

# 1649 MONTREAL ROAD MONTREAL AND BLAIR ROAD

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29 August 2022 David Cam



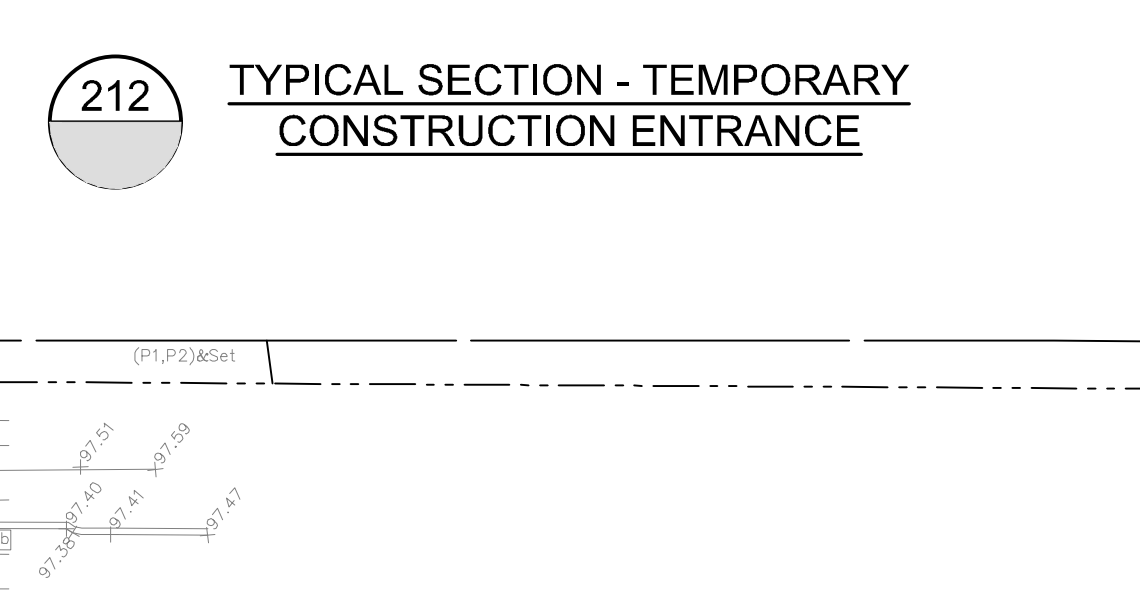
