DRAWINGS

- 1. THE NOTES ON THIS SHEET APPLY TO ALL WORKS UNDER THIS CONTRACT UNLESS OTHERWISE NOTED ON THE SPECIFIC DETAIL DWGS.
- 2. THE STANDARD DRAWINGS OF THE LOCAL MUNICIPALITY, ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS) AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) CONSTITUTE PART OF THE PLANS OF THIS CONTRACT.
- 3. ORDER OF PRECEDENCE OF STANDARD DRAWINGS IS FIRSTLY THE LOCAL MUNICIPALITY AND SECONDLY ONTARIO PROVINCIAL STANDARD
- 4. THE STANDARD DRAWINGS INCLUDED WITH THESE PLANS ARE PROVIDED FOR CONVENIENCE ONLY AND ARE NOT TO BE CONSTRUED TO BE A COMPLETE SET FOR THE PURPOSE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RELEVANT STANDARD DRAWINGS AND SPECIFICATIONS AS REQUIRED FOR THIS CONTRACT.

MEASUREMENTS

- 1. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION, AND ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

GENERAL

- 1. EXISTING SERVICES AND UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE AND THEIR LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS THEY WISH WITH THE UNDERSTANDING THAT THE OWNER DISCLAIMS ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY. THE CONTRACTOR IS REQUIRED TO NOTIFY THE VARIOUS UTILITY COMPANIES 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- 2. NATIVE MATERIAL, SUITABLE FOR BACKFILL, SHALL BE COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 3. GRANULAR MATERIAL, USED FOR BACKFILL, SHALL BE PLACED IN LAYERS 150mm IN DEPTH MAXIMUM AND COMPACTED TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 4. ALL DISTURBED AREAS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 200mm OF APPROVED TOPSOIL AND NURSERY SOD UNLESS NOTED OTHERWISE.

PARKING LOT

- 1. NATIVE SUBGRADE TO BE COMPACTED TO MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 2. PAVEMENT STRUCTURE TO BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO START OF CONSTRUCTION
- 3. THE PARKING LOT PAVEMENT STRUCTURE SHALL CONSIST OF THE FOLLOWING:
- 50mm HL4 - 50mm HL4 60mm HL8 50mm HL8 - 150mm GRANULAR "A" 150mm GRANULAR "A" 350mm GRANULAR "B" 350mm GRANULAR "B"
- SEWERS
- 1. INTERNAL SANITARY SEWERS AND LATERALS TO BE MINIMUM 150mm DIAMETER PVC DR 28 WITH JOINTS CONFORMING TO CSA STANDARD A257.3.
- 2. SEWERS SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802.010 (GRANULAR 'A' EMBEDMENT MATERIAL), UNLESS APPROVED OTHERWISE
- 3. PRECAST MANHOLES SHALL BE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED, AND SHALL BE IN ACCORDANCE WITH OPSD 701.010. FRAME AND GRATE TO BE "TYPE A" CLOSED COVER AND TO CONFORM TO OPSD 401.010.
- 4. MANHOLE TOPS ARE TO BE SET TO FINAL GRADE.

WAILRMAINS

SEWER IS TO BE 2.5 METERS.

- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE WATERMAIN AND THE SANITARY/STORM
- 2. A MINIMUM OF 0.5m VERTICAL CLEARANCE BETWEEN THE WATERMAIN, SANITARY, STORM AND/OR ALL UTILITIES MUST BE KEPT, WHILE STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES. WHERE WATERMAIN CONFLICTS WITH SEWER PIPE, DEFLECT WATERMAIN HORIZONTALLY OR VERTICALLY TO OBTAIN MINIMUM COVER AND VERTICAL CLEARANCE.
- WATERMAINS SHALL BE PVC DR 18 AND INSTALLED WITH A MINIMUM COVER OF 1.7m (MEASURED FROM FINISHED GRADE TO TOP OF WATERMAIN). IF MINIMUM COVER CAN NOT BE ACHIEVED, INSULATION AS PER DETAIL PROVIDED.
- 4. WATERMAIN SHALL BE CONSTRUCTED WITH BEDDING AS PER OPSD 802,010 (GRANULAR 'A' EMBEDMENT MATERIAL) FOR FLEXIBLE PIPES.
- 5. COPPER WATER SERVICES 25mm DIA. SHALL BE EMBEDDED IN SAND 100mm ABOVE AND BELOW TO CONFORM TO OPSS 1104.010.
- 6. WATERMAIN BEDDING SHALL ADHERE TO THE MUNICIPAL STANDARD AND BE PLACED MIN 150mm BELOW AND 300mm ABOVE THE WATERMAIN.
- 7. CONCRETE THRUST BLOCKS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER AS PER STANDARD DRAWINGS. ALL BENDS TO BE MECHANICALLY RESTRAINED.
- 8. ALL JOINTS MUST BE MECHANICALLY RESTRAINED AND THRUST BLOCKED.
- 9. ANY EXISTING, ON SITE, WATER WELLS MUST BE DECOMMISSIONED.
- 10. WHERE A COPPER SERVICE MUST BE JOINED UNDER THE FLOOR, THE COPPER SHALL BE JOINED BY SILVER SOLDER CONNECTION ONLY.
- 11. ALL SERVICE PIPE MATERIAL MUST BE DUCTILE IRON AND MECHANICALLY RESTRAINED FROM THE RESTRAINED FROM THE RESTRAINING FLANGE TO A MINIMUM OF 3 METERS OUTSIDE THE FOUNDATION. ALL DUCTILE SHALL BE POLY WRAPPED FOR ADDED PROTECTION.
- 12. OPERATION OF FIRE HYDRANTS AND VALVES ON POTABLE WATER BY OTHER THAN MUNICIPAL CITY DEPARTMENT IS PROHIBITED.
- 13. THE CITY WILL SWAB, CHLORINATE AND FLUSH ALL NEW SERVICES. THE CONTRACTOR SHALL PERFORM PRESSURE TEST WITH WATER FIELD COORDINATOR WITNESSING.
- 14. EXTERNAL CONTRACTOR TO COORDINATE WITH INTERNAL CONTRACTOR ON ALL INSTALLATION, SWABBING, CHLORINATING AND TESTING WITNESSED BY WATER FIELD SERVICES COORDINATOR.
- 15. MECHANICAL RESTRAINTS WILL BE REQUIRED ON ALL HYDRANTS, A MINIMUM OF TWO PIPE
- 16. TRACING WIRE (#12 TWU STRANDED COPPER) TO BE INSTALLED ON THE TOTAL LENGTH OF ALL

