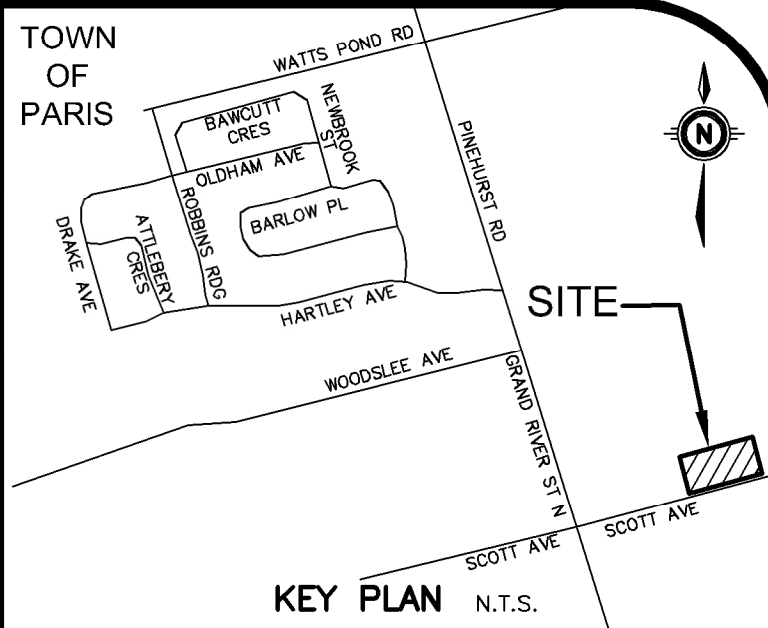
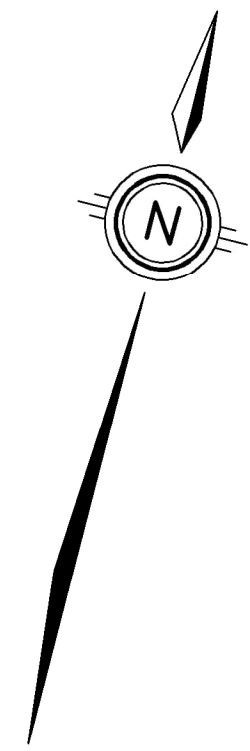


# NOT FOR CONSTRUCTION

## LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EASEMENT
- EXISTING SPOT ELEVATIONS
- EXISTING CURB
- EXISTING FENCE
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING DIRECTION OF DRAINAGE
- EXISTING OVERHEAD HYDRO
- REMOVALS



**GEODETIC BM** ELEV. = m  
REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

**SITE BENCHMARK** ELEV. = m  
REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

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  - EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY MACAULAY, WHITE & MUIR LTD.
  - INVERTS DENOTED WITH "±" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS PP1.10 COMPLETED BY MTE CONSULTANTS INC. DATED APRIL 16, 2024, AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.
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8.		
7.		
6.		
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4.	ISSUED FOR PERMITS	CXM 2025-05-20
3.	REISSUED FOR SPA	CXM 2025-04-14
2.	ISSUED FOR SPA	CXM 2025-02-11
1.	ISSUED FOR COORDINATION	CXM 2025-02-03
No.	REVISION	BY YYYY-MM-DD



519-743-6500

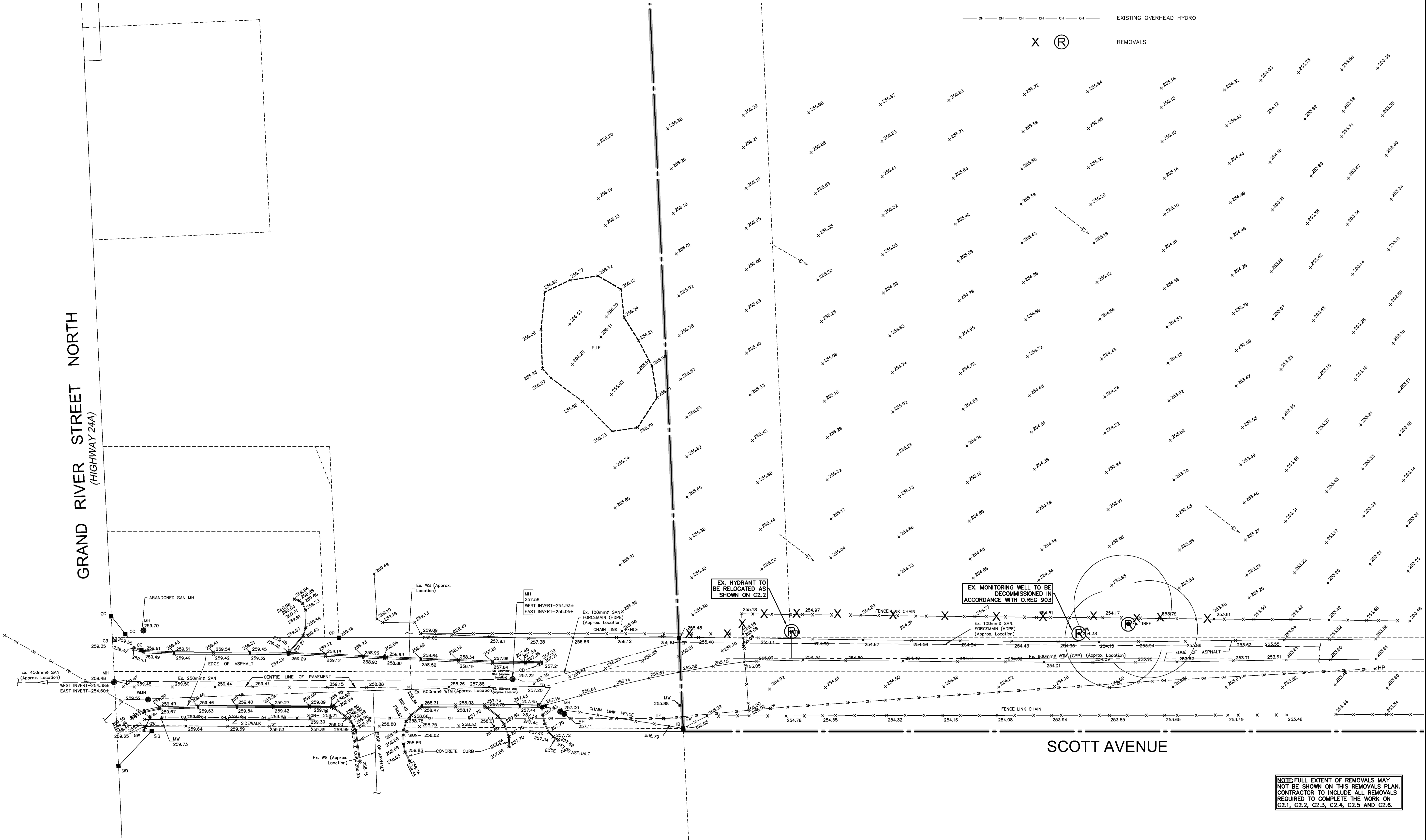


OWNER  
**Brant** COUNTY OF  
26 PARK AVENUE BURFORD

PROJECT  
**BRANT COUNTY FIRE STATION 9**  
CPS-RFT-25-03  
317 GRAND RIVER ST N (SCOTT AVE) PARIS

DRAWING  
**EXISTING CONDITIONS AND REMOVALS PLAN**

Project Manager	C. METRIE	Project No.	55275-200
Design By	WAM	Checked By	CXM
Drawn By	TXT/GLC	Checked By	WAM
Surveyed By	OTHERS	Drawing No.	C1.1
Date	Jul.04/24	Sheet 1 of	7
Scale	1:400		





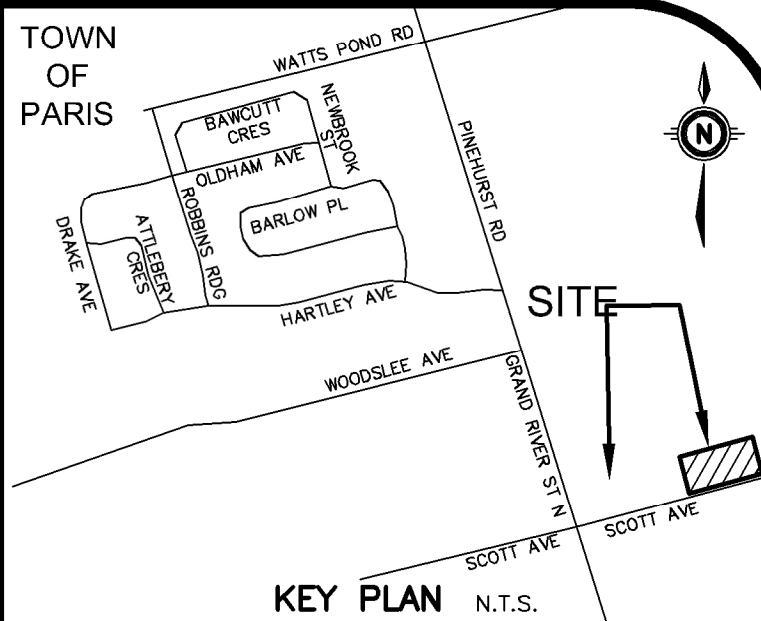
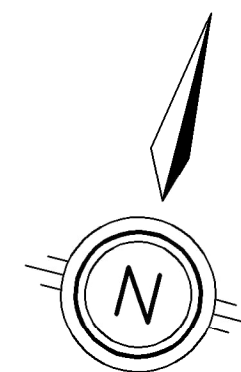
## LEGEND OF EXISTING FEATURES

	SITE BOUNDARY
	EXISTING SPOT ELEVATION
	EXISTING CURB
	EASEMENT
	EXISTING FENCE
	EXISTING DIRECTION OF DRAINAGE
	EXISTING OVERHEAD HYDRO

## LEGEND OF PROPOSED FEATURES

	PROPOSED SPOT ELEVATIONS EX = MAINTAIN EXISTING T/G = TOP OF CASTING/GRATE INV = INVERT ELEVATION FFE = FINISHED FLOOR ELEVATION
	DESIGN SPOT ELEVATIONS FROM SCOTT AVENUE RECONSTRUCTION BY MTE CONSULTANTS INC. (BY OTHERS)
	DIRECTION OF DRAINAGE/SWALE
	DRAINAGE SPLIT (RIDGE)
	EMBANKMENT (SLOPE AS NOTED)
	PROPOSED BUILDING
	CONCRETE CURB
	RETAINING WALL
	OVERHEAD DOOR
	MAN DOOR
	PROPOSED BOLLARD
	RIP RAP (SIZE & TYPE AS NOTED)
	OVERLAND FLOW ROUTE (MAJOR STORM)
	LIMIT OF GRADING
	PROPOSED DOWNSPOUT (SEE DETAIL)
	INFILTRATION GALLERY (SEE DETAIL)
	100 YEAR PONDING LIMIT (ELEVATION=253.716)
	5 YEAR PONDING LIMIT (ELEVATION=252.945)
	CONSTRUCTION ACCESS (SEE DETAIL)
	SEDIMENT CONTROL FENCE (SEE DETAIL)
	PROPOSED HEAVY DUTY ASPHALT
	CLEAN OUT (STORM) (SEE DETAIL)

NOT FOR CONSTRUCTION



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REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

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**NOTE:**  
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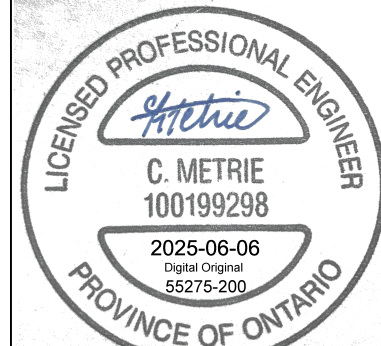
3. INVERTS DENOTED WITH "A" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS PP1.10 COMPLETED BY MTE CONSULTANTS INC. DATED APRIL 16, 2024, AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.

