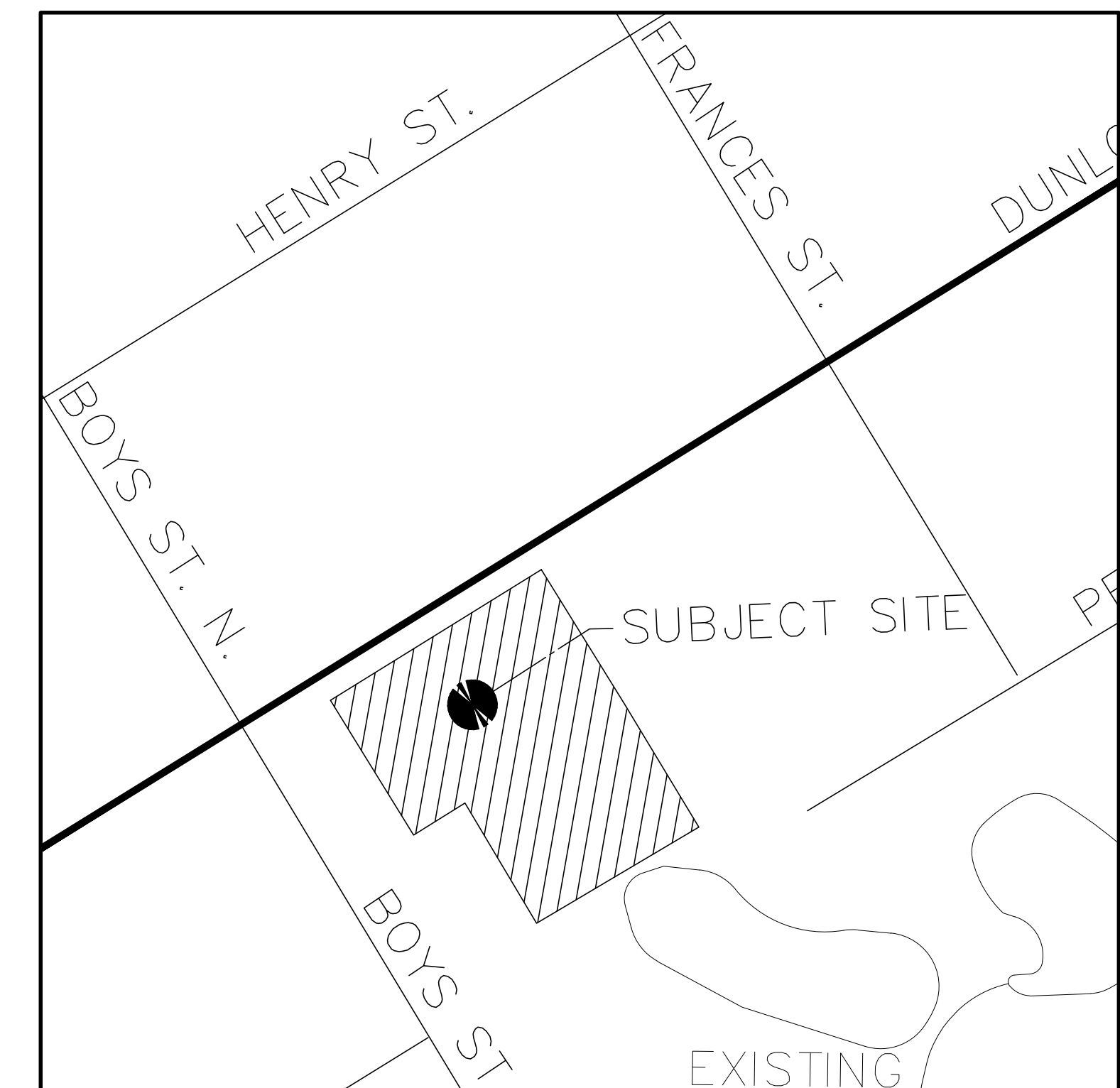


12081.01
GRAY - APARTMENT BUILDING
233, 237, 241, & 245 DUNLOP STREET WEST
BARRIE, ONTARIO

DRAWING LIST

ND-1	NOTES AND DETAILS
ND-2	NOTES AND DETAILS
SS-1	SITE SERVICING PLAN
SG-1	SITE GRADING PLAN
STM-1	PRE-DEVELOPMENT STORM CATCHMENT PLAN
STM-2	POST-DEVELOPMENT STORM CATCHMENT PLAN
PS-1	SITE PARKING AND SIGNAGE PLAN
EPR-1	ENVIRONMENTAL PROTECTION AND REMOVALS PLAN



MUNICIPALITY

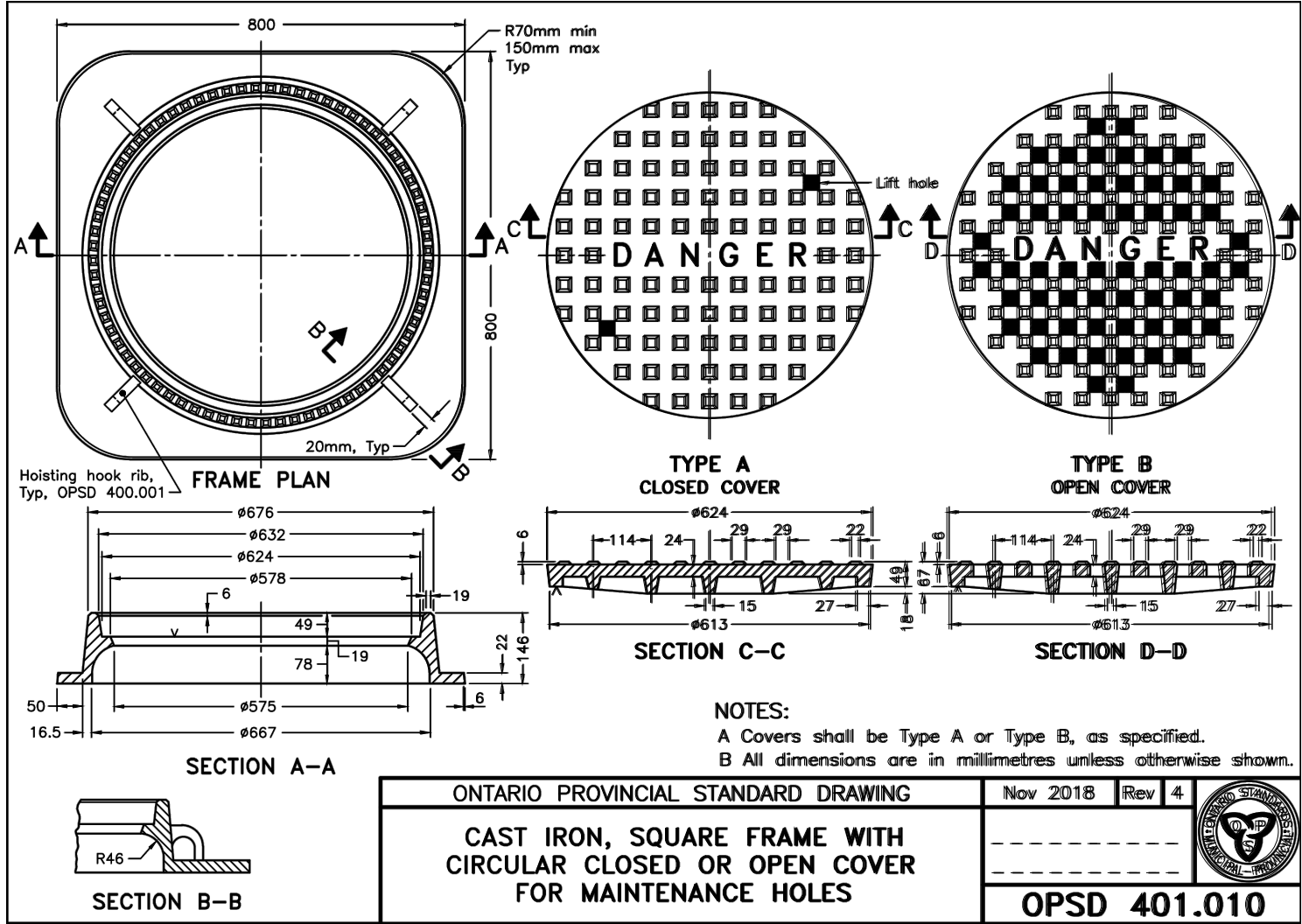
CITY OF BARRIE
70 COLLIER ST.
BARRIE, ON
L4M 4T5