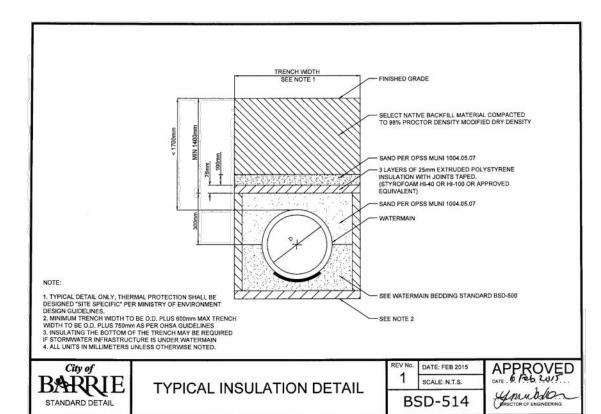
LENGTHS OF EITHER SIDE OF THE HYDRANT TEE CONNECTION. HYDRANTS TO BE PAINTED RED.

- PVC WATERMAINS AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO FLANGE BOLT.
- 17. SERVICE CONNECTIONS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0m AND A MINIMUM OF 0.6m FROM JOINTS.
- 18. CONTRACTOR TO PROVIDE PLAN FOR REMOVING CHLORINATED WATER FROM SITE.
- 19. A CHLORINATION TAIL SHALL BE INSTALLED JUST BEHIND TAPPING VALVE TO FACILITATE CHLORINATING SERVICE, TO BE REMOVED AFTER TESTING.

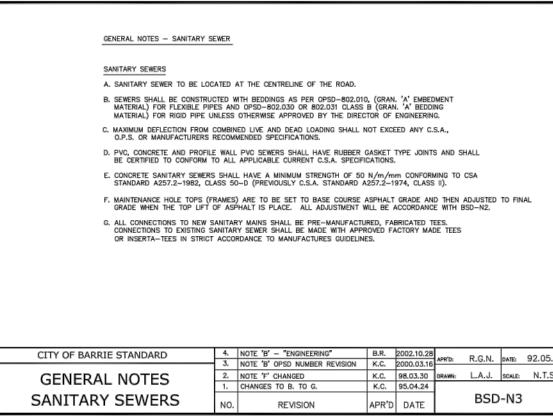
GENERAL NOTES

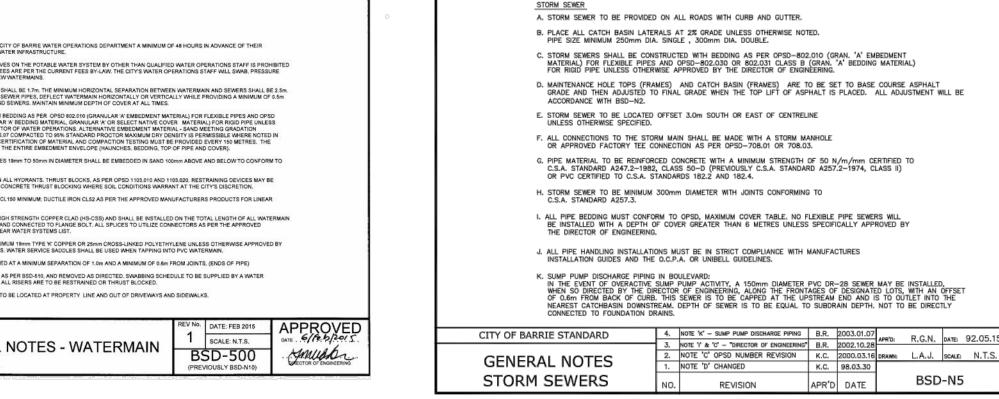
- 1. DRAWINGS A. ALL DRAWINGS SHALL BE PRODUCED IN ACCORDANCE WITH CURRENT CITY OF BARRIE STANDARDS & SYMBOLS FOR PLAN & PROFILE DRAWINGS, GENERAL SERVICE PLANS AND LOT GRADING PLANS.
- A. ALL DIMENSIONS ARE IN METRES, EXCEPT PIPE DIAMETERS, WHICH ARE IN MILLIMETRES, UNLESS SPECIFIED OTHERWISE.
- A. 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,