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No.	REVISION	BY	DATE
8.			
7.			
6.			
5.	ISSUED FOR TENDER & REISSUED FOR SPA	CXM	2025-06-06
4.	ISSUED FOR PERMITS	CXM	2025-05-20
3.	REISSUED FOR SPA	CXM	2025-04-14
2.	ISSUED FOR SPA	CXM	2025-02-11
1.	ISSUED FOR COORDINATION	CXM	2025-02-03
No.	REVISION	BY	DATE



519-743-6500

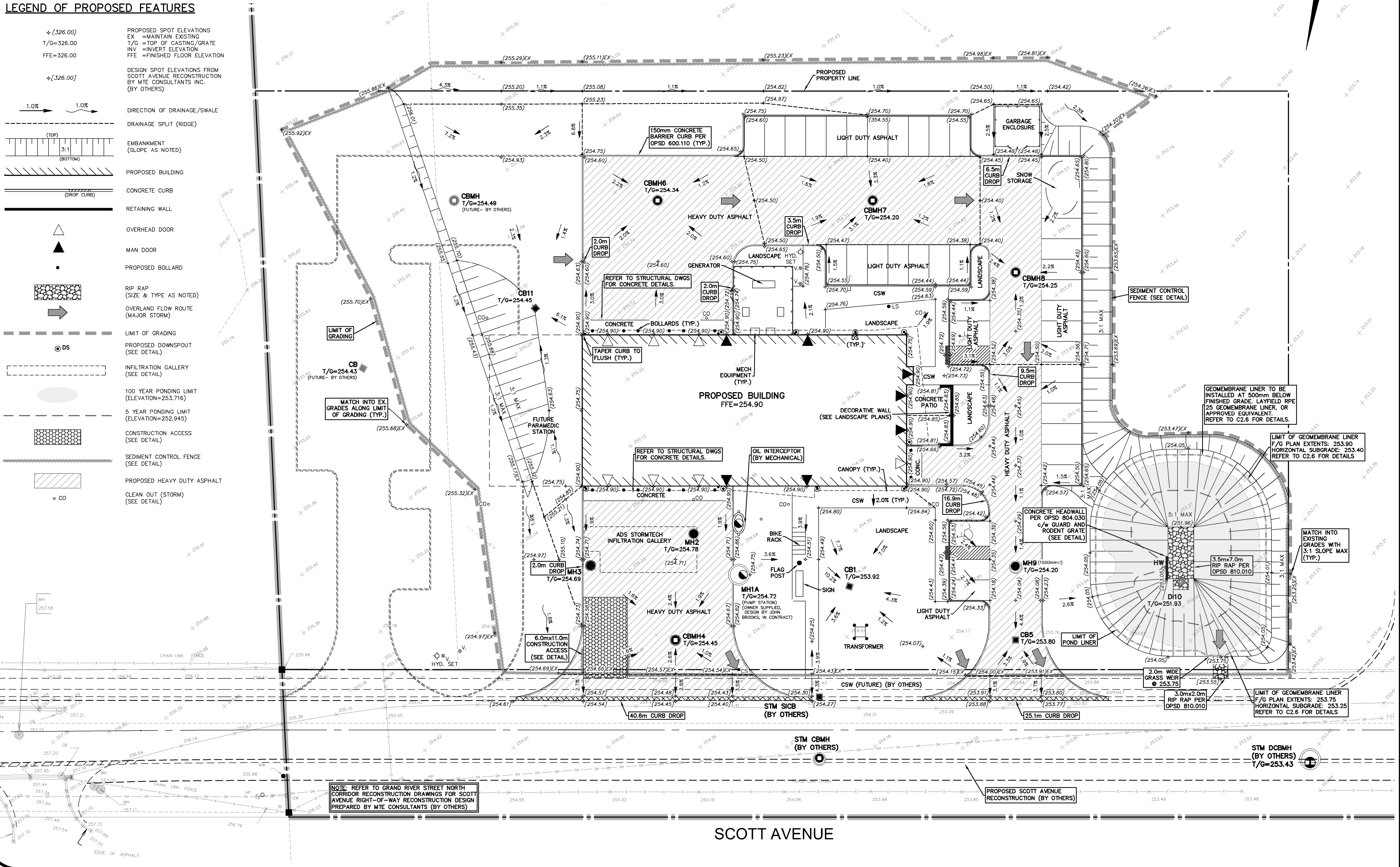


OWNER  
**Brant County**  
26 PARK AVENUE  
BURFORD

PROJECT  
**BRANT COUNTY FIRE STATION 9**  
CPS-RFT-25-03  
317 GRAND RIVER ST N (SCOTT AVE)  
PARIS

DRAWING  
**SITE GRADING AND EROSION AND SEDIMENT CONTROL PLAN**

Project Manager	C. METRIE	Project No.	55275-200
Design By	WAM	Checked By	CXM
Drawn By	TXT/GLC	Checked By	WAM
Surveyed By	OTHERS	Drawing No.	C2.1
Date	Apr.08/25	Scale	1:250
Scale	1:250	Sheet	2 of 7



SCOTT AVENUE



## LEGEND OF EXISTING FEATURES

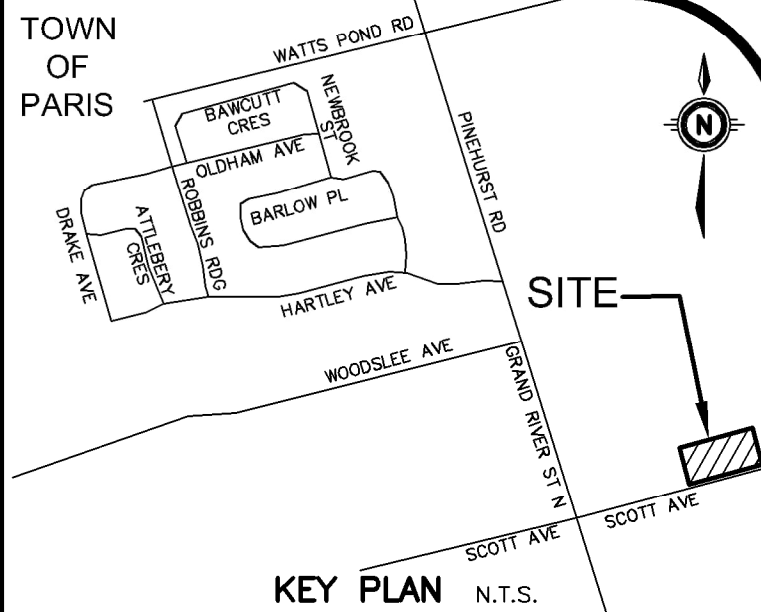
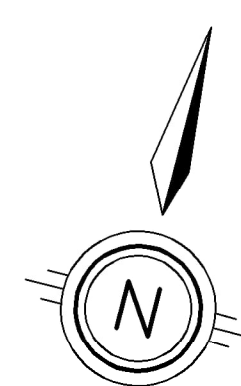
	SITE BOUNDARY
	EXISTING CURB
	EASEMENT
	EXISTING FENCE
	EXISTING WATERMAIN
	EXISTING STORM SEWER
	EXISTING OVERHEAD HYDRO

## LEGEND OF PROPOSED FEATURES

	EMBANKMENT (SLOPE AS NOTED)
	PROPOSED BUILDING
	CONCRETE CURB
	RETAINING WALL
	OVERHEAD DOOR
	MAN DOOR
	PROPOSED BOLLARD
	SANITARY SEWER
	STORM SEWER
	WATERMAIN
	CWS (CLEAN WATER SYSTEM) SERVICE
	FUTURE STORM SEWER (BY OTHERS)
	PERFORATED BIG 'O' SUBDRAIN (SEE DETAIL)
	PROPOSED U/G HYDRO (BY OTHERS)
	SHALLOW PIPE INSULATION (SEE DETAIL)
	RIP RAP (SIZE & TYPE AS NOTED)
	PROPOSED DOWNSPOUT (SEE DETAIL)
	INFILTRATION GALLERY (SEE DETAIL)
	SEWER CROSSING (REFER TO CROSSING CHART)
	PROPOSED HEAVY DUTY ASPHALT
	CLEAN OUT (STORM) (SEE DETAIL)

SEWER CROSSING CHART									
NOTE: 1) Maintain minimum 0.5m vertical clearance between all watermains and sewers. Where watermain is deflected, ensure 2.0m cover is achieved or watermain is insulated. 2) Maintain vertical clearance at all other crossings. 3) Existing and proposed watermain depths are approximate only. Notify Design Engineer of any discrepancies. 4) Contractor to verify all existing inverts prior to product ordering. Notify Design Engineer of any discrepancies.									
CROSSING #	SEWER TYPE	SEWER SIZE (mm#)	CROSSING ELEVATION	NOTES	CROSSING #	SEWER TYPE	SEWER SIZE (mm#)	CROSSING ELEVATION	NOTES
X1	STM	250	INV=252.863	DEFLECT WTM BELOW STM. MAINTAIN 0.5m (MIN.) VERTICAL CLEARANCE	X6	SAN	150	INV=253.490	MAINTAIN 0.3m (MIN.) VERTICAL CLEARANCE
	WTM	150	OBV=252.36±			CWS	250	OBV=253.190	
X2	CWS	250	INV=253.271	DEFLECT WTM BELOW CWS. MAINTAIN 0.5m (MIN.) VERTICAL CLEARANCE	X7	STM	250	INV=252.470	DEFLECT SAN FORCEMAIN UNDER STM. PROVIDE ADEQUATE COMPACTION BETWEEN SAN FORCEMAIN AND STM. MAINTAIN 0.5m (MIN.) VERTICAL CLEARANCE.
	WTM	100	OBV=252.77±			SAN FORCEMAIN	32	OBV=251.97	
X3	SAN (BY MECH)	100	INV=253.570	MAINTAIN 0.3m (MIN.) VERTICAL CLEARANCE	X8	EX.SAN FORCEMAIN	100	INV=251.71± (ASSUMED)	MAIN MIN 0.5m VERTICAL CLEARANCE
	CWS	250	OBV=253.228			STM	250	OBV=250.659	
X4	SAN (BY MECH)	150	INV=253.530	MAINTAIN 0.3m (MIN.) VERTICAL CLEARANCE	X9	EX.WTM	600	INV=251.18± (ASSUMED)	MAINTAIN MIN 0.5m VERTICAL CLEARANCE BETWEEN EX. WTM AND STM.
	CWS	250	OBV=253.234			STM	250	OBV=250.624	
X5	SAN (BY MECH)	100	INV=253.570	MAINTAIN 0.3m (MIN.) VERTICAL CLEARANCE					
	CWS	250	OBV=253.245						

NOT FOR CONSTRUCTION



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1.	ISSUED FOR COORDINATION	CXM 2025-02-03
No. REVISION		BY YYYY-MM-DD

**MTE**  
Engineers, Scientists, Surveyors

519-743-6500



OWNER  
**Brant** County of  
26 PARK AVENUE BURFORD  
PROJECT  
**BRANT COUNTY FIRE STATION 9**  
CPS-RFT-25-03  
317 GRAND RIVER ST N (SCOTT AVE) PARIS  
DRAWING

## SITE SERVICING PLAN

Project Manager	C. METRIE	Project No.	55275-200
Design By	WAM	Checked By	CXM
Drawn By	TXT/GLC	Checked By	WAM
Surveyed By	OTHERS	Drawing No.	
Date	Apr.08/25		
Scale	1:250	Sheet	3 of 7

SCOTT AVENUE

NOTE: REFER TO GRAND RIVER STREET NORTH CORRIDOR RECONSTRUCTION DRAWINGS FOR SCOTT AVENUE RIGHT-OF-WAY RECONSTRUCTION DESIGN PREPARED BY MTE CONSULTANTS (BY OTHERS)



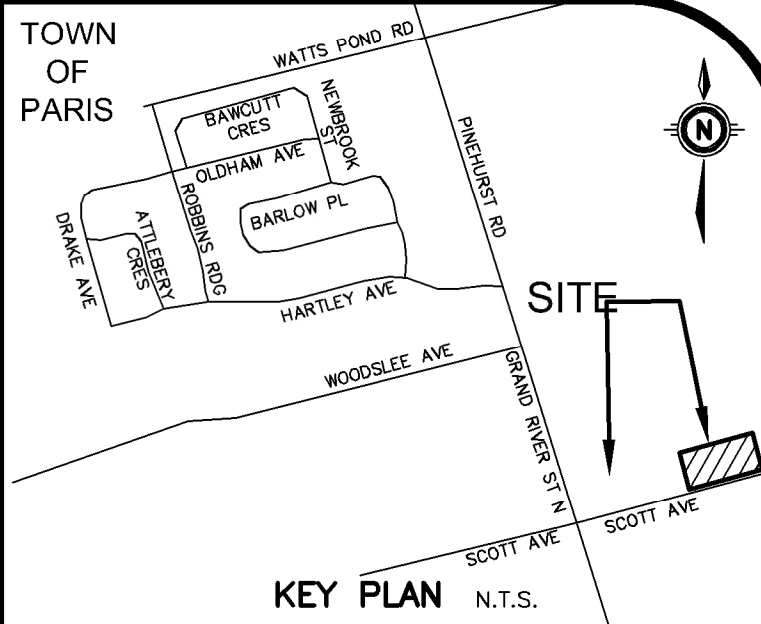
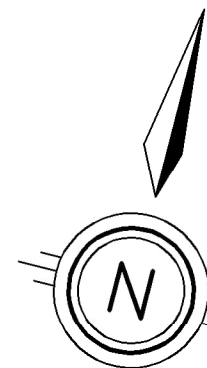
## LEGEND OF EXISTING FEATURES