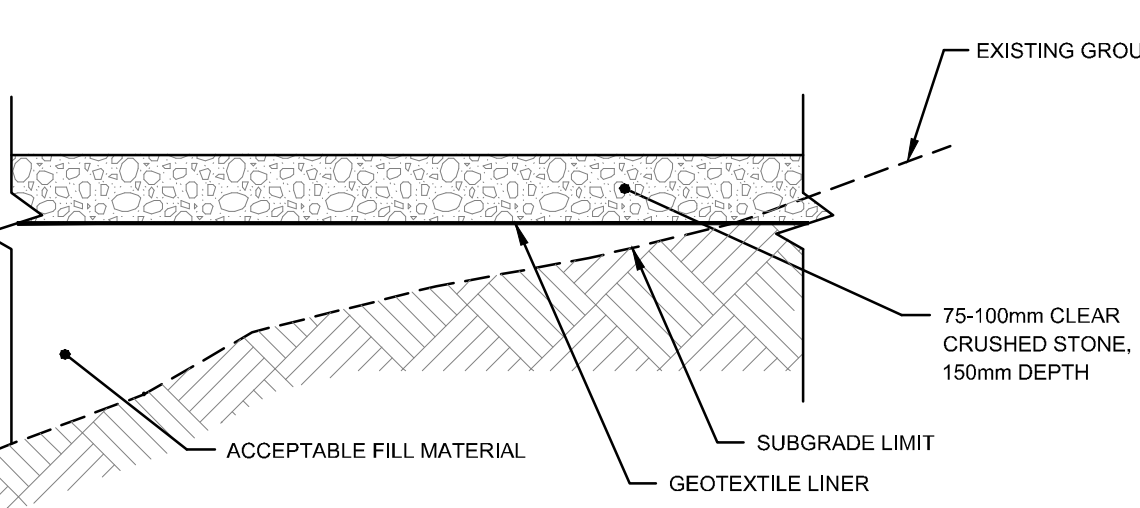
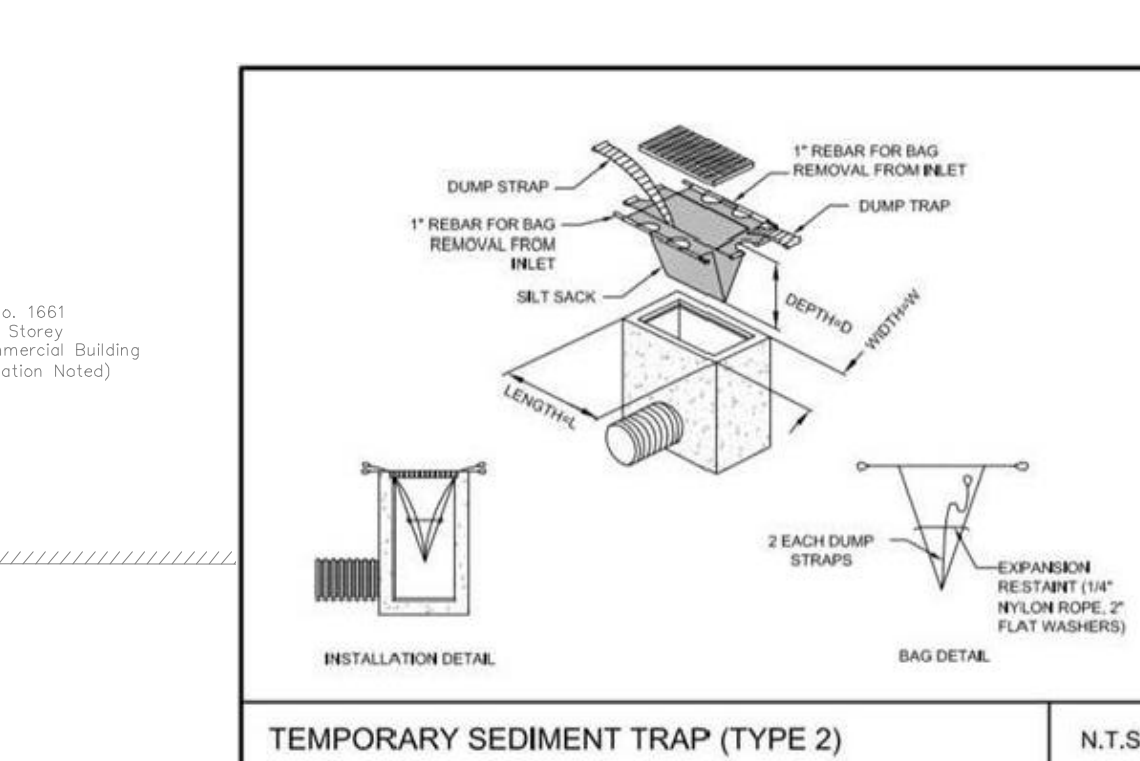
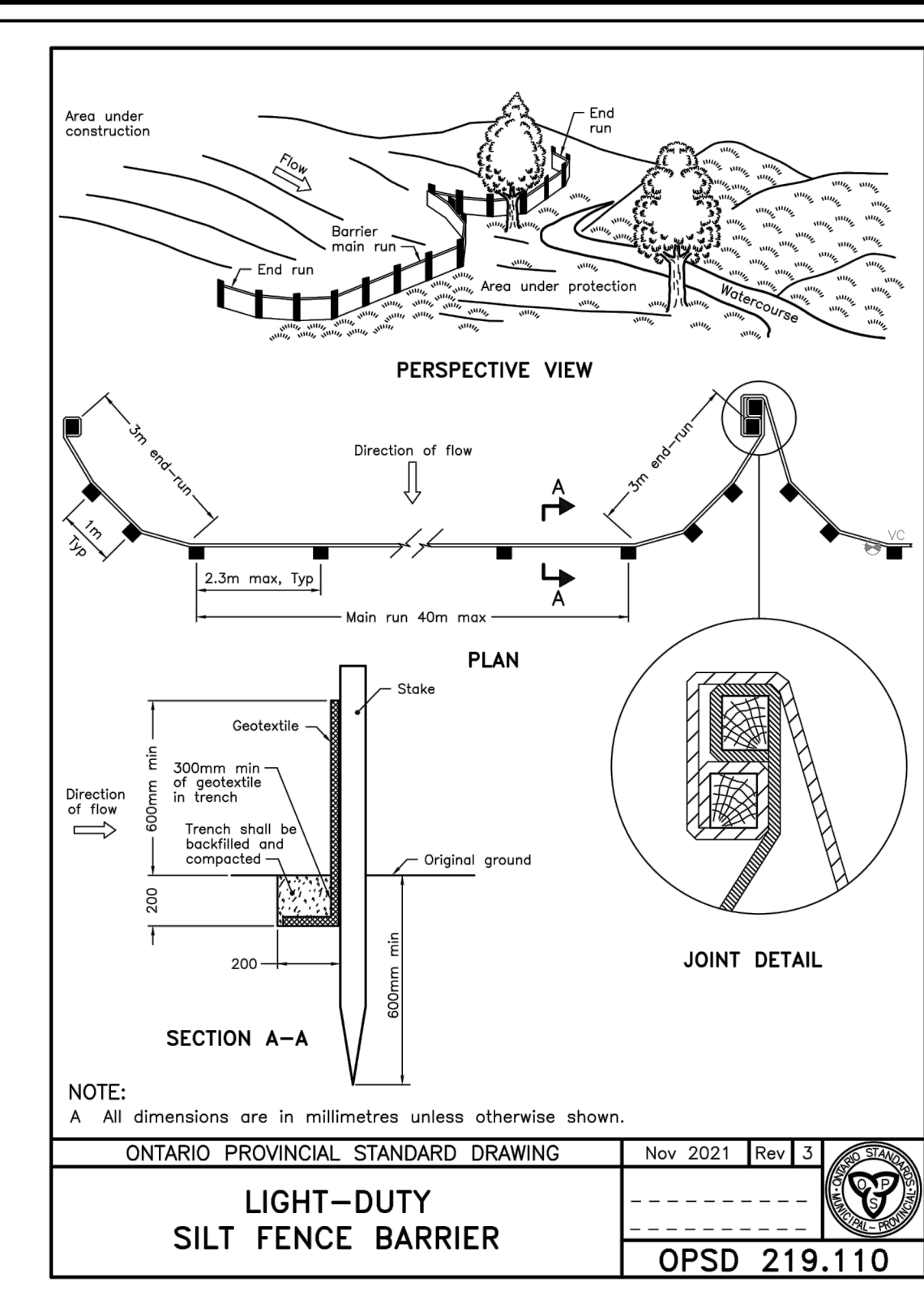
7, 81, 818, 818, 818  
118-380 Ontario Street, Ottawa, ON K1P 5B6 CANADA

