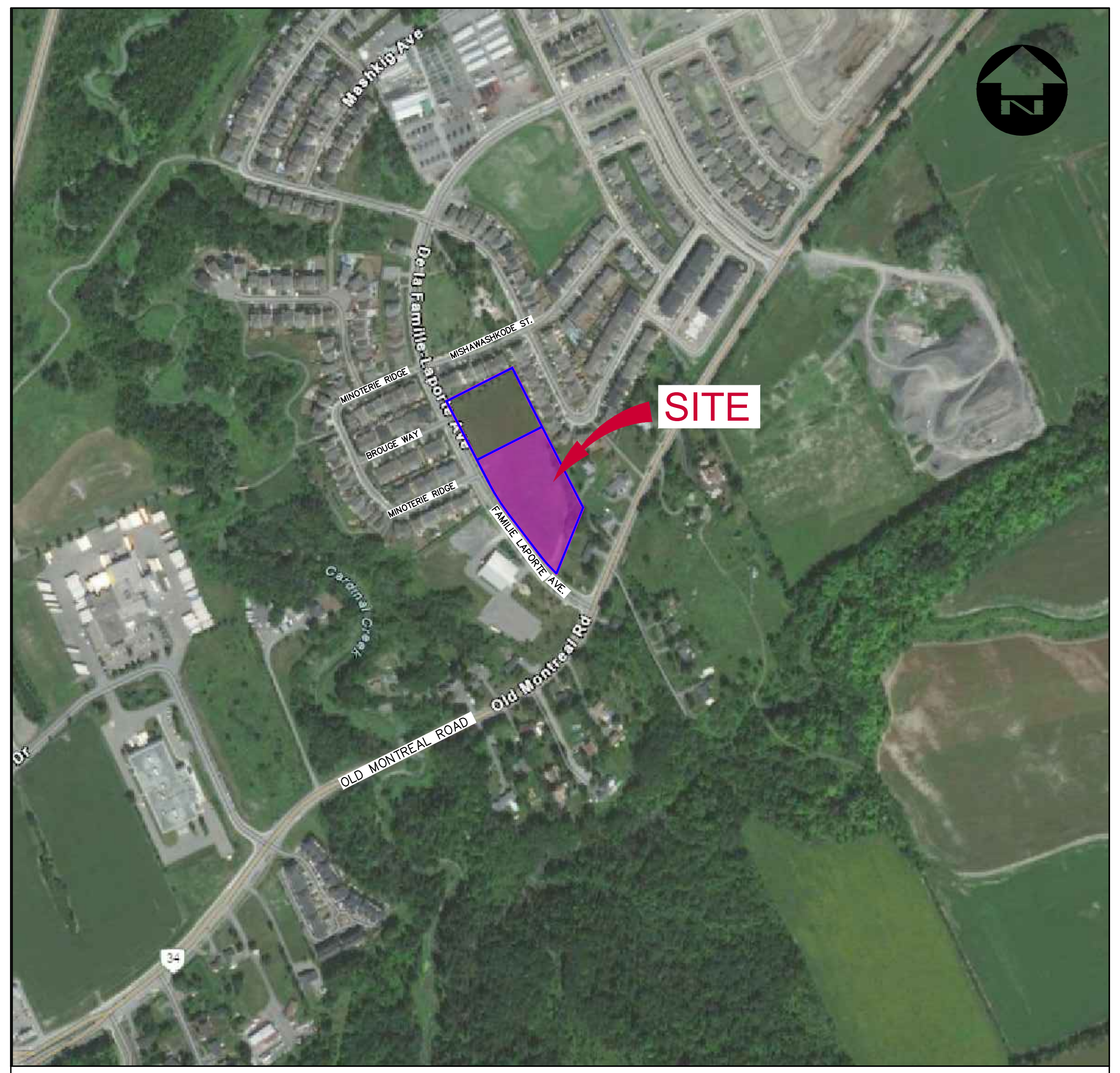
LONG TERM CARE FACILITY - ORLEANS

IN THE CITY OF OTTAWA, ONTARIO

ARCH CORPORATION

LEGEND			
DESCRIPTION	EXISTING	ABANDONED	NEW
SEWERS			
SANITARY	250 S	AB 250 S	250 S
STORM	375 ST	AB 375 ST	375 ST
COMBINED	300 C	AB 300 C	300 C
MANHOLE	○ MH		● MH
CATCH BASIN	□ CB		■ CB
DITCH INLET CB	□ DICB		■ DICB
TWIN INLET CB	□ TICB		■ TICB
CULVERT	[- - - - - - - - -]		
SANITARY SERVICE	S		S
STORM SERVICE	ST		ST
CLEANOUT	○ CO		○ CO
CURB INLET CB	□ CICB		⊠ CICB
TWIN CURB INLET CB	□ TCICB		⊠■ TCICB
WATER			
MAIN	150 W	AB 150 W	200 W
MANHOLE	○ WMH		● WMH
VALVE	⦶ WV		⊖
TAP SLEEVE & VALVE			⊖ TS&V
FIRE HYDRANT	⌖ FH.		●
BLOW–OFF	○ BO		○ BO
PRIVATE SERVICE	W		W
SERVICE VALVE	⦶ WSV		⊗ WSV
GAS			
MAIN	100 G	AB 100 G	
VALVE	⊖ GV		
BELL			
BURIED	B	AB B	
MANHOLE	○ BMH		
PEDESTAL, OPI	□ B PED □ OPI		
POLE (GUY)	B ●——→		
HYDRO			
BURIED	H	AB H	H
MANHOLE	○ HMH		● HMH1
POLE (GUY)	H ●——→		H ●——→
LIGHT	● L		⊙ LS 100
TRANSFORMER			T
VAULT			V
CABLE TV			
BURIED	TV	AB TV	CTV
PEDESTAL	□ TV PED		
POLE	● TV		TV ●
TRAFFIC			
BURIED	T	AB T	T
MANHOLE	○ TMH		● TMH1
JUNCTION BOX	□ JB		□ JB1
CONTROLLER	▭ TC		▭ TC
POLE	● T		● T1
PAVEMENT			
CONCRETE	CONC		
ASPHALT	ASPH		
ASPH ON CONC	ASPH/CONC		
PAVING STONE	PAVER		
TAR AND CHIP	TAR & CHIP		
GRAVEL	GRAV		
MISCELLANEOUS			
SIDEWALK (CONC. or ASPH.)	CSW ASW		
SIGN	⊙ S		
TREE(dia) or BUSH	300 300		
HEDGE			
FENCE	—X—X—X—		×—×—×—×—×—×
GATE	—X—⋈—X—		
BOREHOLE	◐ BH		
AUGERHOLE	◐ AH		
PROPERTY BAR	⊡ IB ⊡ SIB ⊡ RIB		
NAIL	⊡ NAIL		
CONCRETE MONUMENT	⊡ MON		
GROUND ELEVATION	176.25		(176.25)



KEY PLAN

INDEX	
SHEET	DESCRIPTION
	COVER SHEET
CIV-1	SITE SERVICING PLAN
CIV-2	SITE GRADING PLAN
CIV-3	SOIL EROSION CONTROL PLAN
STD	MISCELLANEOUS DETAILS
ADS	ADS STORMWATER CHAMBER DETAILS

BENCH MARKS

ALL EXISTING INVERTS TO BE FIELD CHECKED
PRIOR TO CONSTRUCTION

DILLON CONSULTING LIMITED 3200 DEZIEL DRIVE, SUITE 608, WINDSOR, ONTARIO, N8W 5K8, PHONE (519) 948-5000, FAX (519) 948-5054

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2021\32DS\DMS62260\212647-00-CVR-CON.DWG PLOTTED BY: STOICA, DORINA
PLOT DATE: 2021-11-29 @ 5:45:37 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

