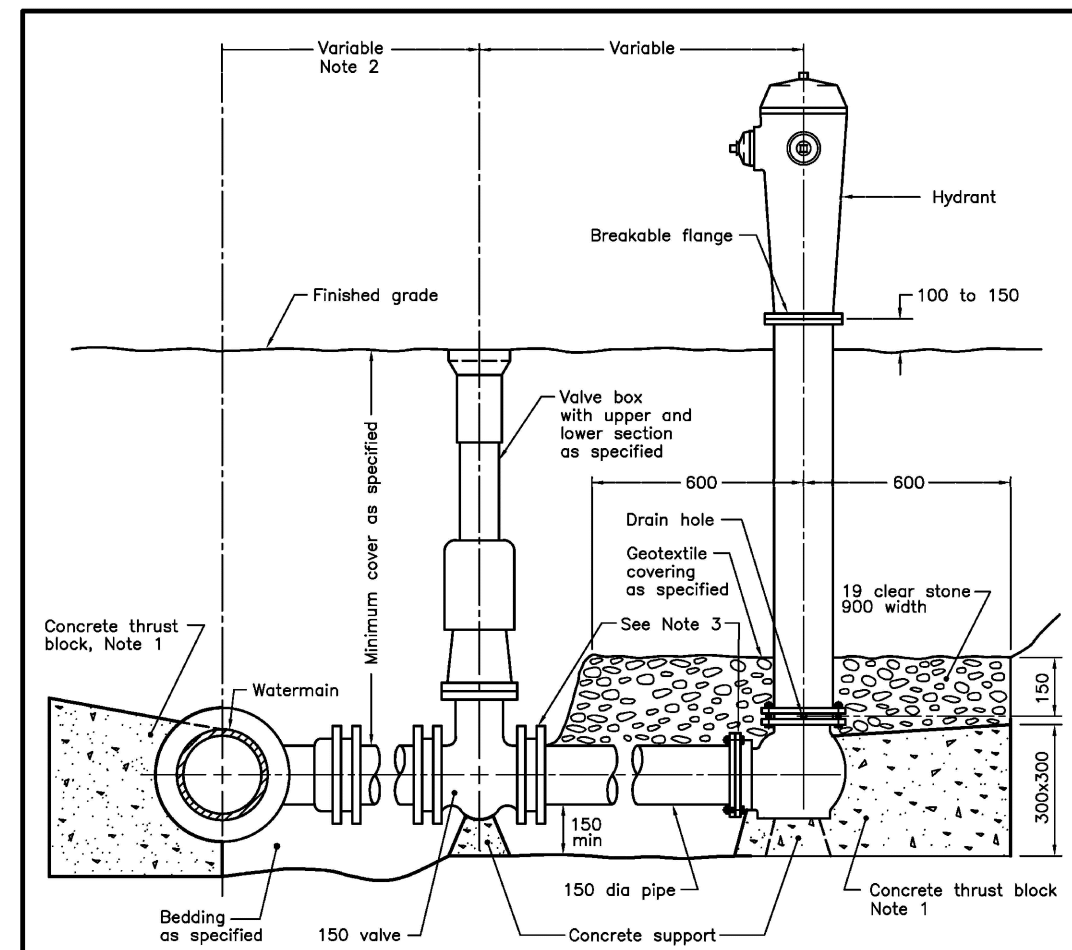


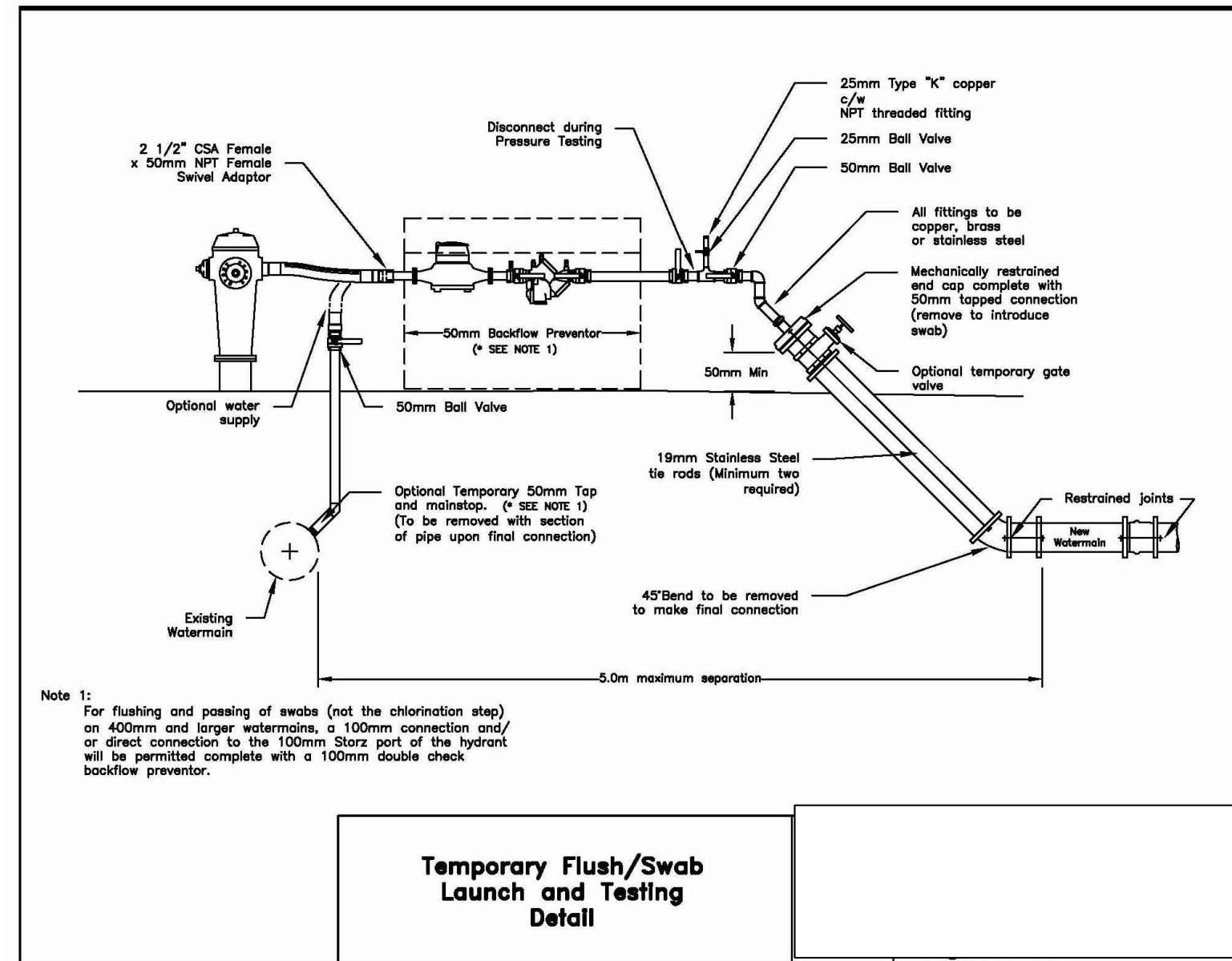
NOTES:
 1 Anode shall be placed at least 1.0m away from the water system pipe and appurtenances and as deep as the bottom of the pipe and appurtenances or as specified in Contract Documents.
 2 Anode connecting wire shall be loosely wrapped around pipes and fittings and knotted.
 3 Protective coating shall be applied to all thermite welds.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2020	Rev 3	
CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS			
			OPSD 1109.011



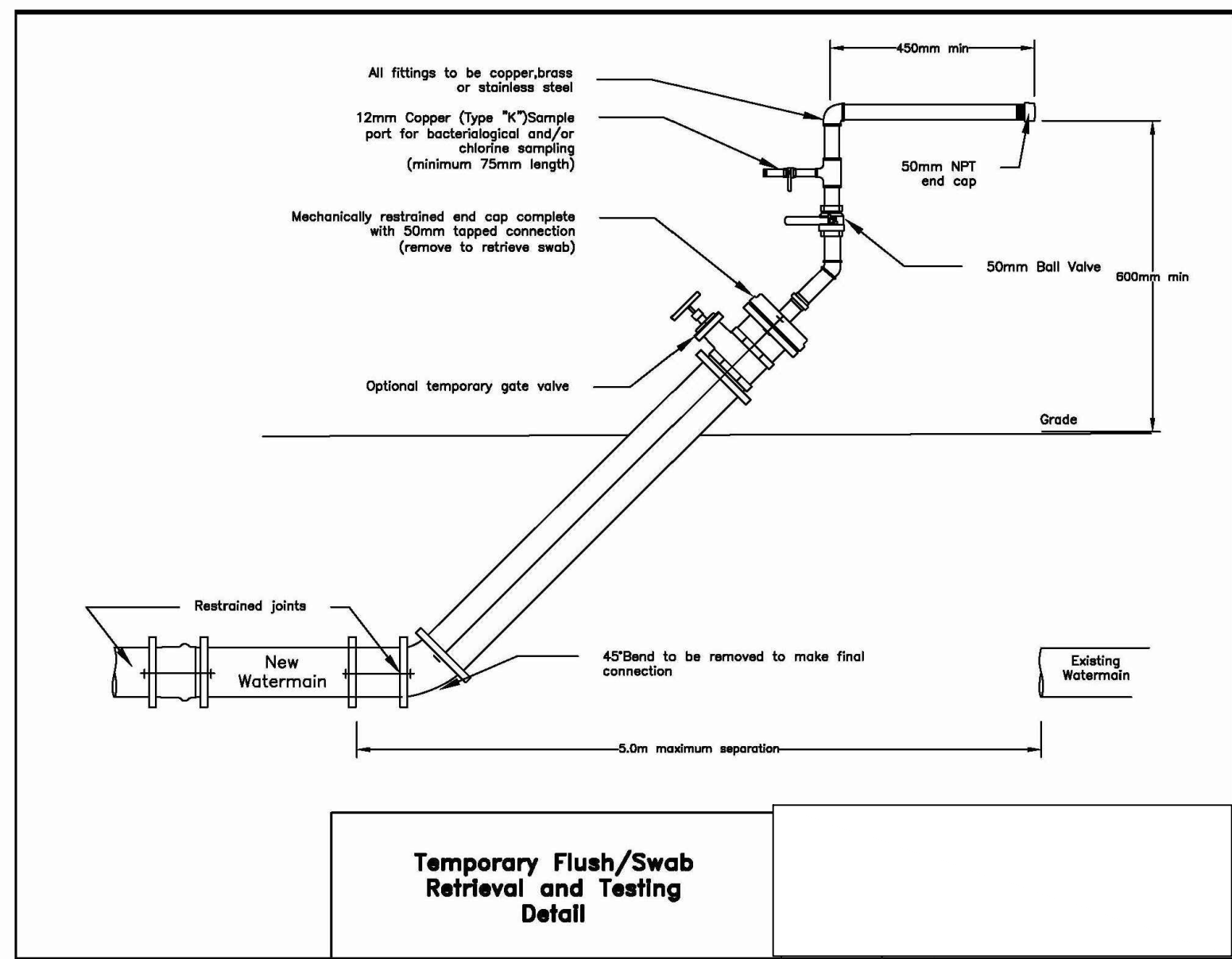
NOTES:
 1 All concrete thrust blocks shall be poured against undisturbed ground.
 2 When specified, for watermains 400mm and less, locate valve within 1.0m of centreline of watermain. Retaining and restraining devices shall be utilized. For watermains 600mm and over, ball valve with flanged end directly to flanged tee.
 3 Retaining and restraining devices shall be as specified.
 A Bond breaker shall be used between the concrete and the fittings and appurtenances.
 B Bolts and nuts for buried flange to flange connections shall be stainless steel.
 C When required, flange of standpipe extensions shall not be in frost zone.
 D This OPSD shall be read in conjunction with OPSD 1103.010 and 1103.020.
 E Backfill material within 500mm of service box shall be native or imported, as specified.
 F Tracer wire shall be installed as specified.
 G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3	
HYDRANT INSTALLATION			
			OPSD 1105.010