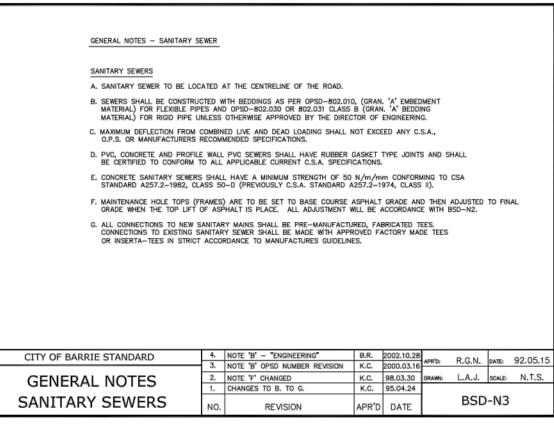
| SUBJECT TO APPROVAL BY THE | | ENGINEERING DEPARTMENT. | ABLISHE | D GROWIH, | | | | |
|----------------------------|-----|------------------------------------|---------|-----------|----------|----------|--------|---------|
| CITY OF BARRIE STANDARD | | | | | APR'D: | R.G.N. | DATE: | 92.05.1 |
| GENERAL NOTES | 3. | 3. NOTE: 3.E. REVISED & 3.I. ADDED | J.S. | 05.01.10 | 20 11 21 | 14,01141 | Ditti. | 0210011 |
| | 2. | 3.D "ENGINEERING DEPARTMENT" | B.R. | 02.10.28 | DRAWN: | L.A.J. | SCALE: | N.T.S. |
| | 1. | 3.E. TOPSOIL PERMIT | | 01.12.06 | | | | |
| | NO. | REVISION | APR'D | DATE | BSD-N6 | | | |

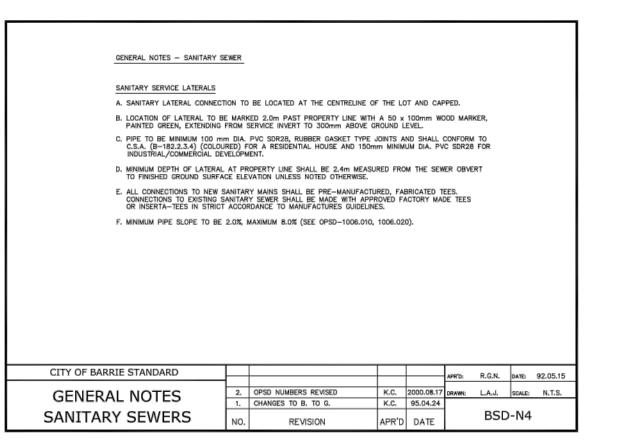


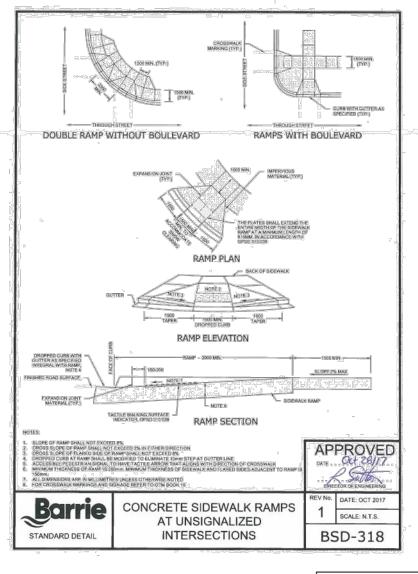
GENERAL NOTES - WATERMAIN 1. CONTRACTORS SHALL INFORM THE CITY OF BARRIE WATER OPERATIONS DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR INTENTIONS TO PERFORM WORK ON WATER INFRASTRUCTURE. 2. OPERATION OF HYDRANTS AND VALVES ON THE POTABLE WATER SYSTEM BY OTHER THAN QUALIFIED WATER OPERATIONS STAFF IS PROHIBITED BY CURRENT BY-LAW, CITY SERVICE FEES ARE PER THE CURRENT FEES BY-LAW, THE CITY'S WATER OPERATIONS STAFF WILL SWAB, PRESSURE TEST, CHLORINATE AND FLUSH ALL, NEW WATERMAINS. 5. COPPER WATER MAINS AND SERVICES 19mm TO 50mm IN DIAMETER SHALL BE EMBEDDED IN SAND 100mm ABOVE AND BELOW TO CONFORM TO OPSS MUNI 1004,05.07. 6. RESTRAINING WILL BE REQUIRED ON ALL HYDRANTS. THRUST BLOCKS, AS PER OPSD 1103.010 AND 1103.020, RESTRAINING DEVICES MAY BE REQUIRED IN ADDITION TO STANDARD CONCRETE THRUST BLOCKING WHERE SOIL CONDITIONS WARRANT AT THE CITY'S DISCRETION. 8. TRACING WIRE SHALL BE #12 AWG HIGH STRENGTH COPPER CLAD (HS-CSS) AND SHALL BE INSTALLED ON THE TOTAL LENGTH OF ALL WATERMAIN AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO FLANGE BOLT, ALL SPLICES TO UTILIZE CONNECTORS AS PER THE APPROVED WATER SYSTEMS LIST. 9. ALL WATER SERVICES SHALL BE MINIMUM 19mm TYPE Y: COPPER OR 25mm CROSS-LINKED POLYETHYLENE UNLESS OTHERWISE APPROVED B THE DIRECTOR OF WATER OPERATIONS. WATER SERVICE SADDLES SHALL BE USED WHEN TAPPING INTO PVC WATERMAIN. 10. SERVICE TAPPINGS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0m AND A MINIMUM OF 0.6m FROM JOINTS, (ENDS OF PIPE) 11. RISER PIPES ARE TO BE INSTALLED AS PER BSD-610, AND REMOVED AS DIRECTED. SWABBING SCHEDULE TO BE SUPPLIED BY A WATER-OPERATIONS FIELD REPRESENTATIVE, ALL RISERS ARE TO BE RESTRAINED OR THRUST BLOCKED. 12. ALL NEW CURB STOPS AND BOXES TO BE LOCATED AT PROPERTY. LINE AND OUT OF DRIVEWAYS AND SIDEWALKS. DATE: FEB 2015 APPROVED BARRIE GENERAL NOTES - WATERMAIN 1 SCALE: N.T.S.











