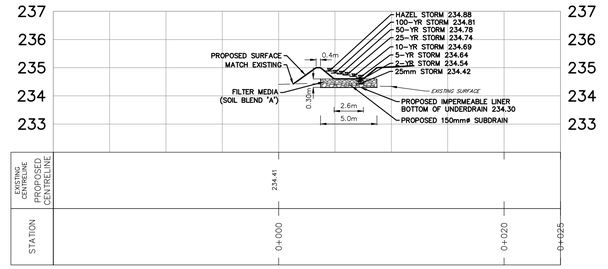
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DRAWN	CG	PROJECT	DWG. Nº	
CHECKED	JWI	PIO–21060	SS–1	

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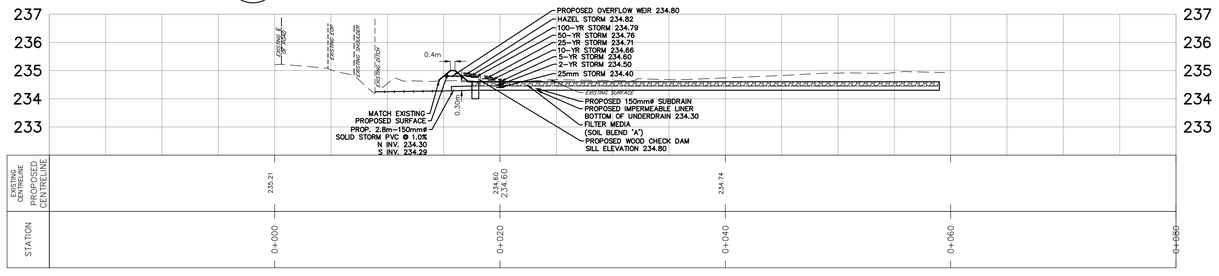
A SG-1 FILTRATION SWALE (WEST) NORTH–SOUTH CROSS SECTION



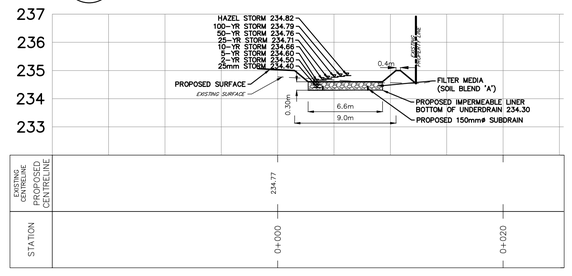
B SG-1 FILTRATION SWALE (SWALE) EAST–WEST CROSS SECTION



C SG-1 FILTRATION SWALE (EAST) NORTH–SOUTH CROSS SECTION



D SG-1 FILTRATION SWALE (EAST) EAST–WEST CROSS SECTION



LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 15586ToPo.
LOT 9 REGISTERED PLAN 51M–378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY 400 AND HWY 27 (OSSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE, TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONCRETE ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV. 239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISION BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE ROADWAY 90 LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 8.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR. NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
4.	THIRD SUBMISSION	SEP 2024	JWI
3.	SECOND SUBMISSION	APR 2023	JWI
2.	OPA AND ZBA SUBMISSION	APR 2022	NWB
1.	EXISTING SURVEY	DEC 2021	NWB

LICENCED PROFESSIONAL ENGINEER
J. W. INGRAM
100145779
24-09-24
PROVINCE OF ONTARIO

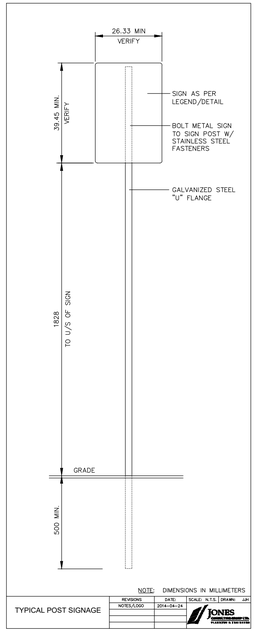
PIONEER FAMILY POOLS INC.
518–524 TIFFIN STREET
BARRIE, ONTARIO