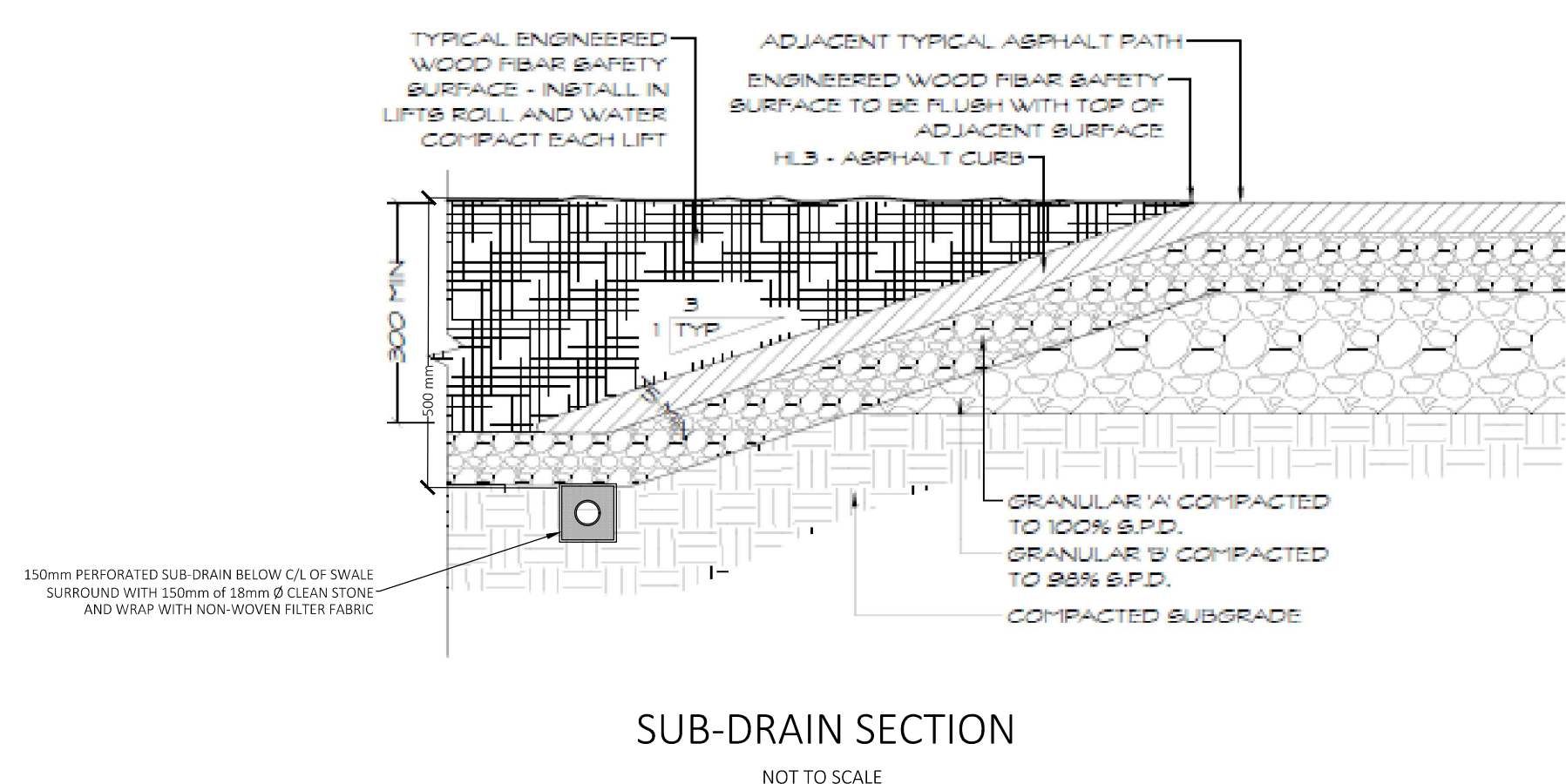
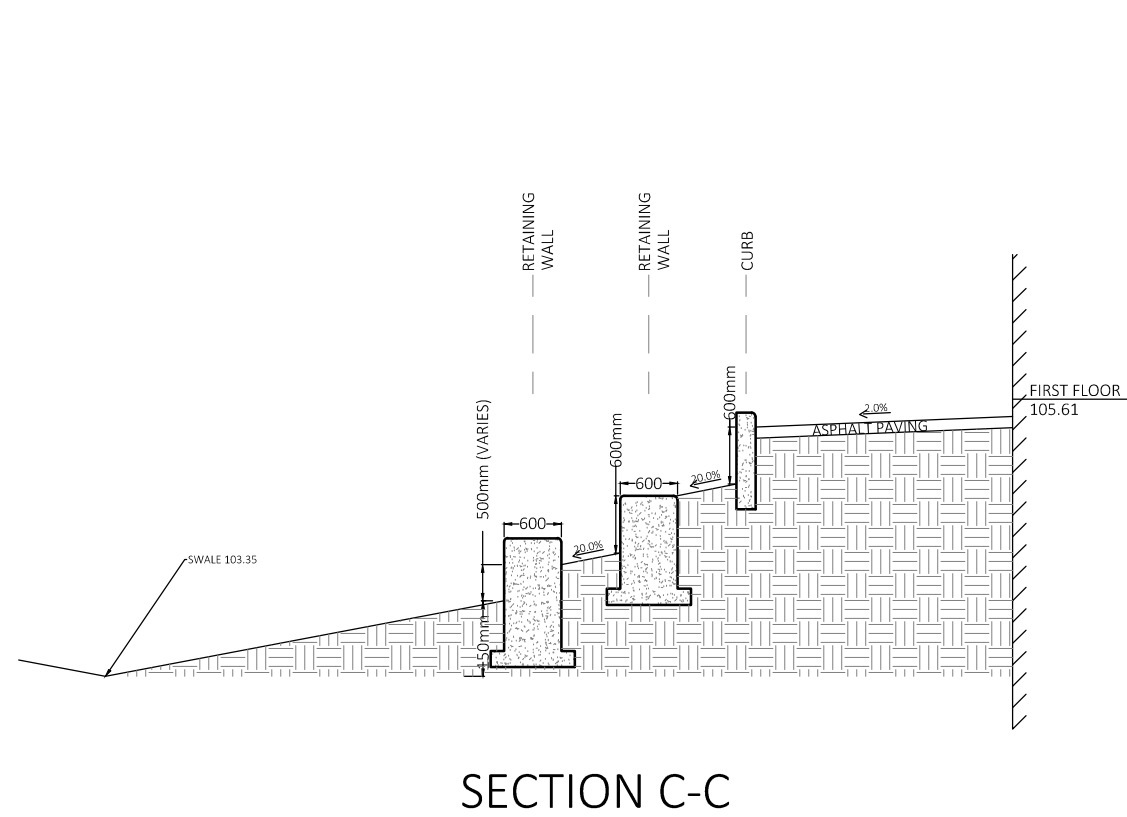
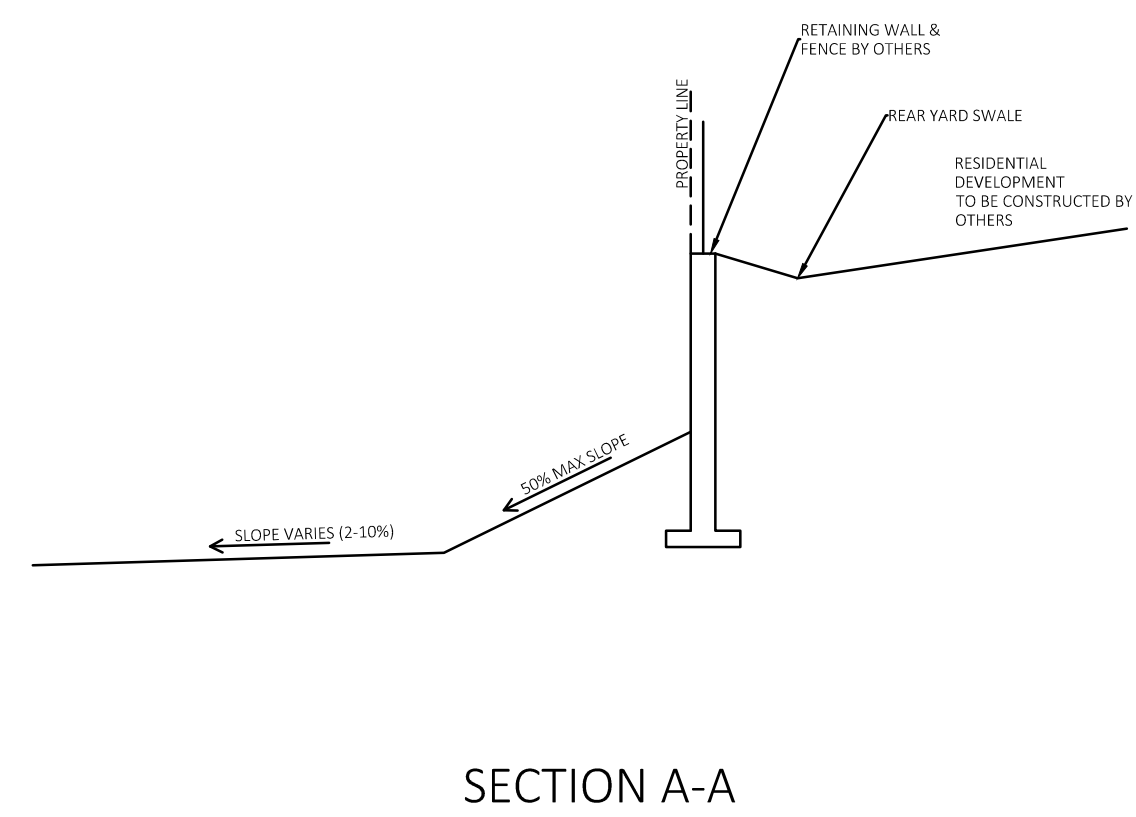
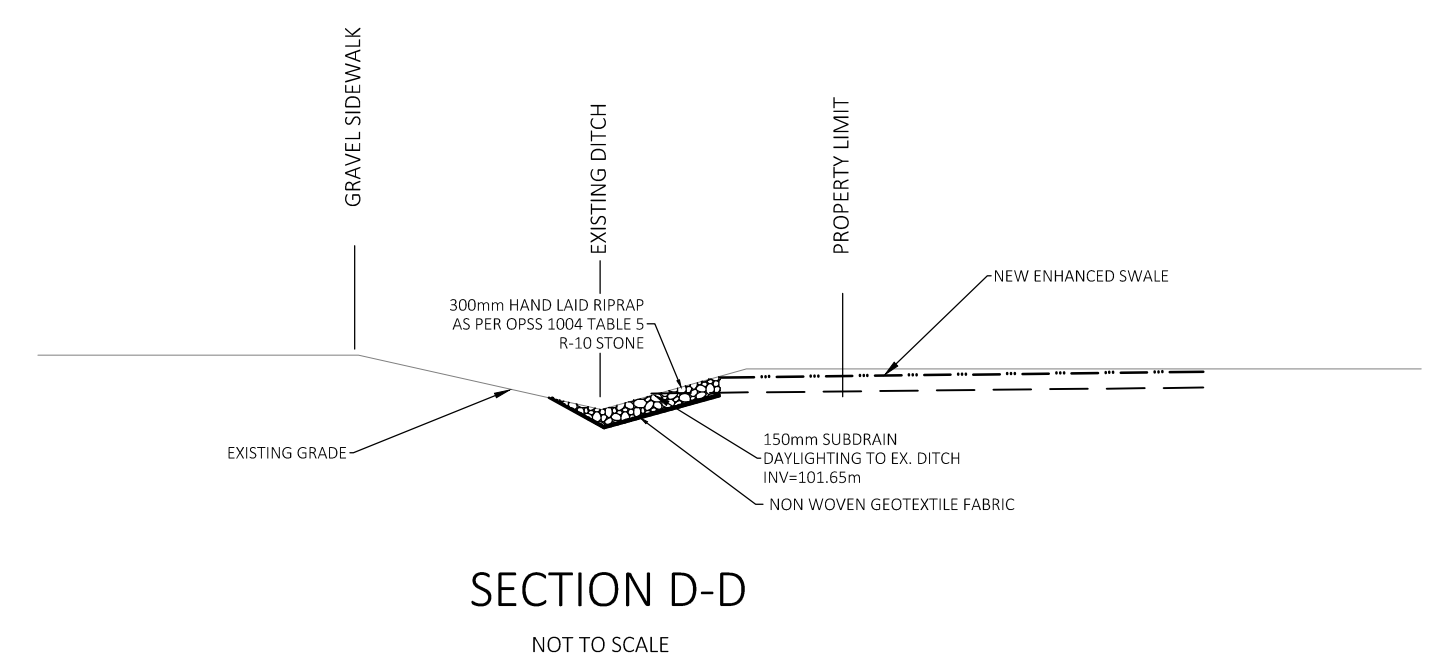
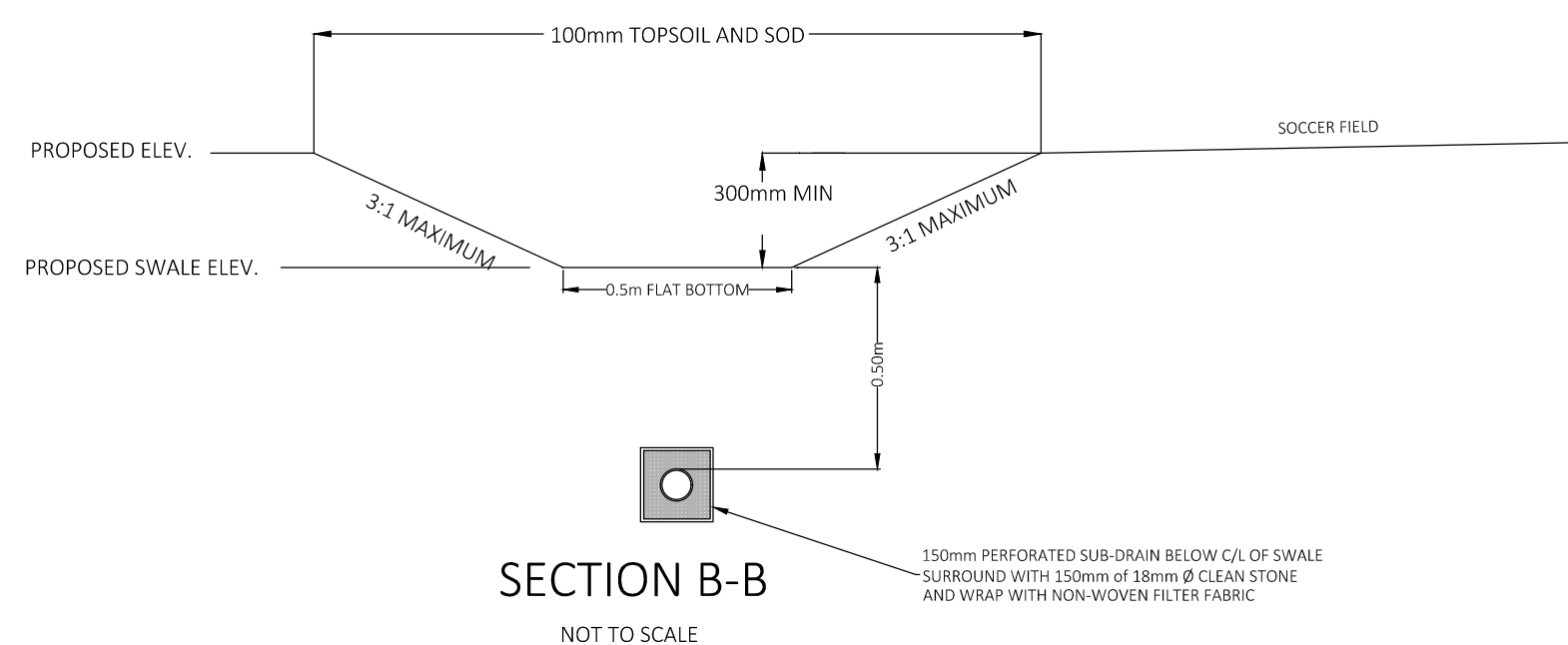