PROPOSED ASPHALT

PAVEMENT

varies on road type

VARIES ON ROAD TYPE

50mm HD-8/

UTILIZE DENSO TAP EXISTING EDGE OF T

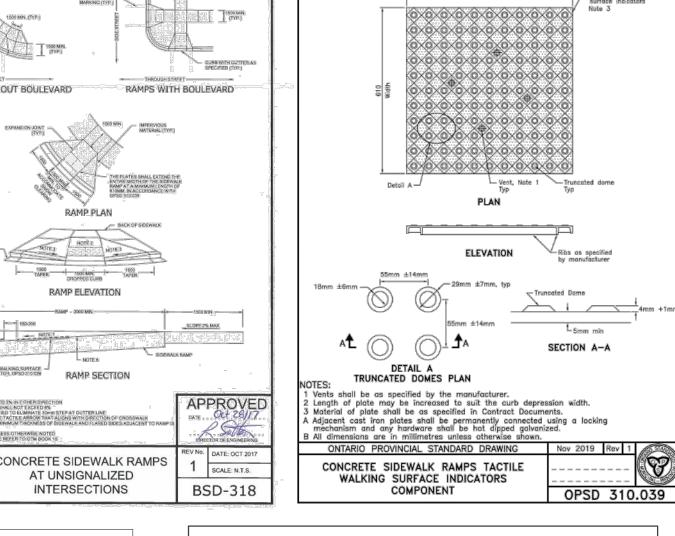
PAVEMENT LAP JOINT

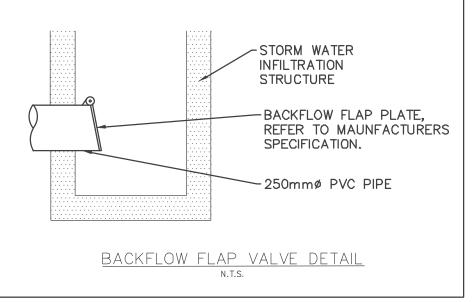
© SURFACE OF ASPHALT PAVEMENT

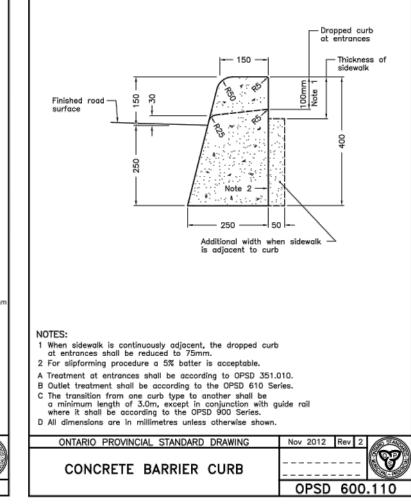
VERTICAL JOINTS

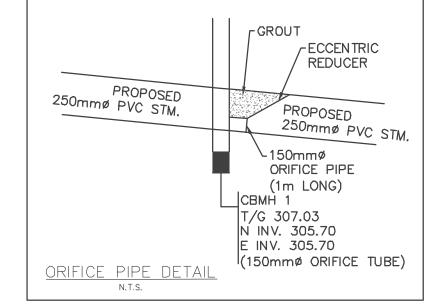
GRIND 0.5m OVERLAP JOINT ON -

EXISTING ASPHALT PAVEMENT











222 Mapleview Drive West, Suite 300 Barrie, ON L4N 9E7 Canada Tel.: 705.737.3303 Fax.: 705.737.1772 www.gerreng.com

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0" 1/4" 1/2" 1" 1 1/2" 2"

Issuance Description YY/MM/DD **CLIENT REVIEW** SITE PLAN SUBMISSION SITE PLAN APPROVAL 23/05/15

Issued For:

SITE PLAN APPROVAL

TAYJES HOLDING INC.