LID CROSS–SECTION PLAN

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS
229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
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DESIGN	CG	SCALE: H 1:250 V 1:100	DATE FEB 2023
DRAWN	CG	PROJECT PIO–21060	DWG. Nº CS–1
CHECKED	JWI		

G:\Eng_3D\PIO–21060\Design Data\PIO–21060_Base.dwg Layout:CS–1 Plotted Sep 24, 2024 @ 2:47pm by cgagnon The Jones Consulting Group Ltd

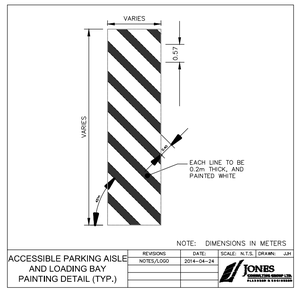


NOTE: DIMENSIONS IN MILLIMETERS

TYPICAL POST SIGNAGE

REVISIONS	DATE:	SCALE: N.T.S.	DRAWN: AJH
NOTES/LOGO	2014-04-24		

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS

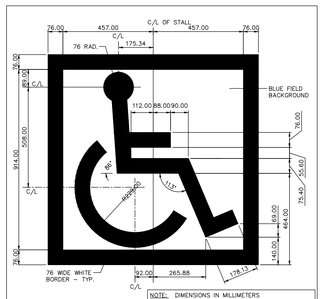


NOTE: DIMENSIONS IN METERS

ACCESSIBLE PARKING AISLE AND LOADING BAY PAINTING DETAIL (TYP.)