Note 1:
 For flushing and passing of swabs (not the chlorination step) on 400mm and larger watermains, a 100mm connection only or direct connection to the 100mm Storz part of the hydrant will be permitted complete with a 100mm double check backflow preventer.

Temporary Flush/Swab Launch and Testing Detail



Temporary Flush/Swab Retrieval and Testing Detail



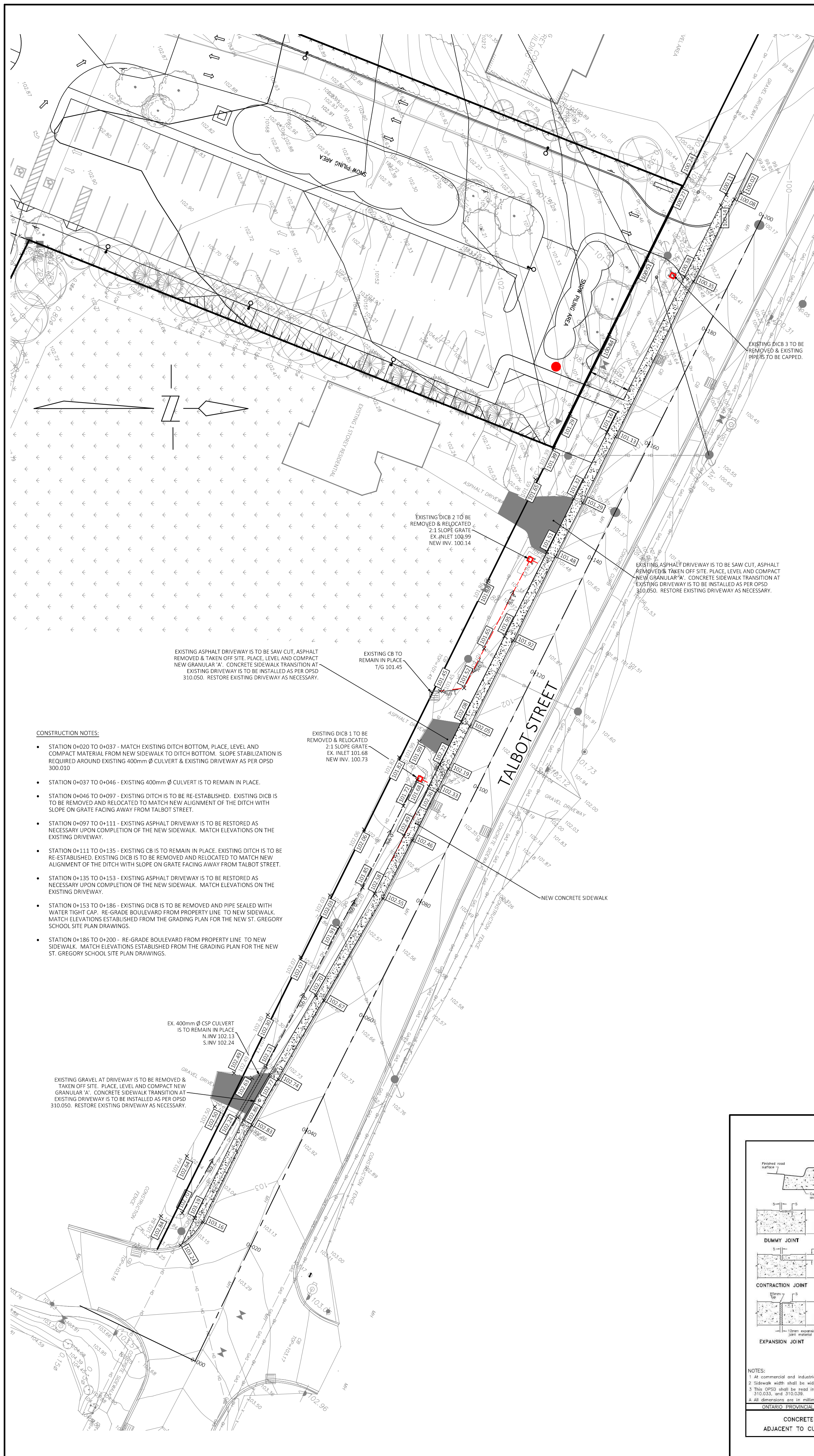
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4	NB	2025-04-15	REVISED AS PER COMMENTS	MI
3	NB	2024-10-25	ISSUED FOR PERMIT	MI
2	NB	2024-09-30	ISSUED FOR 100% REVIEW	MI
1	NB	2024-04-19	REVISED AS PER COMMENTS	MI