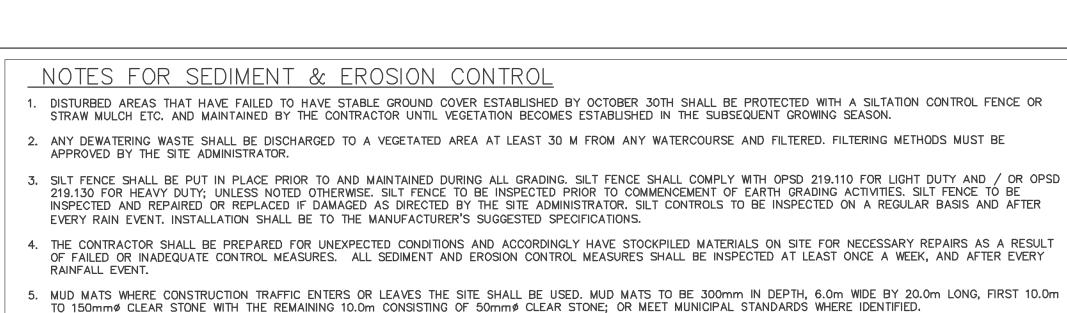
221 MAPLEVIEW DRIVE, WEST

DEVELOPMENT

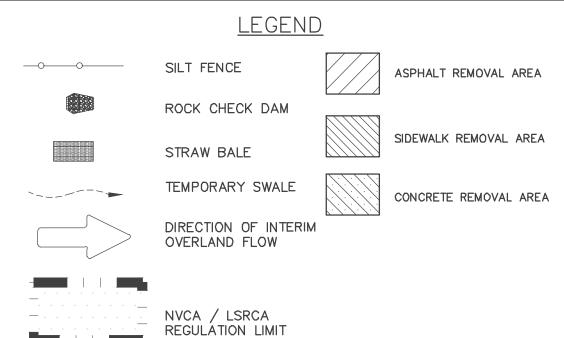
NOTES & DETAILS

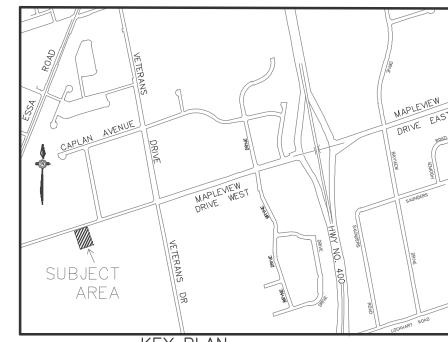
1150-003 Designed by: MPO Checked by: KF Drawn by: MPO Approved by: JDM 1:300 Drawing No. ND-1

SAVED: X:\1100\1150 Kumar, Ani\1150-003-21 Mapleview Development\Drawings\Civil\Engineering\1150-003 BASE, 5/17/2023 1:55:03 PM, KFILION PRINTED: 5/17/2023 1:55:47 PM, ND-1, KFILION



- INSPECTED AND REPAIRED OR REPLACED IF DAMAGED AS DIRECTED BY THE SITE ADMINISTRATOR. SILT CONTROLS TO BE INSPECTED ON A REGULAR BASIS AND AFTER
- OF FAILED OR INADEQUATE CONTROL MEASURES. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK, AND AFTER EVERY
- TO 150mmø CLEAR STONE WITH THE REMAINING 10.0m CONSISTING OF 50mmø CLEAR STONE; OR MEET MUNICIPAL STANDARDS WHERE IDENTIFIED. 6. CONTRACTOR SHALL OBTAIN A CURRENT COPY AND BECOME FAMILIAR WITH OPSS 805, CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL
- MEASURES AS WELL AS ALL APPLICABLE MUNICIPAL STANDARDS. 7. 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 CONSERVATION AUTHORITY.
- 8. 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 AND ATTACHED TO THE FENCE WITH WIRE LOOPED THROUGH THE FABRIC ON BOTH SIDES OF THE FENCE. FILTER FABRIC IS TO BE TERRAFIX 270R OR EQUIVALENT.
- 9. 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 MUNICIPAL DIRECTOR OF ENGINEERING BUT SHALL NOT EXCEED (30) DAYS OR SUCH LONGER PERIOD DEEMED ADVISABLE BY THE MUNICIPAL DIRECTOR OF ENGINEERING.
- 10. CONTRACTOR SHALL INSTALL AND MAINTAIN CATCHBASIN SEDIMENT BARRIERS THROUGHOUT THE SITE DURING ALL CONSTRUCTION ACTIVITIES IN ORDER TO MITIGATE SEDIMENT ENTERING THE STORM STORM SEWERS.
- 12. SEDIMENT CONTROLS ARE TO REMAIN IN PLACE UNTIL WRITTEN DIRECTION IS RECEIVED FROM THE ENGINEER REGARDING THEIR REMOVAL.
- 11. NO FUEL TO BE STORED ON SITE. IN CASE OF A SPILL PLEASE CONTACT: MOECC SPILLS ACTION CENTER 1-800-268-6060.





6559.7 sq.m. Site Area Area of Alteration 1600 sq.m*.* Existing Land Use LIGHT INDUSTRAIL (L Adjoining Property Land Use LIGHT INDUSTRAIL (L SANDY LOAM (Ans) Soil Type

SEQUENCE OF CONSTRUCTION

TO THE COMMENCEMENT OF ANY WORKS ONSITE.

INSTALLED AND APPROVED BY THE ENGINEER.

REMOVED FROM SITE - NO STOCKPILE).

AS INSTRUCTED BY THE ENGINEER.

1. ENGINEER TO BE NOTIFIED PRIOR TO INITIATION OF ANY ON SITE WORKS.

2. SILT FENCE AND CONSTRUCTION ACCESS MATS TO BE INSTALLED PRIOR

3. VEGETATION REMOVAL MAY COMMENCE AFTER ALL SILT FENCE IS

4. COMMENCE WITH EARTH EXCAVATION AND SITE SERVICING (TO BE

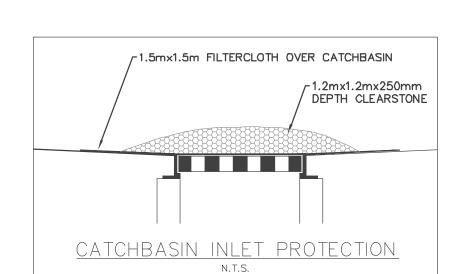
5. EROSION CONTROL MEASURES TO BE MAINTAINED AS DIRECTED BY THE