DECEMBER 02, 2021 ISSUED FOR SITE PLAN CONTROL AND ZONING BY-LAW AMENDMENT

DILLON CONSULTING
LONG TERM CARE FACILITY
1123 OLD MONTREAL ROAD, ORLEANS, ON
Project No. 21-2467
Nov-29-2021

STORM SEWER INVERTS

EXISTING DICB
NE INV. AT OUTLET – 65.52m
NW INV. 65.52
NE INV. 65.52
RIM ELEV. 67.05

WQU1 UNIT
INV. 65.54m
NW INV. 65.54m
RIM ELEV. 67.37m

MH2 – 1200mm DIA.
NW INV. 65.67m
SW INV. 65.67m
RIM ELEV. 67.39m

MH3 – 1200mm DIA.
NW INV. 65.69m
WE INV. 65.69m
RIM ELEV. 67.34m

MH4 – 1200mm DIA.
SW INV. 68.82m
SE INV. 65.82m
RIM ELEV. 67.43m

MH5 – 1200mm DIA.
NE INV. 65.90m
RIM ELEV. 67.10m

MH6 – 1200mm DIA.
NE INV. 65.69m
SW INV. 65.75m
RIM ELEV. 67.52m

CBMH7 – 1200mm DIA.
NE INV. 65.86m
RIM ELEV. 67.00m

MH8 – 1200mm DIA.
NE INV. 65.55m
SW INV. 65.55m
RIM ELEV. 67.26m

MH9 – 1200mm DIA.
NE INV. 65.69m
SW INV. 65.69m
RIM ELEV. 66.50m

CBMH10 – 1200mm DIA.
NE INV. 65.75m
RIM ELEV. 66.30m

CB11 – 600x600mm.
SW INV. 65.95m
RIM ELEV. 67.00m

CB12 – 600x600mm.
NE INV. 65.90m
RIM ELEV. 67.00m

CB13 – 600x600mm.
NE INV. 65.80m
RIM ELEV. 67.00m

CB14 – 600x600mm.
NE INV. 65.75m
RIM ELEV. 67.00m

CB15 – 600x600mm.
NE INV. 65.90m
RIM ELEV. 67.00m

CB16 – 600x600mm.
NE INV. 65.90m
RIM ELEV. 67.00m

CB17 – 600x600mm.
NE INV. 66.00m
RIM ELEV. 67.25m

SANITARY SEWER INVERTS

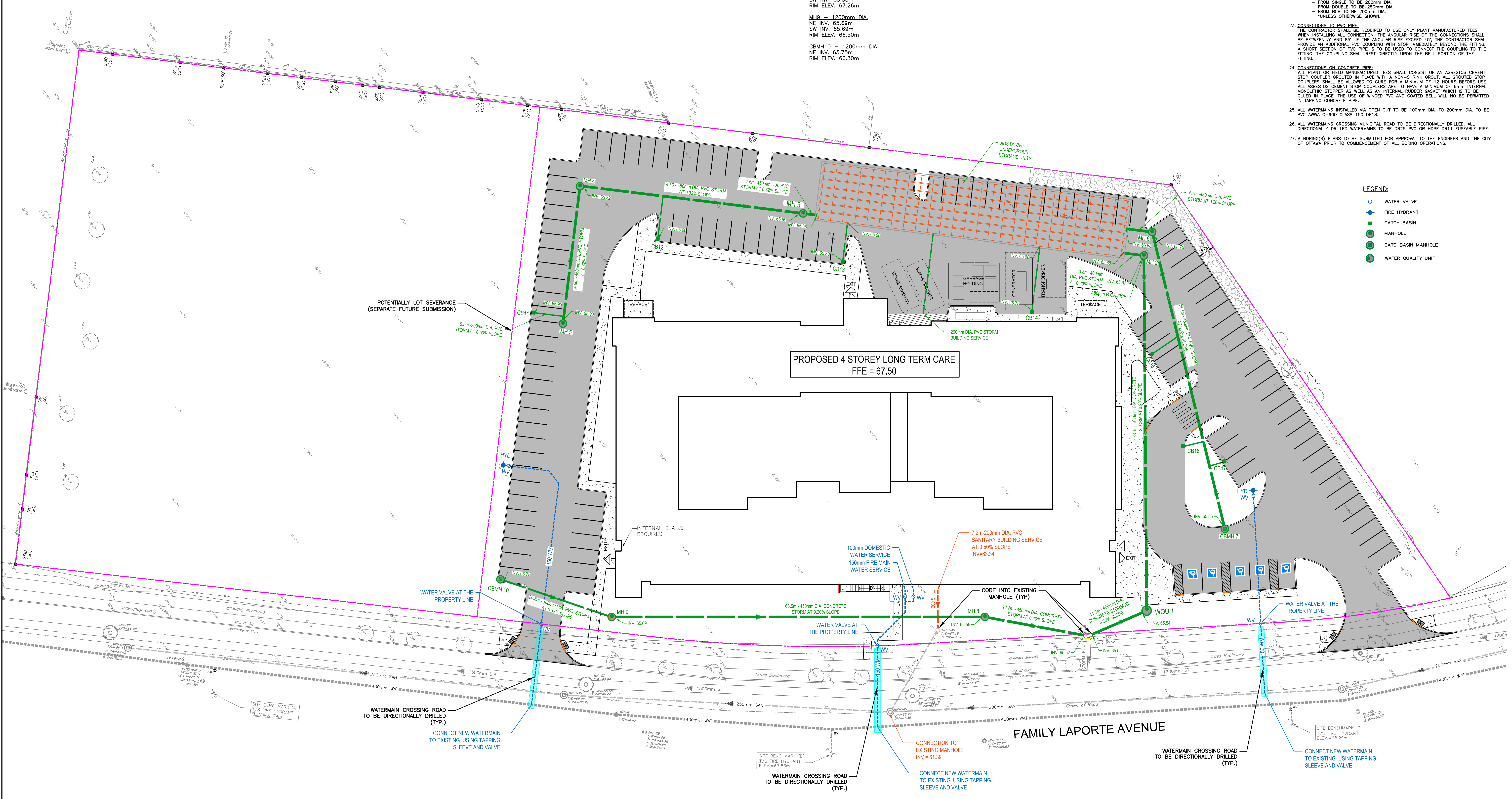
EXISTING SANITARY MANHOLE
S INV.63.28m

SERVICE STUB
7.2m – 200mm DIA. PVC
BUILDING SANITARY SERVICE
AT 0.5%
INV. 63.334m

ALL EXISTING INVERTS TO BE FIELD CHECKED
PRIOR TO CONSTRUCTION

GENERAL UTILITY NOTES:

1. THE OWNER AND DILLON CONSULTING LIMITED DO NOT GUARANTEE THE ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS. OTHER UTILITIES MAY BE PRESENT OR THE UTILITIES SHOWN MAY DIFFER IN SIZE OR LOCATION FROM THOSE SHOWN. THE CONTRACTOR SHALL NOTE THAT SERVICES FROM THE MAIN LINES ARE NOT SHOWN. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES AND TO REPAIR ANY DAMAGE IT MAY CAUSE TO THESE UTILITIES OR TO OTHER THIRD PARTIES. THE CONTRACTOR AGREES TO INDEMNIFY THE OWNER AND DILLON CONSULTING LIMITED AGAINST ANY CLAIMS WHICH MAY ARISE FROM THE CONTRACTOR'S ACTIONS.
2. ALL WORKS SHALL COMPLY WITH THE CITY OF OTTAWA OR OPS STANDARDS.
3. DIMENSIONS AND/OR COORDINATES ARE TO BACK OF CURB, OUTSIDE FACE OF BUILDING, EDGE OF PAVEMENT OR CENTER OF STRUCTURE.
4. ALL NEW WATER, STORM & SANITARY SEWER SERVICES TO BE INSTALLED TO 1.5m FROM THE BUILDING FACE AND CAPPED.
5. MINIMUM SLOPE FOR STORM SEWER SERVICES TO BE 1% UNLESS NOTED OTHERWISE.
6. CONTRACTOR TO USE "T–WYE" CONNECTIONS WHEN CONNECTING CATCHBASIN LEADS TO THE MAINLINE SEWER.
7. ALL WATERMAINS AND SERVICES TO HAVE A MINIMUM OF 1.80m OF COVER.
8. INSTALL RAIN CATCHERS ON ALL SANITARY MANHOLES.
9. ALL EXISTING TREES AND VEGETATION TO BE REMOVED PRIOR TO CONSTRUCTION.
10. ALL WORK WITHIN FAMILY LAPORTE AVENUE RIGHT–OF–WAY AND/OR ON CITY OF OTTAWA. WATERMAINS TO BE COMPLETED IN THE PRESENCE OF MUNICIPAL STAFF OR INSPECTOR.
11. ALL DISTURBED AREAS WITHIN FAMILY LAPORTE AVENUE EXISTING RIGHT–OF–WAY TO BE RESTORED TO EXISTING OR BETTER CONDITION.
12. ALL RESTORATIONS PER THE LANDSCAPING PLAN.
13. ALL WORKS TO BE CONSTRUCTED TO A TOLERANCE OF 5mm±.
14. ALL DIMENSIONS AND RADII ATE TO CONSTRUCTION BASELINE OR EDGE OF PAVEMENT.
15. SEWER BEDDING TO BE CLASS 'B' (EXCEPT CLASS 'A' TO FIRST PIPE JOINT OUTSIDE OF MAIN FOR RIGID PIPE).
16. BACKFILL OF SEWER AND UTILITY TRENCHES SHALL BE IN ACCORDANCE WITH "SPECIFICATIONS FOR USE OF GRANULAR 'B', TYPE 1 AGGREGATE".
17. ALL SANITARY SEWER ARE TO BE PVC DR–35 UNLESS NOTED OTHERWISE.
18. ALL STORM SEWERS 375mm DIA. OR SMALLER TO BE PVC DR–35. ALL STORM SEWERS 450mm OR LARGER TO BE CONCRETE A257.2 65–D UNLESS SHOWN OTHERWISE ON PLANS OR SPECIFICATIONS.
19. ALL CATCH BASINS LEADS TO BE PVC DR–35 AND DIAMETER OF LEADS:
    - FROM SINGLE TO BE 200mm DIA.
    - FROM DOUBLE TO BE 250mm DIA.
    - FROM BCB TO BE 200mm DIA.
    *UNLESS OTHERWISE SHOWN.
23. CONNECTIONS TO PVC PIPE:
    THE CONTRACTOR SHALL BE REQUIRED TO USE ONLY PLANT MANUFACTURED TEES WHEN INSTALLING ALL CONNECTION. THE ANGULAR RISE OF THE CONNECTIONS SHALL BE BETWEEN 5° AND 85°. IF THE ANGULAR RISE EXCEED 45°, THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL PVC COUPLING WITH STOP IMMEDIATELY BEYOND THE FITTING. A SHORT SECTION OF PVC PIPE IS TO BE USED TO CONNECT THE COUPLING TO THE FITTING. THE COUPLING SHALL REST DIRECTLY UPON THE BELL PORTION OF THE FITTING.
24. CONNECTIONS ON CONCRETE PIPE:
    ALL PLANT OR FIELD MANUFACTURED TEES SHALL CONSIST OF AN ASBESTOS CEMENT STOP COUPLER GROUTED IN PLACE WITH A NON–SHRINK GROUT. ALL GROUTED STOP COUPLERS SHALL BE ALLOWED TO CURE FOR A MINIMUM OF 12 HOURS BEFORE USE. ALL ASBESTOS CEMENT STOP COUPLERS ARE TO HAVE A MINIMUM OF 6mm INTERNAL MONOLITHIC STOPPER AS WELL AS AN INTERNAL RUBBER GASKET WHICH IS TO BE GLUED IN PLACE. THE USE OF WINGED PVC AND COATED BELL WILL NO BE PERMITTED IN TAPPING CONCRETE PIPE.
25. ALL WATERMAINS INSTALLED VIA OPEN CUT TO BE 100mm DIA. TO 200mm DIA. TO BE PVC AWWA C–900 CLASS 150 DR18.
26. ALL WATERMAINS CROSSING MUNICIPAL ROAD TO BE DIRECTIONALLY DRILLED. ALL DIRECTIONALLY DRILLED WATERMAINS TO BE DR25 PVC OR HDPE DR11 FUSEABLE PIPE.
27. A BORING(S) PLANS TO BE SUBMITTED FOR APPROVAL TO THE ENGINEER AND THE CITY OF OTTAWA PRIOR TO COMMENCEMENT OF ALL BORING OPERATIONS.



LEGEND:

⦸	WATER VALVE
●	FIRE HYDRANT
■	CATCH BASIN
◉	MANHOLE
▣	CATCHBASIN MANHOLE
◐	WATER QUALITY UNIT

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Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.

#	date:	revision:	by:
1	12/02/2021	SPA / ZBA SUBMISSION	CDP

revisions

C.D. PATTEN
100083837
02-DEC-21

All drawing and specifications are the property of the architect. The contractor shall verify all dimensions and information on site and report any discrepancy to architect before proceeding.