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	EXISTING SPOT ELEVATION
	EXISTING CURB
	EASEMENT
	EXISTING FENCE
	EXISTING DIRECTION OF DRAINAGE
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	EMBANKMENT (SLOPE AS NOTED)
	PROPOSED BUILDING
	CONCRETE CURB
	RETAINING WALL
	OVERHEAD DOOR
	MAN DOOR
	PROPOSED BOLLARD
	RIP RAP (SIZE & TYPE AS NOTED)
	OVERLAND FLOW ROUTE (MAJOR STORM)
	LIMIT OF GRADING
	PROPOSED DOWNSPOUT (SEE DETAIL)
	INFILTRATION GALLERY (SEE DETAIL)
	100 YEAR PONDING LIMIT (ELEVATION=253.716)
	5 YEAR PONDING LIMIT (ELEVATION=252.945)
	CONSTRUCTION ACCESS (SEE DETAIL)
	SEDIMENT CONTROL FENCE (SEE DETAIL)
	PROPOSED HEAVY DUTY ASPHALT
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NOT FOR CONSTRUCTION



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REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

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4.	ISSUED FOR PERMITS	CXM 2025-05-20
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2.	ISSUED FOR SPA	CXM 2025-02-11
1.	ISSUED FOR COORDINATION	CXM 2025-02-03
NO.	REVISION	BY YYYY-MM-DD

**MTE**  
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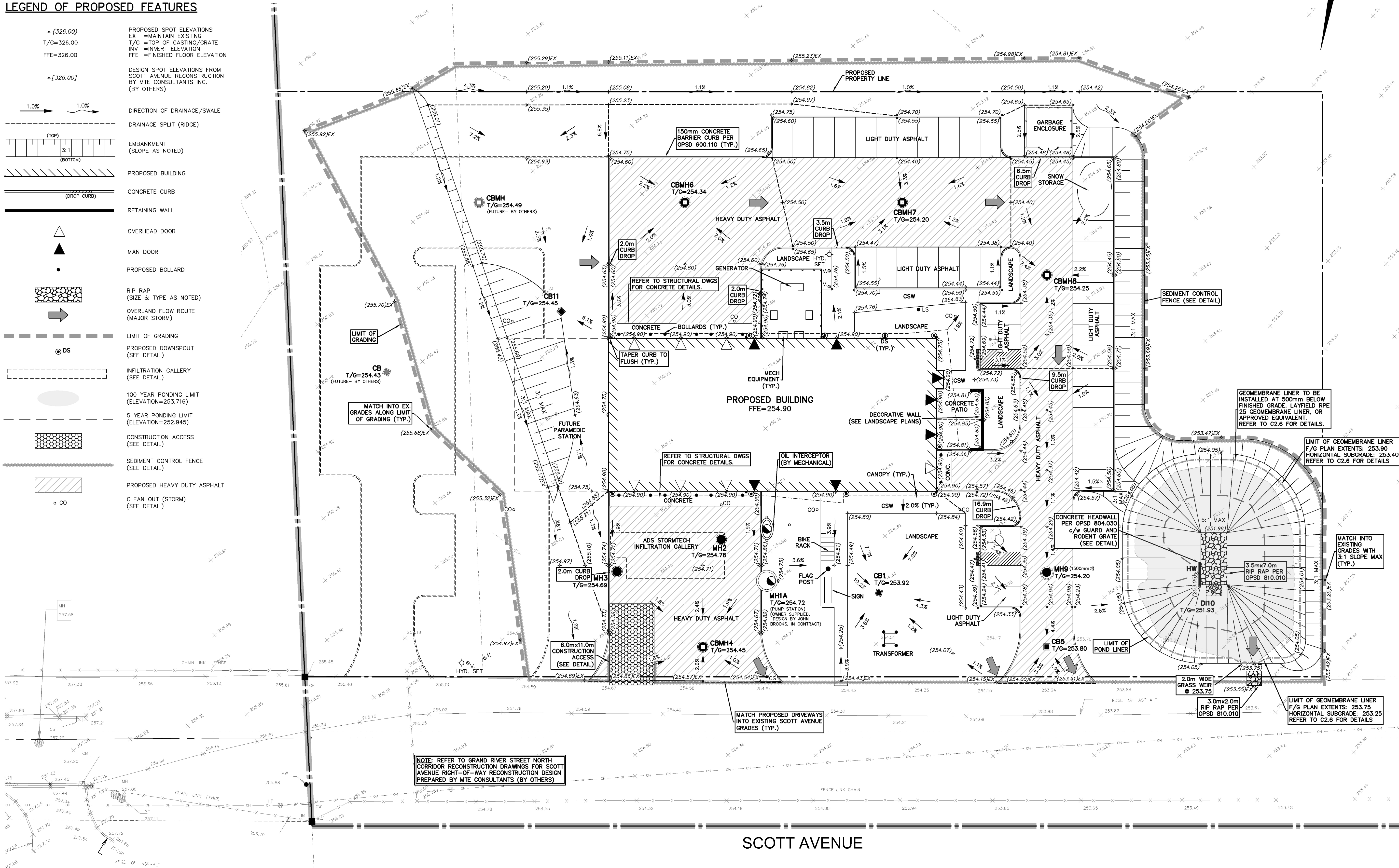
OWNER  
**Brant** County of  
26 PARK AVENUE BURFORD

PROJECT  
**BRANT COUNTY FIRE STATION 9**  
CPS-RFT-25-03

317 GRAND RIVER ST N (SCOTT AVE) PARIS

DRAWING  
**INTERIM SITE GRADING AND EROSION AND SEDIMENT CONTROL PLAN**

Project Manager	C. METRIE	Project No.	55275-200
Design By	WAM	Checked By	CXM
Drawn By	TXT/GLC	Checked By	WAM
Surveyed By	OTHERS	Drawing No.	
Date	Apr.08/25	<b>C2.3</b>	
Scale	1:250	Sheet 4 of 7	



SCOTT AVENUE



**CONSTRUCTION NOTES AND SPECIFICATIONS****1. GENERAL**

- 1.1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
- 1.2. THESE PLANS ARE TO BE USED FOR SERVICING AND GRADING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.
- 1.3. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
- 1.4. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
- 1.5. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
  - 1.5.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
  - 1.5.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
  - 1.5.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
  - 1.5.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
- 1.6. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO LOCAL MUNICIPALITY STANDARDS
- 1.7. ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WITH THE EXCEPTION OF WATERMAIN TAPPING, TO BE INSTALLED BY THE OWNER'S CONTRACTOR AT OWNER'S EXPENSE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S "PROCEDURE FOR OFF-SITE WORKS BY PRIVATE CONTRACTOR". THE OWNER AND CONTRACTOR ARE TO ENSURE OFF-SITE WORKS PERMIT IS IN PLACE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AFFECTED PROPERTY TO ORIGINAL CONDITION. ALL BOULEVARD AREAS SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD.
- 1.8. ALL UNDERGROUND SERVICES ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH THE ONTARIO PROVINCIAL BUILDING CODE (PART 7 PLUMBING), THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND THE COUNTY OF BRANT; WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.
- 1.9. **CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE, DIVISION C, PART 1, SECTION 1.2.2, GENERAL REQUIRE. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.**
- 1.10. STORM SEWERS AND SERVICES TO HAVE A MINIMUM 1.2m COVER TO THE TOP OF THE PIPE. SANITARY SEWERS AND SERVICES TO HAVE A MINIMUM 1.5m COVER TO THE TOP OF THE PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL," INDICATED IN DRAWING DETAILS. CONTRACT DESIGN ENGINEER FOR "SEWER PIPE INSULATION DETAIL," IF REQUIRED.
- 1.11. PLAN TO BE READ IN CONJUNCTION WITH THE FSSWM REPORT AND DRAWING C1.1, C2.1, C2.2, C2.3, C2.4, C2.5 AND C2.6 PREPARED BY MTE CONSULTANTS INC. AND LANDSCAPE PLAN.
- 1.12. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY MASRI O INC. ARCHITECTS DATED FEBRUARY 6, 2025.
- 1.13. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY MACAULAY, WHITE & MUIR LTD., DATED JUNE 28, 2024. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
- 1.14. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO ENTERING UPON NEIGHBOURING LANDS TO UNDERTAKE ANY WORK. THESE PERMISSIONS MUST BE OBTAINED PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT CONTRACTOR'S OWN RISK.
- 1.15. RETAINING WALLS TO BE DESIGNED BY OTHERS. FOR WALLS EXCEEDING 1.0m IN HEIGHT, SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL AND BUILDING PERMIT MUST BE OBTAINED. WALLS OVER 0.6m IN HEIGHT REQUIRE HIGH SIDE OF RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING MATERIAL.
- 1.16. ALL RETAINING WALLS 1.0m IN HEIGHT AND OVER MUST BE APPROVED BY THE CBO. ALL RETAINING WALLS LESS THAN 1.0m IN HEIGHT MUST BE APPROVED BY PLANNING.
- 1.17. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1 METRE FROM FOUNDATION WALL.
- 1.18. FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUAL.
- 1.19. MAXIMUM GRASSSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GRASS COVER.
- 1.20. SIDE SLOPES OF ALL STOCKPILES OR EXTRACTION FACES TO BE MAINTAINED AT 70 DEGREES OR LESS BETWEEN EARLY APRIL AND LATE AUGUST TO DETER BANK SWALLOWS FROM NESTING.
- 1.21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC., SHALL CONFORM TO THE STANDARDS OF THE LOCAL MUNICIPALITY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 1.22. ACCESS TO GILBERT WTP (MUNICIPAL WATER SUPPLY) TO THE EAST OF THE SITE MUST BE MAINTAINED AT ALL TIMES.
- 1.23. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.24. CONTRACTOR TO MAINTAIN A 'CONFINED TRENCH CONDITION' IN ALL SEWER AND SERVICE TRENCHES.
- 1.25. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED AND CCTV'D, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.

**2. STORM SEWERS**

- 2.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030, 802.031, OR 802.032. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL, AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 2.2. STORM SEWERS, 150mmØ AND SMALLER, SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 2.3. STORM SEWERS 200mmØ TO 375mmØ SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 OR RIBBED PVC SEWER PIPE CSA B182.4-M90 ASTM-F794 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS. RIBBED PVC NOT TO BE USED WITHIN RIGHT-OF-WAY.

- 2.4. STORM SEWERS, 450mmØ AND LARGER, SHALL BE CONCRETE PIPE, CSA-A257.2 65-D WITH RUBBER GASKET JOINT OR RIBBED PVC SEWER PIPE CSA B182.4-M90 ASTM-F794 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC RIBBED PVC NOT TO BE USED WITHIN RIGHT-OF-WAY.
- 2.5. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.
- 2.6. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mmØ PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.
- 2.7. CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSD 705.010.
- 2.8. DITCH INLET CATCHBASINS TO BE 600mm SQUARE AS PER OPSD 705.030 WITH 3:1 SLOPE ON GRATE UNLESS OTHERWISE SPECIFIED.
- 2.9. ALL STORM STRUCTURES TO HAVE A MINIMUM 600mm DEEP SUMP. WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNUOT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.
- 2.10. MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
- 2.11. STORM MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE 'b' CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSD 400.100. DITCH INLET CATCHBASIN GRATES TO BE PER OPSD 403.010.
- 2.12. ADJUSTMENT UNITS FOR STORM STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.
- 2.13. STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER TO TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED SEWER PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL," INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-1.76 (R10) INSULATING FACTOR (TYPICALLY 50-65mm). INSULATION BOARD WIDTH SHALL BE 1.8m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 2.4m FOR 201mm-800mm DIAMETER AND 3.0m FOR 801mm-1400mm. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.
- 2.14. UNDER NO CIRCUMSTANCES SHALL THE BUILDING FOUNDATION DRAINS BE CONNECTED DIRECTLY TO THE STORM SEWER SYSTEM.
- 2.15. ALL WEEPING TILE DRAINAGE TO BE PUMPED TO THE STORM SEWER SYSTEM.