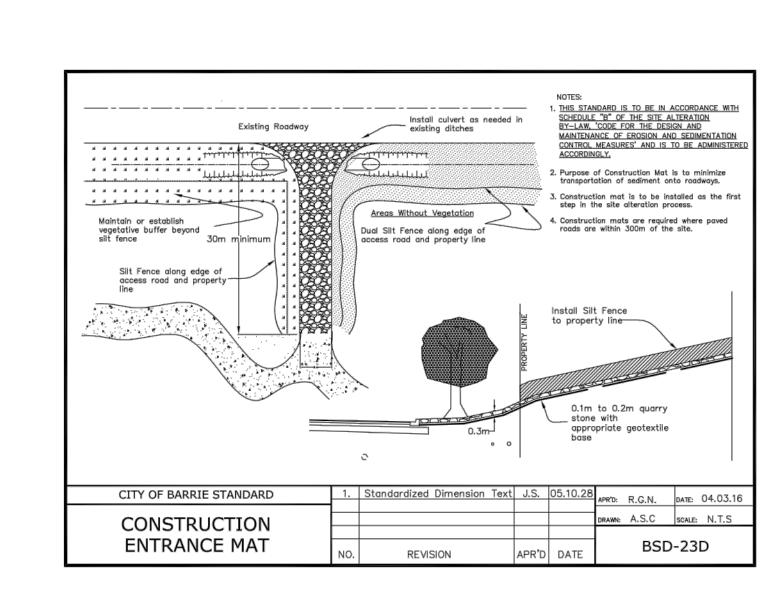
ENGINEER DURING THE CONSTRUCTION PERIOD. ADDITIONAL CONTROL

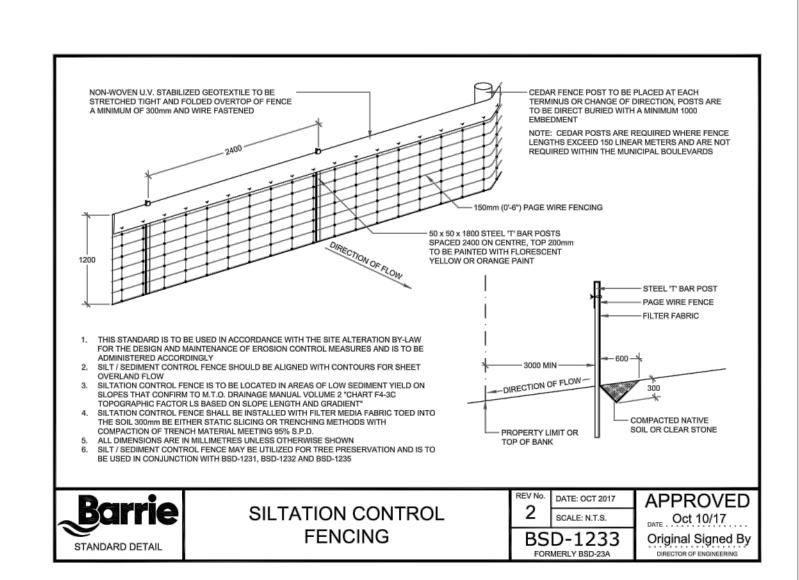
MEASURES MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.

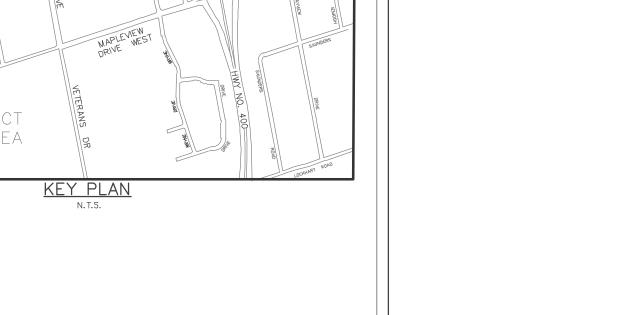
6. ALL DISTURBED GROUND LEFT INACTIVE FOR MORE THAN 30 DAYS SHALL

BE STABILIZED WITH SEED, SOD, MULCH OR OTHER ADEQUATE COVERING,











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This drawing may have been reduced. 0 5 10 20 30 40 50mm

0" 1/4" 1/2" 1" 1 1/2" 2"

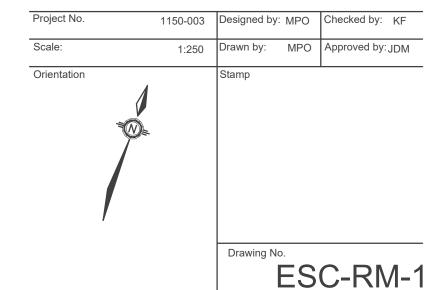
Issuance Description YY/MM/DD CLIENT REVIEW SITE PLAN SUBMISSION SITE PLAN APPROVAL 23/05/15