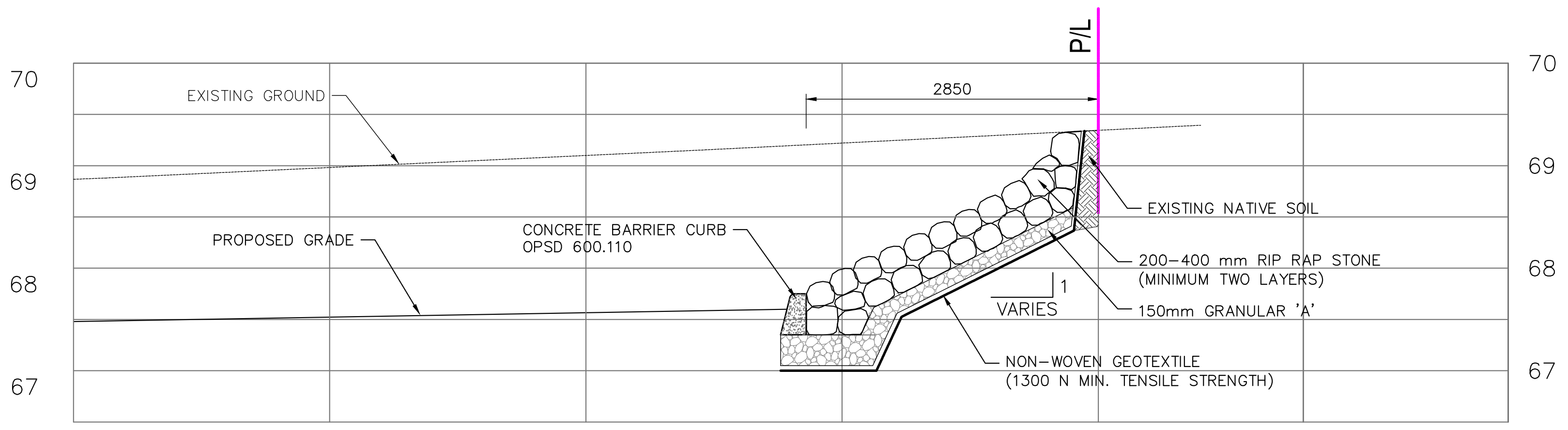
Arch Corp - LTC ORLEANS

FAMILLE-LAPORTE AVENUE
OTTAWA, ON

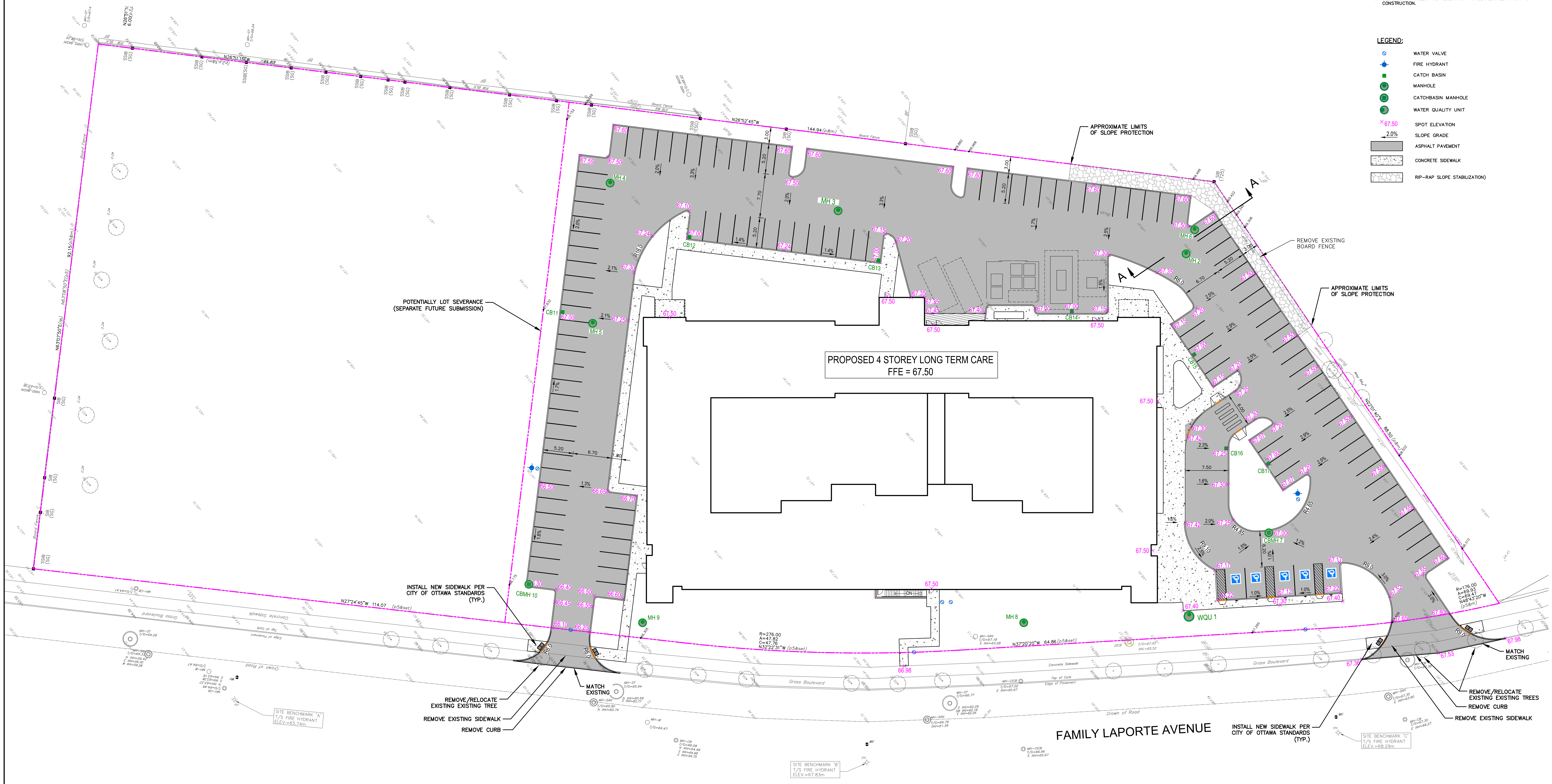
SITE SERVICING PLAN

scale: 1 : 250
drawn by: DS
reviewed by: CDP
job number: 21-2647
plot date: December 02, 2021

drawing number:
CIV-1



SLOPE PROTECTION TYPICAL DETAIL
SECTION A-A
1:40



GENERAL GRADING NOTES:

1. CONTRACTOR TO CONSTRUCT SITE TO WITHIN 5mm OF DESIGN GRADES AND DIMENSIONS, UNLESS OTHERWISE NOTED.
2. ALL PROPOSED LANDSCAPE AREAS WITHIN CURB AND PROPERTY LIMITS TO BE GRADED 300mm BELOW TOP OF CURB WITH APPROVED FILL MATERIALS, MECHANICALLY COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DENSITY. SEE LANDSCAPE DRAWINGS FOR BALANCE OF WORK.
3. SPOT ELEVATIONS INDICATE TOP OF PAVEMENT.
4. CONTRACTOR TO PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL BOOK 7 WHEN COMPLETING ANY WORKS WITHIN THE MUNICIPAL RIGHT–OF–WAY.
5. ALL LINE PAINTING TO BE A DURABLE WATER BORNE TRAFFIC PAINT. PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS.
6. ALL EXISTING TREES AND VEGETATION TO BE REMOVED PRIOR TO CONSTRUCTION.

LEGEND:

⦸	WATER VALVE
⊕	FIRE HYDRANT
🟩	CATCH BASIN
●	MANHOLE
▣	CATCHBASIN MANHOLE
◐	WATER QUALITY UNIT
× 67.50	SPOT ELEVATION
← 2.0%	SLOPE GRADE
▨	ASPHALT PAVEMENT
▨	CONCRETE SIDEWALK
▨	RIP–RAP SLOPE STABILIZATION)

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Arch Corp - LTC ORLEANS

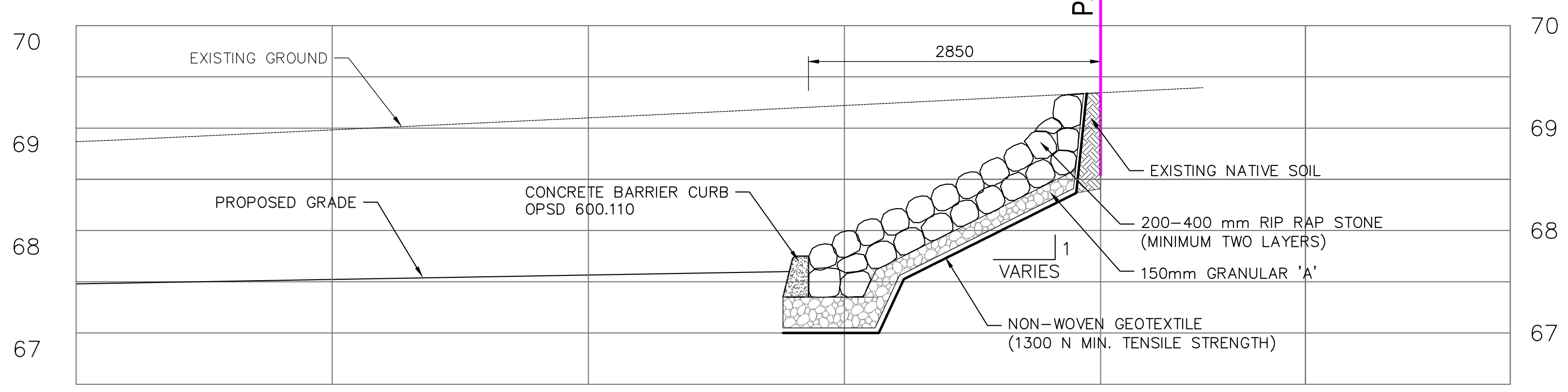
FAMILLE-LAPORTE AVENUE
OTTAWA, ON

SITE GRADING PLAN

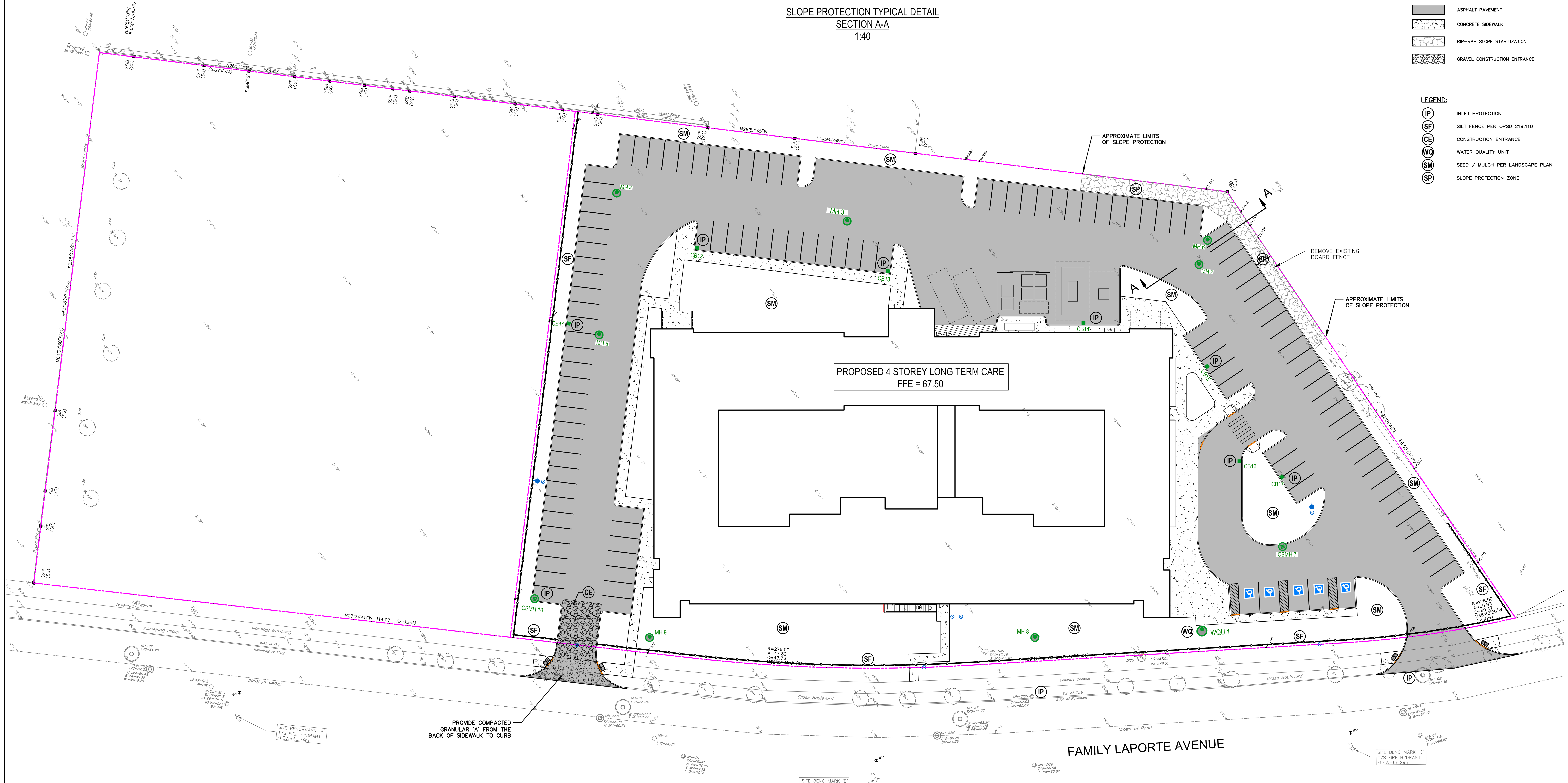
scale: 1 : 250
drawn by: DS
reviewed by: CDP
job number: 21-2647
plot date: December 02, 2021

drawing number:
CIV-2

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2021\32DS\DMS62260\212647-00-CIV-CON.DWG PLOTTED BY: STOICA, DORINA
PLOT DATE: 2021-12-02 @ 3:00:37 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB



SLOPE PROTECTION TYPICAL DETAIL
SECTION A-A
1:40

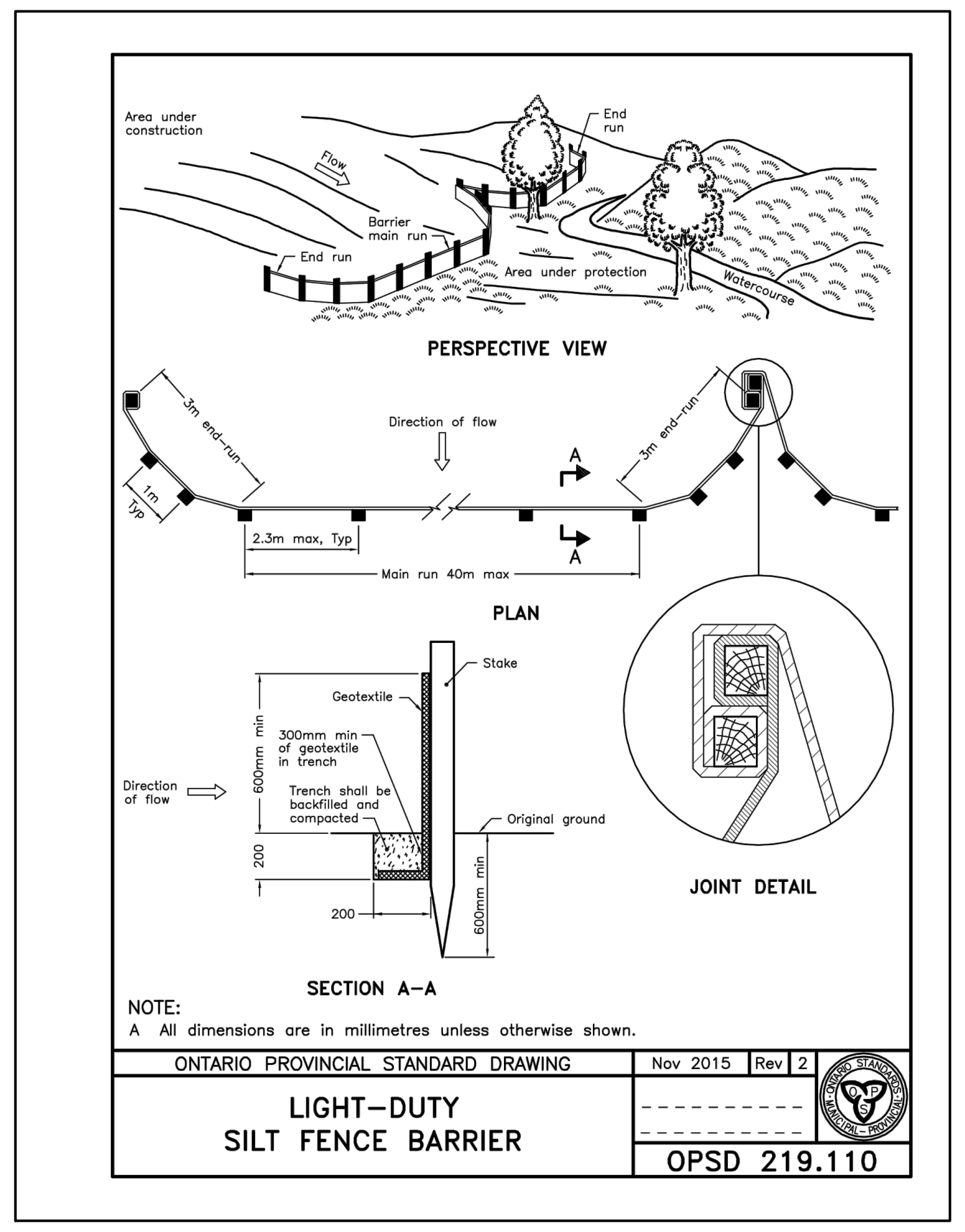


LEGEND:

⊘	WATER VALVE
⊕	FIRE HYDRANT
■	CATCH BASIN
●	MANHOLE
▣	CATCHBASIN MANHOLE
◐	WATER QUALITY UNIT
▨	ASPHALT PAVEMENT
▨	CONCRETE SIDEWALK
▨	RIP–RAP SLOPE STABILIZATION
▨	GRAVEL CONSTRUCTION ENTRANCE

LEGEND:

IP	INLET PROTECTION
SF	SILT FENCE PER OPSD 219.110
CE	CONSTRUCTION ENTRANCE
WQ	WATER QUALITY UNIT
SM	SEED / MULCH PER LANDSCAPE PLAN
SP	SLOPE PROTECTION ZONE



EROSION AND SEDIMENT CONTROL

GENERAL NOTES:

1. PROVIDE TEMPORARY DRAINAGE AND PUMPING AS NECESSARY TO KEEP EXCAVATIONS AND SITE FREE FROM WATER. TEMPORARY PUMPING TO BE COMPLETED IN ACCORDANCE WITH OPSS 518 "CONSTRUCTION SPECIFICATIONS FOR CONTROL OF WATER FROM DEWATERING OPERATIONS". DO NOT DISCHARGE WATER CONTAINING SUSPENDED MATERIALS INTO WATERCOURSES, SEWER OR DRAINAGE SYSTEMS. CONTROLLED DISPOSAL OR RUNOFF OF WATER CONTAINING SUSPENDED MATERIALS OR OTHER HARMFUL SUBSTANCES MUST BE COMPLETED IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND MUNICIPAL REQUIREMENTS. SEE ALSO DEWATERING NOTES

2. WORKS AROUND WATERCOURSES AND WETLANDS SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE CONSERVATION AUTHORITY, MUNICIPAL, PROVINCIAL AND FEDERAL BEST MANAGEMENT PRACTICES. FUELING OPERATIONS SHALL NOT BE CONDUCTED AND FUELING TANK SHALL NOT BE LOCATED WITHIN 30.0m OF A ROADSIDE DITCH, MUNICIPAL DRAIN, NATURAL WATERCOURSE, WETLAND OR FIELD TILE.

3. INSTALLATION OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH RHE CITY OF OTTAWA STANDARDS AND OPSS 577 "CONSTRUCTION SPECIFICATION FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES", EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN CONSTRUCTION (DECEMBER 2006) AND THE CONTRACT DRAWINGS.

4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TEMPORARY EROSION AND POLLUTION CONTROL FEATURES THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING ALL TEMPORARY EROSION CONTROLS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL AND CLEARED OF ACCUMULATED SEDIMENT WHEN 50% OF CAPACITY IS REACHED. SILT FENCES ARE TO BE INSTALLED ALONG THE PROPERTY LINE. STRAW BALES SHALL BE INSTALLED IN ADDITION TO SILT FENCING WHEN FLOW IS CHANNELED IN A PARTICULAR DIRECTION TO THE RECEIVING COURSE OR WHERE WARRANTED. SILT FENCES SHALL NOT BE PERMITTED IN AREAS OF STANDING WATER. ONCE A VIGOROUS GROWTH IS ESTABLISHED IN THE RE–VEGETATED AREAS THE CONTROLS AND ACCUMULATED SEDIMENT SHALL BE REMOVED IN THEIR ENTIRETY WITHIN 30 DAYS OF DIRECTION FROM THE ENGINEER.

5. INLET CONTROL DEVICES TO BE INSTALLED ON ALL NEW SITE CATCH BASINS, AND ON ADJACENT ROADWAY CATCHBASINS THAT ARE SUBJECT TO SITE RUNOFF. INLET CONTROLS TO BE GEOTEXTILE FABRIC BAGS TO FILTER RUNOFF PRIOR TO DISCHARGE. FILTER BAGS ARE TO BE INSPECTED REGULARLY AND CLEANED AFTER EACH RAIN EVENT. INLET FILTERS TO REMAIN IN PLACE UNTIL FINAL RESTORATION HAS ESTABLISHED.

6. TEMPORARY CONSTRUCTION ENTRANCE TO FAMILLE–LAPORTE AVENUE. CONSTRUCTION ENTRANCE TO CONSIST OF A SOIL STABILIZATION GEOTEXTILE FABRIC COVERED WITH MINIMUM 300mm THICK STONE RIP–RAP MAT. RIP–RAP TO BE 100mm TO 200mm IN SIZE. IF THE CONSTRUCTION ENTRANCE DOES NOT SUFFICIENTLY PREVENT SEDIMENT FROM BEING TRACKED ONTO ADJACENT ROADWAYS, A WHEEL WASH MAY BE REQUIRED.

SEQUENCING NOTES:

1. CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN TO THE ENGINEER FOR APPROVAL.

2. INSTALL SILT CONTROL FENCING AROUND PERIMETER OF THE SITE AND CONSTRUCTION ENTRANCE.

3. STRIP TOPSOIL FROM WITHIN THE LIMITS OF GENERAL EARTHWORKS AND STORE TEMPORARILY WITHIN THE DESIGNATED AREAS AS DIRECTED BY THE OWNER.

4. REDISTRIBUTE TOPSOIL ON SITE AND RESTORE GRASSED AREAS AS PER CONTRACT SPECIFICATIONS.

5. ALL EROSION CONTROL MEASURES TO BE MONITORED AS A MINIMUM ON A WEEKLY BASIS AND KEPT IN A FUNCTIONAL STATE.

6. ONCE A VIGOROUS GROWTH IS ESTABLISHED IN THE REVEGETATED AREAS, THE CONTROLS AND ACCUMULATED SEDIMENT SHALL BE REMOVED IN THEIR ENTIRETY WITHIN 30 DAYS OF DIRECTION FROM THE ENGINEER.