REVISIONS	DATE:	SCALE: N.T.S.	DRAWN: JJH
NOTES/LOGO	2014-04-24		

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS

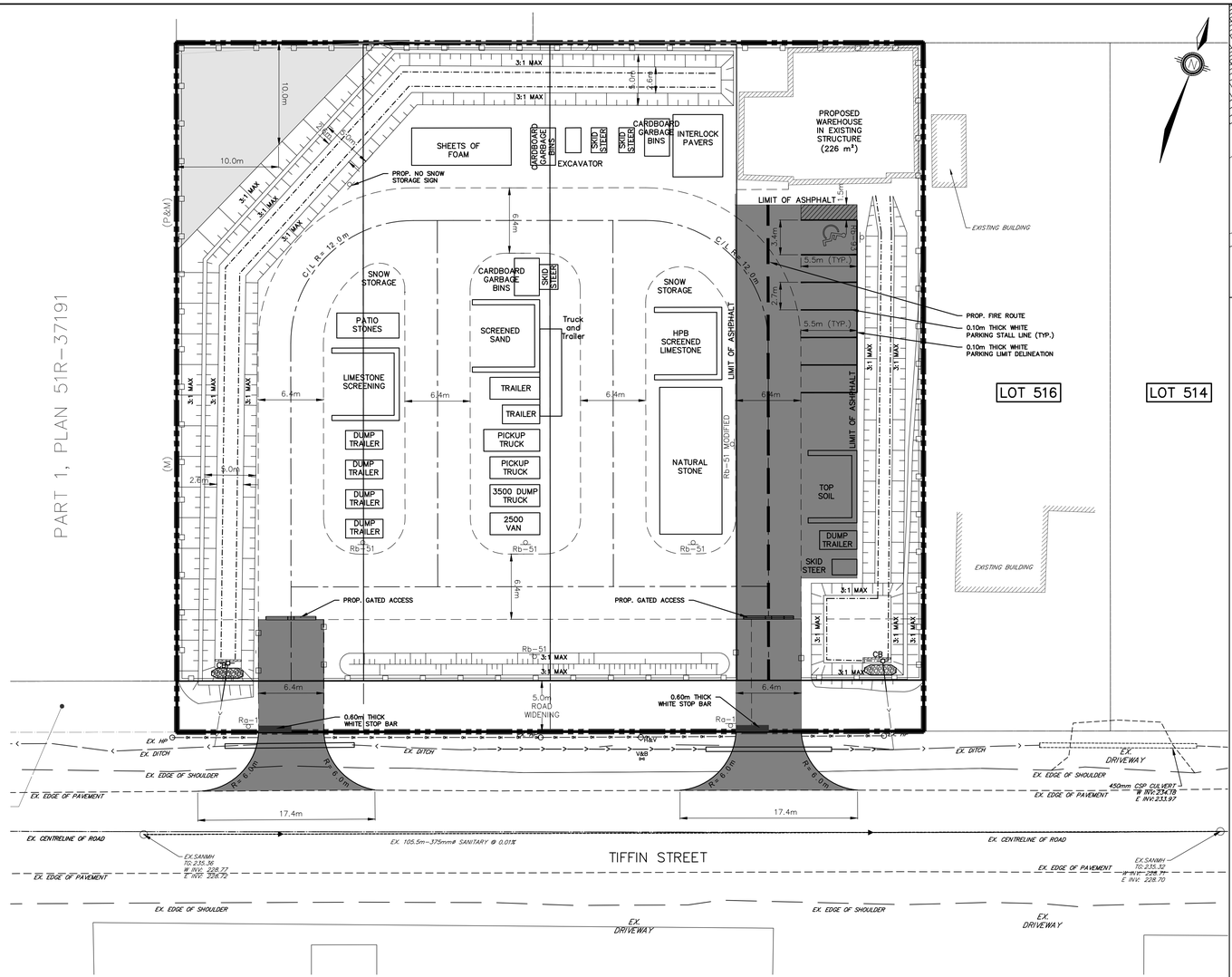


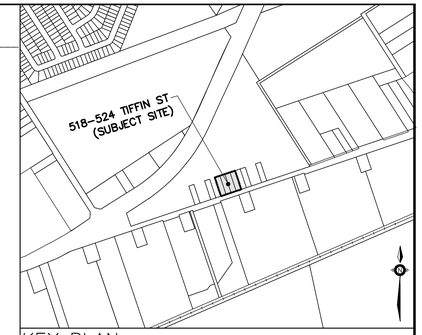
NOTE: DIMENSIONS IN MILLIMETERS
PROVIDE AT EACH BARRIER FREE PARKING STALL (S)

ACCESSIBLE PARKING STALL PAINT MARKING

REVISIONS	DATE:	SCALE: N.T.S.	DRAWN: JJH
NOTES/LOGO	2014-04-24		

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS





KEY PLAN
NTS

LEGEND

H&V	EX. HYDRANT AND VALVE
V&B	EX. VALVE
EX. HP — OH — OH	EX. HYDRO POLE AND OVERHEAD CABLEVE
	EX. DITCH
CB	PROP. CATCH BASIN
	PROP. SWALE
	PROP. SUBDRAIN
	PROP. FENCE
	PROP. WOOD CHECK DAM
STOP	PROP. STOP SIGN Ra-1
FIRE ROUTE	PROP. NO PARKING – FIRE ROUTE MODIFIED Rb-51
BY PERMIT ONLY	PROP. ACCESSIBLE PARKING BY PERMIT ONLY RB-93
	PROP. NO PARKING Rb-51
	PROP. SOLID WHITE, 10cm THICK
	PROP. STOP BAR, 60cm THICK
	LIMIT OF RESTORATION AREA

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 155861oPo.
LOT 9 REGISTERED PLAN 51M-378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY 400 AND HWY 27 (OSSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONOUTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE
ELEV.239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION: PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL.
ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.0 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 6.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE CURB LINE AND THE SIDEWALK AT THE END OF A HYDRO ANCHOR, NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

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4.	THIRD SUBMISSION	SEP 2024	JWI
3.	SECOND SUBMISSION	APR 2023	JWI
2.	OPA AND ZBA SUBMISSION	APR 2022	NWB
1.	EXISTING SURVEY	DEC 2021	NWB

LICENSED PROFESSIONAL ENGINEER
J. W. INGRAM
100143779
24-09-24
PROVINCE OF ONTARIO

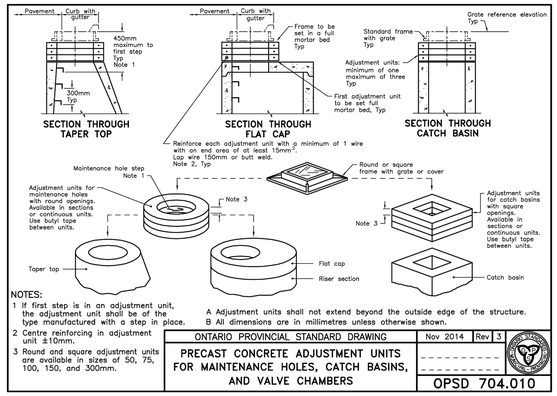
PIONEER FAMILY POOLS INC.
518-524 TIFFIN STREET
BARRIE, ONTARIO