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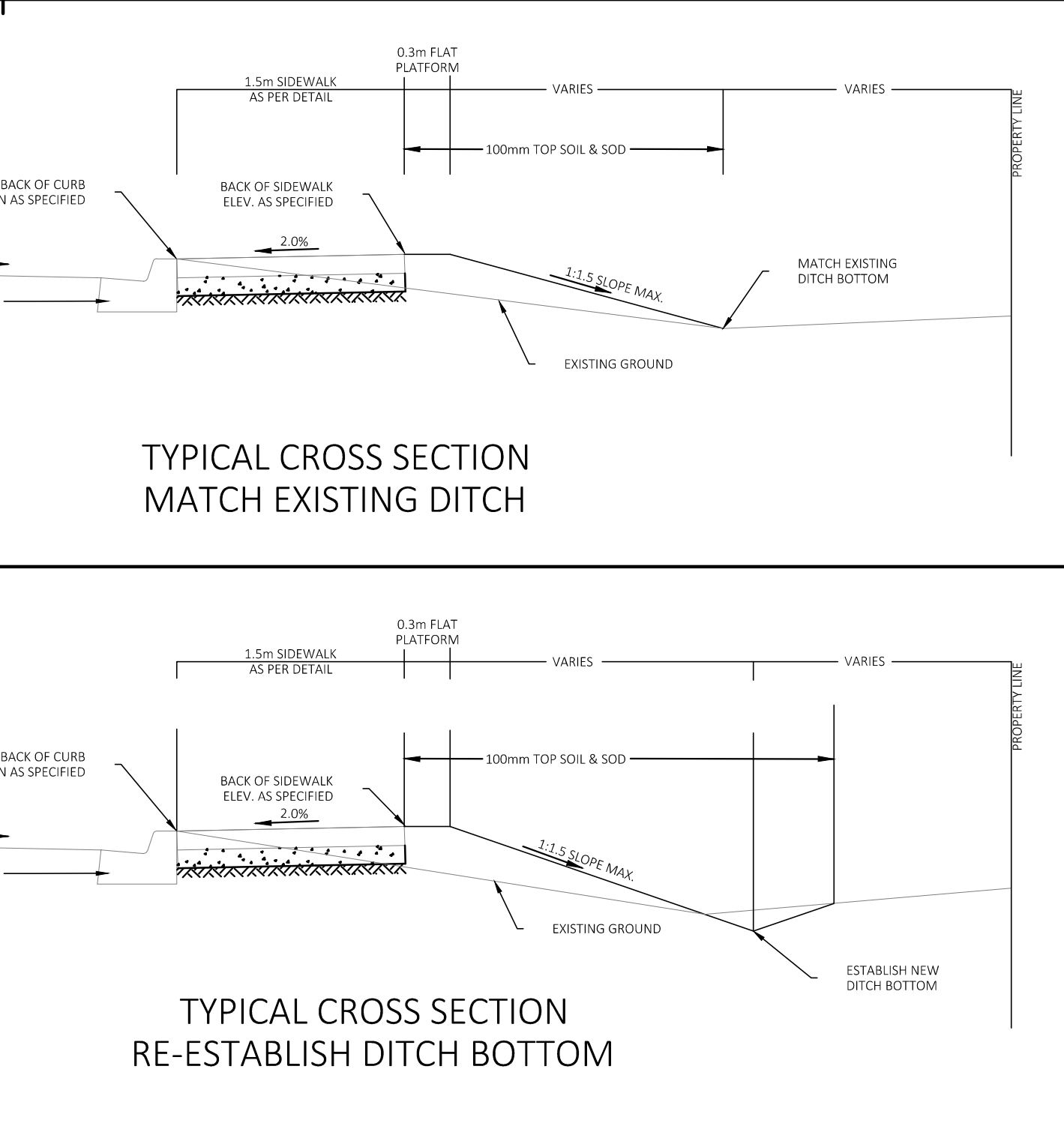
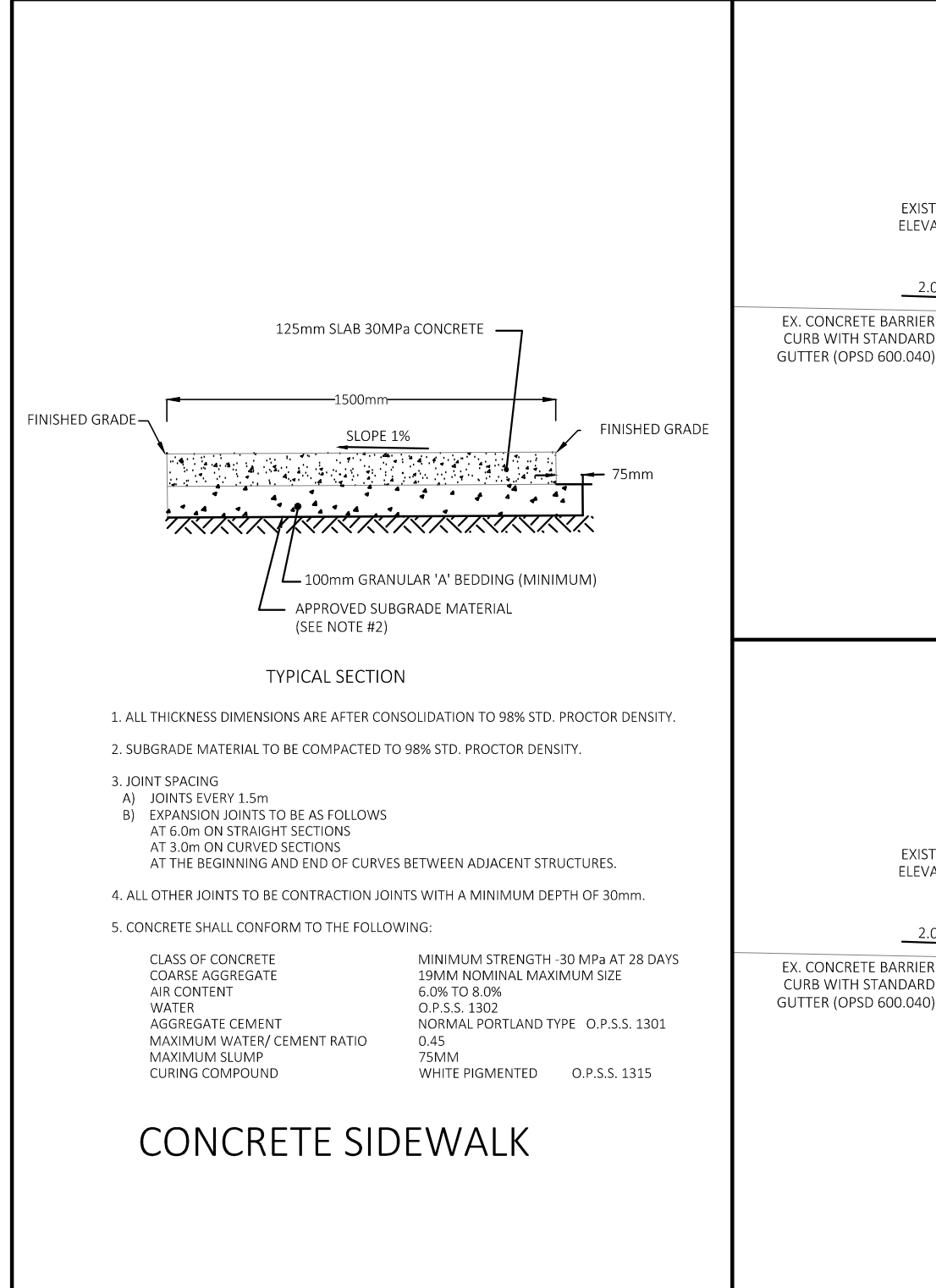
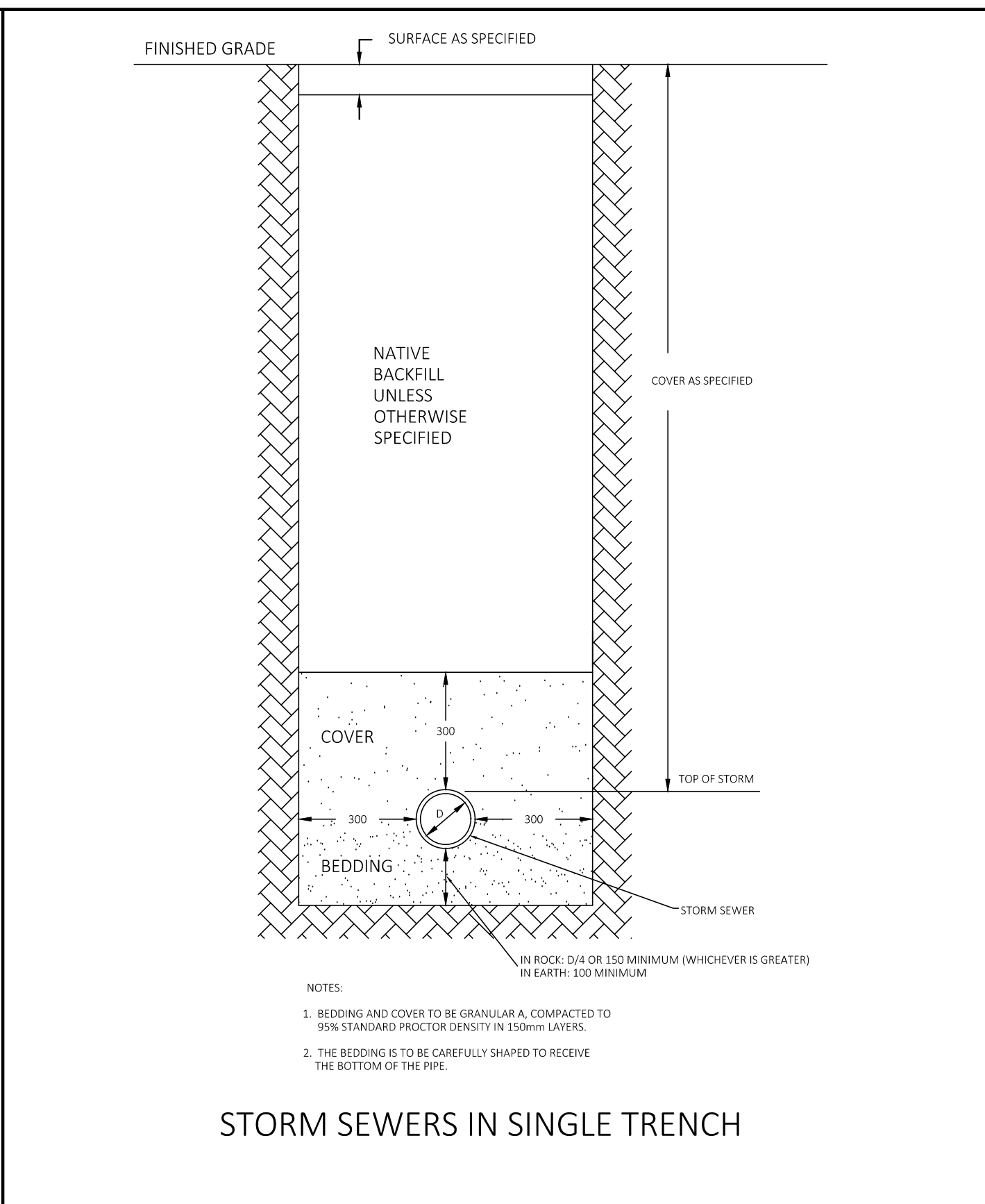


**1225 GARDINERS ROAD
 SUITE 105
 KINGSTON, ONTARIO K7P 2R9
 TEL : 613-634-9278
 E-MAIL : mjosselyn@josselyn.ca**

OWNER:	ALCDSB				
PROJECT:	ST. GREGORY SCHOOL				
DRAWING TITLE:	DETAIL SHEET				
Designed By:	M.J.	Date:	2023-08-02	Drawing No.	1578-C004
Drawn By:		Scale:	NOT TO SCALE		
Checked By:	M.J.				