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Conditions of Use

#	date:	revision:	by:
1	12/02/2021	SPA / ZBA SUBMISSION	CDP

revisions

C.D. PATTEN
100083837
02-DEC-21

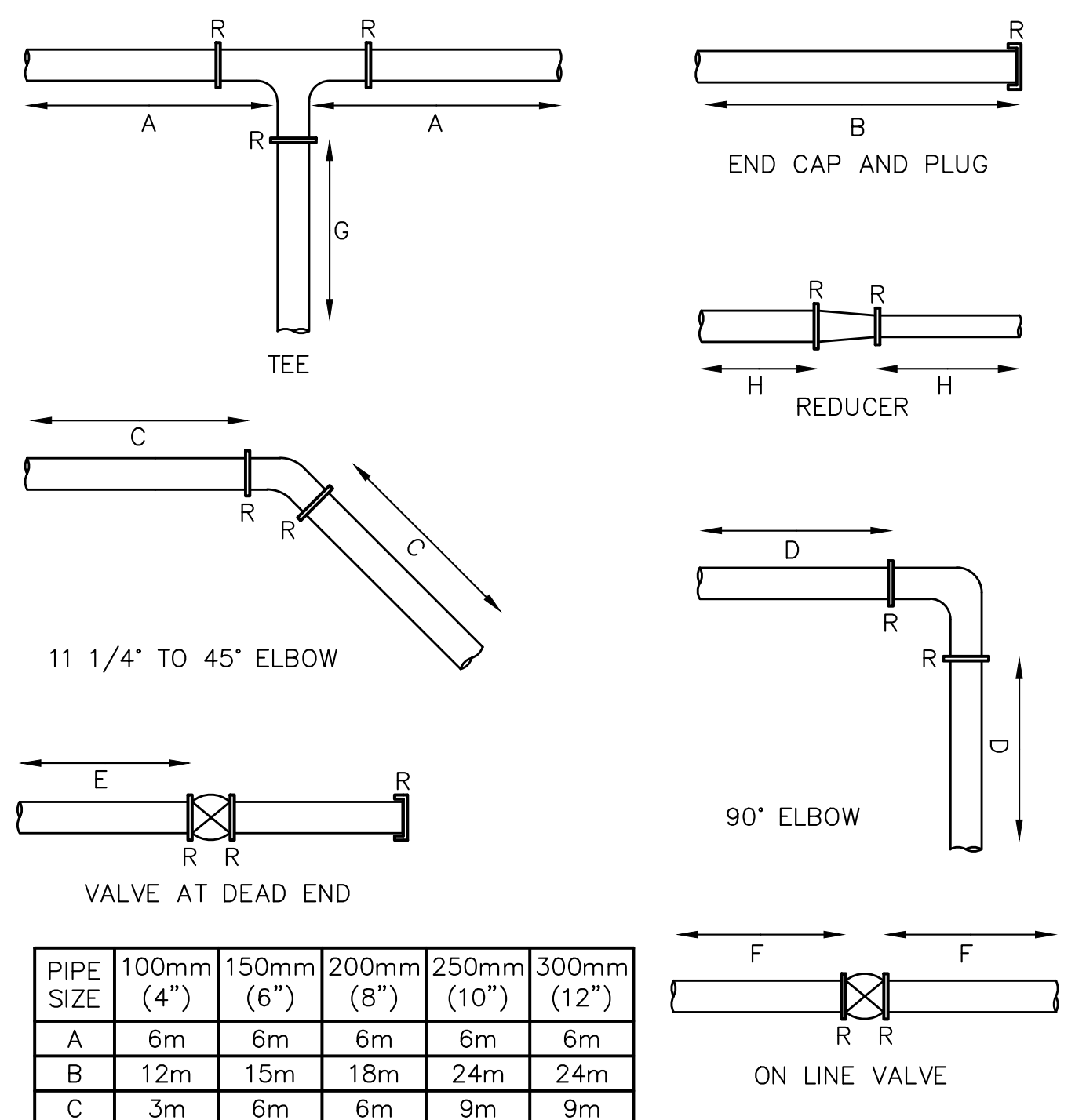
Arch Corp - LTC ORLEANS

FAMILLE-LAPORTE AVENUE
OTTAWA, ON

SOIL EROSION CONTROL PLAN

scale: 1 : 250
drawn by: DS
reviewed by: CDP
job number: 21-2647
plot date: December 02, 2021

drawing number:
CIV-3



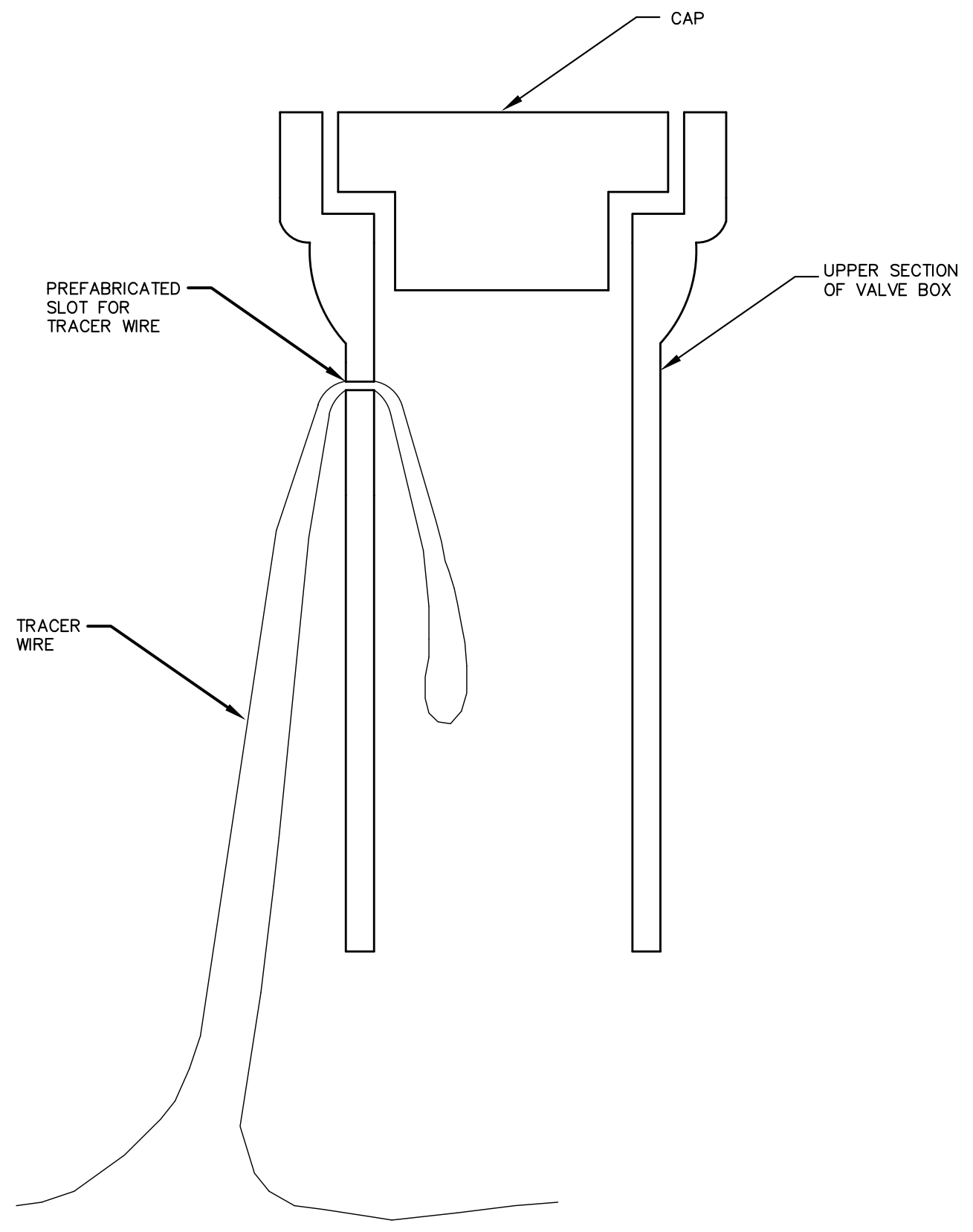
PIPE SIZE	100mm (4")	150mm (6")	200mm (8")	250mm (10")	300mm (12")
A	6m	6m	6m	6m	6m
B	12m	15m	18m	24m	24m
C	3m	6m	6m	9m	9m
D	6m	9m	12m	15m	18m
E	12m	15m	18m	24m	24m
F	6m	6m	6m	6m	6m
G	9m	12m	18m	21m	24m
H	TO BE DETERMINED BY WATER DEPARTMENT IN FIELD.				
MIN. LENGTH OF PVC WM. TO BE RESTRAINED					

NOTE:

'R' DENOTES RESTRAINED JOINT WHICH MEETS CURRENT TECUMSEH WATER DEPARTMENT MATERIAL SPECIFICATIONS.

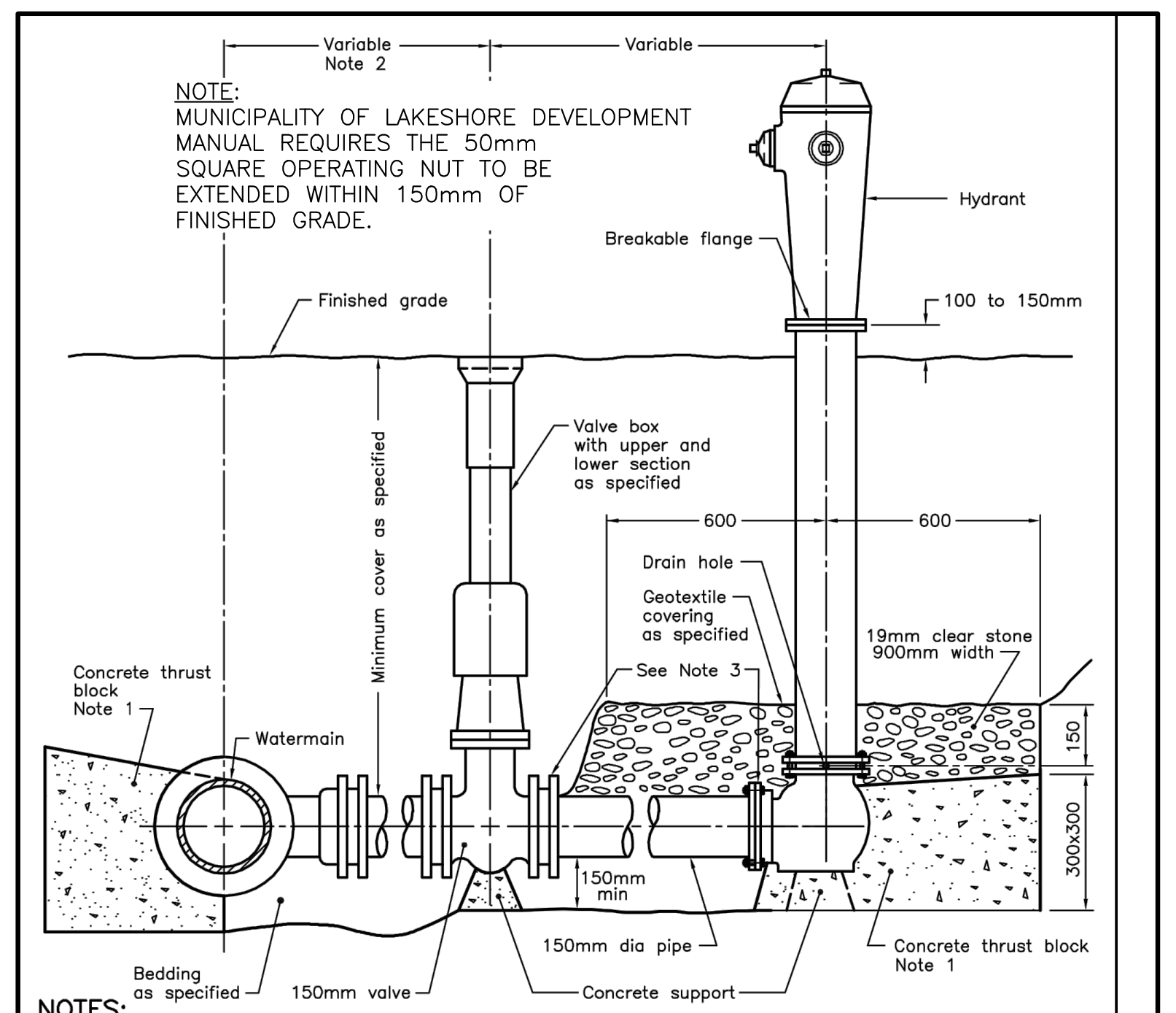
CHART BASED ON TYPICAL SOIL CONDITIONS ONLY.

JOINT RESTRAINER DEVICES



VALVE BOX AND TRACER WIRE INSTALLATION

NOTE:
MUNICIPALITY OF LAKESHORE DEVELOPMENT MANUAL REQUIRES THE 50mm SQUARE OPERATING NUT TO BE EXTENDED WITHIN 150mm OF FINISHED GRADE.