CLIENT

MDM DEVELOPMENTS
190 HOTCHKISS ST.
GRAVENHURST, ON
P1P 1H6



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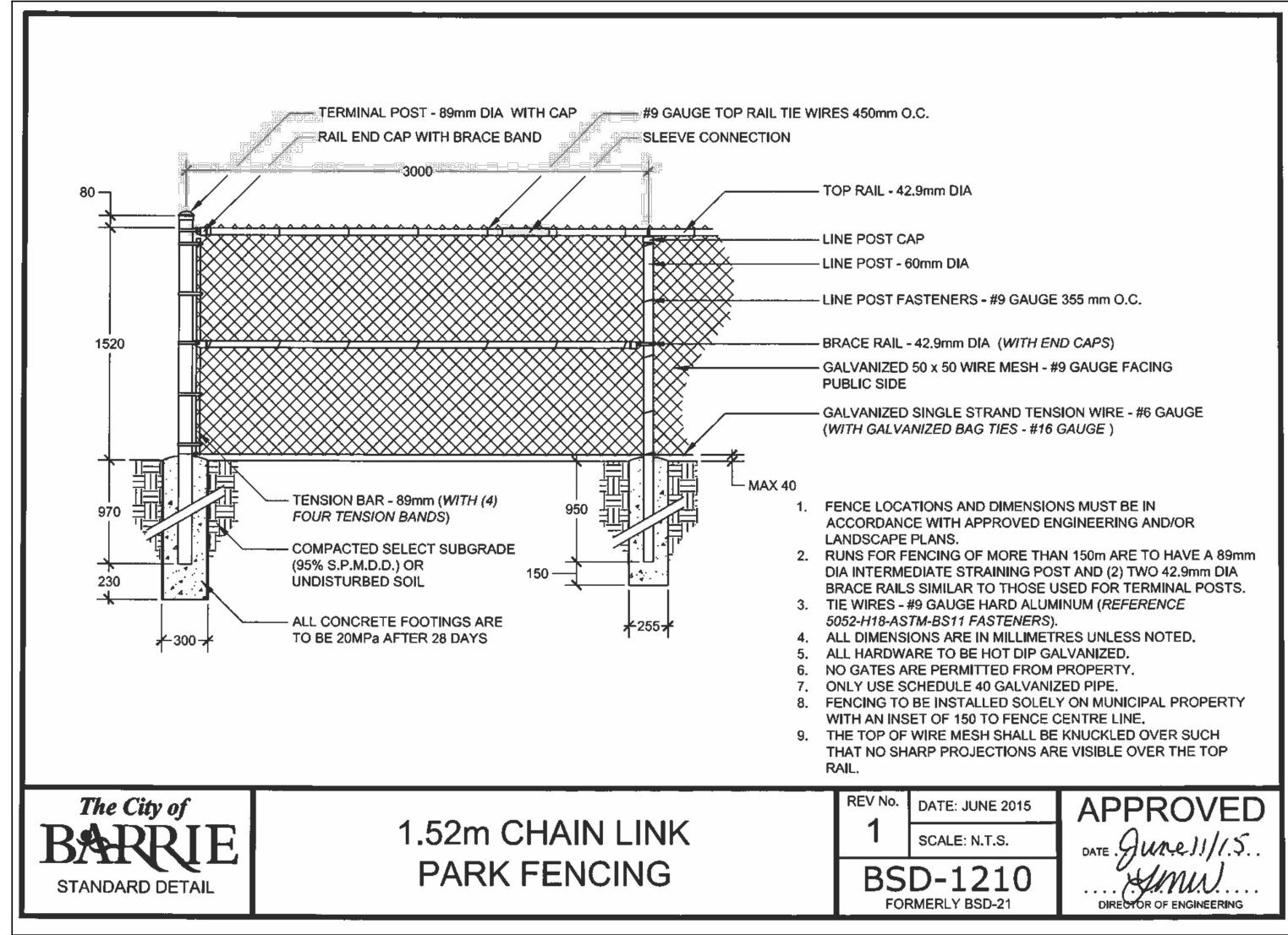
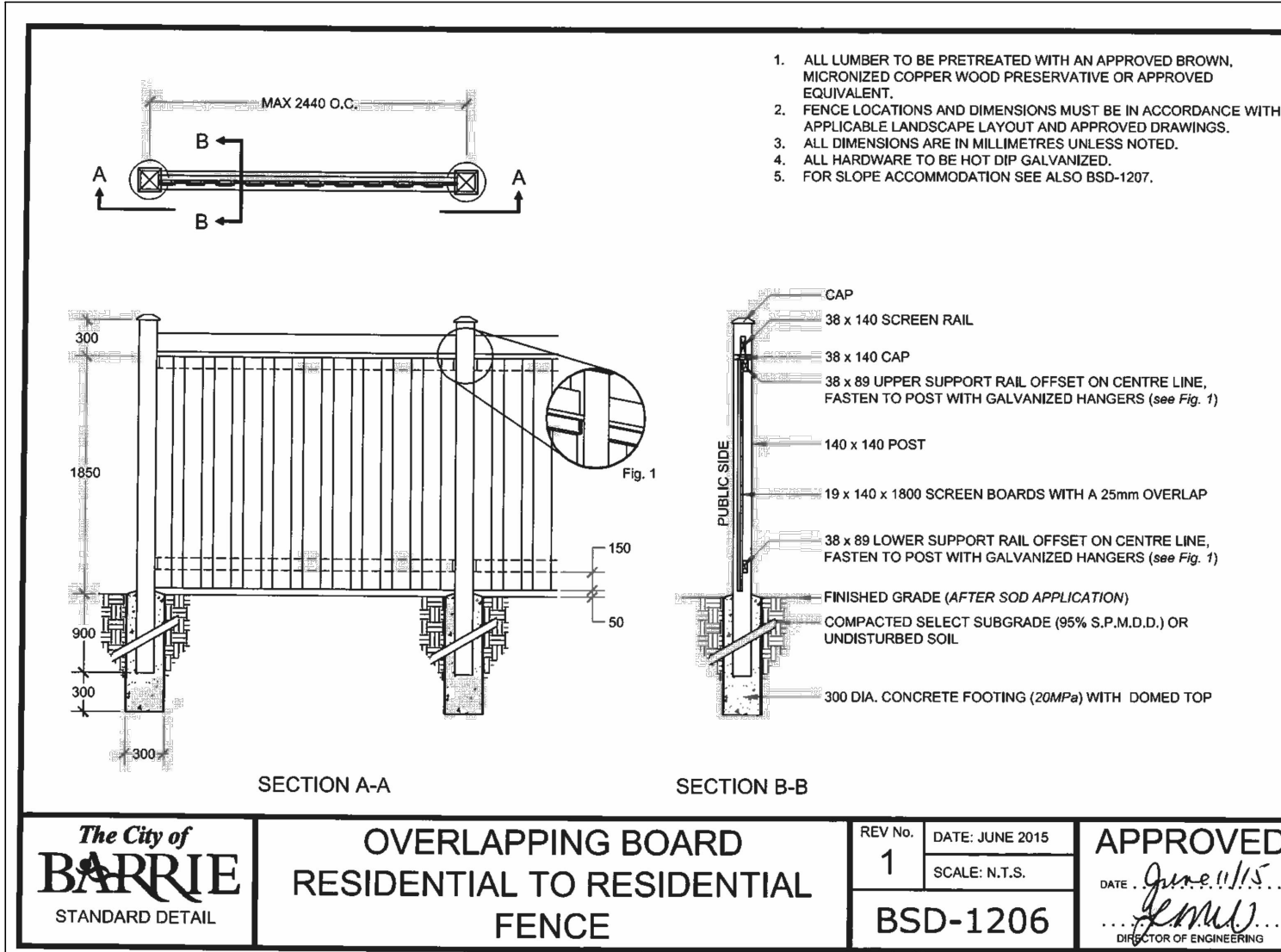
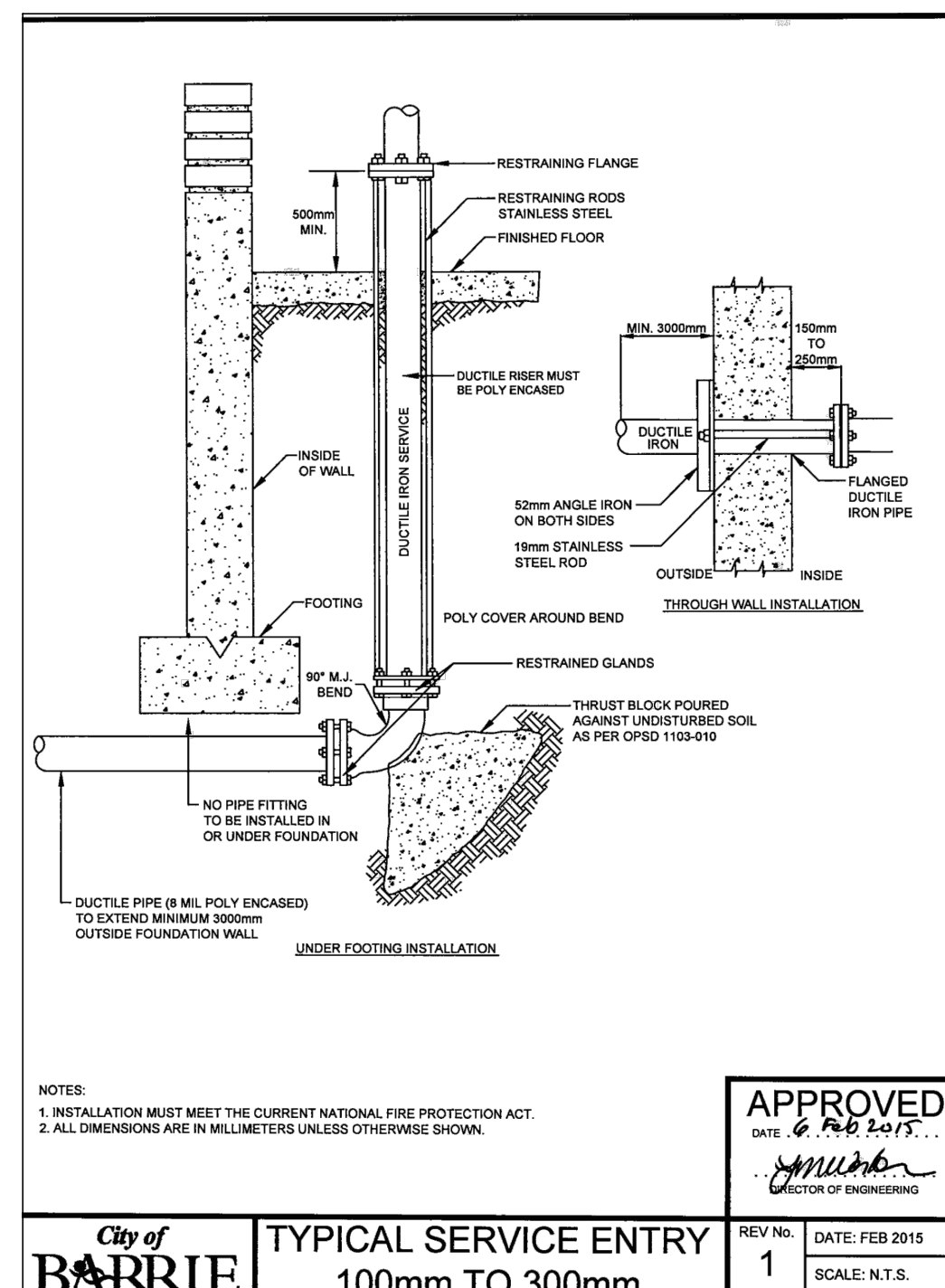
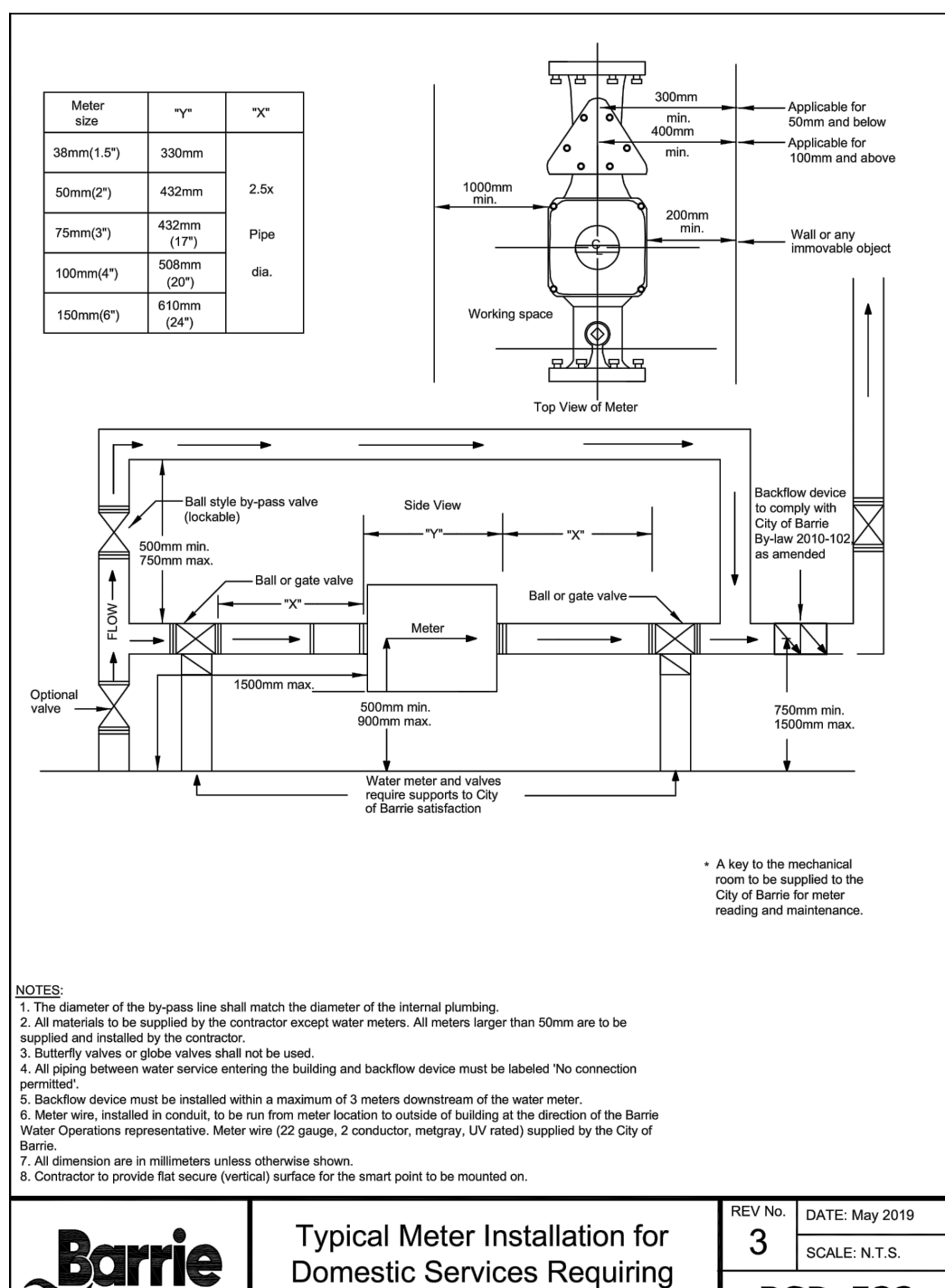