BERTONE DEVELOPMENT CORPORATION  
1649 MONTREAL ROAD  
ISSUED FOR SITE PLAN CONTROL - AUGUST 29, 2022

C000



TITLEBLOCK 2408 VERT ENG 3.0  
 PRINT DATE: 2023/08/09 PAPER SIZE: ISO A4 (210.00 x 297.00 MM)  
 PATH: C:\Cima-CI\001\_P\Projects\AAG01000-001\489\A001101\_Bldg - All Road Towers\A000460\_Civil\CI002\_SedimentErosion.dwg LAYOUT: Workplan



THE UNDERGROUND FEATURES AND INFORMATION THAT APPEAR ON THE DRAWINGS WERE OBTAINED FROM THE PUBLIC UTILITY COMPANIES AND/OR FROM THE CITY EACH RESPECTIVELY.

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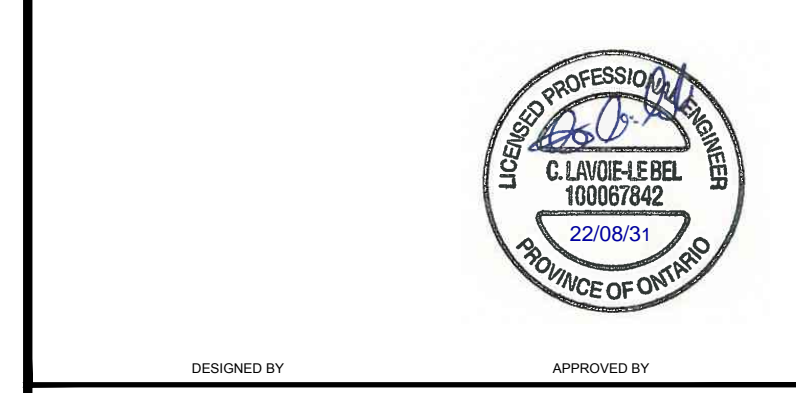
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EXISTING	PROPOSED
MH-ST	Maintenance Hole (Storm)
MH-S	Maintenance Hole (Sanitary)
MH-T	Maintenance Hole (Traffic)
VC	Valve Chamber (Watermain)
ST	Underground Storm Sewer
S	Underground Sanitary Sewer
W	Underground Water
P	Underground Power
GAS	Underground Gas
B	Underground Bell
TV	Underground Cable
OW	Overhead Wires
UP	Utility Pole
AN	Anchor
LS	Light Standard
CB	Catch Basin
PH	Fire Hydrant
WV	Water Valve
GM	Gas Meter
TB-B	Bell Terminal Box
TSB	Traffic Signal Box
TL	Traffic Light
S	Sign
CB	Gate
TEL	Telephone Booth
CLP	Diameter
BF	Chain Link Fence
MF	Metal Fence
CRW	Concrete Retaining Wall
SRW	Stone Retaining Wall
IN	Invert
T/G	Top of Grate
U/Eave	Underside of Eave
Top of Foundation	Centreline
Top of Foundation	Location of Elevations
Top of Foundation	Top of Concrete Curb/Retaining Wall Elevation
Property Line	Property Line
Easement	Easement
Shrub	Shrub
	Deciduous Tree
	Coniferous Tree
	Work Limit
	Borehole (Loc. Approx.)
	Silt Fence Per OPSD 219.110
	Overland Flow
	Temporary Construction Entrance