**3. SANITARY SEWERS**

- 3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 3.2. SANITARY SEWERS 150mmØ AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 3.3. MANHOLES TO BE 1200mmØ PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.
- 3.4. MANHOLES TO BE BENCHED PER OPSD 701.021.
- 3.5. SANITARY MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE 'A'.
- 3.6. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
- 3.7. ADJUSTMENT UNITS FOR SANITARY STRUCTURES TO BE IN ACCORDANCE WITH OPSD 704.010 OR 704.011.
- 3.8. SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.5m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL," INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-1.76 (R10) INSULATING FACTOR (TYPICALLY 50-65mm). INSULATION BOARD WIDTH SHALL BE 1.8m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 2.4m FOR 201mm-800mm DIAMETER AND 3.0m FOR 801mm-1400mm. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.
- 3.9. HDPE FORCEMAIN SHALL HAVE TWU STRANDED COPPER, AWG8 TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS.
- 3.10. ALL FORCEMAINS AND SERVICES TO HAVE MINIMUM 1.7m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "FORCEMAIN PIPE INSULATION DETAIL," INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-3.52 (R20) INSULATING FACTOR (TYPICALLY 100-130mm). INSULATION BOARD WIDTH SHALL BE 2.4m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 3.0m FOR 201mm-305mm DIAMETER. INSULATION BOARD SHALL BE OVERLAPPED WITH MINIMUM 150mm MINIMUM 300mm AT ALL JOINTS. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.
- 3.11. CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSD 410.
- 3.12. SANITARY FORCEMAIN TO BE 32 MM DIAMETER DR 13.5 HDPE. FORCEMAIN SIZE PROVIDED BY COUNTY OF BRANT. MTE DOES NOT ASSUME RESPONSIBILITY FOR SIZING OF FORCEMAIN.
- 3.13. SEWAGE VELOCITY WITHIN FORCEMAIN TO BE BETWEEN RANGE OF 0.8 m/s TO 2.5 m/s. PUMP STATION SUPPLIER SHALL CONFIRM FORCEMAIN VELOCITY MEETS THIS CRITERIA.
- 3.14. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING OF FORCEMAIN BETWEEN CAP AT PUMP STATION AND AND CURE STOP IN ACCORDANCE WITH OPSD 412. TEST PRESSURE TO BE 100 PSI.
- 3.15. COUNTY OF BRANT TO SUPPLY THE PUMP STATION FOR THIS CONTRACT. MTE DOES NOT ASSUME RESPONSIBILITY FOR THE SIZING OR DESIGN OF THE PUMP STATION.
- 3.16. PUMP STATION TO BE INSTALLED BY COUNTY APPROVED CONTRACTOR. SEWER AND FORCEMAIN CONNECTIONS TO THE PUMP STATION TO BE MADE BY COUNTY APPROVED CONTRACTOR.
- 3.17. FORCEMAIN INSTALLATION DOWNSTREAM OF CURB STOP TO BE COMPLETED UNDER SEPARATE CONTRACT.

**4. WATERMAINS**

- 4.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL, AND COVER MATERIAL, TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

- 4.2. FORCEMAIN INSTALLATION DOWNSTREAM OF CURB STOP TO BE COMPLETED UNDER SEPARATE CONTRACT.
- 4.3. WATERMAINS 100mmØ AND LARGER SHALL BE PVC C900 CLASS 235 INSTALLED WITH MINIMUM 1.8 METRES OF COVER. FITTINGS 100mmØ AND LARGER SHALL BE PVC CLASS 235 (DR18) CSA B137.3.
- 4.4. WATERMAIN FITTINGS TO BE SUPPLIED WITH MECHANICAL JOINT RESTRAINTS. FOR WATERMAIN PIPE SIZES 150mmØ OR LESS ALL PIPE JOINTS TO BE RESTRAINED WITHIN 5.0m FROM ALL FITTINGS. IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. FOR WATERMAIN PIPE SIZES GREATER THAN 150mmØ ALL PIPE JOINTS TO BE RESTRAINED WITHIN 10.0m FROM ALL FITTINGS. IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. ALL TEES TO HAVE MINIMUM 2.0m SOLID PIPE LENGTH ON EACH RUN OF THE TEE, OR PROVIDE A THRUST BLOCK PER OPSD 1103.010.
- 4.5. ALL METALLIC FITTINGS (EXCLUDING CURB/MAIN STOP AND BRASS FITTINGS) AND APPURTENANCES INCLUDING: ADDLES, VALVES, TEES, BENDS ETC ARE TO BE WRAPPED WITH AN APPROVED PETROLATUM SYSTEM CONSISTING OF PASTE, MASTIC AND TAPE. PARTICULAR ATTENTION SHALL BE PAID TO ANODE INSTALLATION. CONTRACTOR TO REFER TO THE MOST RECENT EDITION OF THE LOCAL MUNICIPALITY AND AREA MUNICIPALITIES DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES.

- 4.6. WATERMAIN VALVES 100mmØ AND LARGER SHALL BE AS PER AWWA C509 - MUELLER A2360-23 OR APPROVED EQUIVALENT (OPSS 400.100). INCLUDING VALVE BOX AND 2.300" ANODE. ANODE PROTECTION INSTALLED PER LOCAL MUNICIPALITY STANDARDS.
- 4.7. PVC WATERMAIN SHALL HAVE TWU STRANDED COPPER, AWG8 TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS. TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL HYDRANTS AND CAD WELDED TO THE LOWER FLANGE OF THE HYDRANT.
- 4.8. HYDRANTS SHALL BE CANADA VALVE "CENTURY" OR APPROVED EQUIVALENT WITH 2-64mm HOSE CONNECTIONS INCLUDING 5.9kg ANODE. PRIVATE ON-SITE HYDRANTS ARE TO BE PAINTED RED, MUNICIPAL HYDRANTS ARE TO BE PAINTED YELLOW.
- 4.9. MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWWA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT.
- 4.10. SERVICE BOXES TO BE FERGUSON ECLIPSE TYPE FIGURE 222 SIZE NO. 9 OR APPROVED EQUIVALENT COMPLETE WITH ROD AND PLUG.
- 4.11. WATER CONNECTIONS MAY BE PLACED IN THE SAME TRENCH WITH A STORM OR SANITARY CONNECTION ONLY IF A MINIMUM VERTICAL SEPARATION OF 500mm IS MAINTAINED BETWEEN THE WATER SERVICE AND ANY OTHER PIPE IN ACCORDANCE WITH SECTION 7.3.5.7.(2)(a)(i) OF THE ONTARIO BUILDING CODE.
- 4.12. ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 1.8m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "WATER PIPE INSULATION DETAIL," INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-3.52 (R20) INSULATING FACTOR (TYPICALLY 100-130mm). INSULATION BOARD WIDTH SHALL BE 2.4m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 3.0m FOR 201mm-305mm DIAMETER. INSULATION BOARD SHALL BE OVERLAPPED WITH MINIMUM 150mm MINIMUM 300mm AT ALL JOINTS. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.
- 4.13. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPSD 441. DISINFECT ALL WATERMAIN IN ACCORDANCE WITH AWWA C 651-99 INCLUDING CLOWLOW PREVENTOR AND 24 HOUR DUPLICATE SAMPLING. ALL TESTING AND DISINFECTION TO BE COMPLETED UNDER THE SUPERVISION OF THE ENGINEER. **CONTRACTOR TO SUBMIT WATER COMMISSIONING PLAN IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS. THIS PLAN MUST BE APPROVED BY THE LOCAL MUNICIPALITY PRIOR TO ANY WATERMAIN WORK.**
- 4.14. PRIOR TO OCCUPANCY, CONTRACTOR MUST COMMISSION FIRE FLOW TEST FOR PRIVATE ON-SITE HYDRANT. PROVIDE RESULT TO DESIGN ENGINEER.

**5. EROSION AND SEDIMENT CONTROL**

- 5.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE COVER.
- 5.2. ALL SEDIMENT CONTROL FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
- 5.3. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT 2.5m MINIMUM FROM PROPERTY LINE.
- 5.4. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MHs AND CBs.
- 5.5. CONSTRUCTION ACCESS (MUD MAT) TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. CONSTRUCTION ACCESS (MUD MAT) SHALL BE A MINIMUM OF 6.0m WIDE, 11.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. PROPOSED EROSION FENCING TO BE INTO MUD MAT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
- 5.6. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
- 5.7. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
- 5.8. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE LOCAL MUNICIPALITY'S DEPARTMENT OF PUBLIC WORKS.
- 5.9. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
- 5.10. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.

**6. MAINTENANCE RECOMMENDATIONS**

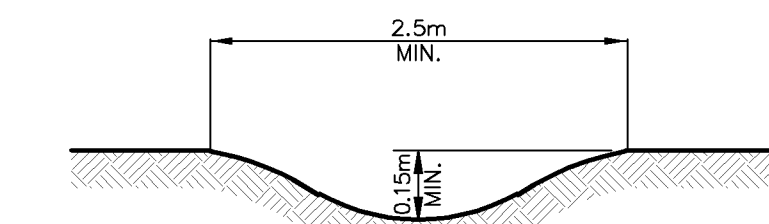
- 6.1. DURING THE COURSE OF CONSTRUCTION CONTRACTOR TO REMOVE SEDIMENT AND CONTAMINANTS FROM STORMWATER MANAGEMENT FACILITIES MONTHLY. FOLLOWING CONSTRUCTION CONTRACT COMPLETION, OWNER TO HIRE QUALIFIED CONTRACTOR TO REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE STORMWATER MANAGEMENT FACILITIES ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN, AS REQUIRED.
- 6.2. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.
- 6.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.

# NOT FOR CONSTRUCTION

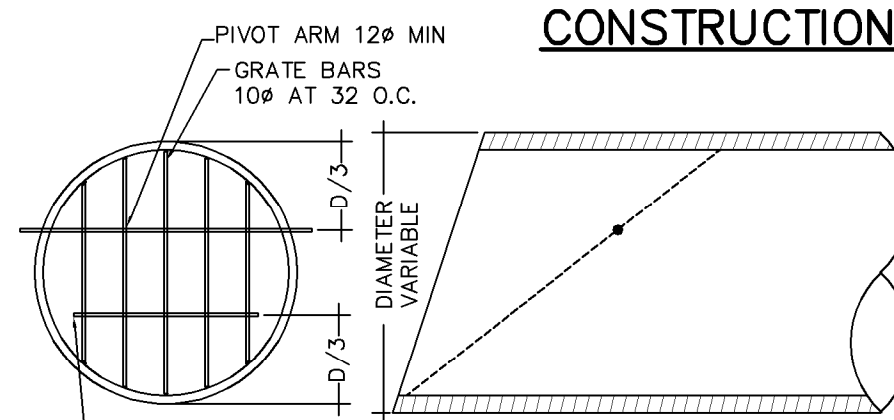
**PAVEMENT STRUCTURE**

MATERIAL	RECOMMENDED THICKNESS	
	LIGHT TRAFFIC	HEAVY TRAFFIC
ASPHALTIC CONCRETE	HL3 40mm	40mm
	HL4 OR HL8 50mm	60mm
GRANULAR 'A' BASE	150mm	150mm
GRANULAR 'B' SUBBASE	450mm	450mm