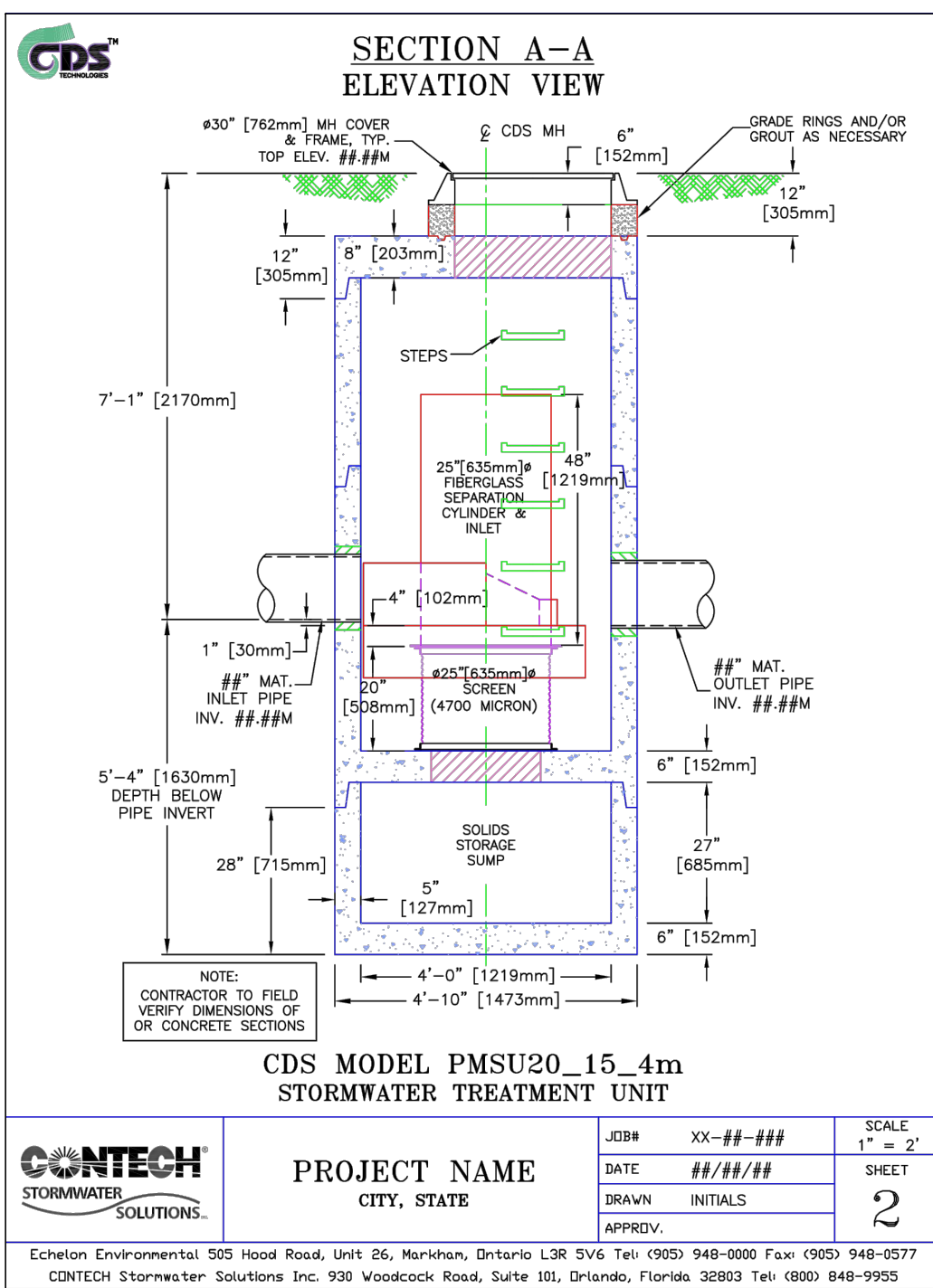
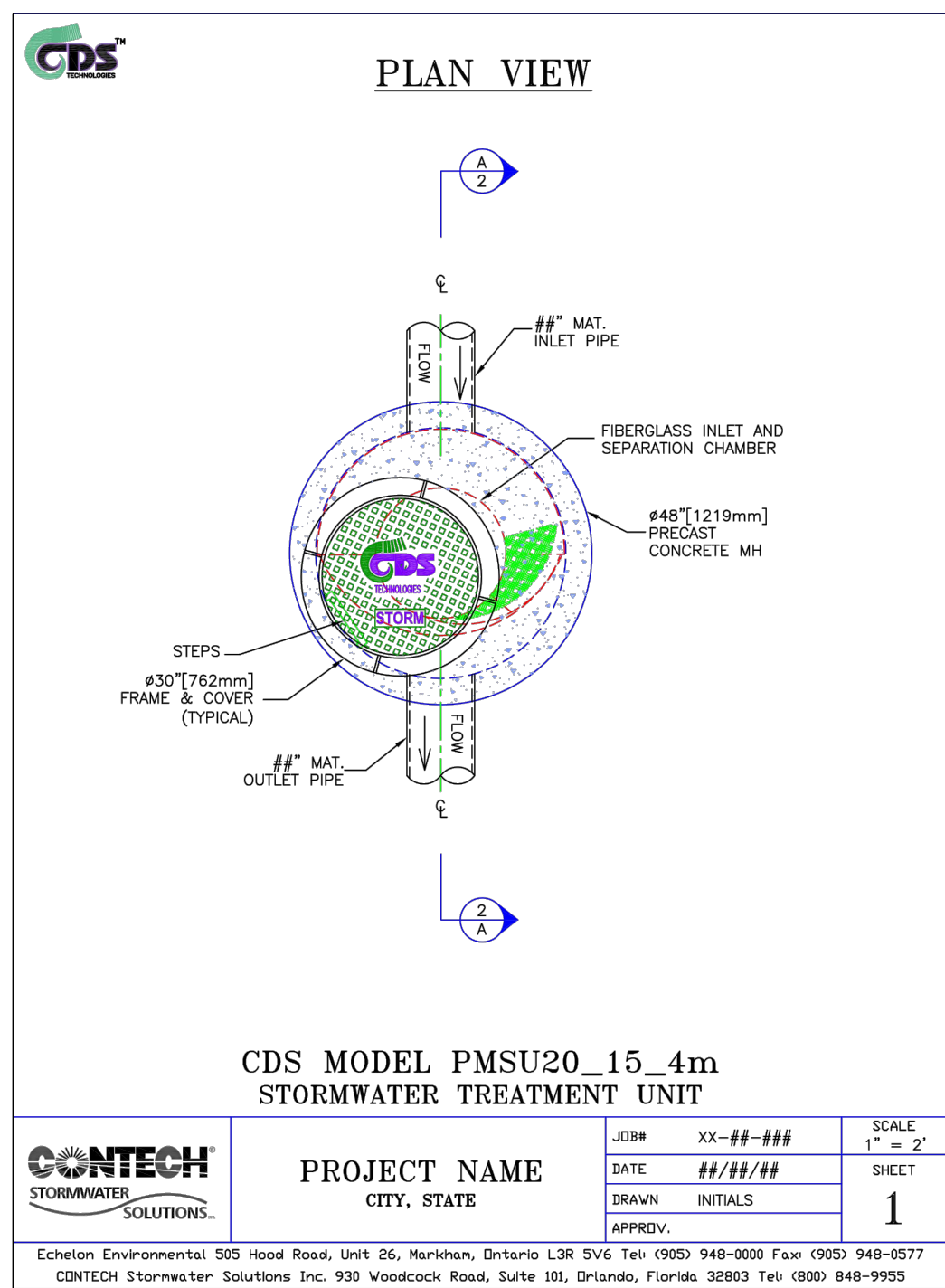
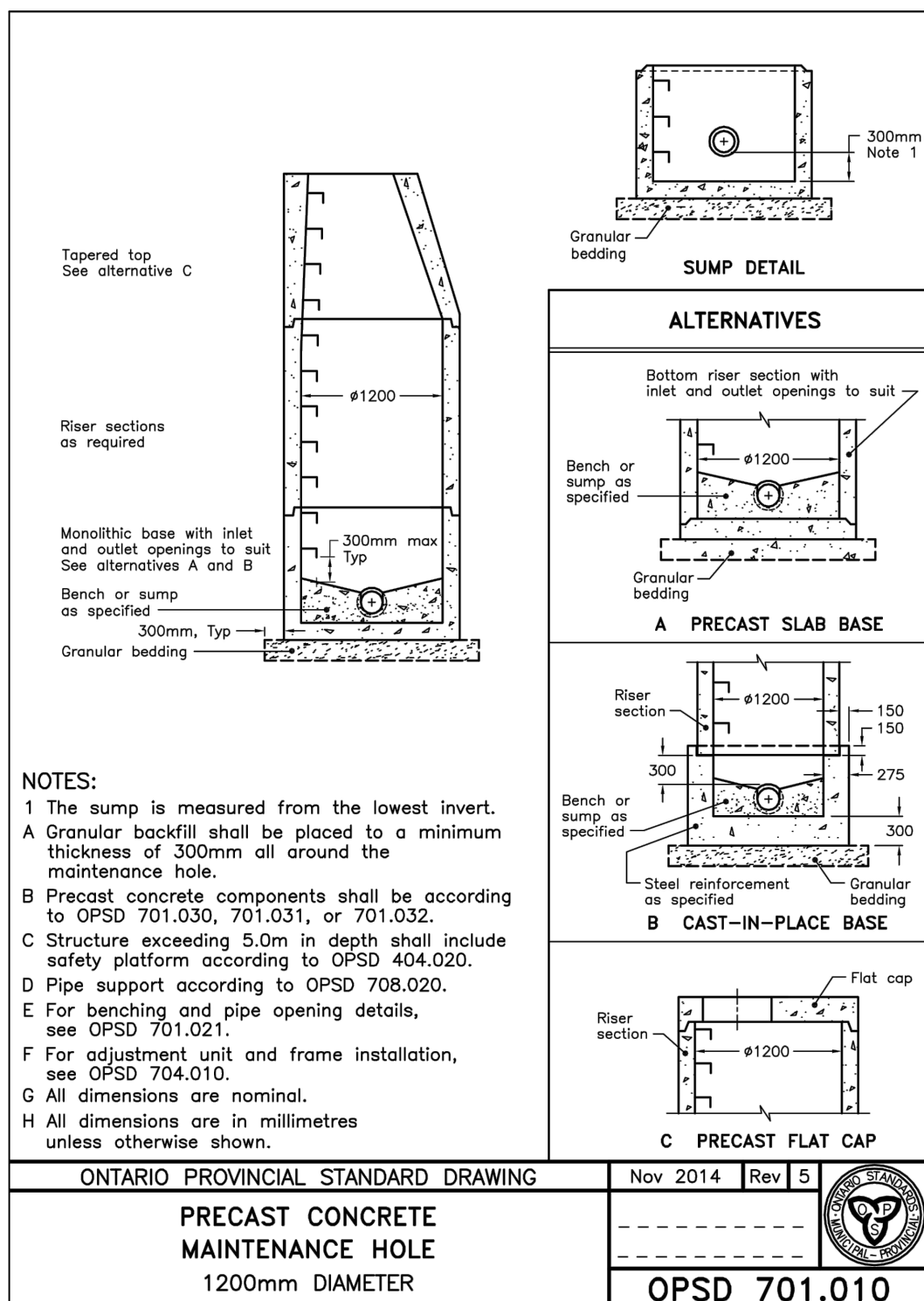
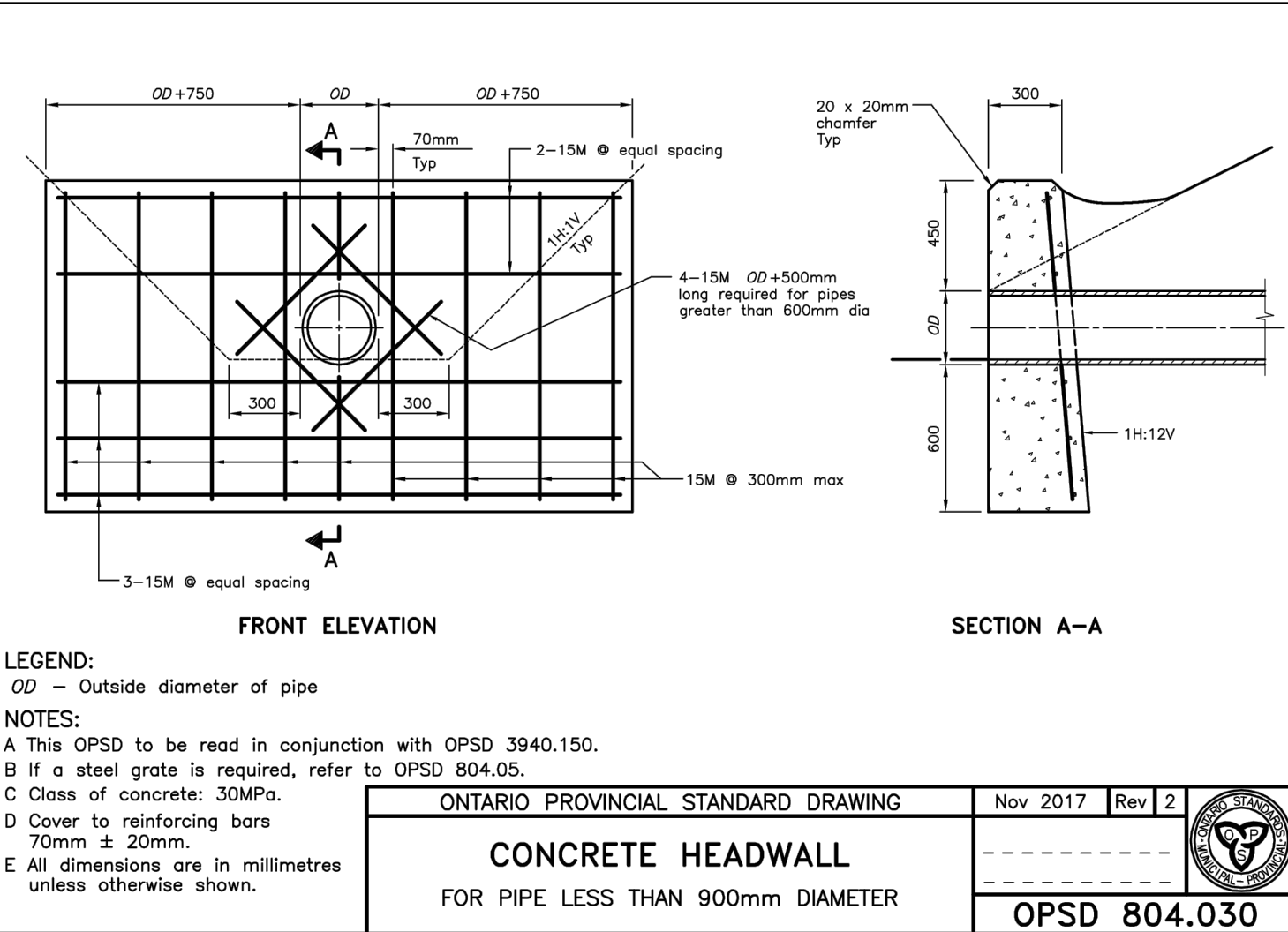
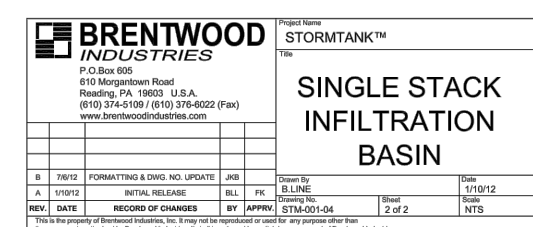
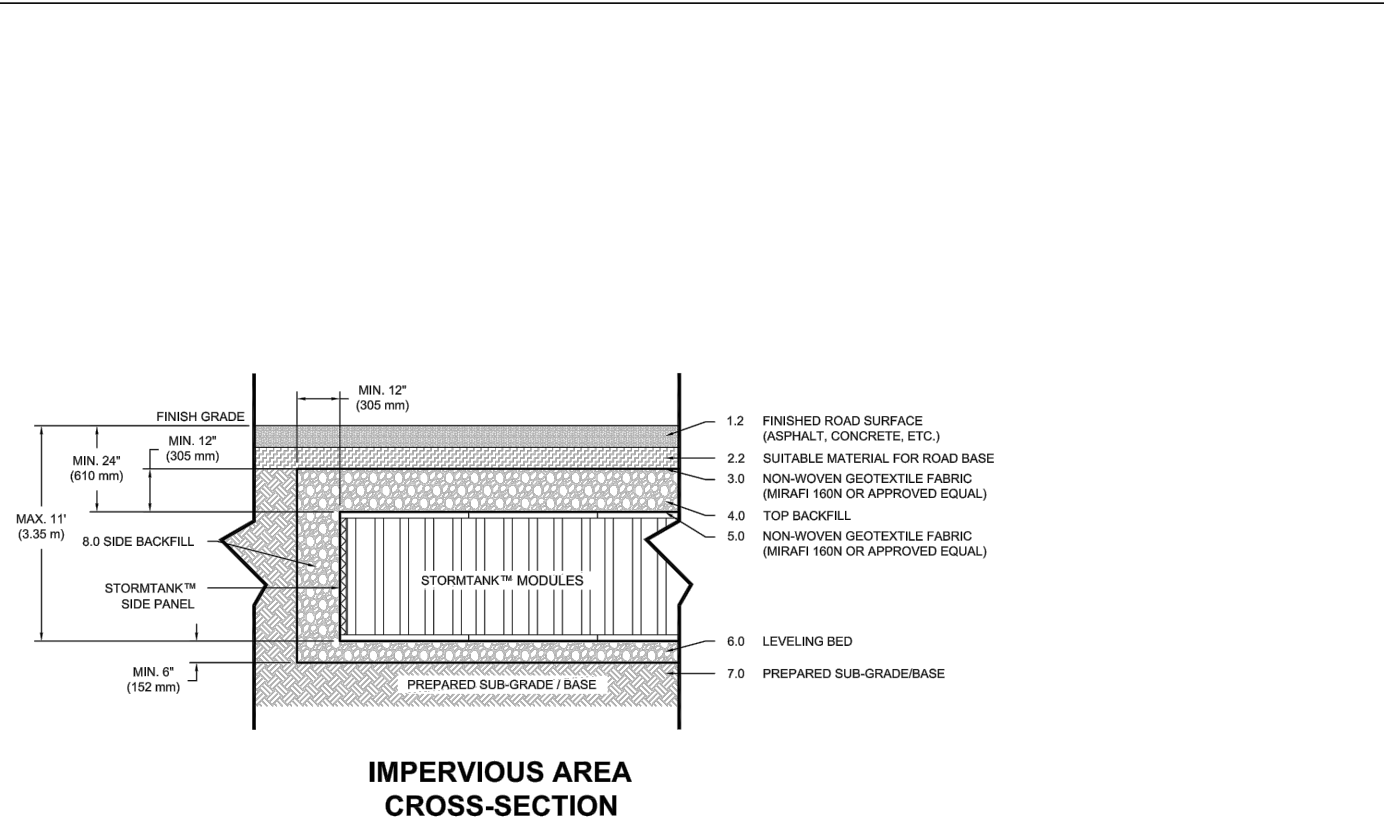
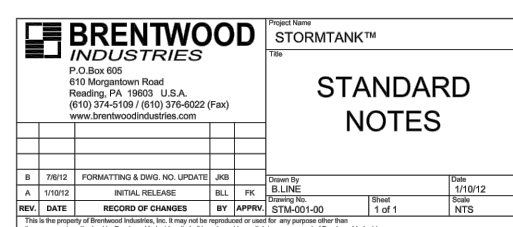
- CROSS SECTION NOTES:**
1. FINISHED VEGETATED COVER
 2. FINISHED ROAD SURFACE (ASPHALT, CONCRETE, ETC.)
 3. TOP COVER
 4. TOP BACKFILL
 5. NON-WOVEN GEOTEXTILE FABRIC (BRIAR 110N OR APPROVED EQUAL): COMPLETE WRAP ISOLATING SOIL TO STONE INTERFACE
 6. LEVELING BED
 7. PREPARED SUB-GRADE (BASE)
 8. SIDE BACKFILL
 9. STAKING PINS