No.	Date	Description	By
1	22/08/12	ISSUED FOR SITE PLAN CONTROL	E.P.

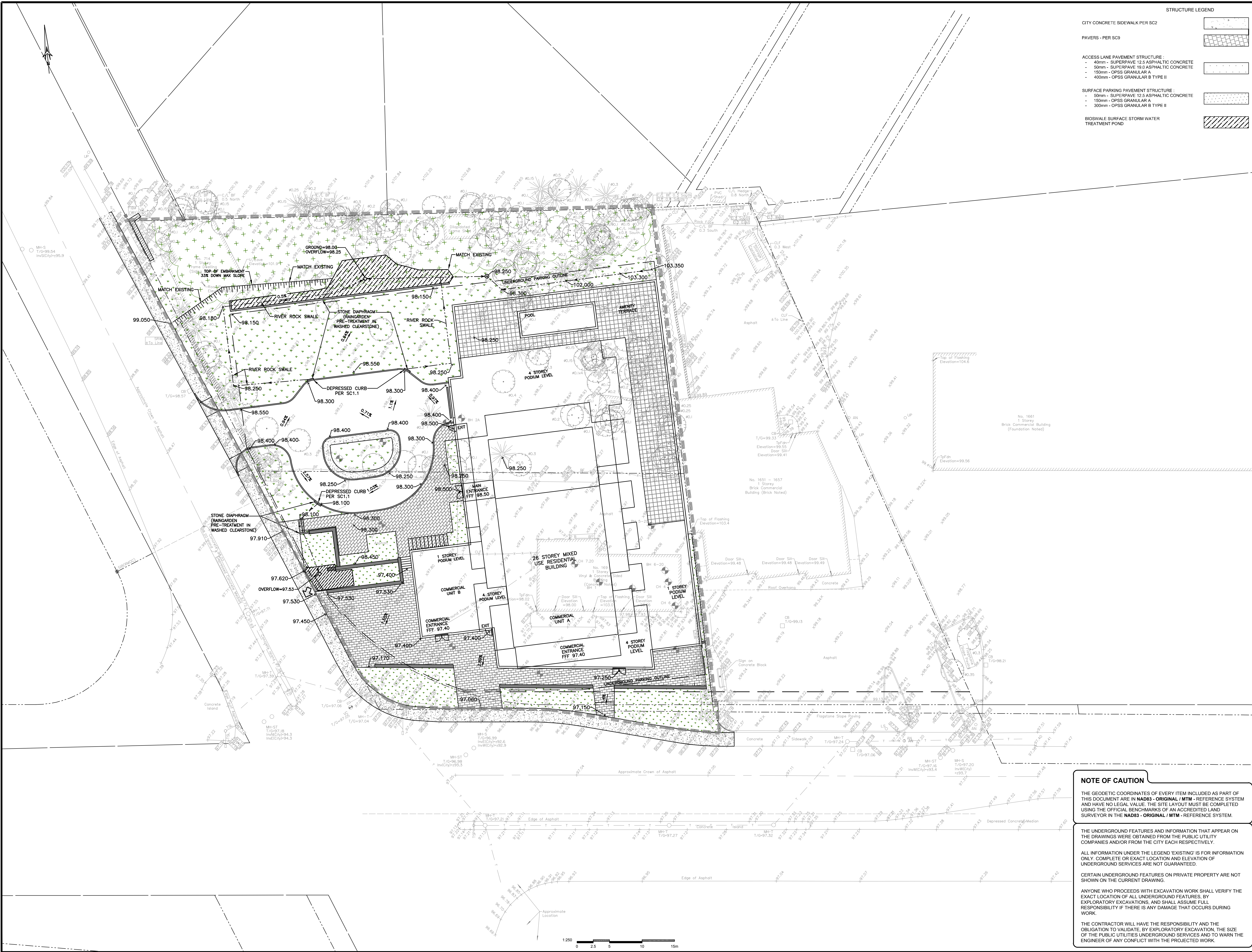


PROJECT NAME:  
**1649 MONTREAL ROAD  
 MONTREAL AND BLAIR**

SHEET TITLE:  
**SEDIMENT EROSION  
 AND CONTROL PLAN**

DATE/ITER	SCALE
S.C. POGGIOLI	1:250
DESIGNER: E. POTVIN	DATE: 22/08/31
APPROVER: E. POTVIN	APPROVER: C.L. LABEL
PROJECT No: A001101	DRAWING No: C002
SHEET No: 1 of 13	