- NOTES:**
- THE CONTRACTOR IS TO CHECK, VERIFY AND BE RESPONSIBLE FOR ALL UNDERGROUND SERVICES, STRUCTURES AND UTILITIES. ALL EXISTING UNDERGROUND STRUCTURES, PIPES, CONDUITS, ETC TO BE EXPOSED PRIOR TO ANY CONSTRUCTION AND ANY POTENTIAL CONFLICTS TO BE REPORTED TO THE ENGINEER.
 - FOLLOWING COMPLETION OF THE SITE WORKS, INCLUDING GRADING AND LANDSCAPING, THE CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ANY DEFICIENCIES IDENTIFIED BY THE ENGINEER AND TO THE SATISFACTION OF THE MUNICIPALITY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS FROM THE MUNICIPALITY PRIOR TO WORK ON THE MUNICIPAL RIGHT-OF-WAY.
 - ALL ENTRANCES SHALL BE REINSTATED AS PER OPSD UPON COMPLETION OF CONCRETE SIDEWALK AND GRADING OPERATIONS.
 - ALL RESIDENTIAL MAIL BOXES SHALL BE REINSTATED AS PER CANADA POST SPECIFICATIONS FOLLOWING COMPLETION OF GRADING OPERATIONS.
 - ALL ROAD WAY SIGNAGE SHALL BE REMOVED, SALVAGED, AND REINSTATED UPON COMPLETION OF THE WORKS.
 - ALL EXISTING ROADWAY AND ENTRANCE CULVERTS SHALL REMAIN UNLESS OTHERWISE NOTED.
 - CB LEADS ARE TO BE CUT AND EXTENDED TO NEW LOCATION. PIPE JOINT IS TO BE REPAIRED WITH POLYSEAL REPAIR COUPLER OR ADS PVC COUPLING ON APPROVED EQUAL.
 - CONTRACTOR IS TO NOTIFY ENGINEER PRIOR TO PLACEMENT OF GRANULAR MATERIAL AROUND NEW JOINT REPAIRS TO ENSURE A PROPER SEAL WITH NO GAPS BETWEEN THE PIPE CONNECTION.
 - EXISTING VEGETATION SHALL BE MAINTAINED WHEREVER POSSIBLE, AND SHALL BE PROTECTED DURING CONSTRUCTION.
 - ALL DIMENSIONS ARE IN METRES OR MILLIMETRES UNLESS OTHERWISE SHOWN.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING ANY MANHOLE, VALVE BOX, CURB BOX, HYDRANT, POLE OR OTHER STRUCTURE AFFECTED BY CHANGES IN GRADE IS ADJUSTED TO THE SATISFACTION OF THE MUNICIPALITY.
 - PRECAUTIONS MUST BE TAKEN TO ENSURE THAT MUNICIPAL CONSTRUCTION VEHICLES AND MATERIALS DON'T DISTURB THE DRIVING OR ROAD QUALITY OF STREETS WHEN ENTERING OR EXITING THE SITE DURING CONSTRUCTION. STREETS ARE TO BE KEPT CLEAR OF DEBRIS AND ALL OTHER DESTRUCTIVE CONSTRUCTION MATERIALS.
 - EROSION AND SEDIMENT CONTROL:**
 - REGARDLESS OF SITE SPECIFIC ITEMS DETAILED ON THE PLANS, THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SUIT THE PROPOSED WORK METHODS TO CONTROL SEDIMENT FROM RUNNING OFF OF THE SITE. FOLLOWING CONSTRUCTION, DISTURBED AREAS, AS WELL AS PROPOSED GRASSES AND VEGETATED SURFACES, SHALL BE REINSTATED AS SOON AS PRACTICAL.
 - DURING CONSTRUCTION, THE EROSION CONTROL MEASURES ARE TO BE INSPECTED DAILY, AND REPAIRED AS NECESSARY TO CONTAIN ANY SEDIMENT. THE REQUIREMENT SHALL CONTINUE UNTIL CONSTRUCTION ON THE SITE IS COMPLETE. FOLLOWING WHICH THE CONTRACTOR SHALL INSPECT THE BARRIER ONCE THE SITE VEGETATION HAS BEEN WELL ESTABLISHED.
 - IN THE EVENT THAT BURIED OR PREVIOUSLY UNDISCOVERED ARCHAEOLOGICAL DEPOSITS ARE DISCOVERED IN THE COURSE OF DEVELOPMENT OR SITE ALTERATION, ALL WORK MUST IMMEDIATELY CEASE AND THE SITE MUST BE SECURED. THE CULTURAL PROGRAM BRANCH OF THE MINISTRY OF TOURISM AND CULTURE (616-814-7123) AND THE PRINCE EDWARD COUNTY MUST BE CONTACTED IMMEDIATELY.
 - IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED, ALL WORK MUST IMMEDIATELY CEASE AND THE SITE MUST BE SECURED. THE OPP, THE REGISTRAR OF CEMETERIES REGULATION SECTION OF ONTARIO MINISTRY OF CONSUMER BUSINESS SERVICES (416-326-7123), AND THE PRINCE EDWARD COUNTY MUST BE IMMEDIATELY CONTACTED.
 - WHERE UNDERMINING, REMOVAL, EXCAVATION OR CONSTRUCTION OF THE OWNER AND THEIR CONTRACTORS SHALL BE VIOLANT FOR THE POTENTIAL PRESENCE OF UNDERGROUND FUEL TANKS, POTENTIALLY CONTAMINATED SOIL OR GROUNDWATER, BURIED WASTES OR ABANDONED WATER WELLS. IF ANY OF THE ABOVE ARE ENCOUNTERED OR SUSPECTED, THE OWNER SHALL ENSURE THAT:
 - ANY SOIL OR GROUNDWATER CONTAMINATION ENCOUNTERED IS REMEDIATED TO APPLICABLE STANDARDS AS DEFINED WITHIN O. REG. 353/08 OR AS REVISED.
 - ANY WASTES GENERATED BY SITE CLEAN-UPS ARE MANAGED IN ACCORDANCE WITH APPLICABLE LAWS AND STANDARDS.
 - ANY ABANDONED FUEL TANKS ENCOUNTERED ARE DECOMMISSIONED IN ACCORDANCE WITH APPLICABLE LAWS AND STANDARDS.
 - ANY UNUSED WATER WELLS (DRILLED OR DUG) ARE PROPERLY ABANDONED IN ACCORDANCE WITH ONTARIO REGULATION 903 - WELLS OR AS REVISED.
 - IF IT APPEARS LIKELY THAT CONTAMINATION EXTENDS BEYOND THE BOUNDARIES OF THE SUBJECT PROPERTY, THE OWNER NOTIFIES THE LOCAL OFFICE OF THE MINISTRY OF THE ENVIRONMENT.
 - CONSTRUCTION WASTES ARE NOT TO BE BURIED WITHIN THE PROPERTY THAT IS THE SUBJECT OF THIS AGREEMENT, AND
 - THAT THE OWNER AND THEIR CONTRACTORS REPORT ALL SPILLS TO THE MINISTRY OF THE ENVIRONMENT'S SPILLS ACTION CENTRE (1-800-268-0000) AND TO THE MUNICIPALITY WORK WITH.



LEGEND

	EXISTING	PROPOSED
PAVEMENT	[Symbol]	[Symbol]
CONCRETE CURB TYPE	[Symbol]	[Symbol]
DITCH	[Symbol]	[Symbol]
STORM SEWER & MANHOLE WITH DIRECTION OF FLOW	[Symbol]	[Symbol]
SAN SEWER & MANHOLE WITH DIRECTION OF FLOW	[Symbol]	[Symbol]
WATERMAIN AND VALVE	[Symbol]	[Symbol]
GAS METER LOCATION	[Symbol]	[Symbol]
UTILITY TRENCH	[Symbol]	[Symbol]
HYDRO (OVER HEAD)	[Symbol]	[Symbol]
SINGLE CATCH BASIN	[Symbol]	[Symbol]
DITCH INLET CATCH BASIN	[Symbol]	[Symbol]
TWIN INLET CATCH BASIN	[Symbol]	[Symbol]
CATCH BASIN/MANHOLE	[Symbol]	[Symbol]
HYDRANT & VALVE BOX	[Symbol]	[Symbol]
BELL UTILITY POLE & ANCHOR	[Symbol]	[Symbol]
HYDRO UTILITY POLE & ANCHOR	[Symbol]	[Symbol]
STREET LIGHT	[Symbol]	[Symbol]
TREES	[Symbol]	[Symbol]
PROPERTY BOUNDARY	[Symbol]	[Symbol]
EASEMENT	[Symbol]	[Symbol]
FENCE	[Symbol]	[Symbol]
SILT FENCE	[Symbol]	[Symbol]
BENCH MARK LOCATION	[Symbol]	[Symbol]
EXISTING GRADE	[Symbol]	[Symbol]
PROPOSED GRADE	[Symbol]	[Symbol]
DOOR	[Symbol]	[Symbol]
HEAVY DUTY ASPHALT	[Symbol]	[Symbol]
LIGHT DUTY ASPHALT	[Symbol]	[Symbol]
CONCRETE	[Symbol]	[Symbol]
GRASSED AREA	[Symbol]	[Symbol]
BORHOLE LOCATION	[Symbol]	[Symbol]

No.	By	Date	Revision	Checked
2	NB	2024-10-25	ISSUED FOR PERMIT	MJ
1	NB	2024-09-30	ISSUED FOR 100% REVIEW	MJ
				Checked

JE Josselyn Engineering Inc.