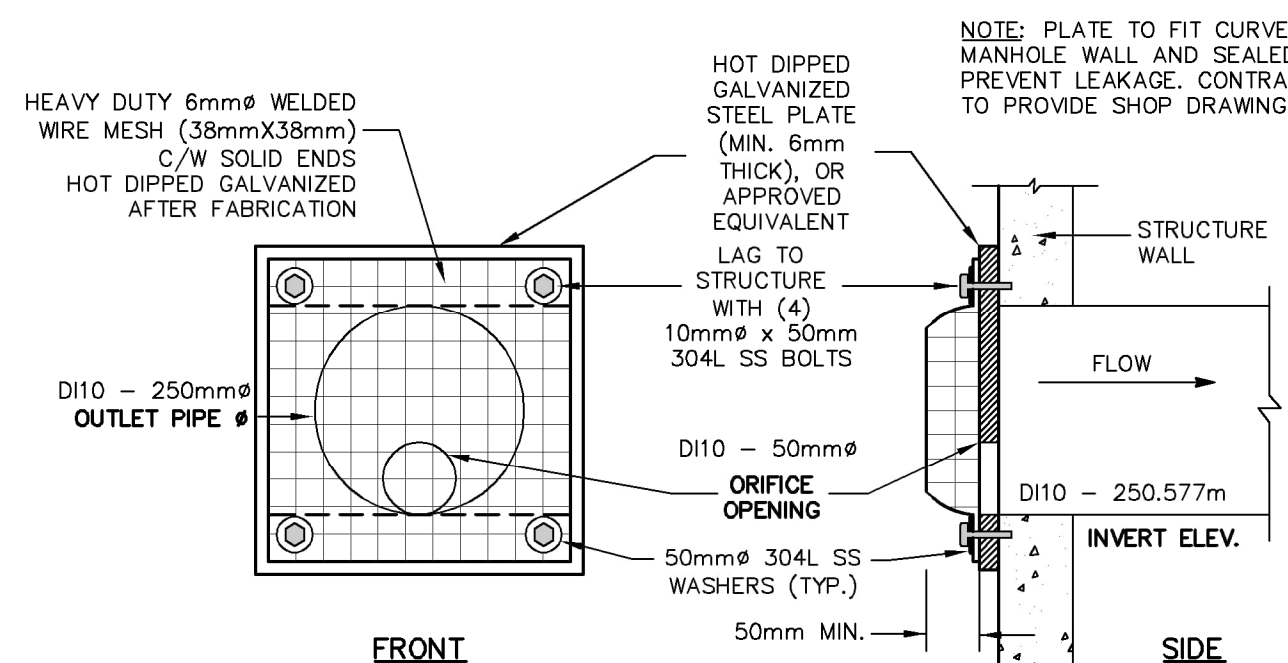
BASED ON GEOTECHNICAL INVESTIGATION PREPARED BY ENGLOBE CORP. - OCTOBER 24, 2024  
AND COUNTY OF BRANT DEVELOPMENT AND ENGINEERING STANDARDS.

**TYPICAL DRAINAGE SWALE**

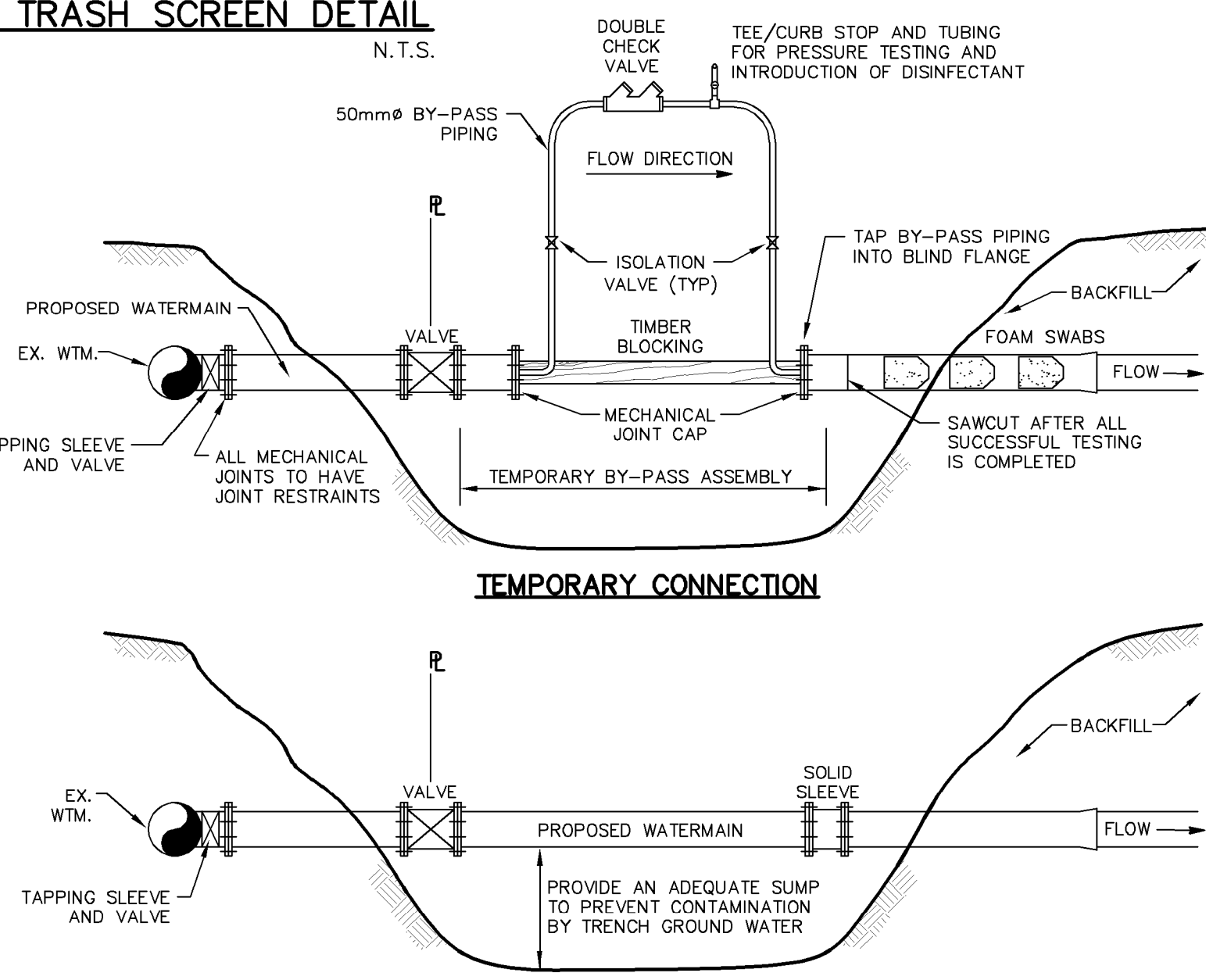
N.T.S.

**RODENT GRATE DETAIL**

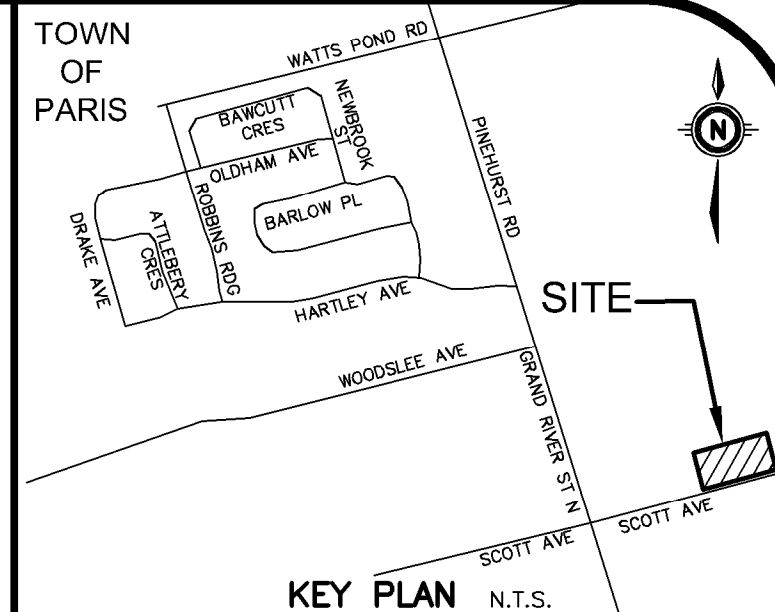
NTS

**ON-LINE ORIFICE PLATE WITH TRASH SCREEN DETAIL**

N.T.S.

**TYPICAL NEW WATERMAIN CONNECTION DETAIL**

N.T.S.

**KEY PLAN**

N.T.S.

**GEODETIC BM** ELEV. = m  
REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

**SITE BENCHMARK** ELEV. = m  
REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

**NOTE TO CONTRACTOR :**

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

**NOTE:**

1. **PROPERTY LINE IS APPROXIMATE ONLY AND SHOULD NOT BE USED FOR DETERMINING SETBACKS OR LAZOUT.**
2. **EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY MACAULAY, WHITE & MUIR LTD.**
3. **INVERTS DENOTED WITH "x" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS PP1-10 COMPLETED BY MTE CONSULTANTS INC. DATED APRIL 16, 2024, AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.**
4. **THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3, C2.4, C2.5, C2x6 AND THE FSSWM REPORT.**

8.			
7.			
6.			
5.	ISSUED FOR TENDER & REISSUED FOR SPA	CXM	2025-06-06
4.	ISSUED FOR PERMITS	CXM	2025-05-20
3.	ISSUED FOR SPA	CXM	2025-04-14
2.	ISSUED FOR SPA	CXM	2025-02-11
1.	ISSUED FOR COORDINATION	CXM	2025-02-03
No. REVISION		BY	YYYY-MM-DD



Engineers, Scientists, Surveyors

519-743-6500

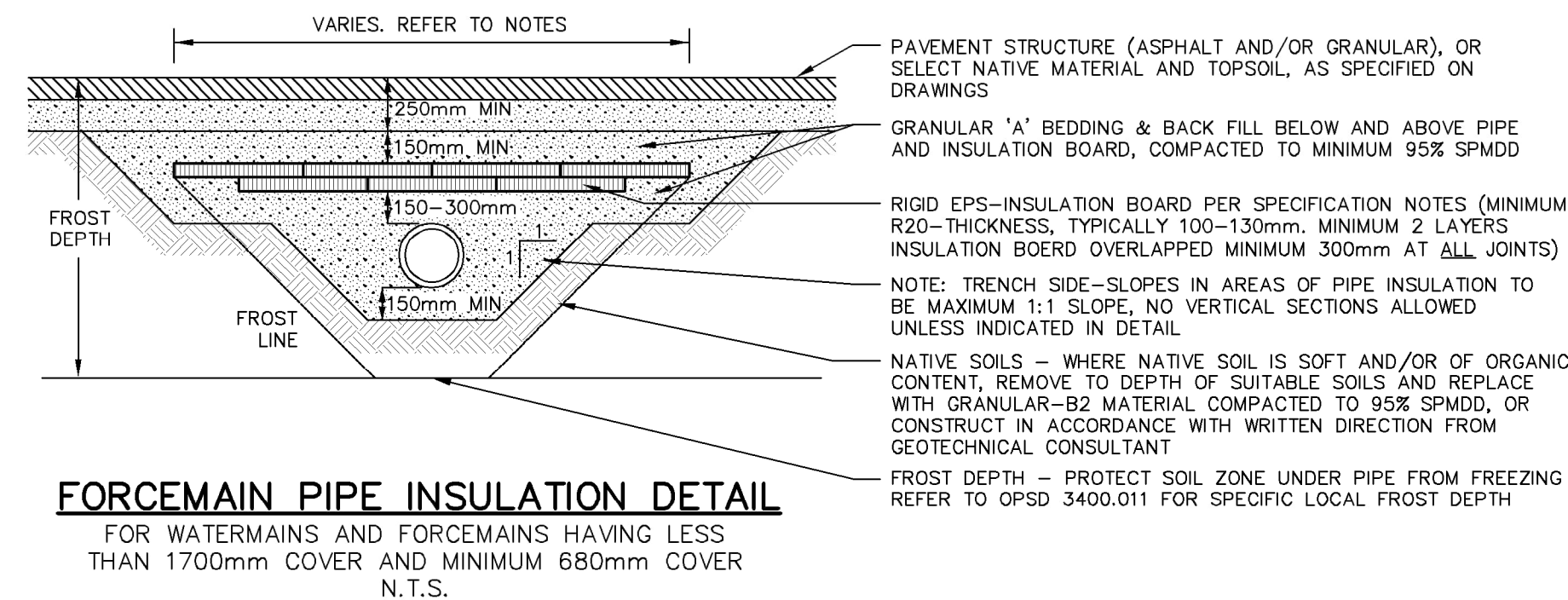


OWNER **COUNTY OF Brant** Simply Grand  
26 PARK AVENUE BURFORD  
PROJECT **BRANT COUNTY FIRE STATION 9**  
CPS-RFT-25-03  
317 GRAND RIVER ST N (SCOTT AVE) PARIS  
DRAWING