TITLEBLOCK 24x36 VERT ENG 3.0  
 PRINT DATE: 2023/08/09 | PAPER SIZE: ISO A4 (210.00 x 297.00 MM) |  
 PATH: C:\Cima-C\0001\Projects\A0001000-0001499\A001101\_Bldg - All Road Towns\A000460\_Civil\0206\_Grading.dwg | LAYOUT: C005



**STRUCTURE LEGEND**

**CITY CONCRETE SIDEWALK PER SC2**

**PAVERS - PER SC9**

**ACCESS LANE PAVEMENT STRUCTURE:**  
 - 40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE  
 - 50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE  
 - 150mm - OPSS GRANULAR A  
 - 400mm - OPSS GRANULAR B TYPE II

**SURFACE PARKING PAVEMENT STRUCTURE:**  
 - 50mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE  
 - 150mm - OPSS GRANULAR A  
 - 300mm - OPSS GRANULAR B TYPE II

**BIOSWALE SURFACE STORM WATER TREATMENT POND**

**EXISTING**

- MH-ST Maintenance Hole (Storm)
- MH-S Maintenance Hole (Sanitary)
- MH-T Maintenance Hole (Traffic)
- VC Valve Chamber (Watermain)
- ST Underground Storm Sewer
- S Underground Sanitary Sewer
- W Underground Water
- P Underground Power
- GA5 Underground Gas
- B Underground Bell
- TV Underground Cable
- UP Overhead Wires
- Utility Pole
- AN Anchor
- LS Light Standard
- CB Catch Basin
- FD Fire Hydrant
- WV Water Valve
- GM Gas Meter
- BTB Bell Terminal Box
- TS Traffic Signal Post
- TL Traffic Light
- BS Bolt
- S Sign
- G Gate
- TEL Telephone Booth
- # Diameter
- CLF Chain Link Fence
- BF Board Fence
- MF Metal Fence
- CRW Concrete Retaining Wall
- SRW Stone Retaining Wall
- IN Invert
- T/G Top of Grate
- U/Eve Underside of Eave
- T/Fn Top of Foundation
- CE Centreline
- Location of Elevations
- Top of Concrete Curb/Retaining Wall Elevation
- Drainage Direction
- Property Line
- Easement
- Shrub
- Deciduous Tree
- Coniferous Tree
- Work Limit
- Borehole (Loc. Approx.)
- Overland Flow

**PROPOSED**

Scale: 1:250

North Arrow

No.	Date	Description	By
1	22/08/12	ISSUED FOR SITE PLAN CONTROL	E.P.

STAMPS

DESIGNED BY: [Signature]

APPROVED BY: [Signature]

ENGINEER: [Signature]

CLIENT: [Signature]

PROJECT NAME: 1649 MONTREAL ROAD MONTREAL AND BLAIR

SHEET TITLE: GRADE CONTROL AND DRAINAGE PLAN

DISCIPLINE: CIVIL

DRAWN BY: S.C. POGGIOLI

SCALE: 1:250

DATE: 22/08/31

DESIGNER: E. POTVIN

APPROVER: C.L. LABEL

PROJECT No: A001101

DRAWING No: C006

SHEET No: 6 of 13

**NOTE OF CAUTION**

THE GEODETIC COORDINATES OF EVERY ITEM INCLUDED AS PART OF THIS DOCUMENT ARE IN NAD83 - ORIGINAL / MTM - REFERENCE SYSTEM AND HAVE NO LEGAL VALUE. THE SITE LAYOUT MUST BE COMPLETED USING THE OFFICIAL BENCHMARKS OF AN ACCREDITED LAND SURVEYOR IN THE NAD83 - ORIGINAL / MTM - REFERENCE SYSTEM.