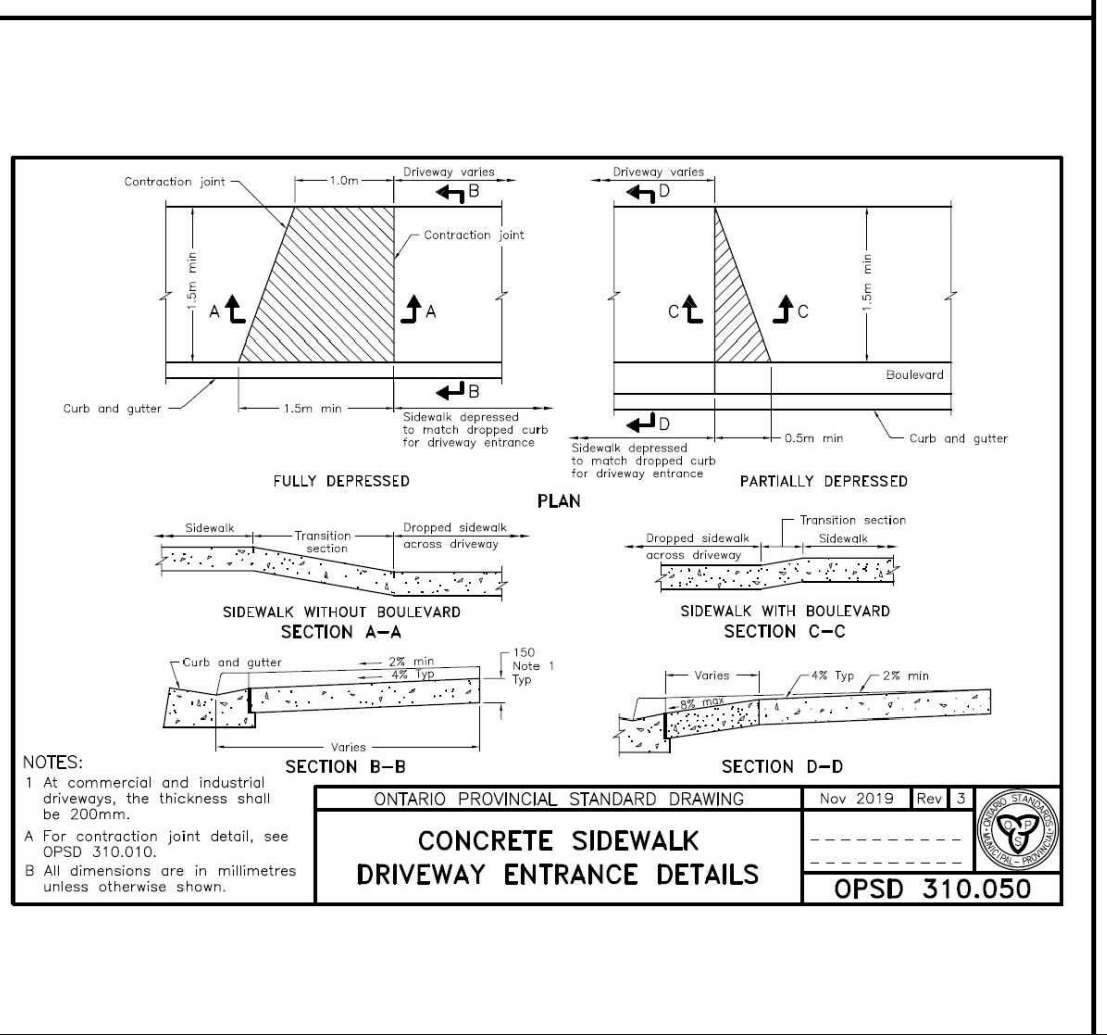
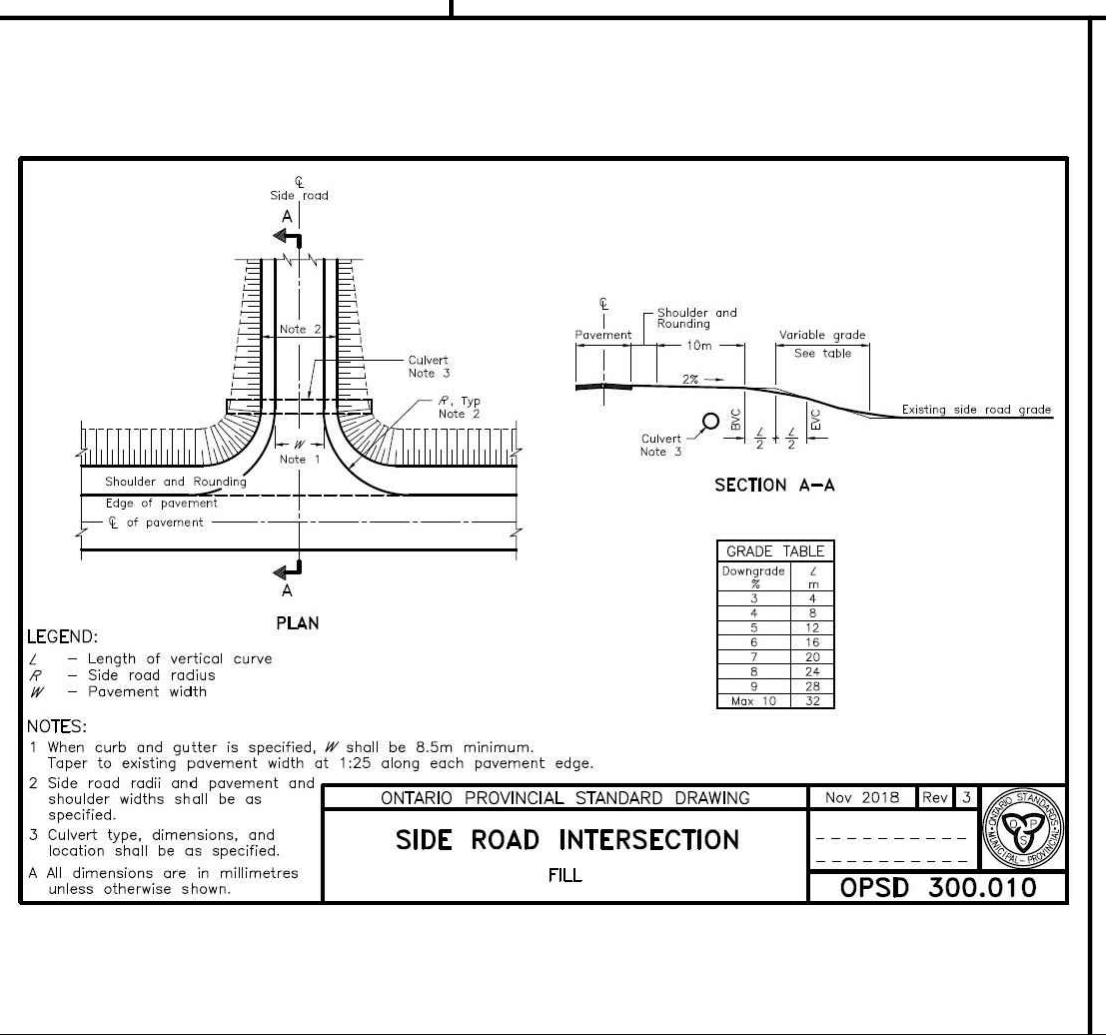
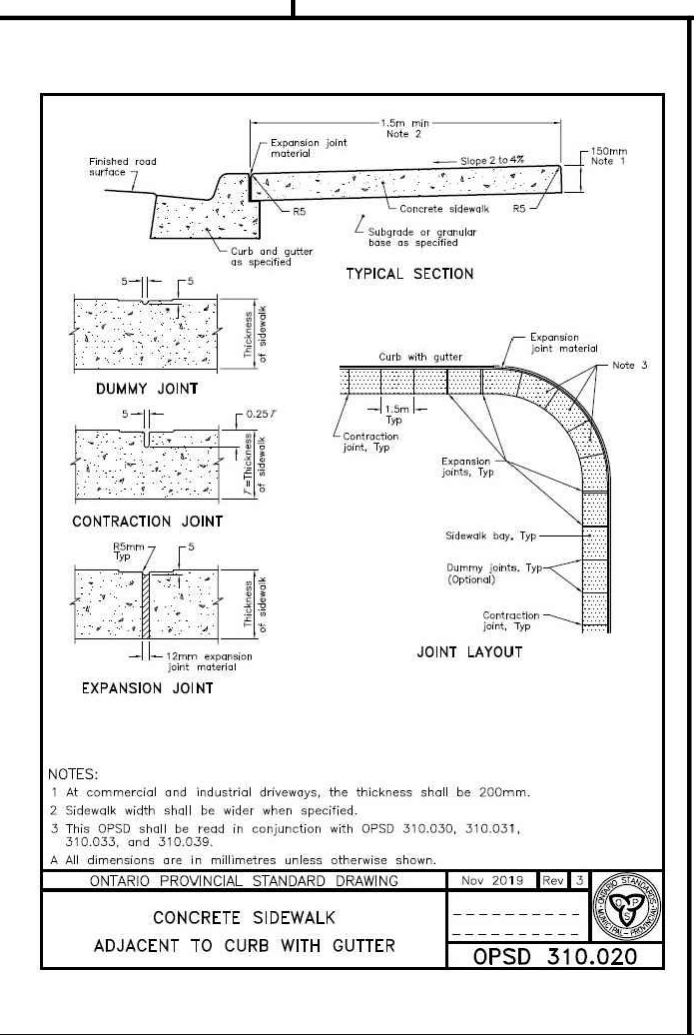
**1225 GARDINERS ROAD, #105
KINGSTON, ONTARIO K7P 0G3
TEL : 613-634-9278
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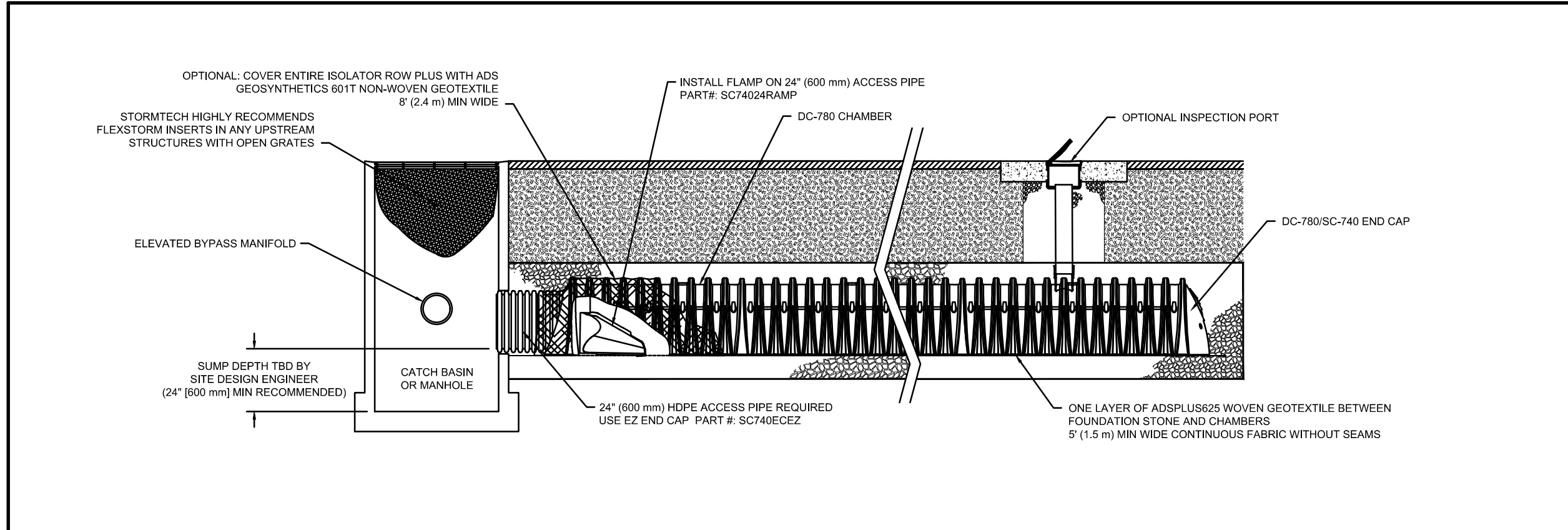
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PROJECT: ST. GREGORY SCHOOL