**NOTES AND DETAILS PLAN 1**

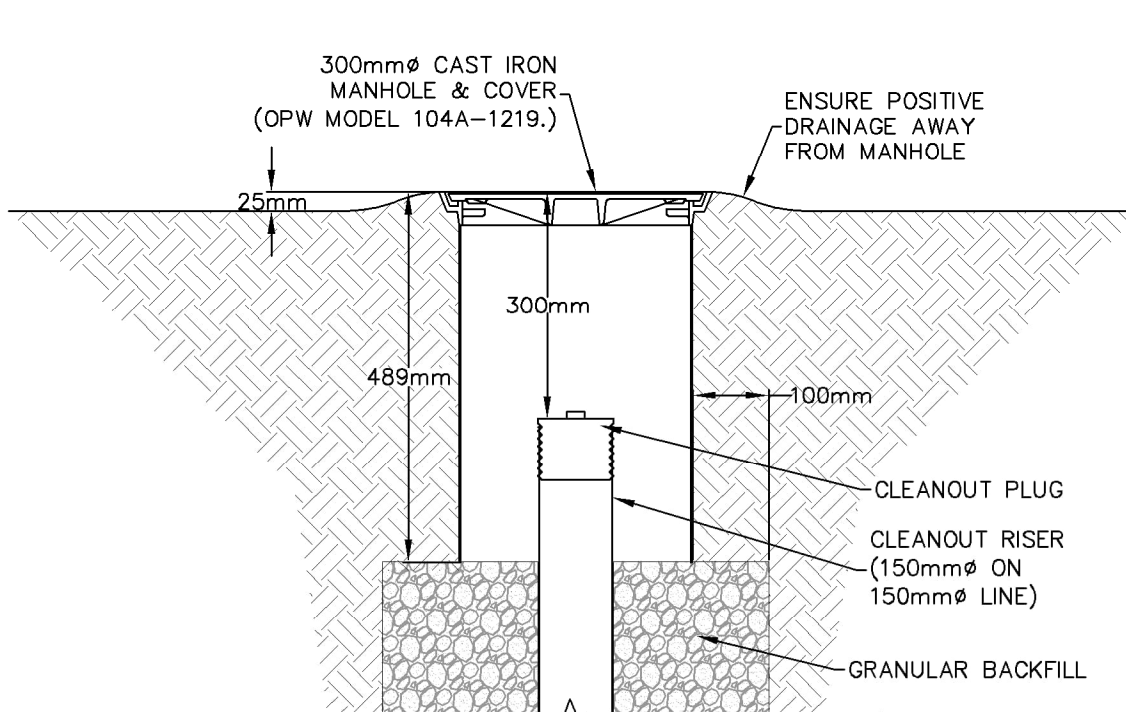
Project Manager	C. METRIE	Project No.	55275-200
Design By	WAM	Checked By	CXM
Drawn By	TXT/GLC	Checked By	WAM
Surveyed By	OTHERS	Drawing No.	
Date	Apr.08/25	<b>C2.4</b>	
Scale	N.T.S.	Sheet	5 of 7



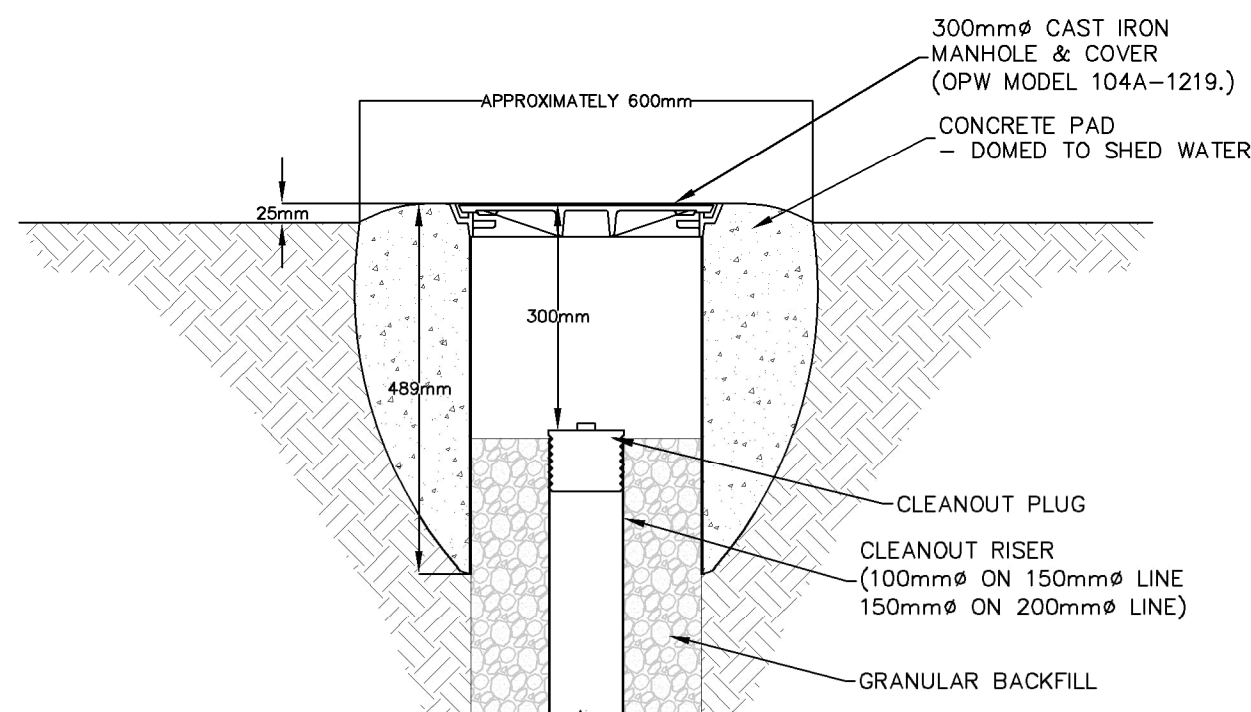


60.4	INSTALLED SYSTEM VOLUME (m <sup>3</sup> ) (PERIMETER STONE INCLUDED)
89.7	SYSTEM AREA (m <sup>2</sup> )
43.2	SYSTEM PERIMETER (m)
<b>PROPOSED ELEVATIONS</b>	
256.126	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
254.221	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
254.069	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
254.069	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
254.069	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
253.840	TOP OF STONE
253.688	TOP OF SC-800 CHAMBER
253.282	250 mm TOP MANIFOLD/CONNECTION INVERT
252.908	600 mm ISOLATOR ROW PLUS INVERT
252.891	300 mm BOTTOM MANIFOLD/CONNECTION INVERT
252.850	BOTTOM OF SC-800 CHAMBER
252.698	BOTTOM OF STONE

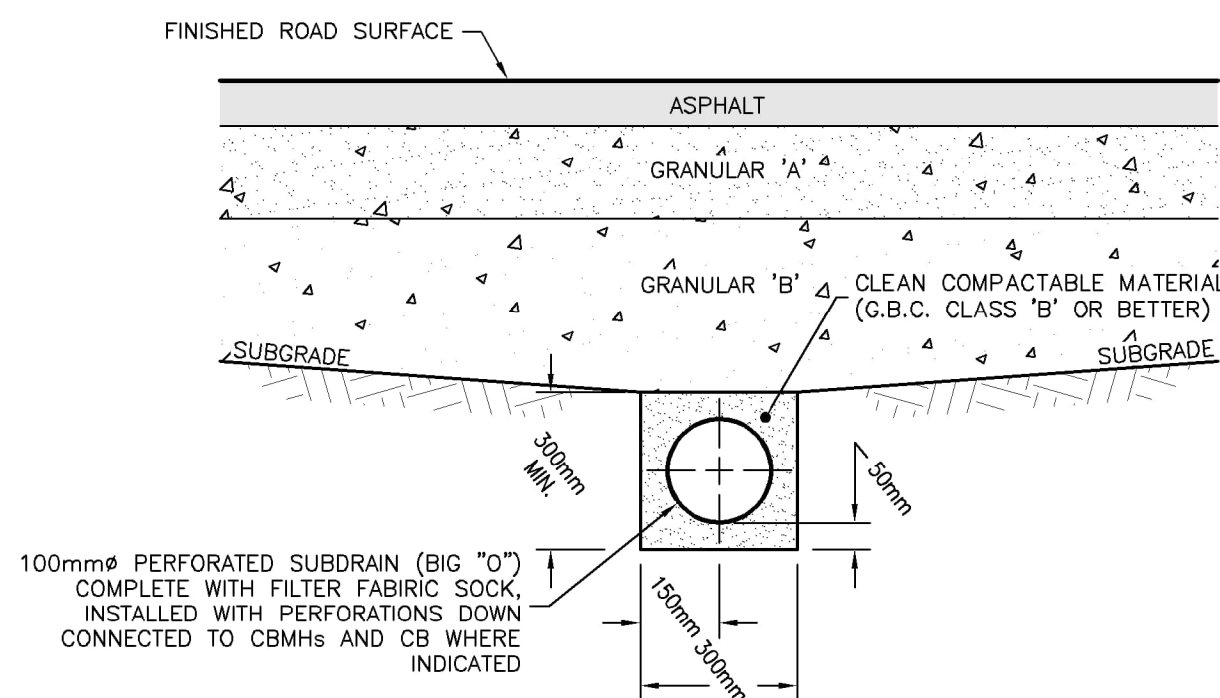
**NOTE: CONTRACTOR TO PROVIDE STANDARD SHOP DRAWINGS FOR REVIEW PRIOR TO CONSTRUCTION**



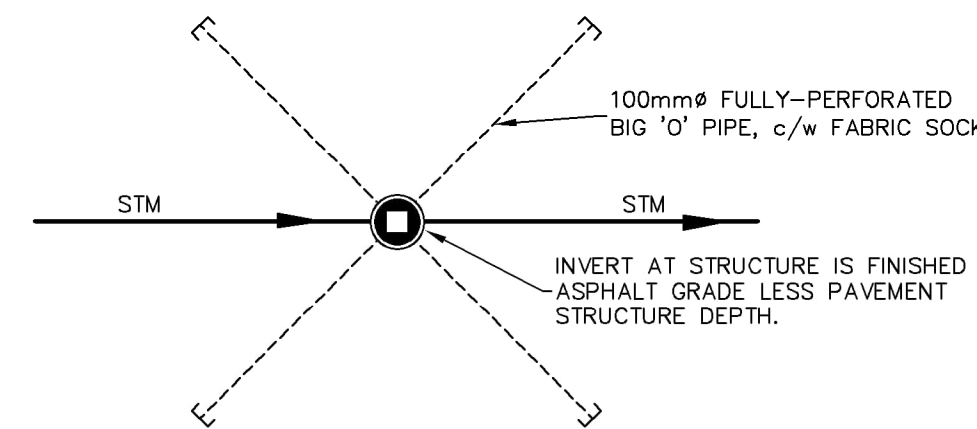
## INSTALLATION OF CLEANOUTS IN LANDSCAPED AREAS



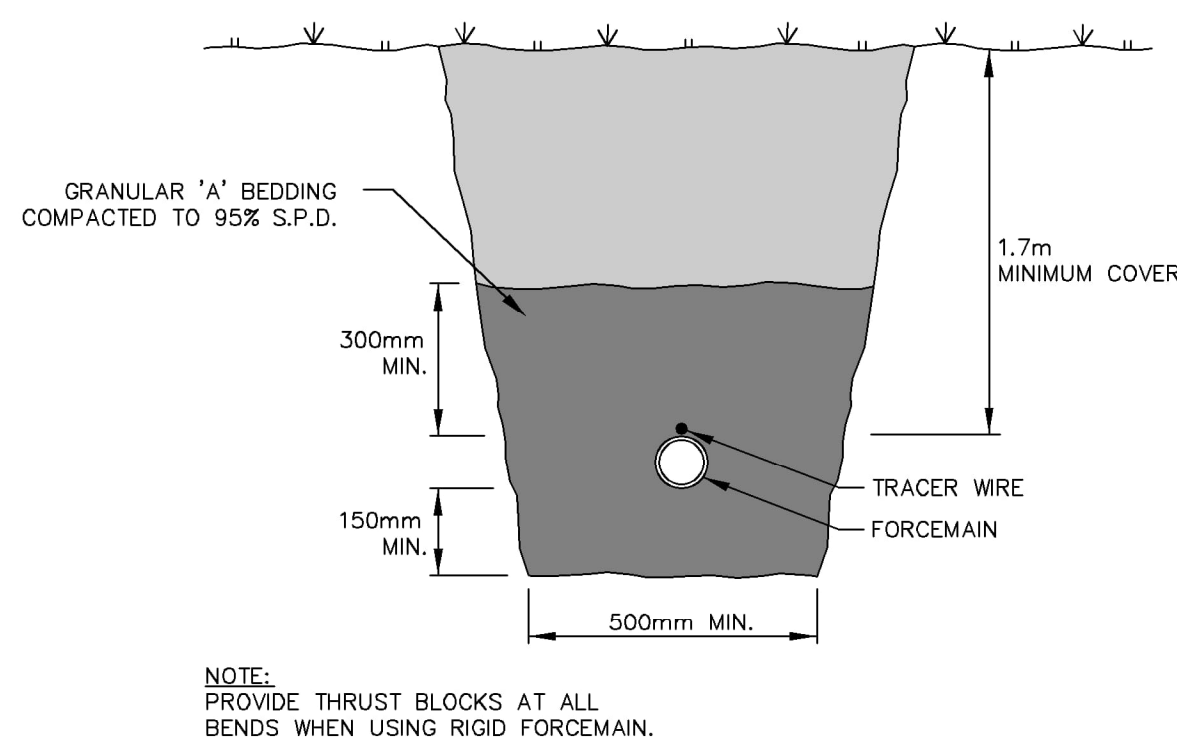
## INSTALLATION OF CLEANOUTS IN VEHICULAR AREAS