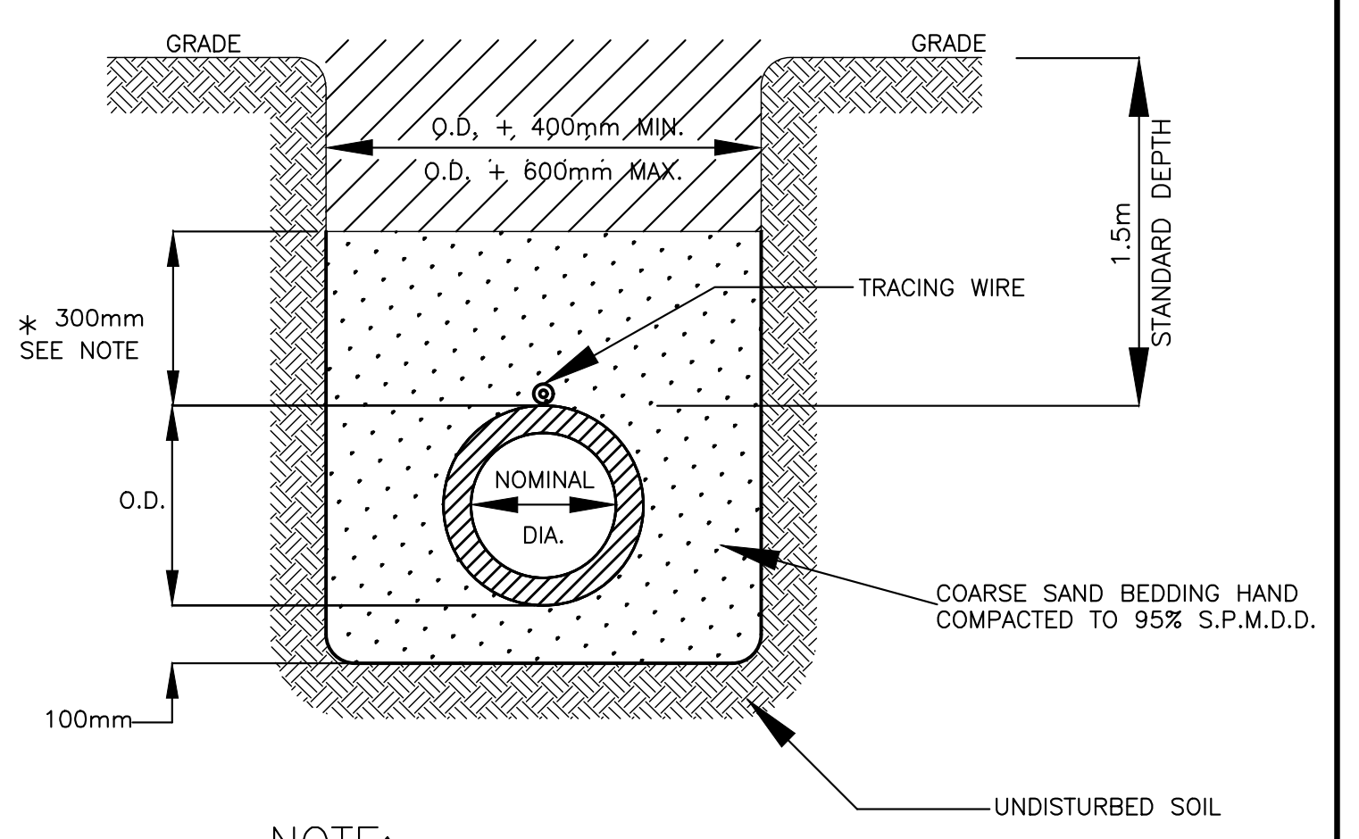


NOTES:
1 All concrete thrust blocks to be precast and placed against undisturbed ground.
2 When specified, for watermains 400mm and less, locate valve within 1.0m of centreline of watermain. Retaining and restraining devices shall be utilized. For watermains 600mm and over, bolt valve with flanged end directly to flanged tee.
3 When specified, retaining and restraining devices shall be utilized, in addition to thrust blocks.
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 All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
Nov 2013 Rev 2

HYDRANT INSTALLATION

*MODIFIED
OPSD 1105.010



NOTE:

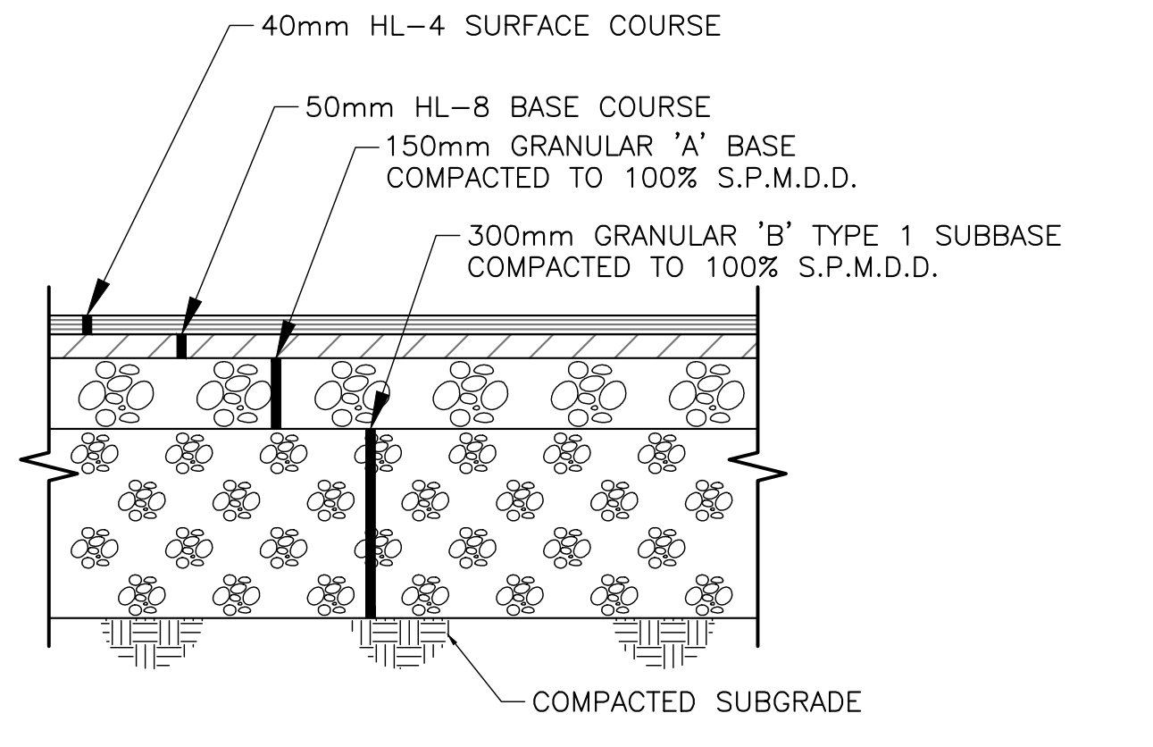
WATERMAIN SHALL BE CLASS 150 PVC CONFORMING TO A.W.W.A. STANDARD C–900 WITH CAST IRON CEMENT LINED FITTINGS.

PVC WATERMAIN TRENCH BEDDING

GENERAL NOTES:

1. THE OWNER AND DILLON CONSULTING LIMITED DO NOT GUARANTEE THE ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS. OTHER UTILITIES MAY BE PRESENT OR THE UTILITIES SHOWN MAY DIFFER IN SIZE OR LOCATION FROM THOSE SHOWN. THE CONTRACTOR SHALL NOTE THAT SERVICES FROM THE MAIN LINES ARE NOT SHOWN. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES AND TO REPAIR ANY DAMAGE IT MAY CAUSE TO THESE UTILITIES OR TO OTHER THIRD PARTIES. THE CONTRACTOR AGREES TO INDEMNIFY THE OWNER AND DILLON CONSULTING LIMITED AGAINST ANY CLAIMS WHICH MAY ARISE FROM THE CONTRACTOR'S ACTIONS.
2. ALL WORKS SHALL COMPLY WITH THE CITY OF OTTAWA OR OPS STANDARDS.