ASSEMBLY NOTES:

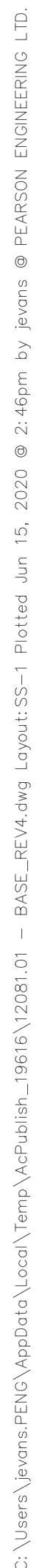
- GENERAL NOTES:**
1. ENGINEER OF RECORD TO SPECIFY SUB-GRADE DESIGN AND VERIFY THAT SUB-GRADE BEARING CAPACITY MEETS OR EXCEEDS THE REQUIRED SOIL BEARING CAPACITY OF THE STORMTANK™ SYSTEM FOR ALL SATURATION CONDITIONS FOR THE PROJECT. DESIGN TO BE BASED ON REFERENCED BENTWOOD DOCUMENT "REQUIRED SOIL BEARING CAPACITY" TABLES.
 2. ENGINEER OF RECORD TO CONFIRM CONFORMANCE TO MANUFACTURER'S ALLOWABLE PROXIMITY TO OTHER STRUCTURES.
 3. A VIBRATORY ROLLER MAY ONLY BE USED IF THE COMPACTED BACKFILL IS GREATER THAN 24" (610 mm) THICK OR FOR ASPHALT INSTALLATION.
 4. FOR DETAILED INSTALLATION INSTRUCTIONS, REFER TO BENTWOOD DOCUMENT "SITE PREPARATION AND INSTALLATION INSTRUCTIONS".

GENERAL NOTES:

- ASSEMBLY INSTRUCTIONS:**
1. PLACE PLATE ON A FIRM, LEVEL SURFACE AND INSERT THE BEVIT (8 COLUMNS INTO THE PLATE RESEVER CUPS. FIRMLY TAP EACH COLUMN WITH A RUBBER Mallet TO ENSURE THE COLUMN IS SEATED.
 2. PLACE A SECOND PLATE ON A FIRM, LEVEL SURFACE. FLIP THE PREVIOUSLY ASSEMBLED COMPONENTS UPSE DOWN ONTO THE SECOND PLATE, ALIGNING THE COLUMNS INTO THE PLATE RESEVER CUPS.
 3. ONCE ALIGNED, SEAT THE TOP ASSEMBLY BY ALTERNATING TAPS, WITH A RUBBER Mallet AT EACH STRUCTURAL COLUMN UNTIL ALL COLUMNS ARE FIRMLY SEATED.
 4. IF SIDE PANELS ARE REQUIRED, FIRMLY TAP THE TOP PLATE UPWARD TO RAISE THE TOP PLATE, INSERT THE SIDE PANEL INTO THE BOTTOM PLATE.
 5. ALONG THE TOP OF THE SIDE PANEL WITH THE TOP PLATE AND FIRMLY SEAT THE TOP PLATE USING LONG A RUBBER Mallet.



				BENCHMARK:			
				HORIZONTAL			
4.				ISSUED FOR TENDER			
06/15/20				JPE			
3.				ISSUED FOR APPROVAL			
03/12/20				JPE			
2.				AS PER LSRCA COMMENTS			
02/20/20				JPE			
1.				AS PER FIRST SUBMISSION COMMENTS			
10/02/19				JPE			
NO.				REVISION NOTE			
DATE				BY			



BENCHMARK:

HORIZONTAL

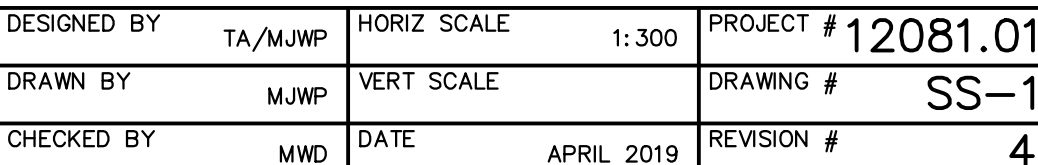
MTO MONUMENT 03120404023 MONUMENT CAP IS LOCATED ON THE NORTHEAST CORNER OF DUNLOP ST. W AND ECOLLES ST BETWEEN THE SIDEWALK AND THE PROPERTY LINE.

MTO MONUMENT 03120608022 MONUMENT CAP IS LOCATED ON THE SE CORNER OF INNISFILL ST AND ECOLLES ST 78.5M FROM CENTERLINE OF INNISFILL ST AND APPROXIMATELY 13M FROM CENTERLINE OF VESPRIA ST.

VERTICAL

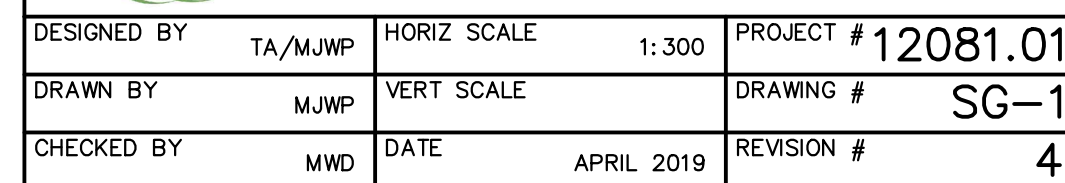
MTO MONUMENT 03193104455 ELEVATION 228.735 BARRIE FUNDAMENTAL BENCH-MARK IN QUEENS PARK, 12.2 M NORTHEAST OF CURB AT NORTHEAST SIDE OF PARKSIDE DRIVE, 1.8 M NORTHEAST OF BOUNDARY BETWEEN PARK AND DRILL HALL GROUNDS, TABLET IN TOP.