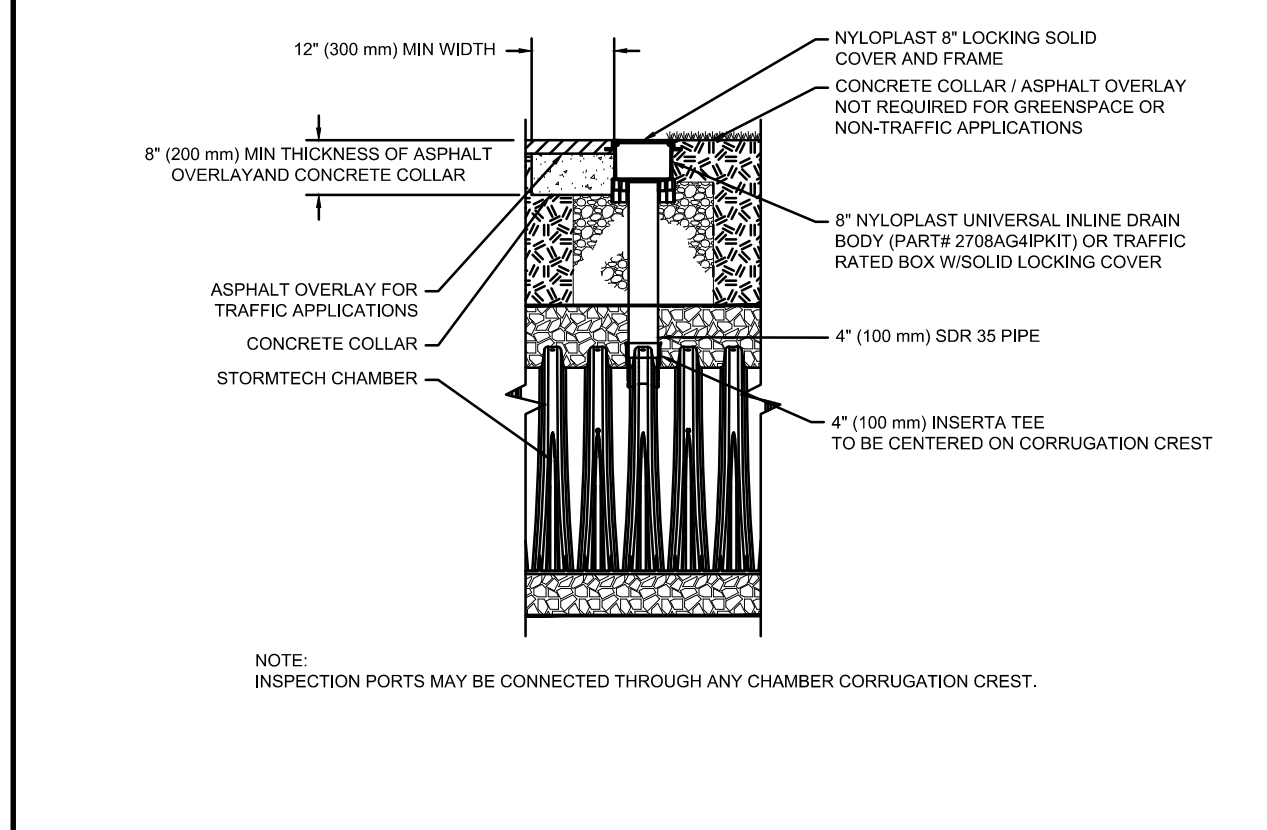
DRAWING TITLE: TALBOT STREET SIDEWALK

Designed By: M.J.	Date: 2024-03-04	Drawing No. 1578-C005
Drawn By: T.C.	Scale: 1:400	
Checked By: M.J.		