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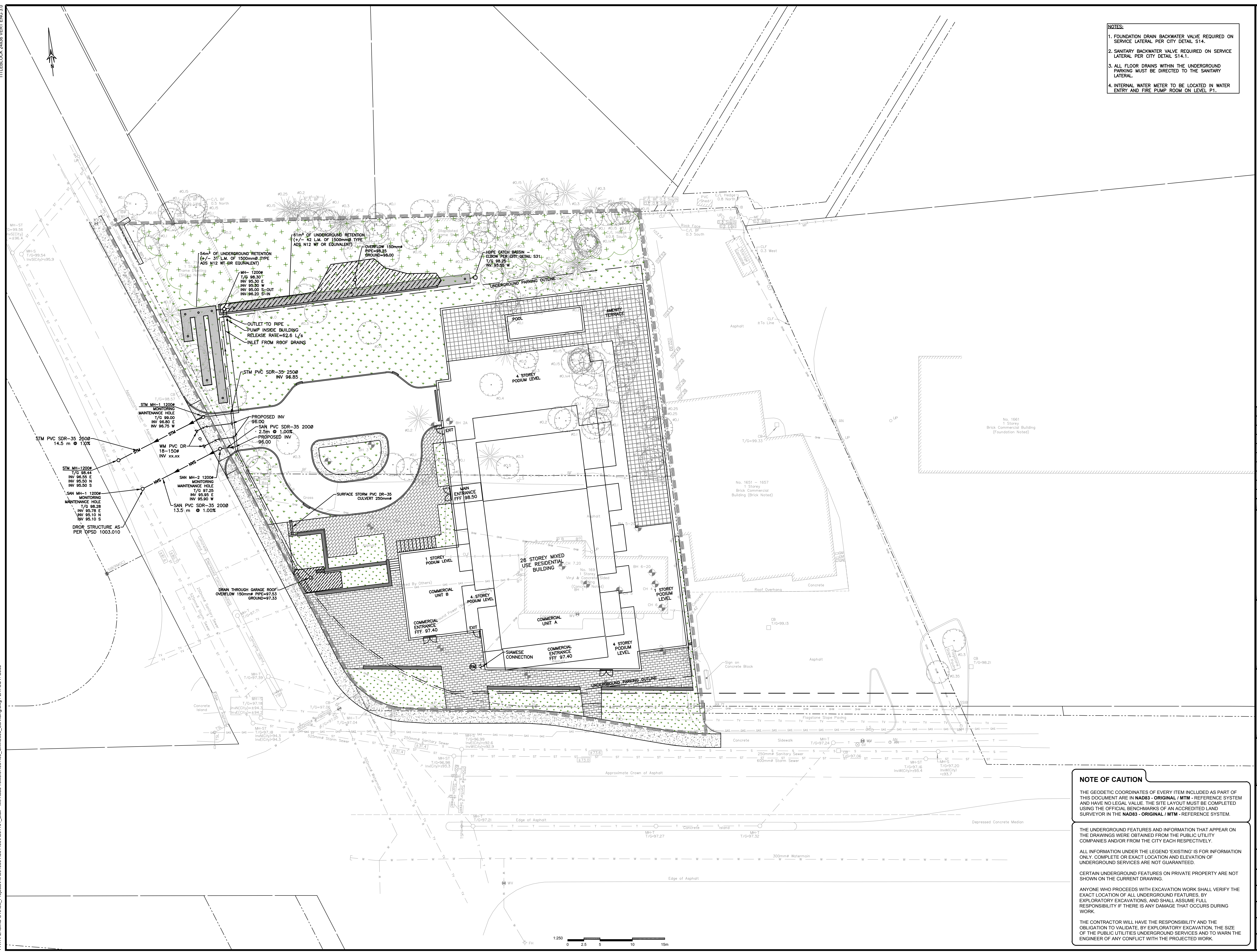
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- NOTES:**
- 1. FOUNDATION DRAIN BACKWATER VALVE REQUIRED ON SERVICE LATERAL PER CITY DETAIL S14.
  - 2. SANITARY BACKWATER VALVE REQUIRED ON SERVICE LATERAL PER CITY DETAIL S14.1.
  - 3. ALL FLOOR DRAINS WITHIN THE UNDERGROUND PARKING MUST BE DIRECTED TO THE SANITARY LATERAL.
  - 4. INTERNAL WATER METER TO BE LOCATED IN WATER ENTRY AND FIRE PUMP ROOM ON LEVEL P1.