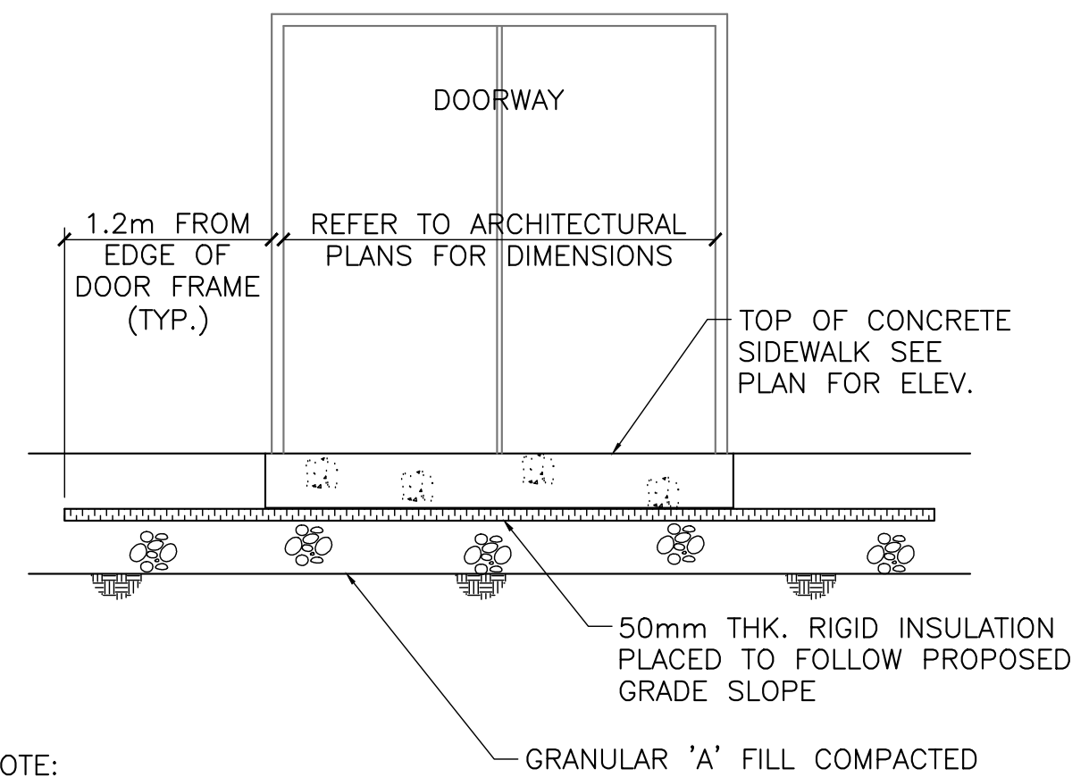
ALL EXISTING INVERTS TO BE FIELD CHECKED
PRIOR TO CONSTRUCTION



NOTE:
ASPHALT MIXES TO BE PG 58–34

LIGHT DUTY ASPHALT PAVEMENT

NOT TO SCALE

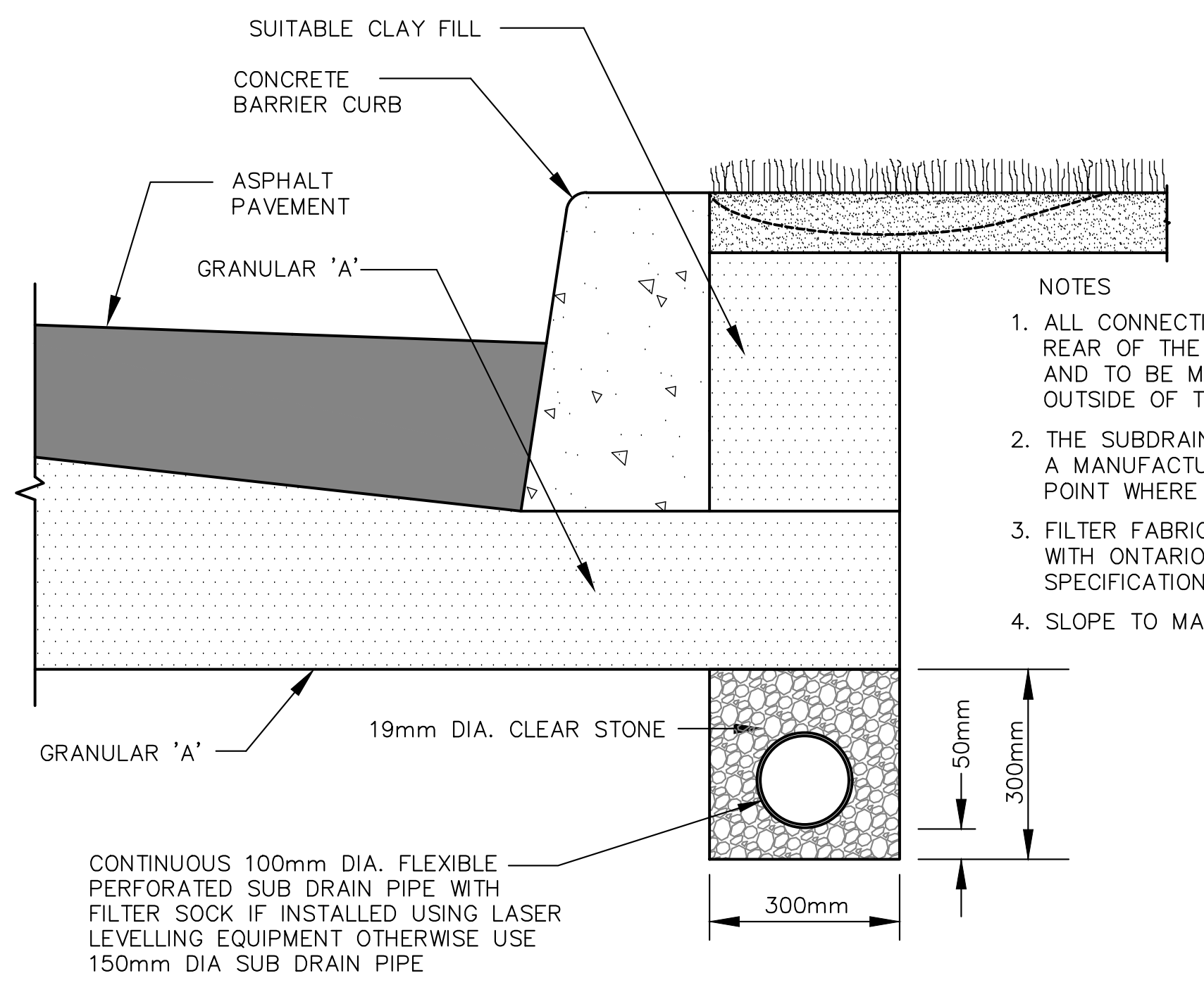


GRANULAR 'A' FILL COMPACTED TO 100% S.P.D.D.
SUB–BASE TO BE COMPACTED PRIOR TO PLACING FILL

NOTE:
INSULATION TO EXTEND 1.2m FROM THE BUILDING FACE

SIDEWALK AT DOORWAY DETAIL

NOT TO SCALE



NOTES
1. ALL CONNECTIONS TO BE MADE AT THE REAR OF THE CATCHBASIN USING A TEE AND TO BE MORTARED AT THE INSIDE AND OUTSIDE OF THE CATCHBASIN WALLS.
2. THE SUBDRAIN SHALL BE CAPPED WITH A MANUFACTURED CAP AT THE HIGH POINT WHERE THERE IS NO CATCH BASIN.
3. FILTER FABRIC SHALL BE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD SPECIFICATIONS.
4. SLOPE TO MATCH ROAD GRADE.

SUBDRAIN DETAIL

THE FOLLOWING ONTARIO PROVINCIAL STANDARD DETAILS SHALL APPLY TO THIS CONTRACT	
600.040	CONCRETE BARRIER CURB WITH STANDARD GUTTER
600.110	CONCRETE BARRIER CURB
701.010	PRECAST CONCRETE MAINTENANCE HOLE – 1200mm DIAMETER
705.010	PRECAST CONCRETE CATCH BASIN – 600x600mm
708.020	SUPPORT FOR PIPE AT CATCH BASIN OR MAINTENANCE HOLE
708.030	CATCH BASIN CONNECTION FOR FLEXIBLE MAIN PIPE SEWER
802.010	FLEXIBLE PIPE EMBEDMENT AND BACKFILL EARTH EXCAVATION
802.030	RIGID PIPE BEDDING, COVER, AND BACKFILL TYPE 1 OR 2 – EARTH EXCAVATION

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Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.

#	date:	revision:	by:
1	12/02/2021	SPA / ZBA SUBMISSION	CDP

revisions

C.D. PATTEN
100083837
02-DEC-21

All drawing and specifications are the property of the architect. The contractor shall verify all dimensions and information on site and report any discrepancy to architect before proceeding.

Arch Corp - LTC ORLEANS

FAMILLE-LAPORTE AVENUE
OTTAWA, ON

MISCELLANEOUS DETAILS

scale: N.T.S.
drawn by: DS
reviewed by: CDP
job number: 21-2647
plot date: December 02, 2021

drawing number:
STD

FILENAME: C:\PW WORKING DIRECTORY\PROJECTS 2021\32DS\DMS62260\212647-02-STD-CON.DWG PLOTTED BY: STOICA, DORINA
PLOT DATE: 2021-12-02 @ 3:07:13 PM PLOT SCALE: 1:25.4 PLOT STYLE: DILLON-STANDARD.CTB

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	VIVEK SHARMA 647-463-9803 VIVEK.SHARMA@ADS-PIPE.COM
ADS SALES REP:	###### ######## ############ ######.########@ADS-PIPE.COM
PROJECT NO:	#######

ADVANCED DRAINAGE SYSTEMS, INC.

SiteASSIST by StormTech
FOR STORMTECH INSTRUCTIONS, DOWNLOAD THE INSTALLATION APP

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DC-780 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH DC-780.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL BE CERTIFIED TO CSA B184, "POLYMERIC SUB-SURFACE STORMWATER MANAGEMENT STRUCTURES", AND MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE CSA S6 CL-625 TRUCK AND THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 50 mm (2").
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 23° C / 73° F), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE DC-780 SYSTEM

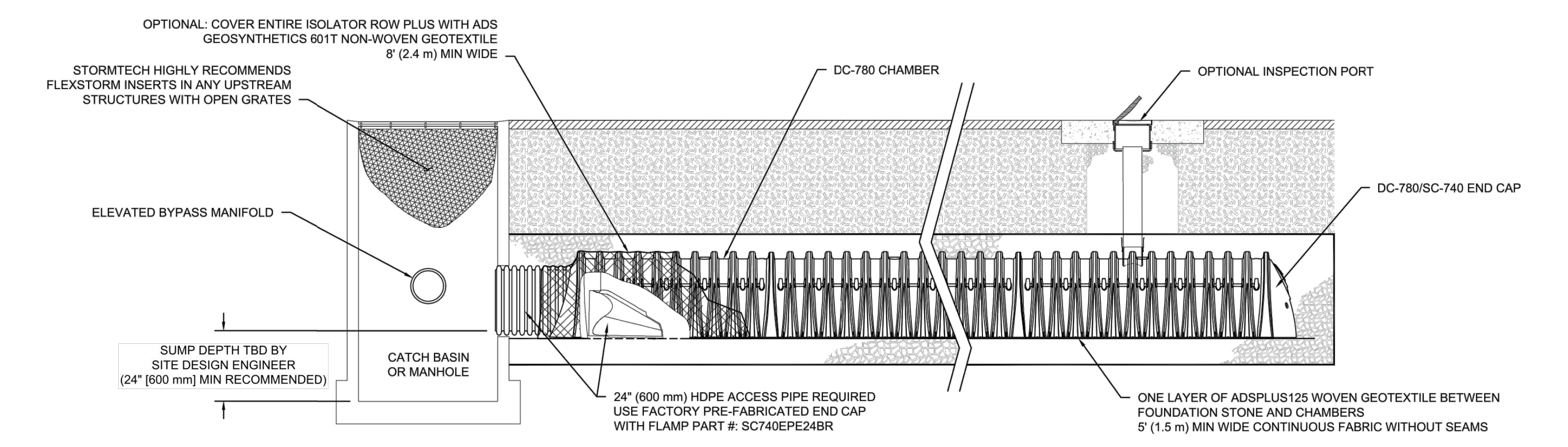
1. STORMTECH DC-780 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/DC-780/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER 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 HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 150 mm (6") SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 20-50 mm (3/4-2").
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH DC-780 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER DC-780 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/DC-780/DC-780 CONSTRUCTION GUIDE".
3. FULL 900 mm (36") OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A 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 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



DC-780 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR 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 ON 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.

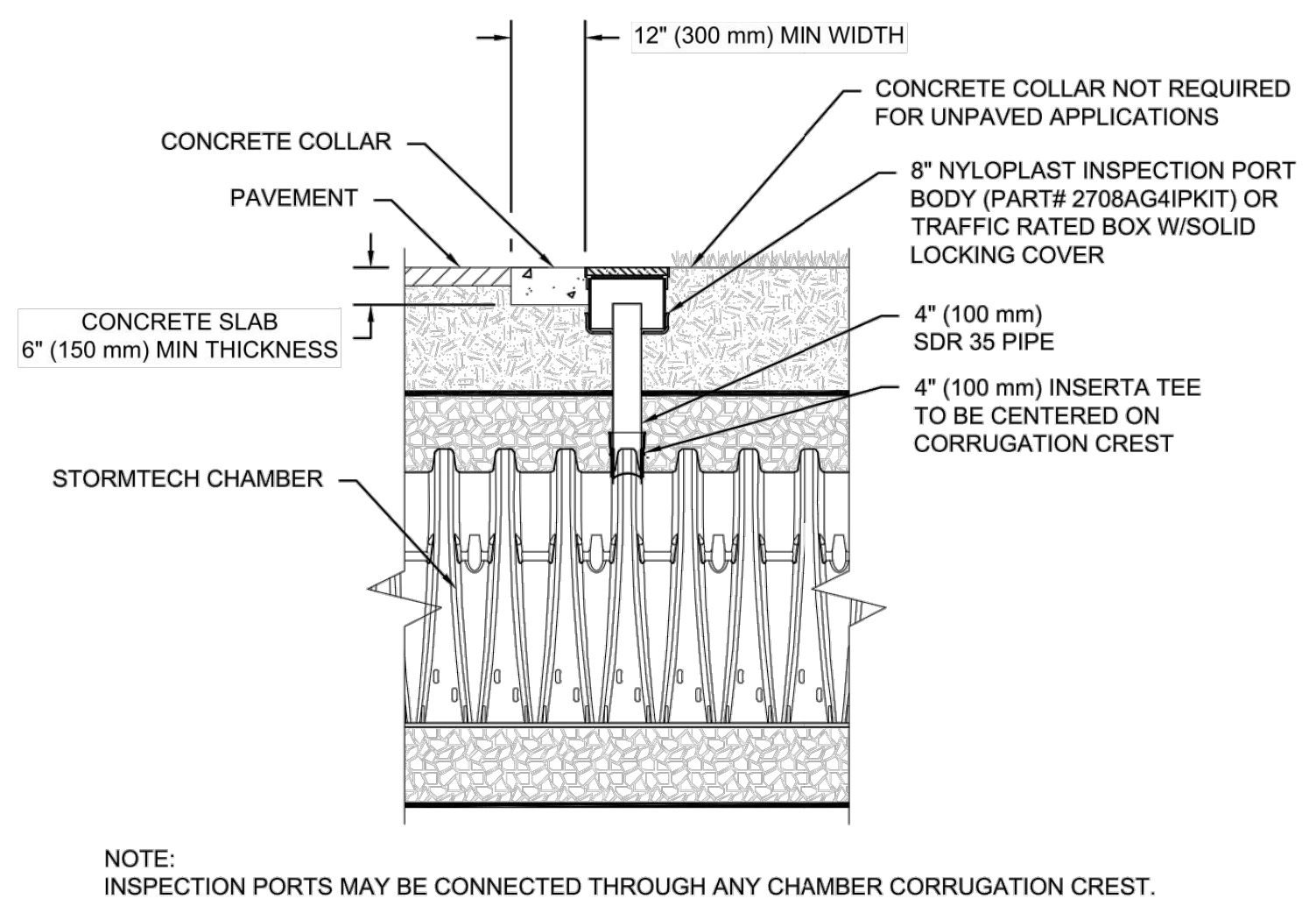
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