PAVEMENT MARKING AND SIGNAGE PLAN

JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS
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DESIGN	CG	SCALE: 1:250	DATE JULY 2024
DRAWN	CG	PROJECT PIO-21060	DWG. Nº PM-1
CHECKED	JWI		

G:\Eng_3D\PIO-21060\Design Dwgs\PIO-21060_Base.dwg, Layout: PM-1 Plotted: Sep 24, 2024 @ 4:09pm by cgagnon The Jones Consulting Group Ltd.

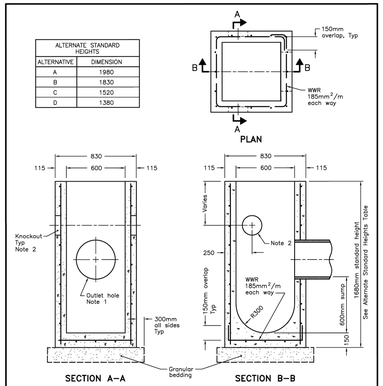


NOTES:

1 If first step is in an adjustment unit, the adjustment unit shall be of the type manufactured with a step in place.
2 Centre reinforcing in adjustment unit ±10mm.
3 Round and square adjustment units are available in sizes of 50, 75, 100, 150, and 300mm.

A Adjustment units shall not extend beyond the outside edge of the structure.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 3
PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS		
	OPSD 704.010	

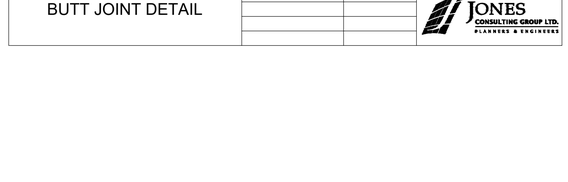


ALTERNATE STANDARD HEIGHTS	
ALTERNATIVE	DIMENSION
A	1980
B	1830
C	1520
D	1380

NOTES:

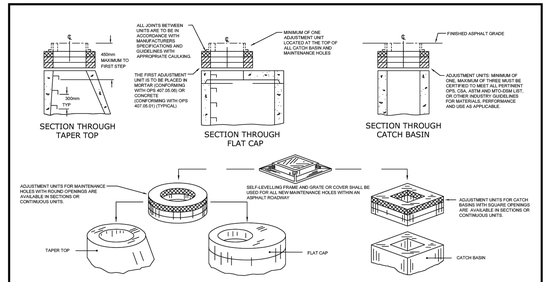
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2019	Rev 4
PRECAST CONCRETE CATCH BASIN 600x600mm		
	OPSD 705.010	



BUTT JOINT DETAIL

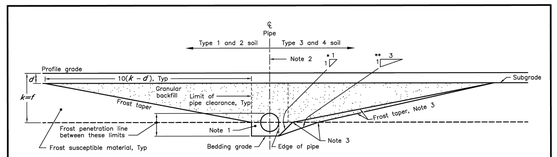
REVISIONS	DATE:	SCALE: N.T.S.	DRAWN: JJH
		JONES CONSULTING GROUP LTD. PLANNERS & ENGINEERS	



NOTES:

1. ADJUSTMENT UNITS SHALL NOT EXTEND BEYOND THE OUTSIDE EDGE OF THE STRUCTURE.
2. MAINTENANCE HOLE TOPS (FRAMES) ARE TO BE SET IN BASE ASPHALT GRADE AND THEN ADJUSTED TO FINAL GRADE WHEN TOP LIFT OF ASPHALT IS PLACED.
3. ADJUSTMENT UNITS SHALL BE CONCENTRIC WITH THE RISER.
4. IF A STEP IS REQUIRED IN AN ADJUSTMENT UNIT, THEN THE ADJUSTMENT UNIT SHALL BE OF THE TYPE MANUFACTURED WITH A STEP IN PLACE.