EXISTING	PROPOSED
○ MH-ST	○ Maintenance Hole (Storm)
○ MH-S	○ Maintenance Hole (Sanitary)
○ MH-T	○ Maintenance Hole (Traffic)
○ VC	○ Valve Chamber (Watermain)
— ST	— Underground Storm Sewer
— S	— Underground Sanitary Sewer
— W	— Underground Water
— P	— Underground Power
— GAS	— Underground Gas
— B	— Underground Bell
— TV	— Underground Cable
—	— Overhead Wires
○ LP	○ Light Pole
○ AN	○ Anchor
○ LS	○ Light Standard
○ CB	○ Catch Basin
○ FH	○ Fire Hydrant
○ WV	○ Water Valve
○ GV	○ Gas Valve
○ GM	○ Gas Meter
○ TB-B	○ Bell Terminal Box
○ TSP	○ Traffic Signal Post
○ TL	○ Traffic Light
○ B	○ Bollard
○ S	○ Sign
○ G	○ Gate
○ TEL	○ Telephone Booth
○	○ Diameter
○ CLF	○ Chain Link Fence
○ BF	○ Board Fence
○ MF	○ Metal Fence
○ CRW	○ Concrete Retaining Wall
○ SRW	○ Stone Retaining Wall
○ INV	○ Invert
○ T/G	○ Top of Grate
○ U/Eave	○ Underside of Eave
○ T/Fdn	○ Top of Foundation
○ C/L	○ Centreline
○ T 65.00	○ Location of Elevations
○ T 65.00	○ Top of Concrete Curb/Retaining Wall Elevation
○	○ Drainage Direction
○	○ Property Line
○	○ Easement
○	○ Shrub
○	○ Deciduous Tree
○	○ Coniferous Tree
○	○ Work Limit
○	○ Borehole (Loc. Approx.)
○	○ Sewer / Watermain Insulation
○	○ Bioswale Surface Storm Water Treatment Pond
○	○ Remote Water Metering Reading Device
○	○ Internal Water Meter
○	○ Fire Department (Siamese) Connection

No.	Date	Description	By
1	22/08/12	ISSUED FOR SITE PLAN CONTROL	E.P.

DESIGNED BY: [Signature]  
APPROVED BY: [Signature]

**PROFESSIONAL ENGINEER**  
C. LAUD-LEBEL  
100067842  
22/08/31  
PROVINCE OF ONTARIO

ENGINEER: **CIMA+**

CLIENT: **BERTONE**

PROJECT NAME: **1649 MONTREAL ROAD MONTREAL AND BLAIR**

SHEET TITLE: **SITE SERVICING PLAN**

DISCIPLINE:	CIVIL
DRAWN BY: S.C. POGGIOLI	SCALE: 1:250
DESIGNED BY: E. POTVIN	DATE: 22/08/31
APPROVED BY: E. POTVIN	APPROVER: C.L. LABEL
PROJECT No: A001101	DRAWING No: C006
SHEET No: 6 of 13	