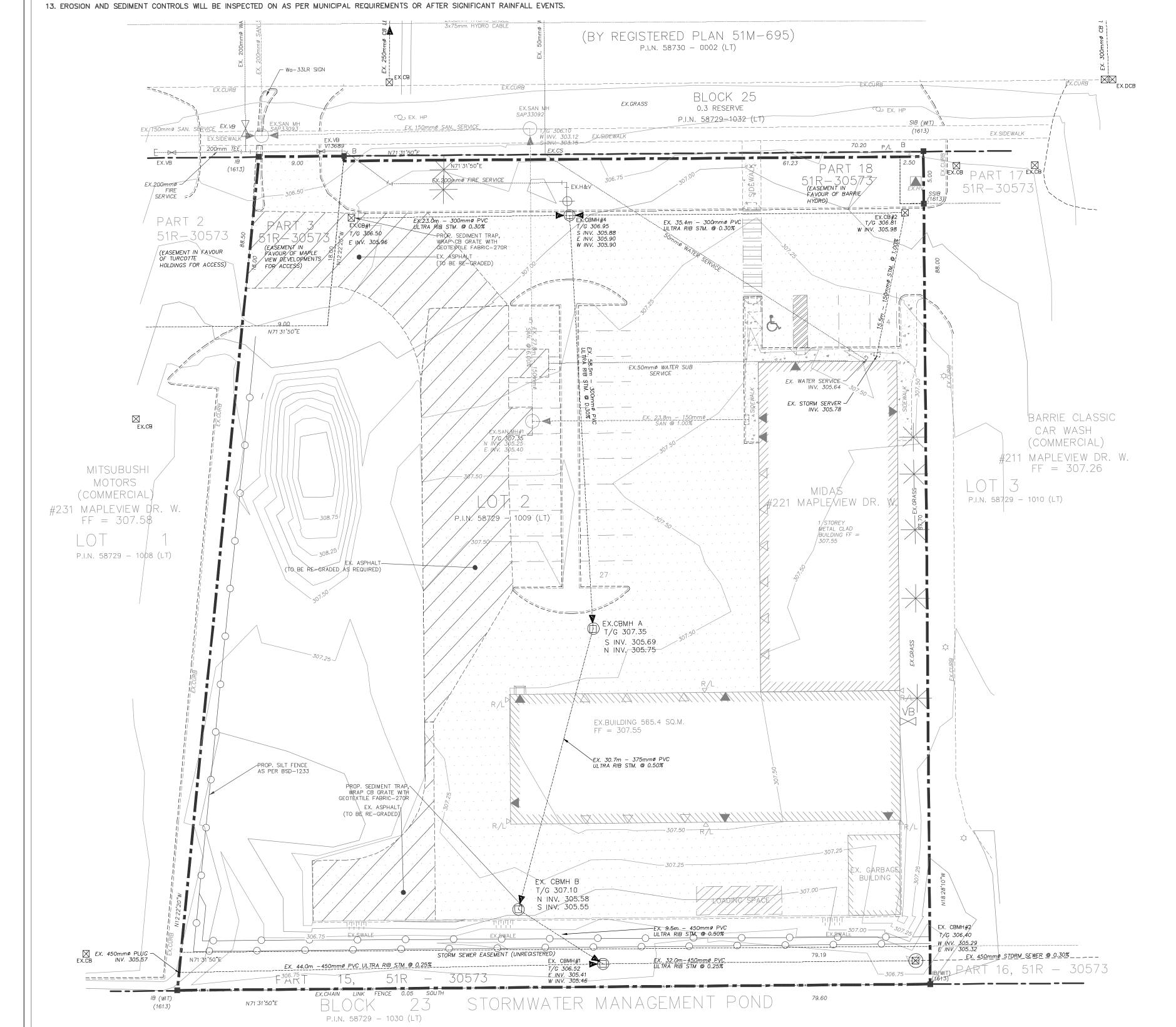
Issued For: SITE PLAN APPROVAL

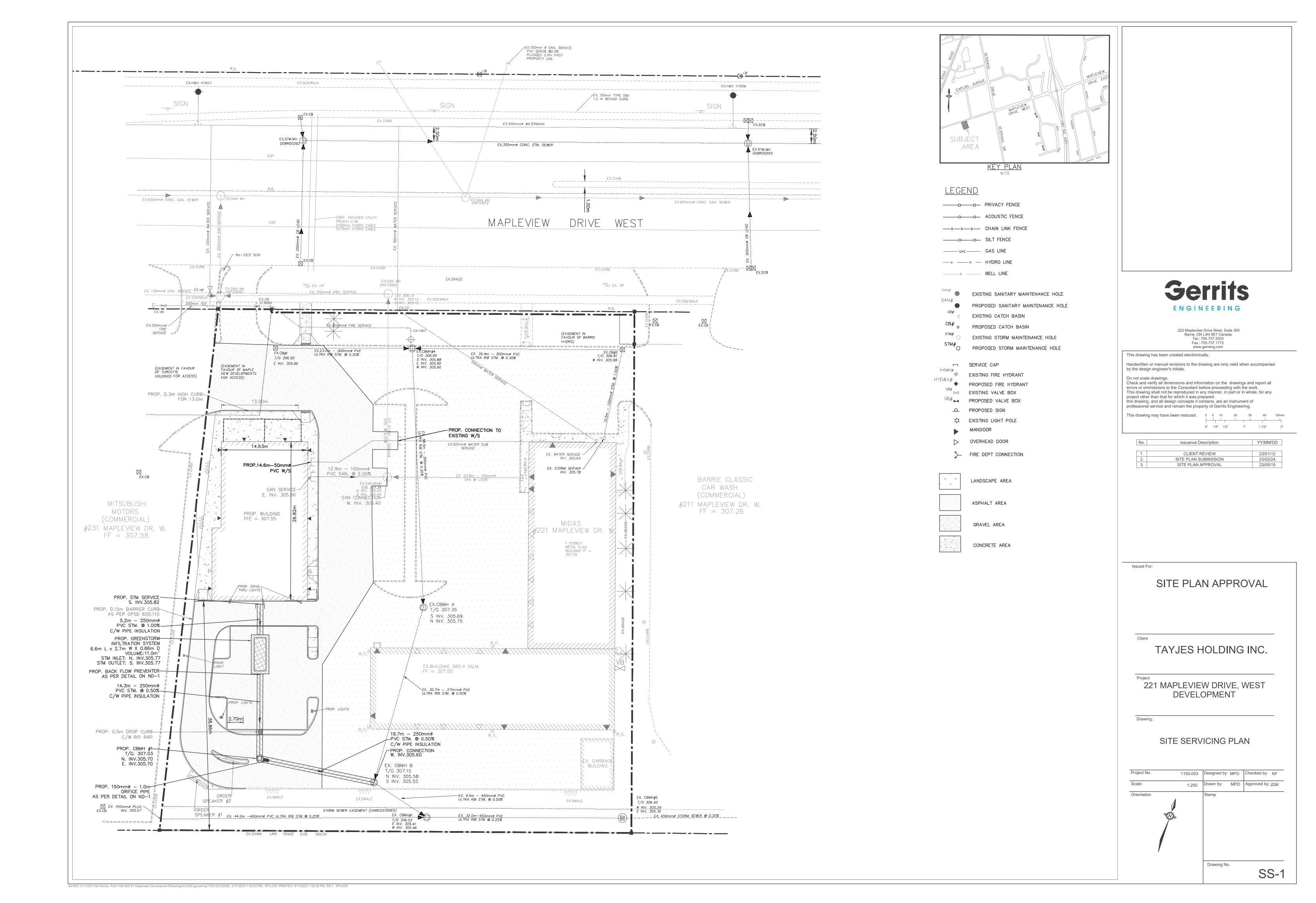
TAYJES HOLDING INC.