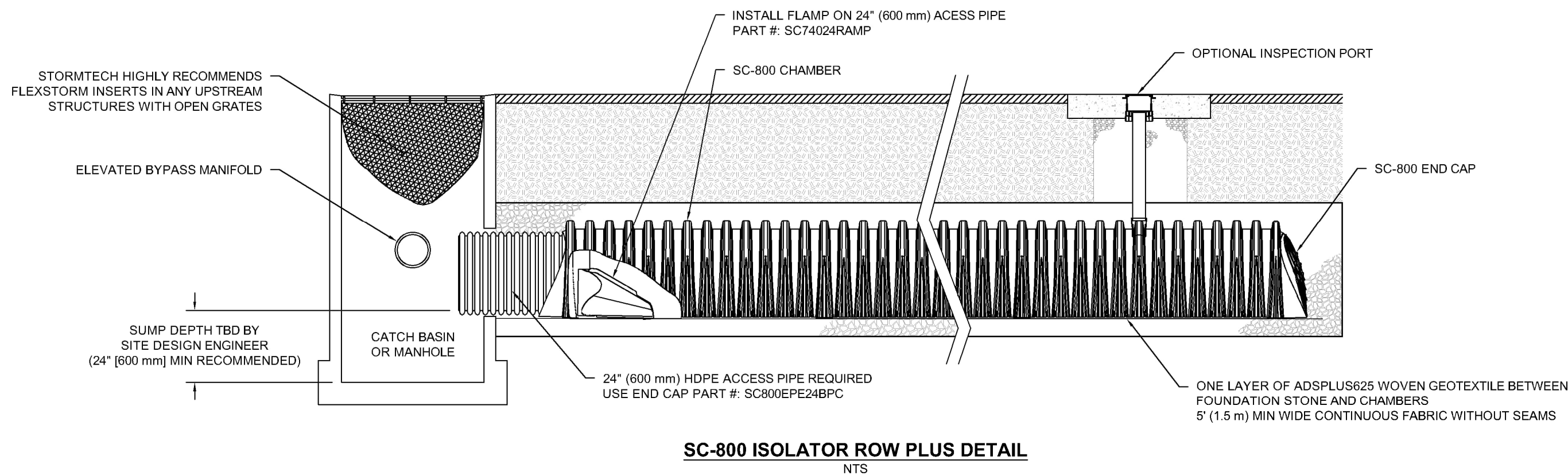
SUBDRAIN DETAIL  
N.T.S.



PAVEMENT SUBDRAIN DETAIL  
TYPICAL PLAN VIEW  
N.T.S.



FORCEMAIN BEDDING DETAIL  
N.T.S.



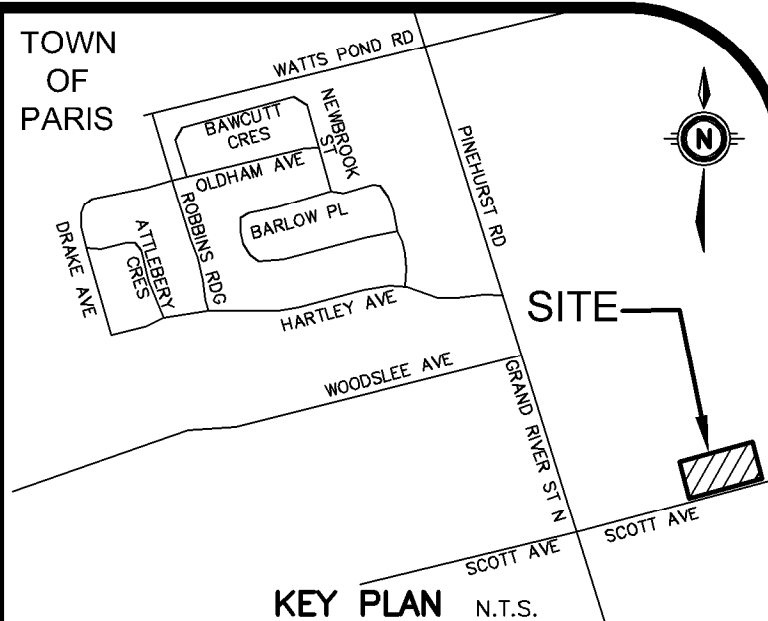
**SC-800 ISOLATOR ROW PLUS DETAIL**  
NTS

## INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**
- A. INSPECTION PORTS (IF PRESENT)
    - A.1. REMOVE OPENED LID ON NYLOPLAST INLINE DRAIN
    - A.2. REMOVE AND CLEAN FLEXITON FILTER IF INSTALLED
    - A.3. USING A FLASHLIGHT AND STADIUM ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MEASUREMENT LOG
    - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
      - IF SEDIMENT IS 1" OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
  - B. ALL ISOLATOR ROW PLUS ROWS
    - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
    - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
      - i. MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
      - ii. FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
    - B.3. IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS**
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
  - C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.**
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMWATER SYSTEM.**

## NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



**GEODETIC BM**                      **ELEV. =**                      m  
REFER TO PLAN PROVIDED BY  
MACAULAY, WHITE & MUIR LTD.

**SITE BENCHMARK**                      **ELEV. =**                      m

REFER TO PLAN PROVIDED BY  
MACAULAY, WHITE & MUIR LTD.

**NOTE TO CONTRACTOR :**

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS  
AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE  
PROCEEDING WITH THE WORK.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER  
AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE  
ENGINEER'S WRITTEN PERMISSION.

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT  
M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT  
OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION  
IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO  
NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT  
OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

**NOTE:**

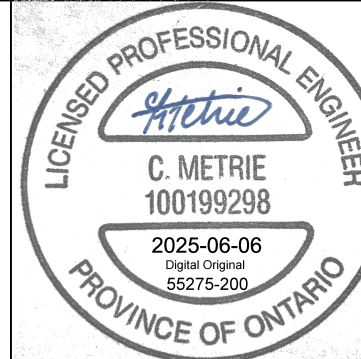
1. PROPERTY LINE IS APPROXIMATE ONLY AND SHOULD NOT BE USED FOR DETERMINING SETBACKS OR LAYOUT.
2. EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY MACAULAY, WHITE & MUIR LTD.
3. INVERTS DENOTED WITH "±" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS PP1-10 COMPLETED BY MTE CONSULTANTS INC. DATED APRIL 16, 2024, AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.
4. THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3, C2.4, C2.5, C2.6 AND THE FSSWM REPORT.

8.			
7.			
6.			
5.	ISSUED FOR TENDER & REISSUED FOR SPA	CXM	2025-06-06
4.	ISSUED FOR PERMITS	CXM	2025-05-20
3.	REISSUED FOR SPA	CXM	2025-04-14
2.	ISSUED FOR SPA	CXM	2025-02-11
1.	ISSUED FOR COORDINATION	CXM	2025-02-03
No.	REVISION	BY	YYYY-MM-DD



Engineers, Scientists, Surveyors

519-743-6500



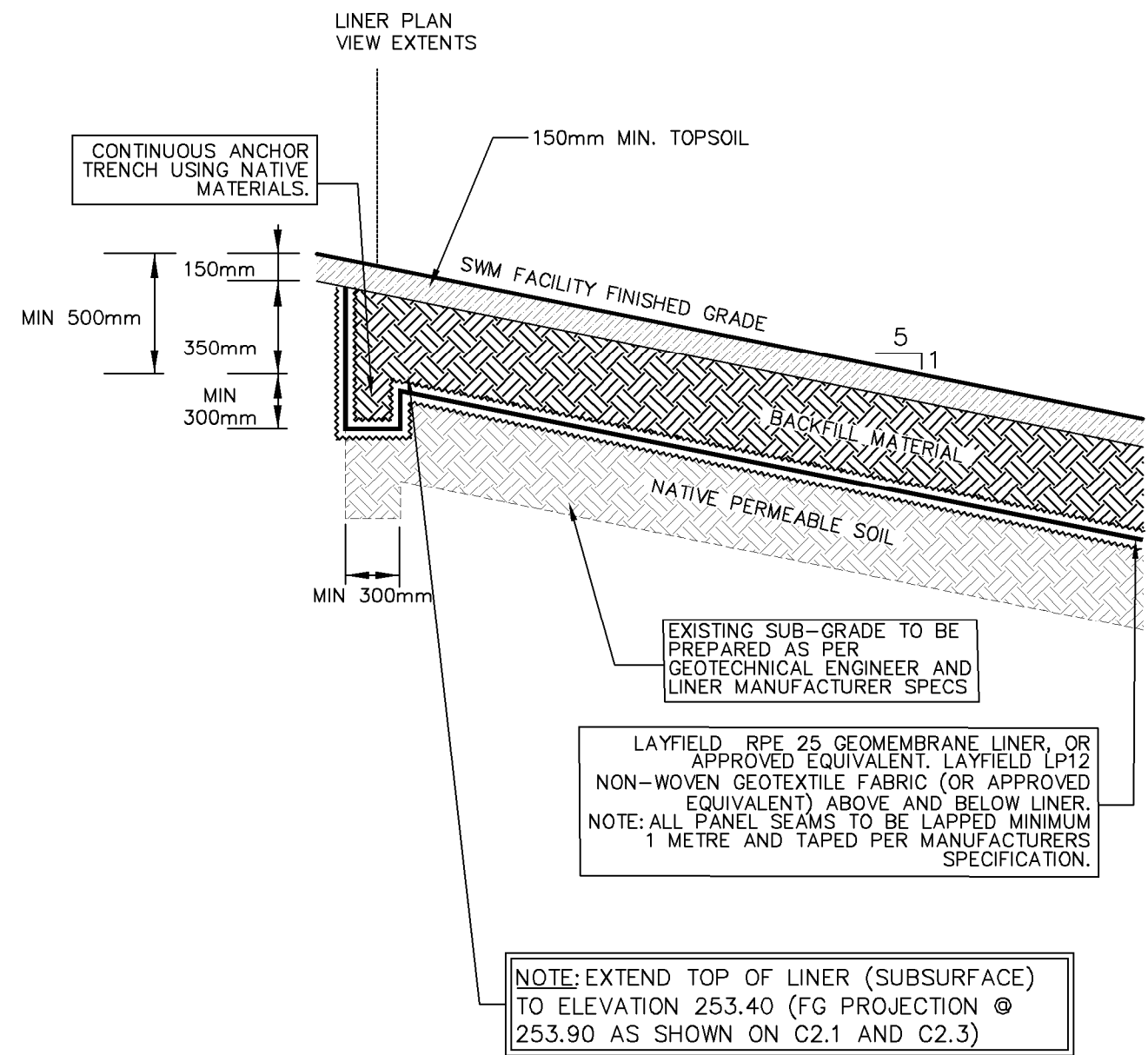
OWNER  
COUNTY OF  
**Brant** Simply Grand  
26 PARK AVENUE  
BLUFFORD

26 PARK AVENUE	BURFORD
PROJECT	
BRANT COUNTY FIRE STATION 9	
CPS-RFT-25-03	
317 GRAND RIVER ST N (SCOTT AVE)	PARIS
DRAWING	

## NOTES AND DETAILS PLAN 2

Project Manager	C. METRIE	Project No.	<b>55275-200</b>
Design By	WAM	Checked By	CXM
Drawn By	TXT/GLC	Checked By	WAM
Surveyed By	OTHERS	Drawing No.	<b>C2.5</b>
Date	Apr.08/25		
Scale	N.T.S.	Sheet 6 of 7	