Barrie	Maintenance Hole and Catch Basin Grade Adjustment	REV No. 5	DATE: APR 2023
			SCALE: N.T.S
		S606	



FROST TREATMENT
RIGID AND FLEXIBLE PIPE

NOTES:

1 Pipe embedment or bedding, cover, and backfill shall be according to:
  a) Flexible OPSD 802.010, 802.013, 802.014, 802.020, 802.023, and 802.024.
  b) Rigid – OPSD 802.030, 802.031, 802.032, 802.033, 802.034, 802.050, 802.051, 802.052, 802.053, and 802.054.
2 Condition of frost treatment symmetrical about centreline of pipe.
3 Frost tapers shall start at the intersection of the 1H:1V or 3H:1V slope and the frost penetration line.
A Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.

LEGEND:

d' – depth of roadbed granular
k – depth of frost treatment below profile grade
f – depth of frost penetration below profile grade
* – Type 3 soil
** – Type 4 soil

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 4
FROST TREATMENT – PIPE CULVERTS FROST PENETRATION LINE BETWEEN TOP OF PIPE AND BEDDING GRADE		
	OPSD 803.031	

LEGAL AND TOPOGRAPHICAL

LEGAL AND TOPOGRAPHICAL INFORMATION TAKEN FROM RUDY MAK FILE No. 155861oPo.
LOT 9 REGISTERED PLAN 51M–378, CITY OF BARRIE, COUNTY OF SIMCOE.

BENCHMARK:

VERTICAL CONTROL #1: CONCRETE BRIDGE CARRYING HWY 400 OVER TIFFIN STREET, 1.2 KM NORTH OF HWY. 400 AND HWY 27 (OSSA RD) INTERCHANGE AND 1.2 KM SOUTH OF HWY 400 AND 90 (DUNLOP ST) INTERCHANGE. TABLET IS SET HORIZONTALLY IN EAST FACE OF NORTH CONOUTH ON N.E. CORNER, 18cm BELOW TOP OF COPING AND 7.3m EAST OF CENTERLINE OF HWY 400 NORTHBOUND LANE ELEV.239.923

VERTICAL CONTROL #2: PROVISIONAL DESCRIPTION PROVISON BARRIE BRIDGE CARRYING ACCESS TO HIGHWAY NO. 90 WEST TO ANGUS FOR NORTHBOUND TRAFFIC OVER HIGHWAY NO. 400, TABLET SET HORIZONTALLY IN EAST FACE OF WEST WALL, 18.4 M NORTH OF SOUTHEAST CORNER, 24 CM ABOVE HIGHWAY NO. 400 LEVEL. ELEV. 232.039

HORIZONTAL CONTROL #1: BARRIE – CONCRETE PIER ON SOUTHWEST SIDE OF TIFFIN STREET, APPROXIMATELY 45 M NORTHWEST OF LANEWAY TO RESIDENCE, 2.6 M SOUTHEAST OF A "ONE WAY DO NOT ENTER" SIGN, 4.8 M NORTHWEST OF A DIAMOND SHAPED CHECKERBOARD TRAFFIC SIGN, 6.6 M SOUTH OF CATCH BASIN BETWEEN TIFFIN STREET AND EXIT RAMP FROM HIGHWAY NO. 20 TO TIFFIN STREET, TABLET IN TOP. ESTABLISHED BY TOPOGRAPHICAL SURVEY.

HORIZONTAL #2: LOCATED ON THE NORTH SIDE OF TIFFIN STREET AT PATTERSON ROAD BETWEEN THE SIDEWALK AND THE BOULEVARD, 1.5 M SOUTHEAST OF A HYDRO ANCHOR, NOTE: A PROTECTIVE WATER VALVE COVER HAS BEEN PLACED OVER MONUMENT CAP.

NO.	REVISIONS	DATE	INITIAL
1.	THIRD SUBMISSION	SEP 2024	JWI

LICENSED PROFESSIONAL ENGINEER
J. W. INGRAM
100143779
24-09-24
PROVINCE OF ONTARIO

PIONEER FAMILY POOLS INC.
518–524 TIFFIN STREET
BARRIE, ONTARIO

STANDARD DETAILS

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