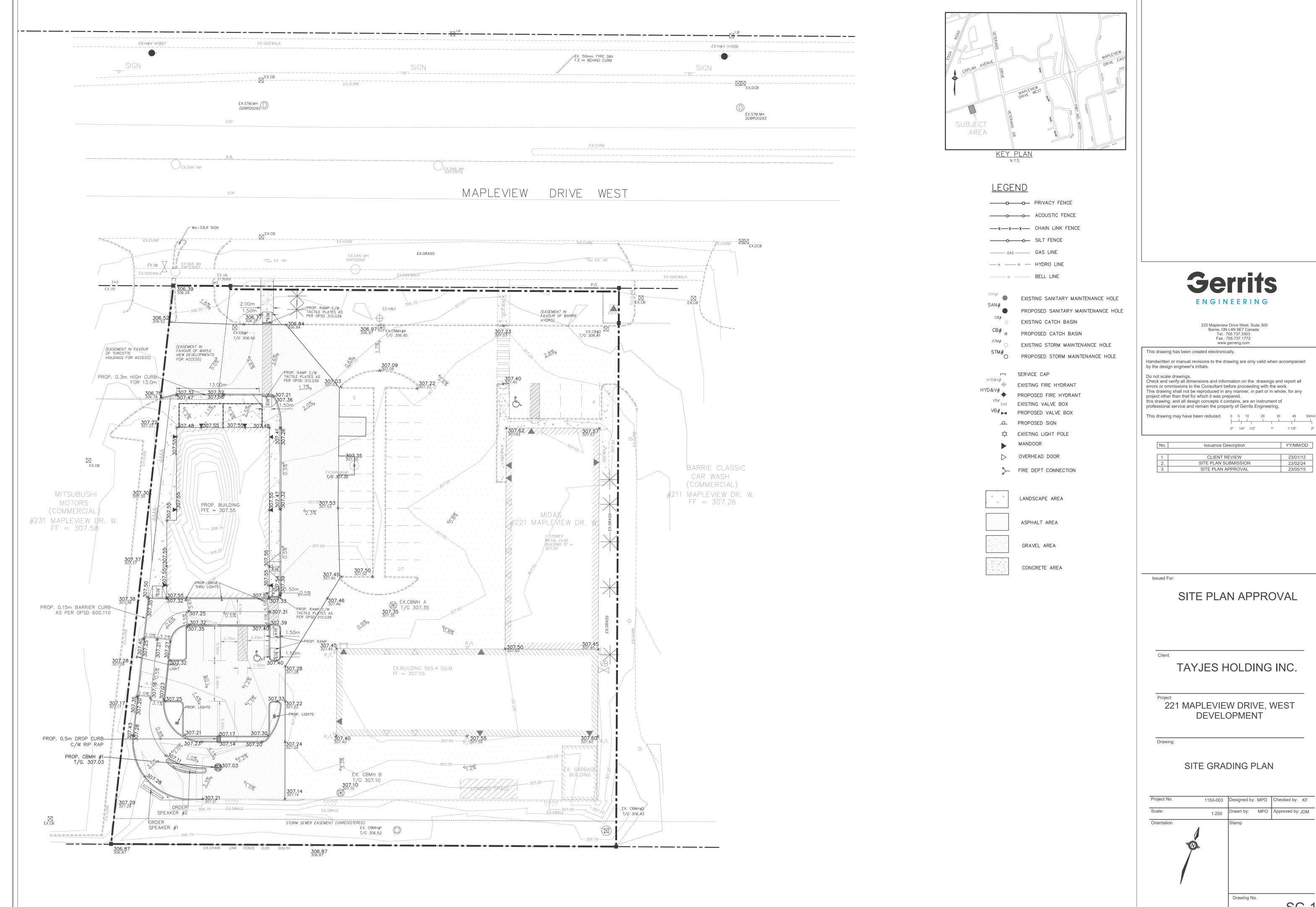
221 MAPLEVIEW DRIVE, WEST DEVELOPMENT

EROSION & SEDIMENT CONTROL PLAN & REMOVALS PLAN









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| Project No. | 1150-003 | Designed by: | MPO | Checked by: KF |
|-------------|----------|--------------|-----|------------------|
| Scale: | 1:250 | Drawn by: | MPO | Approved by: JDM |
| Orientation | | Stamp | | |
| | | Drawing No |). | SG- |