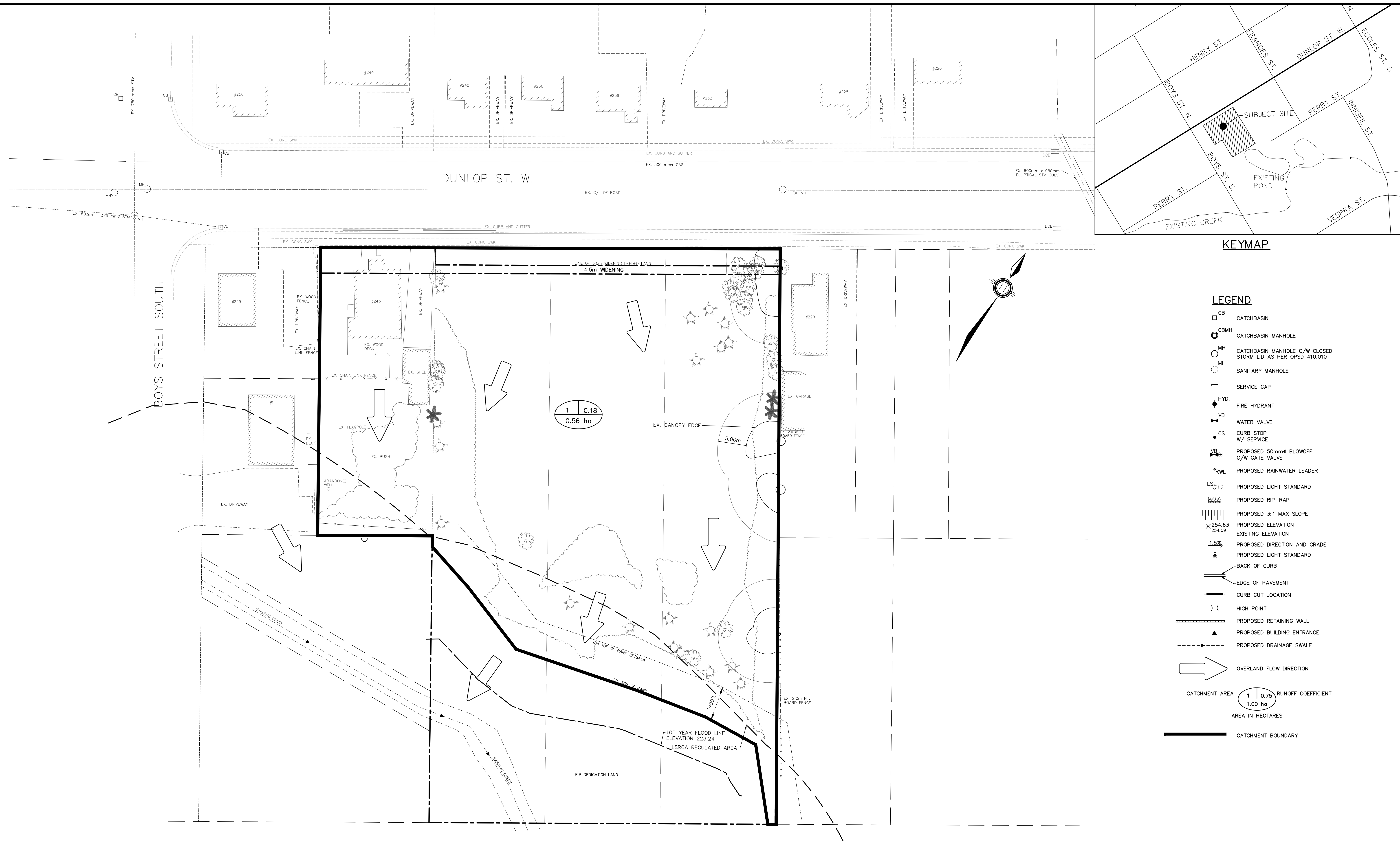
MTO MONUMENT 03193404119 ELEVATION 232.085 BARRIE FEDERAL BUILDING, AT CORNER OF COLLIER AND OWEN STREETS, TABLET IN EAST SIDE OF CONCRETE FOUNDATION WALL IN CENTRE OF NORTH SIDE OF LOT NOTICED IN WALL, 7.0 M NORTH OF SOUTHEAST CORNER OF BUILDING, 30 CM BELOW BRICK SIDING.





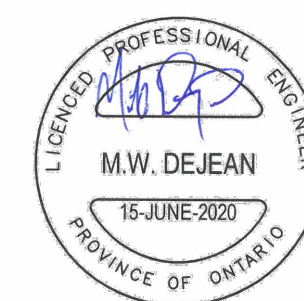
BENCHMARK:
HORIZONTAL
MTO MONUMENT 03120404022 MONUMENT CAP IS LOCATED ON THE NORTHEAST CORNER OF DUNLOP ST. W
AND ECOLLES ST BETWEEN THE SIDEWALK AND THE PROPERTY LINE.
MTO MONUMENT 0320080022 MONUMENT CAP IS LOCATED ON THE SE CORNER OF INNISFILL ST AND
EYEPRA. APPROXIMATELY 78.5M FROM ELEVATION OF INNISFILL ST AND APPROXIMATELY 13M FROM
CENTRELINE.
VERTICAL
MTO MONUMENT 011931044555 CENTRELINE 228.735 BARRIE FUNDAMENTAL BENCH-MARK IN QUEENS
PARK, 12.2 M NORTHEAST OF CURB AT NORTHEAST SIDE OF PARKSIDE DRIVE, 1.8 M NORTHEAST OF
SEPARATION BETWEEN PARK AND DRILL HALL GROUNDS, TABLET IN TOP.
MTO MONUMENT 01198408419 ELEVATION 232.085 BARRIE FEDERAL
BUILDING, AT CORNER OF COLLIER AND OWEN STREETS, TABLET IN EAST SIDE
OF CONCRETE FOUNDATION WALL. IN CENTRE OF EAST SIDE OF CONCRETE FOUNDATION WALL
IN WALL. 7.0 M NORTH OF SOUTHEAST CORNER OF BUILDING, 30 CM BELOW GRADE.





4.	ISSUED FOR TENDER	06/15/20	JPE
3.	ISSUED FOR APPROVAL	03/12/20	JPE
2.	AS PER LSRCA COMMENTS	02/20/20	JPE
1.	AS PER FIRST SUBMISSION COMMENTS	10/02/19	JPE
NO.	REVISION NOTE	DATE	BY

BENCHMARK:
HORIZONTAL
MTO MONUMENT 03120240023 MONUMENT CAP IS LOCATED ON THE NORTHEAST CORNER OF DUNLOP ST. W AND GIGLES ST. BETWEEN THE SIDEWALK AND THE PROPERTY LINE.
MTO MONUMENT 03120240022 MONUMENT CAP IS LOCATED ON THE SE CORNER OF INFNIL ST. AND VESPA ST. APPROXIMATELY 19.5M FROM CENTERLINE OF INFNIL ST. AND APPROXIMATELY 13M FROM CENTERLINE OF VESPA ST.
VERTICAL
MTO MONUMENT 03119314555 ELEVATION 228.753 BARRIE FUNDAMENTAL BENCH-MARK IN QUEENS PARK. 1.8 M NORTHEAST OF CURB AT NORTHEAST SIDE OF PARKSIDE DRIVE, 1.8 M NORTHEAST OF BOUNDARY BETWEEN PARK AND DRILL HALL GROUNDS, TABLET IN TOP.
1.4 M NORTHEAST OF MONUMENT 0311984119 ELEVATION 230.058 BARRIE FUND.
FOUNDATION, AT CORNER OF COLLIER AND OWEN STREETS, TABLET IN EAST SIDE
OF FOUNDATION WALL IN SHED. 1.4 M NORTHEAST OF MONUMENT 0311984119 ELEVATION 230.058 AT WALL, 7.0 M NORTH OF SOUTHEAST CORNER OF BUILDING, 3.0 CM BELOW BRICK SIDING.



MDM DEVELOPMENTS
233 DUNLOP STREET WEST
CITY OF BARRIE

PRE-DEVELOPMENT STORM
CATCHMENT PLAN



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DESIGNED BY	TA/MJWP	HORIZ SCALE	1:300	PROJECT #	12081.01
DRAWN BY	MJWP	VERT SCALE		DRAWING #	STM-1
CHECKED BY	MWD	DATE	APRIL 2019	REVISION #	4

P:\Autodesk Vault\Working Folder\2081.01 - Grey - 233 Dunlop St. Barrie\Engineering\2081.01 - BASE_REV4.dwg Layout-EP-1 Plotted Jul 20, 2020 @ 10:09pm by jevan @ PEARSON ENGINEERING LTD.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SEDIMENT CONTROL MEASURES SUCH AS SEDIMENT CONTROL FENCE, TEMPORARY PONDS, CONSTRUCTION ACCESS MATS, SEDIMENT TRAPS, SWALES AND CHECK DAMS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF SITE WORKS.

2. SEDIMENT CONTROLS SHOULD BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY SIGNIFICANT RAINFALL EVENT. REPAIRS TO ESC MEASURES MUST BE COMPLETED IN A TIMELY MANNER TO PREVENT SEDIMENT MIGRATION.

3. ADDITIONAL MATERIALS SUCH AS CLEAR STONE, FILTER FABRIC, PUMPS, HOSES AND SILTBOX TO BE KEPT ON SITE AT ALL TIMES FOR CONDUCTING REPAIRS TO SEDIMENT CONTROL MEASURES.

4. ALL DISTURBED AREAS LEFT INACTIVE FOR MORE THAN THIRTY DAYS ARE TO BE STABILIZED.

5. THE STABILIZATION SEED MIXTURE IS TO BE AS SPECIFIED ON THE EROSION AND SEDIMENT CONTROL PLAN.

6. THE STABILIZATION SEED MIXTURE IS TO BE APPLIED AT A MINIMUM RATE OF 25 kg/ha.

7. ENGINEERED CHANGES TO THE ESC MEASURES MAY BE NEEDED AS SITE CONDITIONS CHANGE THROUGHOUT THE CONSTRUCTION PROCESS. THESE UPDATES MUST REFLECT BEST MANAGEMENT PRACTICES TO CONTROL SEDIMENT AND EROSION ON SITE AND SHOULD BE COMPLETED BASED ON DIRECTION FROM THE SITE ENGINEER. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY AN ENGINEER THROUGHOUT THE CONSTRUCTION PROCESS.