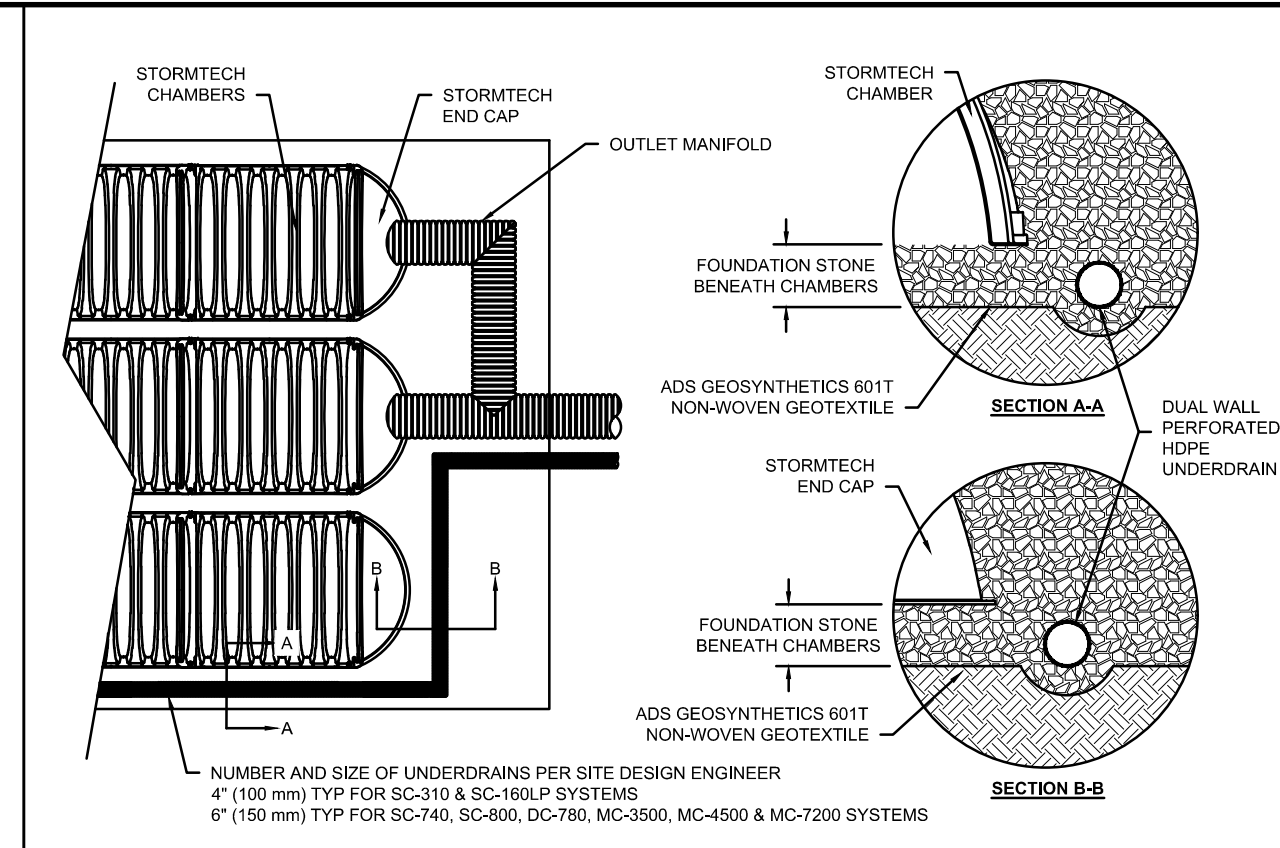




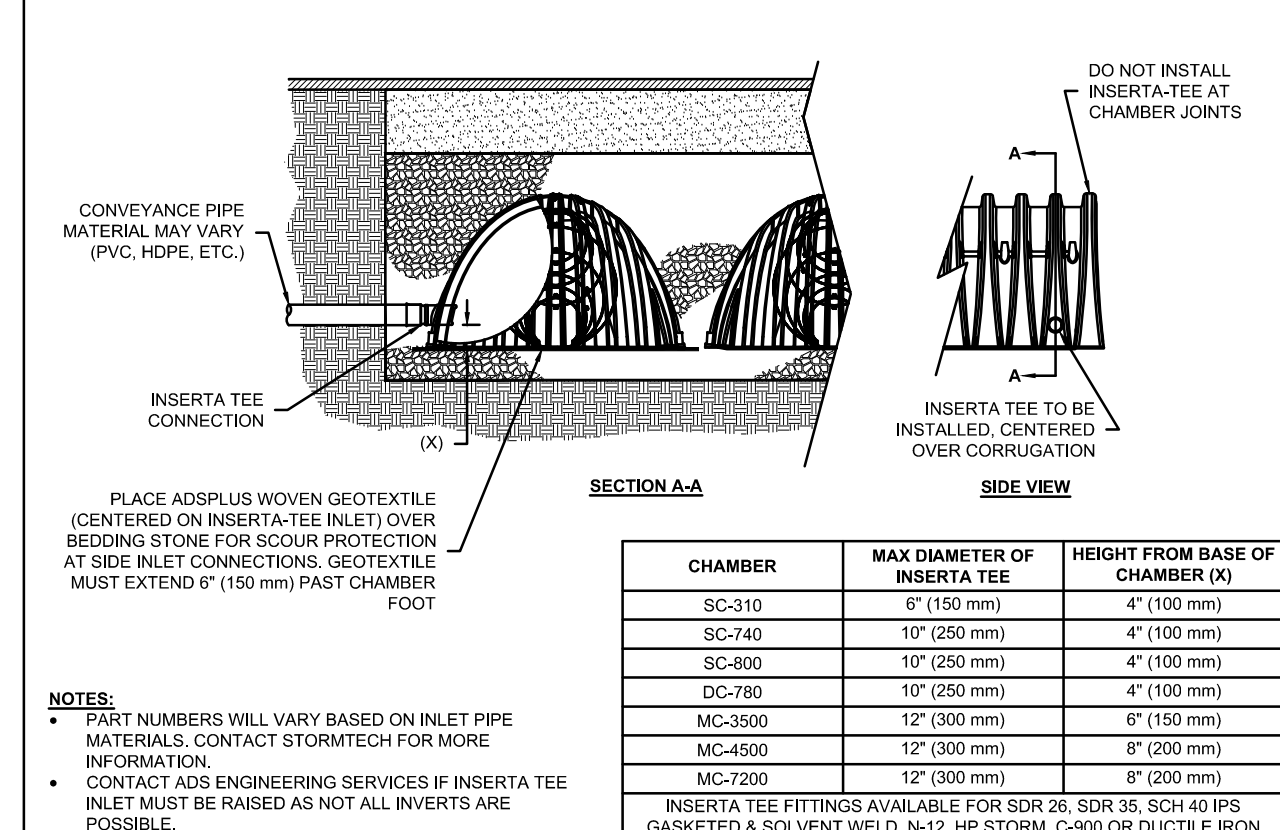
1 DC-780 ISOLATOR ROW PLUS DETAIL



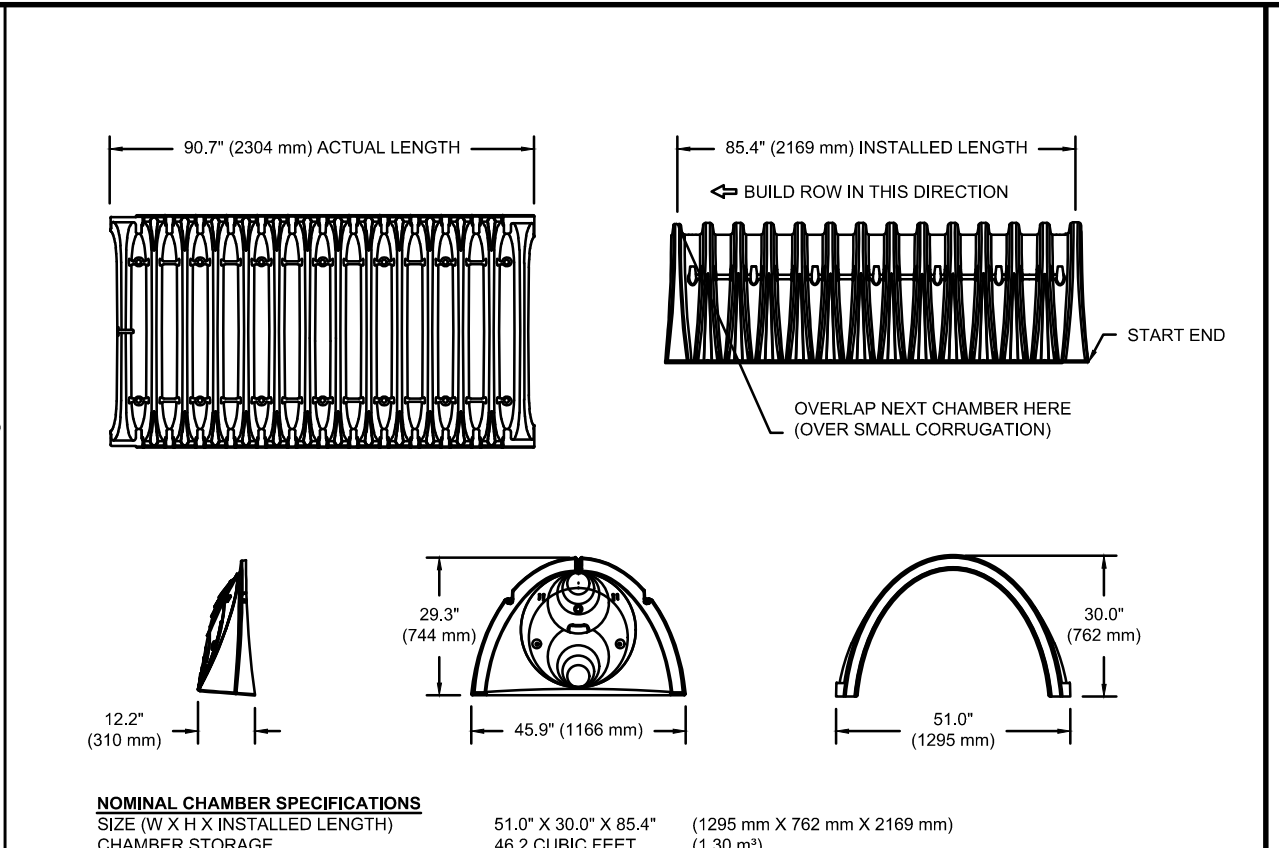
4 4\"/>



5 UNDERDRAIN DETAIL



6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
 CHAMBER STORAGE
 MINIMUM INSTALLED STORAGE WEIGHT

PART #	STUB	A	B	C
SC740EP08T / SC740EP08TPC	6\"/>			
SC740EP08B / SC740EP08BPC	6\"/>			
SC740EP08T / SC740EP08TPC	6\"/>			
SC740EP08B / SC740EP08BPC	6\"/>			
SC740EP10T / SC740EP10TPC	10\"/>			
SC740EP10B / SC740EP10BPC	10\"/>			
SC740EP12T / SC740EP12TPC	12\"/>			
SC740EP12B / SC740EP12BPC	12\"/>			
SC740EP15T / SC740EP15TPC	15\"/>			
SC740EP15B / SC740EP15BPC	15\"/>			
SC740EP18T / SC740EP18TPC	18\"/>			
SC740EP18B / SC740EP18BPC	18\"/>			

ALL STUBS, EXCEPT FOR THE SC740E08Z ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2894.

* FOR THE SC740E08Z THE 24\"/>

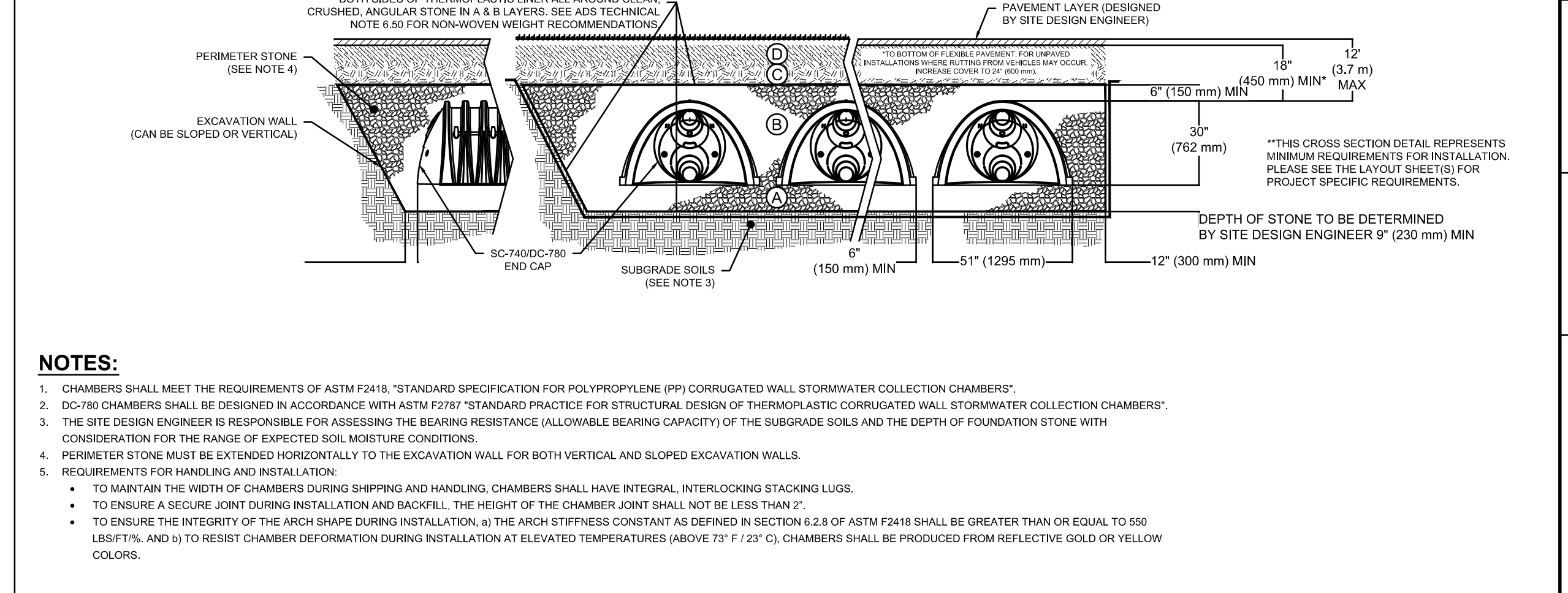
2 DC-780 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('A' LAYER) TO 18\"/>	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 3S7, 4, 407, 5, 56, 57, 6, 67, 68, 7, 78, 8, 88, 9, 10	BEGIN COMPACTIONS AFTER 12\"/>
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 3S7, 4, 407, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 3S7, 4, 407, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY, THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>



3 DC-780 CROSS SECTION DETAIL

DC-780 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE.
- CHAMBER SYSTEMS ARE TO BE LINED WITH WITH THERMOPLASTIC LINER DUE TO HIGH SEASONAL GROUNDWATER CONDITION.

IMPORTANT - NOTES FOR THE INSTALLATION OF THE DC-780 CHAMBER SYSTEM

- STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLER.
- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS BACKFILL METHODS:
 - STONES/ROCKS LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM IN-PILE EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE CLEAN, CRUSHED, ANGULAR STONE 3/4" (20-60 MM).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADERS, GRAP TRUCKS, OR EXCAVATORS ARE ALLOWED UNLIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740DC-780 CONSTRUCTION GUIDE".
- FULL 36\"/>

USE OF DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- INSPECTION PORTS (IF PRESENT)
- REMOVING OPEN ON NYLOPLAST INLINE DRAIN
- REMOVE AND CLEAN FLEXITORN FILTER IF INSTALLED
- USING A FLASHLIGHT AND STAGNA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- IF SEDIMENT IS AT OR ABOVE 7\"/>

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETAC PROCESS

- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45\"/>

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS, RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE ISOLATOR SYSTEM.

NOTES

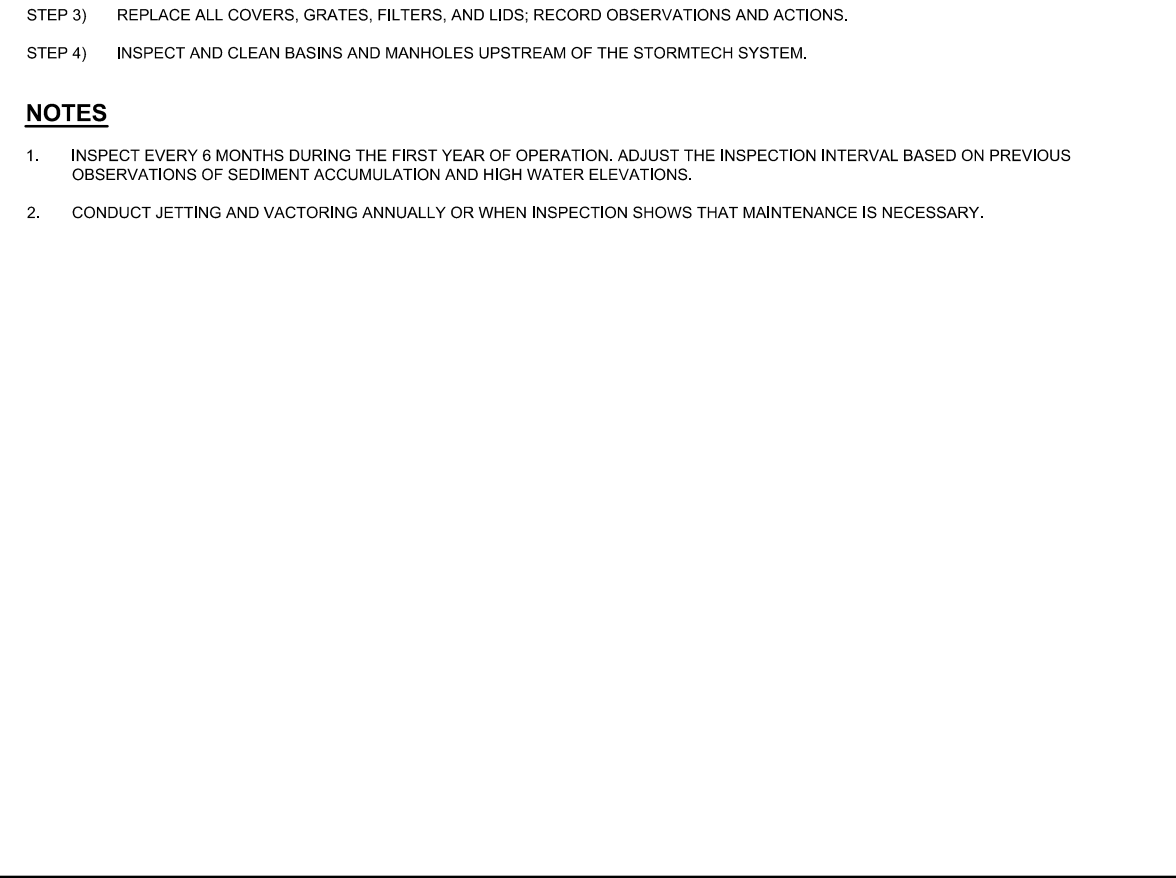
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

ACCEPTABLE FILL MATERIALS: STORMTECH DC-780 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	NA	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRONGER MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('A' LAYER) TO 18\"/>	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 3S7, 4, 407, 5, 56, 57, 6, 67, 68, 7, 78, 8, 88, 9, 10	BEGIN COMPACTIONS AFTER 12\"/>
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 3S7, 4, 407, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ²	AASHTO M43 ¹ 3, 3S7, 4, 407, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY, THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>



3 DC-780 CROSS SECTION DETAIL

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PROFESSIONAL ENGINEER
 J. M. JOSSELYN
 2025/06/25
 PROVINCE OF ONTARIO

OWNER: ALCD5B
 PROJECT: ST. GREGORY SCHOOL
 DRAWING TITLE: STORMTECH TYPICAL INSTALLATION DETAILS

Designed By: M.J. Date: 2025-02-25 Drawing No.
 Drawn By: M.J. Scale: NOT TO SCALE
 Checked By: M.J. 1578-C006