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

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



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

DC-780
ISOLATOR ROW PLUS DETAILS
DATE: 10/29/20 DRAWN: ALI CHECKED: ALI PROJECT #:

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70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067

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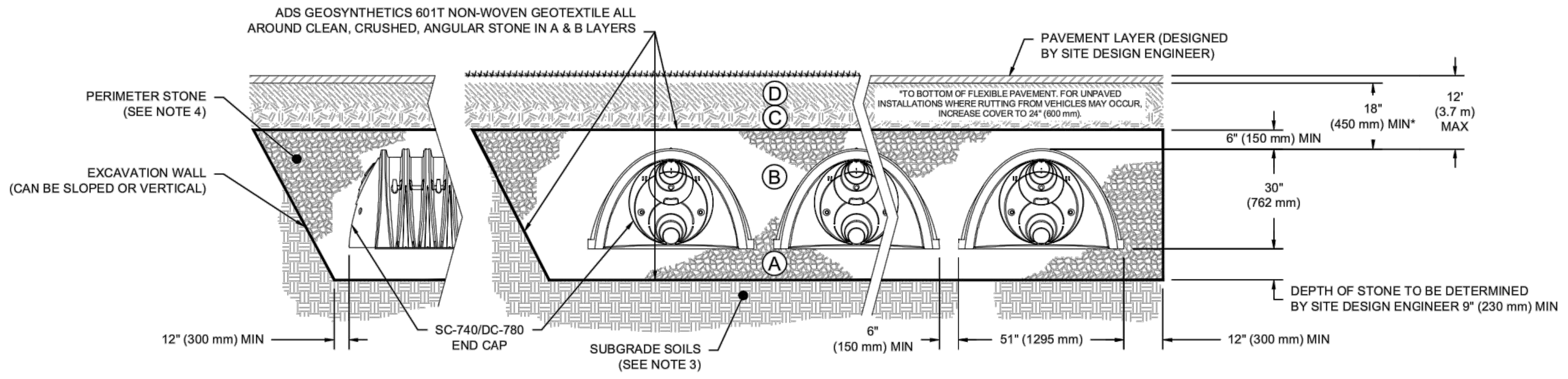
4640 TRUEMAN BLVD
HILLIARD, OH 43026

SHEET 1 OF 1

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.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. 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, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 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	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. 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".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. DC-780 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

DC-780
STANDARD CROSS SECTION
DATE: 05-10-19 DRAWN: KR CHECKED: KR PROJECT #:

StormTech Detention•Retention•Water Quality
70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067

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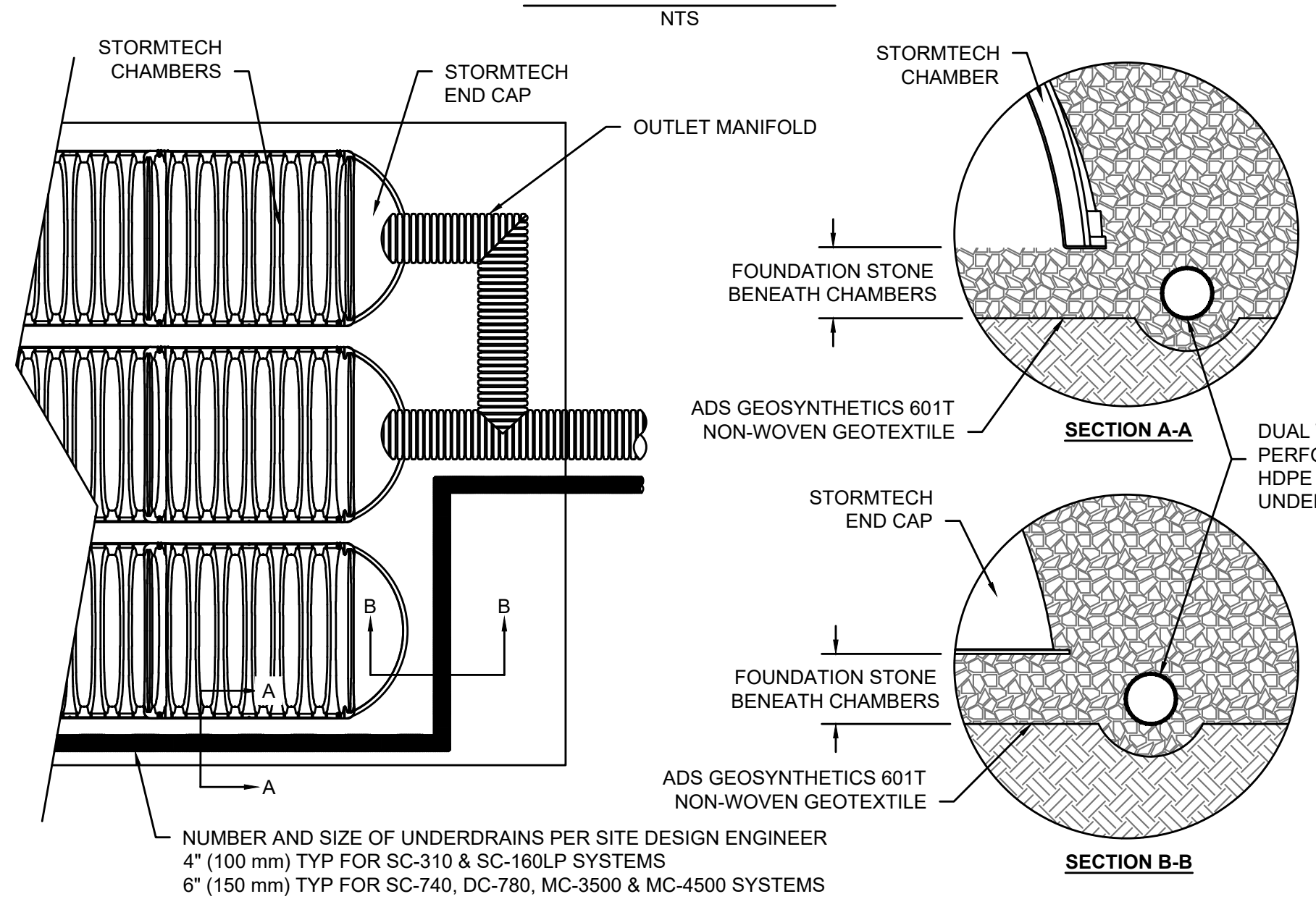
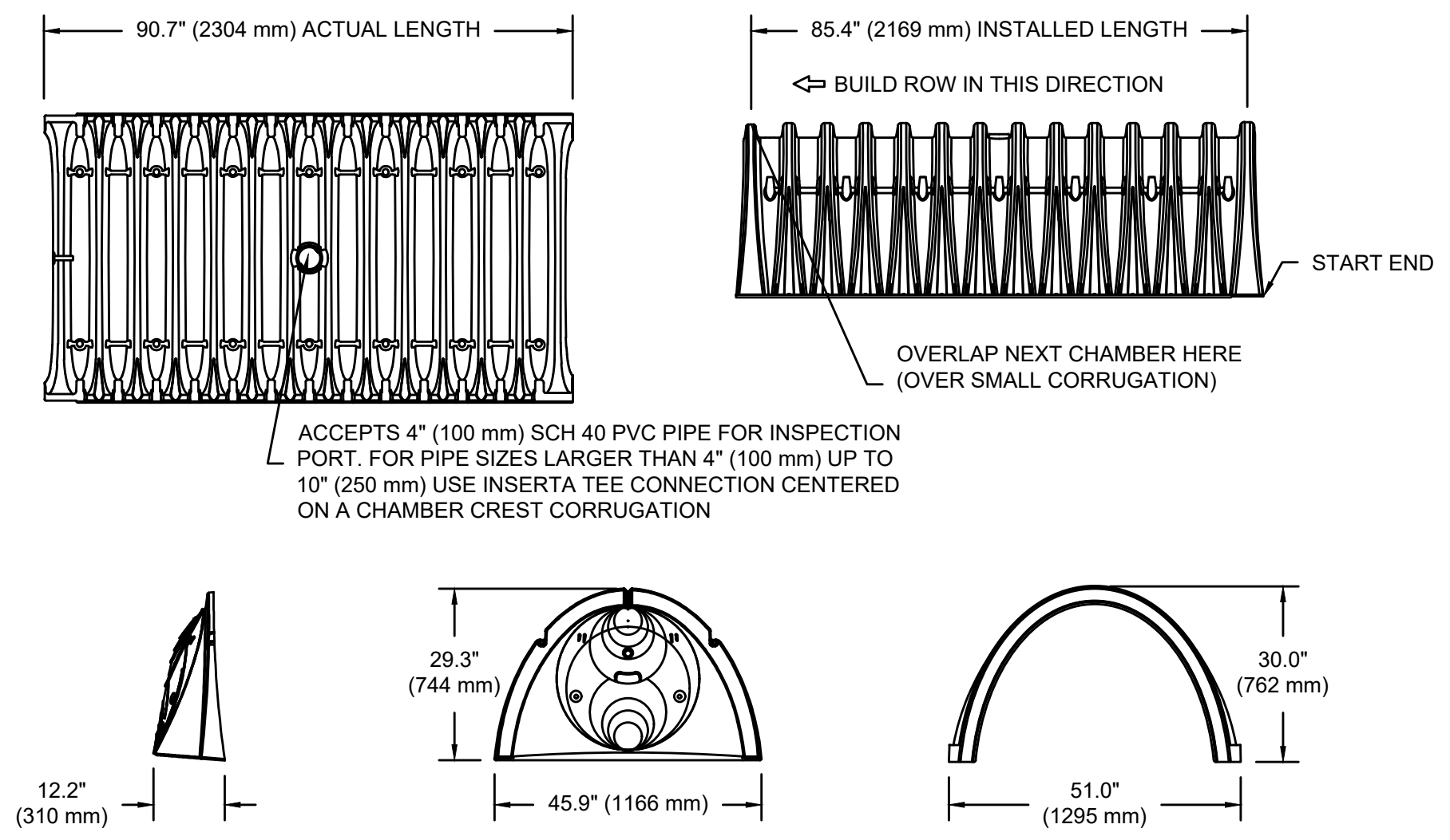
4640 TRUEMAN BLVD
HILLIARD, OH 43026

SHEET 1 OF 1

UNDERDRAIN DETAIL
NTS



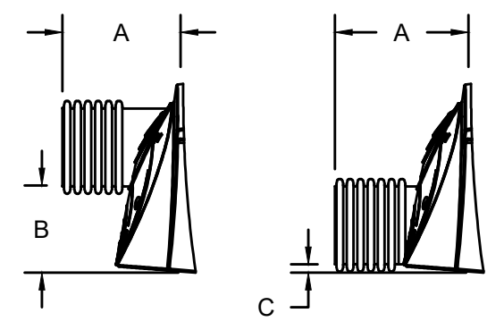
DC-780 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	46.2 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	78.4 CUBIC FEET	(2.20 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, 9" (229 mm) BELOW, AND 6" (152 mm) BETWEEN CHAMBERS



STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T/ SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B 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 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

DATE: ######## DRAWN: ### CHECKED: ### PROJECT #: ########
############
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SHEET OF #

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#	date:	revision:	by:
1	12/02/2021	SPA / ZBA SUBMISSION	CDP

revisions

All drawing and specifications are the property of the architect. The contractor shall verify all dimensions and information on site and report any discrepancy to architect before proceeding.

Arch Corp - LTC ORLEANS

FAMILLE-LAPORTE AVENUE
OTTAWA, ON

ADS STORMWATER CHAMBER DETAILS

scale: N.T.S.
drawn by: DS
reviewed by: CDP
job number: 21-2647
plot date: December 02, 2021

drawing number:
ADS