8. THE CONSTRUCTION ENTRANCE MAT IS TO BE INSTALLED AS THE FIRST STEP IN THE SITE ALTERATION PROCESS.

9. SEDIMENT CONTROL FENCE IS TO BE INSTALLED DOWNLOPE OF ALL DISTURBED AREAS. A DOUBLE ROW OF SEDIMENT CONTROL FENCE IS TO BE INSTALLED SURROUNDING ALL NATURAL HERITAGE FEATURES AND AS DIRECTED BY THE SITE ENGINEER. SEDIMENT CONTROL FENCE IS TO BE AS PER LSRCA STANDARD ESC-4 OR ESC-5 AS A MINIMUM. LIGHT DUTY SEDIMENT CONTROL FENCE IS NOT ACCEPTABLE.

10. CUT-OFF SWALES OR DITCHES ARE TO BE INSTALLED AS SHOWN ON THE ESC PLANS AND AS NECESSARY BASED ON CHANGING SITE CONDITIONS TO DIRECT OVERLAND FLOW TO THE APPROPRIATE SEDIMENT TRAP OR TEMPORARY SEDIMENT POND.

11. CHECK DAMS ARE TO BE INSTALLED IN ALL SWALES AND DITCHES IN ACCORDANCE WITH DRAWING LSRCA ESC-2, AS A MINIMUM.

12. TEMPORARY SEDIMENT TRAPS ARE TO BE CONSTRUCTED AT THE BEGINNING OF SITE GRADING AND IF THE SITE DRAINAGE CHANGES DURING CONSTRUCTION, IT MAY BE NECESSARY FOR TEMPORARY SWALES TO BE CONSTRUCTED TO DIRECT SITE FLOWS TO THE TEMPORARY SEDIMENT TRAPS DURING ROUGH GRADING AND AS CONSTRUCTION PROGRESSES.

13. TEMPORARY SEDIMENT PONDS ARE TO BE CONSTRUCTED AT THE BEGINNING OF SITE GRADING AND IF THE SITE DRAINAGE CHANGES DURING CONSTRUCTION, IT MAY BE NECESSARY FOR TEMPORARY SWALES TO BE CONSTRUCTED TO DIRECT SITE FLOWS TO THE TEMPORARY SEDIMENT PONDS DURING ROUGH GRADING AND AS CONSTRUCTION PROGRESSES.

14. FILTERBOX SILTBOX OR APPROVED EQUIVALENT TO BE INSTALLED DOWNSTREAM FROM SEDIMENT TRAP AND TEMPORARY SEDIMENT POND OUTLETS TO A MINIMUM HEIGHT OF 300mm.

15. IF STOCKPILES ARE USED ON SITE FOR THE STORAGE OF EXCESS MATERIAL, THEY ARE TO BE IN ACCORDANCE WITH DETAIL DRAWING LSRCA ESC-4 OR BETTER.

16. ANY DEWATERING OCCURRING ON SITE MUST BE IN ACCORDANCE WITH AN APPROVED DEWATERING PLAN. ADDITIONAL DEWATERING REQUIREMENTS MAY BE DEEMED NECESSARY AND SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER, CONTRACT ADMINISTRATOR OR LOCAL MUNICIPALITY.

17. THE SITE TRAILER IS TO BE LOCATED ONLY AT THE DESIGNATED LOCATION SHOWN ON THE PLANS.

18. EQUIPMENT AND HYDROCARBON STORAGE IS TO OCCUR ONLY WITHIN THE DESIGNATED AREA SHOWN ON THE PLANS.

19. REFUELING IS TO TAKE PLACE ONLY WITHIN THE DESIGNATED AREA SHOWN ON THE PLANS AND SHALL BE A MINIMUM OF THIRTY METRES FROM ANY WATERCOURSE OR ENVIRONMENTALLY SENSITIVE AREA.

20. AN APPROVED SPILLS MANAGEMENT PLAN IS TO BE KEPT ON SITE.

21. SPILL CLEANUP EQUIPMENT SUCH AS ADSORPTIVE MEDIA IS TO BE MAINTAINED ON SITE FOR IMMEDIATE USE IN THE EVENT OF A SPILL.

22. SPILLS ARE TO BE REPORTED IMMEDIATELY TO THE WORKSILS ACTION CENTRE AT 1-800-268-4960.

23. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEAN-UP AND RESTORATION, INCLUDING ALL COSTS, DUE TO THE RELEASE OF SEDIMENT FROM THE SITE.

24. LOW IMPACT DEVELOPMENT (LID) MEASURES ARE NOT TO BE USED AS SEDIMENT CONTROL DEVICES.

25. ADDITIONAL SEDIMENT CONTROL DEVICES MAY BE DEEMED NECESSARY AND AS SITE CONDITIONS CHANGE AND SHALL BE INSTALLED AS DIRECTED BY THE SITE ENGINEER, CONTRACT ADMINISTRATOR OR LOCAL MUNICIPALITY.

1 SWM GUIDELINES UPDATE 06.2016

DATE: 06.2016
SCALE: NTS

EROSION AND SEDIMENT CONTROL PLAN NOTES

LSRCA ESC-1

4.	ISSUED FOR TENDER	06/15/20	JPE	
3.	ISSUED FOR APPROVAL	03/12/20	JPE	
2.	AS PER LSRCA COMMENTS	02/20/20	JPE	
1.	AS PER FIRST SUBMISSION COMMENTS	10/02/19	JPE	
NO.	REVISION NOTE	DATE	BY	

BENCHMARK:

HORIZONTAL

MTD MONUMENT 03120040023 MONUMENT CAP IS LOCATED ON THE NORTHEAST CORNER OF DUNLOP ST. W AND ECCLES ST BETWEEN THE SIDEWALK AND THE PROPERTY LINE.

MTD MONUMENT 03120080022 MONUMENT CAP IS LOCATED ON THE SE CORNER OF INNISFIL ST AND VESPREA ST APPROXIMATELY 18.5M FROM CENTERLINE OF INNISFIL ST AND APPROXIMATELY 13M FROM CENTERLINE OF VESPREA ST.

VERTICAL

MTD MONUMENT 0011931U4555 ELEVATION 228.735 BARRIE FUNDAMENTAL BENCH-MARK IN QUEENS PARK, 12.2 M NORTHEAST OF CURB AT NORTHEAST SIDE OF PARKSIDE DRIVE, 1.8 M NORTHEAST OF BOUNDARY BETWEEN PARK AND DRILL HALL GROUNDS, TABLET IN TOP.

MTD MONUMENT 0011984U119 ELEVATION 232.095 BARRIE FEDERAL BUILDING, AT CORNER OF COLLIER AND OWEN STREETS, TABLET IN EAST SIDE SMOOTH STONE FOUNDATION WALL, IN CENTRE OF FIRST STONE NORTH OF NOTCH IN WALL, 7.0 M NORTH OF SOUTHEAST CORNER OF BUILDING, 30 CM BELOW BRICK SIDING.

SITE DATA

- OVERALL SITE AREA - 0.72 ha
- EXISTING LAND USE - RESIDENTIAL & VACANT

SEQUENCE OF CONSTRUCTION

- ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS.
- SILT FENCE AND CONSTRUCTION ACCESS MATS TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE.
- VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS INSTALLED AND APPROVED BY THE ENGINEER.
- COMMENCE WITH EARTH EXCAVATION AND SITE SERVING (TO BE REMOVED FROM SITE - NO STOCKPILE).
- EROSION CONTROL MEASURES TO BE MAINTAINED AS DIRECTED BY THE ENGINEER DURING THE CONSTRUCTION PERIOD. ADDITIONAL CONTROL MEASURES MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH SEED, SOD, MULCH OR OTHER ADEQUATE COVERING, AS INSTRUCTED BY THE ENGINEER.
- PERMEABLE PAVERS WILL BE CONSTRUCTED ONCE THE SITE HAS COMPLETED FINAL GRADING WORKS.
- PERMEABLE PAVERS AND INFILTRATION TANK AREAS NOT TO BE COMPACTED.

NOTES FOR SEDIMENT & EROSION CONTROL

- DISTURBED AREAS THAT HAVE FAILED TO HAVE STABLE GROUND COVER ESTABLISHED BY OCTOBER 30TH SHALL BE PROTECTED WITH A SILTATION CONTROL FENCE OR STRAW MULCH ETC. AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION BECOMES ESTABLISHED IN THE SUBSEQUENT GROWING SEASON.
- 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 ADMINISTRATOR. DISCHARGE TO MUNICIPAL SERVICES MUST BE APPROVED BY THE CITY OF BARRIE PRIOR TO STARTING WORK AND ADHERE TO CITY OF BARRIE STANDARDS.
- SILT FENCE SHALL BE PUT IN PLACE PRIOR TO AND MAINTAINED DURING ALL GRADING. SILT FENCE TO BE INSPECTED PRIOR TO COMMENCEMENT OF EARTH GRADING ACTIVITIES. SILT FENCE TO BE INSPECTED AND REPAIRED OR REPLACED IF DAMAGED AS DIRECTED BY THE SITE ADMINISTRATOR. SILT CONTROLS TO BE INSPECTED ON A REGULAR BASIS AND AFTER EVERY RAIN EVENT. INSTALLATION SHALL BE TO THE MANUFACTURER'S SUGGESTED SPECIFICATIONS.
- 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. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK, AND AFTER EVERY RAINFALL EVENT.
- CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 577, CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS.
- THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES SHOULD BE PRESENTED IN WRITING FOR APPROVAL OF THE SITE ADMINISTRATOR AND MUST BE APPROVED IN WRITING BY THE MUNICIPALITY AND CONSERVATION AUTHORITY.
- THE TOPS OF ALL FILTER FABRIC MUST BE A MINIMUM OF 1.0 METRES ABOVE THE GROUND LEVEL AND ATTACHED TO THE FENCE WITH A CONTINUOUS STEEL WIRE. ALTERNATIVELY, THE FILTER FABRIC MUST BE FOLDED OVER THE TOP OF THE FENCE WITH A CONTINUOUS STEEL WIRE. FENCE WITH WIRE LOOPED THROUGH THE FABRIC ON BOTH SIDES OF THE FENCE. FILTER FABRIC IS TO BE TERRAFIX 270R OR EQUIVALENT.
- ALL DISTURBED GROUND LEFT INACTIVE SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, OR COVERING OR OTHER EQUIVALENT CONTROL MEASURES. THIS PERIOD OF INACTIVITY SHALL BE AT THE DISCRETION OF THE CITY OF BARRIE MANAGER OF ENGINEERING BUT SHALL NOT EXCEED THIRTY DAYS.
- CONTRACTOR SHALL INSTALL AND MAINTAIN CATCHBASIN SEDIMENT BARRIERS THROUGHOUT THE SITE DURING ALL CONSTRUCTION ACTIVITIES IN ORDER TO TRAP SEDIMENT. REFER TO DETAIL.