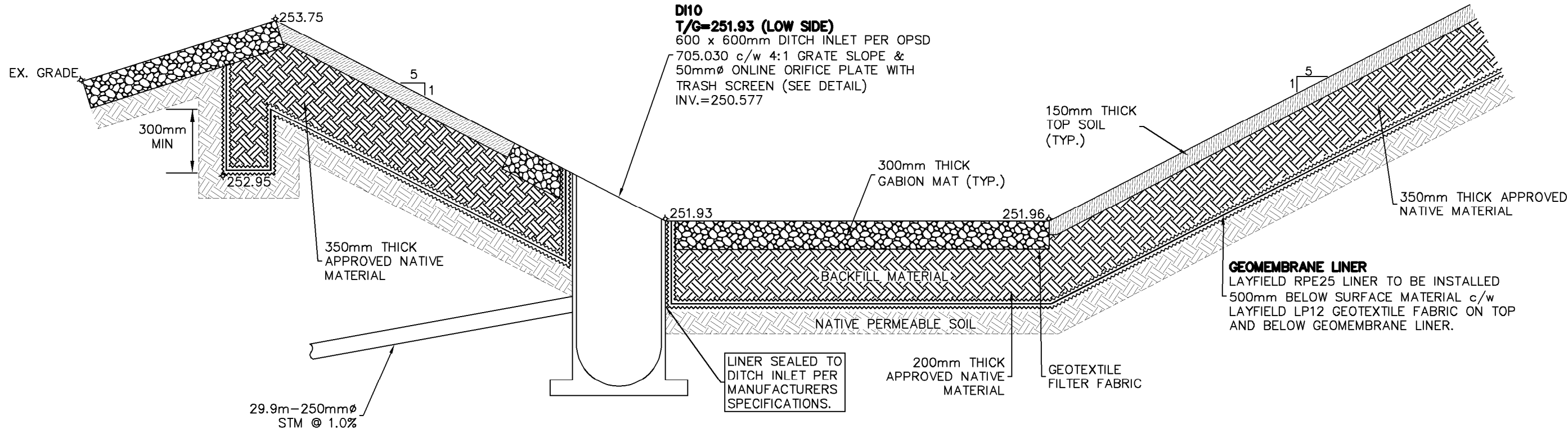




DETAIL - TYPICAL ANCHOR STATE  
N.T.S.

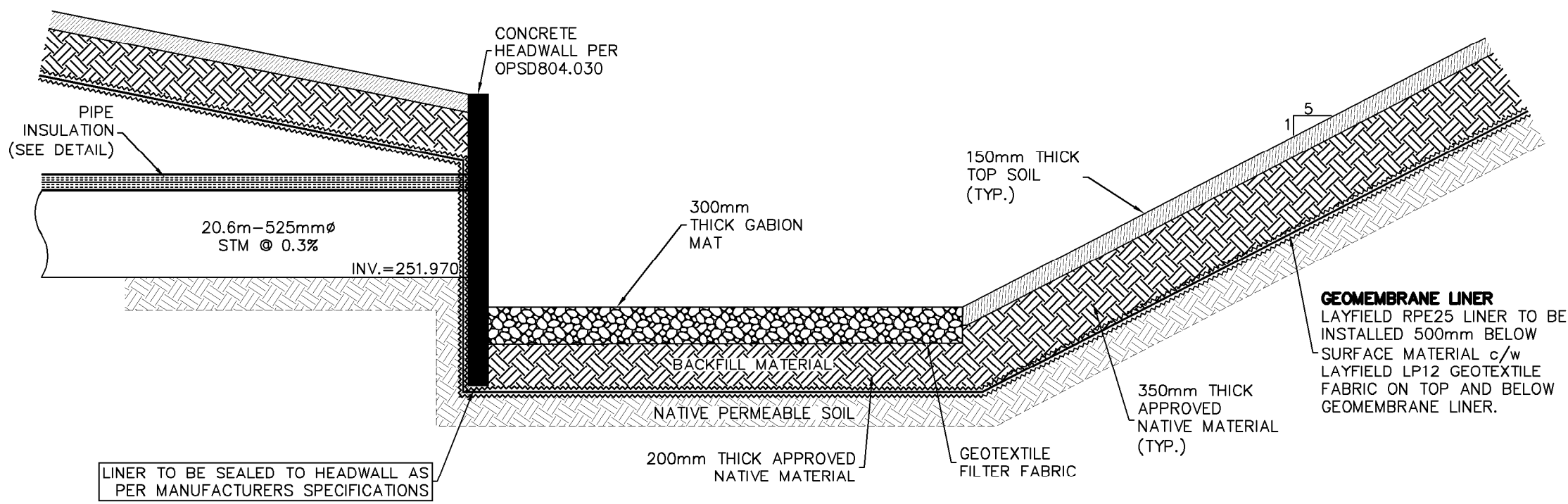
LINER CONSTRUCTION DETAILS AND SPECIFICATIONS

- THE LOCATION AND ELEVATION OF EXISTING INFRASTRUCTURE, SERVICES AND UTILITIES TO BE VERIFIED BY THE CONTRACTOR AT THEIR EXPENSE. CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION AND/OR REPAIR OF DISTURBANCES TO SAME DURING CONSTRUCTION.
- FOLLOWING EXCAVATION TO SUBGRADE:
  - ALL STONES LARGER THAN 25mm, ALL ANGULAR OR SHARP ROCK OR STONE FRAGMENTS, ALL ROOTS, METALLIC OBJECTS, CONSTRUCTION DEBRIS, AND ANY OTHER DELETERIOUS MATTER TO BE REMOVED FROM POND SUB-GRADE.
  - SUB-GRADE TO BE PROOF-ROLLED.
- SUB-GRADE TO BE INSPECTED AND ACCEPTED BY SUPERVISING GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF LINER. SURFACE TO BE CORRECTED AS REQUIRED, AND MAINTAINED IN SUITABLE CONDITION, UNTIL PLACEMENT OF LINER. LINER MANUFACTURER ALSO TO APPROVE SUB-BASE PRIOR TO LINER PLACEMENT.
- SUB-GRADE TO BE PROTECTED FROM DESICCATION CRACKING, AND ANY MARKS, RUTS, WINDROWS, AND STANDING WATER TO BE REMOVED FROM SUBGRADE PRIOR TO LINER PLACEMENT.
- ACCEPTABLE LINER MATERIALS ARE LAYFIELD RPE 25 GEOMEMBRANE LINER, OR ALTERNATE MATERIAL HAVING COMPARABLE SPECIFICATIONS. SUBMIT PROPOSED SPECIFICATIONS FOR REVIEW & APPROVAL PRIOR TO ORDERING OF POND LINER.
- LINER PANELS TO BE CAREFULLY PLACED, USING MANUFACTURER'S RECOMMENDATIONS FOR PLACEMENT INCLUDING AROUND STRUCTURES, LAPPING (1m), ANCHORING AND TAPING; SUBMIT FULL COPY OF MANUFACTURER'S INSTALLATION AND MAINTENANCE GUIDELINES TO OWNER'S GEOTECHNICAL ENGINEER AND MTE CONSULTANTS INC. PRIOR TO ORDERING OF LINER. LINER TO BE PLACED ON LAYFIELD LP12 NON-WOVEN GEOTEXTILE (OR APPROVED EQUIVALENT). LINER TO BE COVERED WITH LAYFIELD LP12 NON-WOVEN GEOTEXTILE (OR APPROVED EQUIVALENT).
- COMPLETED LINER INSTALLATION TO BE BACKFILLED WITH A MIN. 500mm THICKNESS OF NATIVE MATERIAL APPROVED BY SUPERVISING GEOTECHNICAL CONSULTANT. ALL STONES LARGER THAN 25mm, ALL ANGULAR OR SHARP ROCK OR STONE FRAGMENTS, ALL ROOTS, METALLIC OBJECTS, CONSTRUCTION DEBRIS, AND ANY OTHER DELETERIOUS MATTER TO BE REMOVED PRIOR TO PLACEMENT.
- THE USE OF NATIVE COVER MATERIAL WILL REQUIRE SORTING AND STOCKPILING TO ENSURE SUFFICIENT QUANTITY IS AVAILABLE FOR PLACEMENT.
- BACKFILL MATERIAL TO BE PLACED USING EXTENDED-REACH BACKHOE/EXCAVATOR BUCKET WITHOUT TRACKING ONTO LINER SURFACE, OR LOW-GROUND-PRESSURE EQUIPMENT WITH MAXIMUM 200 kPa (30 psf) GROUND PRESSURE (i.e. CAT D3-LGP or D4-LGP, OR EQUIVALENT). SKID-STEER EQUIPMENT NOT PERMITTED TO MAKE TURNS OVER LINER (STRAIGHT-RUNS ONLY). ALL MATERIAL TO BE GENTLY PLACED OR "ROLLED", NOT PUSHED ACROSS LINER CREATING SURFICIAL SHEAR FORCES. SPOTTER TO BE USED ADJACENT TO FILL PLACEMENT AREA TO VISUALLY MONITOR PLACEMENT; WHERE SHEAR FORCES HAVE BEEN TRANSMITTED TO LINER, CHECK FOR LINER DAMAGE UNDER MATERIAL. MATERIAL TO BE COMPACTED TO 95% SPMD USING ONLY WALK-BEHIND OR SMALL TWIN-DRUM RIDING EQUIPMENT. COMPACTED LINER MATERIAL TO BE WITHIN +/- 30mm OF SPECIFIED THICKNESS (AVERAGE, NOT UNIFORMLY THICK/THIN).

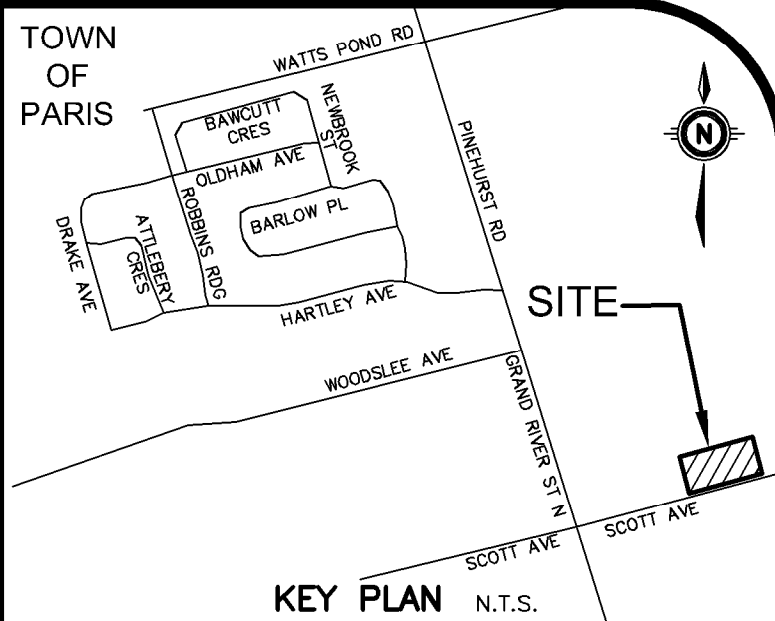


DRY POND OUTLET DETAIL  
N.T.S.

NOT FOR CONSTRUCTION



DRY POND INLET DETAIL  
N.T.S.



GEODETIC BM ELEV. = m  
REFER TO PLAN PROVIDED BY MACAULAY, WHITE & MUIR LTD.

SITE BENCHMARK ELEV. = m  
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1.	ISSUED FOR COORDINATION	CXM 2025-02-03
No.	R E V I S I O N	BY YYYY-MM-DD

**MTE**  
Engineers, Scientists, Surveyors  
519-743-6500

PROFESSIONAL ENGINEER  
C. METRIE  
100199298  
2025-06-06  
PROVINCE OF ONTARIO

OWNER  
COUNTY OF Brant  
26 PARK AVENUE BURFORD  
PROJECT  
BRANT COUNTY FIRE STATION 9  
CPS-RFT-25-03  
317 GRAND RIVER ST N (SCOTT AVE) PARIS  
DRAWING

NOTES AND DETAILS PLAN 3

Project Manager C. METRIE	Project No. 55275-200
Design By WAM	Checked By CXM
Drawn By TXT/GLC	Checked By WAM
Surveyed By OTHERS	Drawing No.
Date Apr.08/25	<b>C2.6</b>
Scale N.T.S.	Sheet 7 of 7