GRATE TO BE DOUBLE WRAPPED WITH GEOTEXTILE

CATCH BASIN FRAME AND GRATE AS PER OPSS 400.02

NOTES

1. TO BE USED UNDER APPROPRIATE DRAINAGE CIRCUMSTANCES, BETWEEN APRIL AND DECEMBER.

2. WOVEN GEOTEXTILE TO HAVE A MINIMUM EQUIVALENT OPENING SIZE OF 0.15mm AND A MAXIMUM EQUIVALENT OPENING SIZE OF 0.25mm OR A NON WOVEN GEOTEXTILE TO BE CONSIDERED BASED ON SOIL PARAMETERS AND SITE CONDITIONS.

3. GEOTEXTILE TO BE REPLACED PERIODICALLY WHEN ACCUMULATED SEDIMENTS INTERFERES WITH DRAINAGE OR AS DIRECTED BY THE TRANSPORTATION AND WORKS DEPARTMENT

TOP 200 mm OF TEE BAR SPRAY PAINTED FLOURESCENT ORANGE

FABRIC FOLDED OVER TOP OF FENCE

NON-WOVEN GEOTEXTILE ATTACHED, FOLDED OVER, AND WIRE LOOPED TO FENCE

1000 mm (MIN)

300 mm (MAX)

1500 mm (MAX)

100 mm (MIN)

300 mm (MIN)

STEEL "TEE" BAR POST

FENCING AS NOTED ABOVE

FASTEN FABRIC WITH WIRE TIE

FILTER FABRIC

COMPACTED NATIVE MATERIAL

STEEL "TEE" BAR FENCE POSTS 60 mm x 30 mm

1500 mm LONG SPACED 2000 mm O.C.

NOTES:

1. SEDIMENT CONTROL FENCE SHOULD BE ALIGNED WITH CONTOURS FOR SHEET OVERLAND FLOW.

2. SEDIMENT CONTROL FENCE IS TO BE LOCATED IN AREAS OF LOW SEDIMENT YIELD ON SLOPES THAT CONFORM TO MTD DRAINAGE MANUAL VOLUME 5 CHART 14-3C TOPOGRAPHIC FACTOR IS BASED ON SLOPE LENGTH AND GRADING.

3. SEDIMENT CONTROL FENCE SHALL BE INSTALLED WITH FILTER MEDIA FABRIC TIED INTO THE SOIL A MINIMUM OF 300 mm BY EITHER STATIC SLICING OR TRENCH METHODS WITH COMPACTION OF TRENCH MATERIAL MEETING 95% STANDARD PROCTOR DENSITY.

4. STEEL "T" BAR POSTS ARE TO BE SPACED A MAXIMUM DISTANCE OF 2000 mm ON CENTER.

5. FROZEN GROUND CONDITIONS REQUIRE FILTER FABRIC TO BE BACKFILLED IN TRENCH WITH CLEAR STONE.

6. GEOTEXTILE FABRIC TO BE COMPRISED OF NON-WOVEN U.V. STABILIZED MATERIAL FABRIC TO BE FOLDED OVER TOP OF FENCE A MINIMUM OF 300 mm AND WIRE FASTENED.

7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.

8. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SHOWN.

1 SWM GUIDELINES UPDATE 06.2016

DATE: 06.2016
SCALE: NTS

SEDIMENT CONTROL FENCE

LSRCA ESC-4

EXISTING ROADWAY

INSTALL CULVERT AS NEEDED IN EXISTING DITCHES

SEDIMENT CONTROL FENCE AS PER DETAIL LSRCA ESC-4

MAINTAIN OR ESTABLISH VEGETATIVE BUFFER BEYOND SEDIMENT CONTROL FENCE

30 m MINIMUM

100 mm to 200 mm QUARRY STONE WITH APPROPRIATE GEOTEXTILE BASE

8 m MINIMUM

300 mm

100 mm to 200 mm QUARRY STONE WITH APPROPRIATE GEOTEXTILE BASE

EXISTING ROADWAY

PLAN VIEW

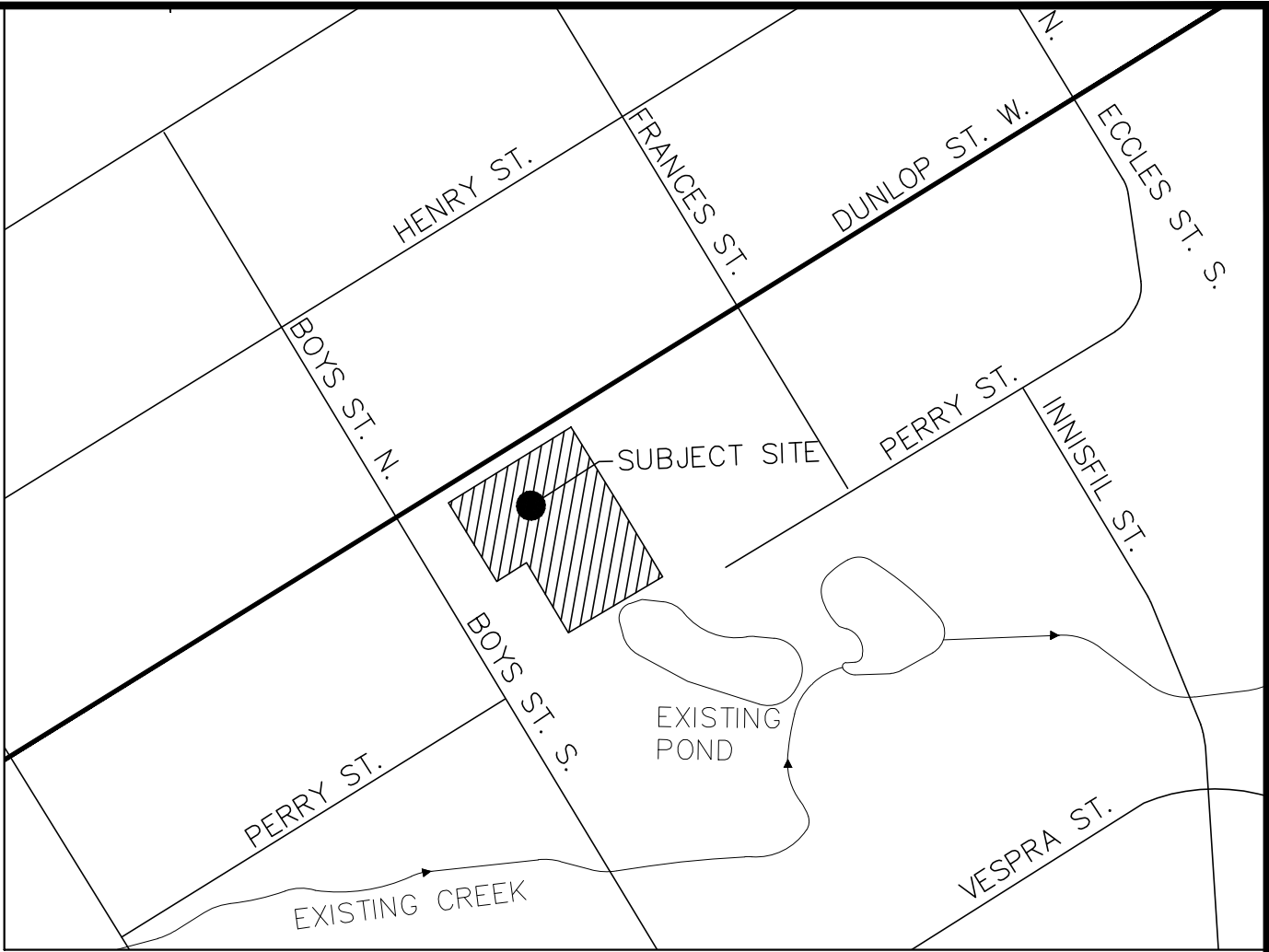
ELEVATION VIEW

1 SWM GUIDELINES UPDATE 06.2016

DATE: 06.2016
SCALE: NTS

CONSTRUCTION ACCESS MAT

LSRCA ESC-3

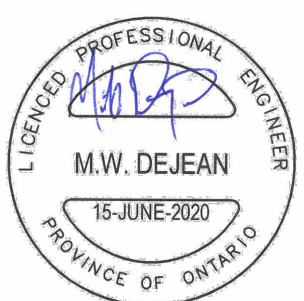


KEYMAP

LEGEND

- HYD. FIRE HYDRANT
- VB. WATER VALVE
- EX-CS. EXISTING CURB STOP
- EX-MH. EX. SANITARY MANHOLE
- EX-MH. EX. STORM MANHOLE
- EX-CB. EX. CATCH BASIN
- EX. SEPTIC BED AREA
- PROP. BIO-RETENTION OR INFILTRATION AREA TO BE FENCED
- EX. OVERLAND FLOW ROUTE
- PROP. OVERLAND FLOW ROUTE
- EX. TREES TO BE REMOVED
- SILT FENCE

EXISTING WELLS AND SEPTIC SYSTEMS ON SITE ARE TO BE IDENTIFIED AND ABANDONED AS PER MINISTRY OF ENVIRONMENT GUIDELINES.



MDM DEVELOPMENTS
233 DUNLOP STREET WEST
CITY OF BARRIE

ENVIRONMENTAL PROTECTION AND REMOVALS PLAN



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DRAWN BY	MJWP	VERT SCALE		DRAWING #	EPR-1
CHECKED BY	MWD	DATE	APRIL 2019	REVISION #	4