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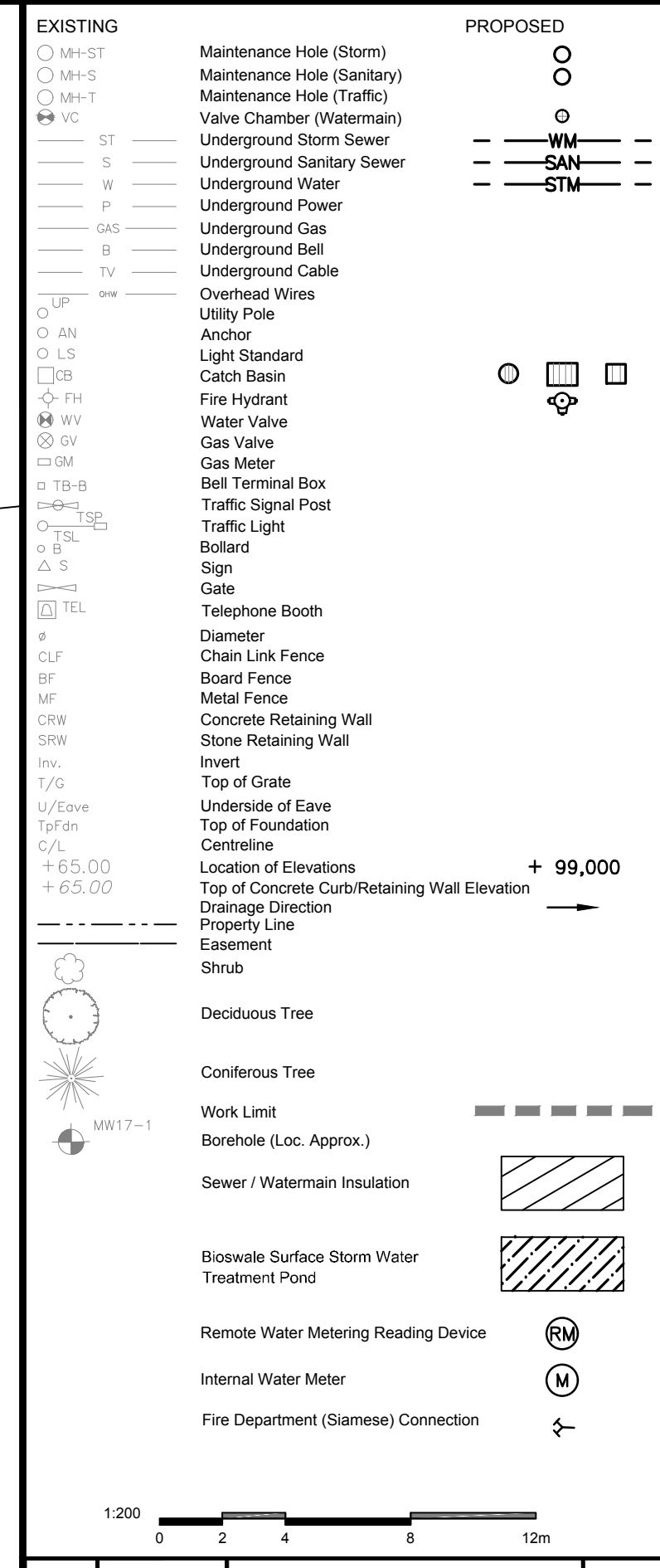
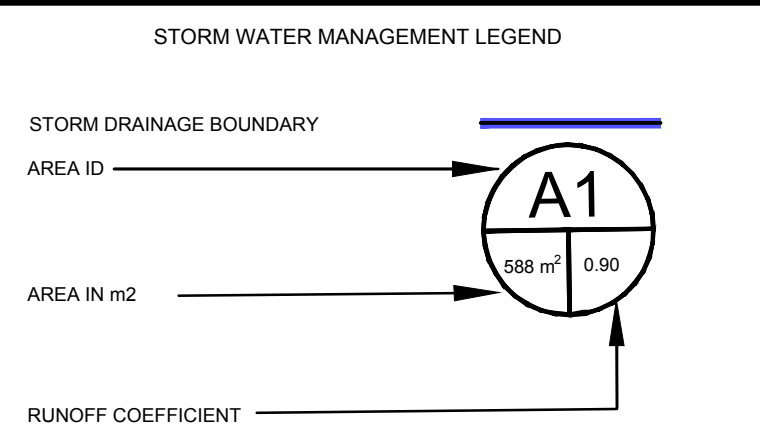
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Area ID	Area (m <sup>2</sup> )	NC	Available Area	Catchbasin Elev.	Max. Elev.	Ymax	Vmax	Vrain	Yrain	Elevrain	Arain	Q	Tank Release Rate	Drawdown Time	Notes
A1	2026	0	-	-	-	-	-	-	12.3	-	-	-	-	-	Building Roof
A2	1819	0	-	-	-	-	-	-	22.8	-	-	-	-	-	Back
A3	617	0	-	-	-	-	-	-	12.9	48.1	-	-	-	-	Front
A4	420	0	-	-	-	-	-	-	0.0	-	-	-	-	-	Area between Building & Montreal Rd
Unattenuated	514	0	-	-	-	-	-	-	-	-	-	-	-	-	Unattenuated

**DEFINITIONS OF ABBREVIATIONS USED IN CALCULATION TABLE:**  
 NC = Area is not controlled (unattenuated)  
 Available Area = Area of water accumulated in sub-area at Max. Elev.  
 Catchbasin Elev. = Elevation of catchbasin inlet (top of grate).  
 Max. Elev. = Maximum elevation of water that may be accumulated within sub-area.  
 Ymax = Maximum depth of water that may be accumulated within the sub-area.  
 Vmax = Maximum volume of water (capacity) that may be accumulated within the sub-area.  
 Vrain = Volume of water generated by rainfall.  
 Vacc = Total volume of water accumulated within the sub-area in the event of a specific rainfall.  
 Yrain = Depth of water generated by rainfall.  
 Elevrain = Elevation of water generated by rainfall.  
 Arain = Area of water generated by rainfall.  
 Q = Release flow rate.  
 Tank Release Rate = Release rate from the underground storage tank equal to 1/2 the allowable release rate.  
 Drawdown Time = Time required for the total volume of water accumulated within sub-area to subside.

Area ID	Area (m <sup>2</sup> )	NC	Available Area	Catchbasin Elev.	Max. Elev.	Ymax	Vmax	Vrain	Yrain	Elevrain	Arain	Q	Tank Release Rate	Drawdown Time	Notes
A1	2026	0	-	-	-	-	-	-	39.8	-	-	-	-	-	Building Roof
A2	1819	0	-	-	-	-	-	-	61.2	-	-	-	-	-	Back
A3	617	0	-	-	-	-	-	-	28.0	129.0	-	-	-	-	Front
A4	420	0	-	-	-	-	-	-	0.0	-	-	-	-	-	Area between Building & Montreal Rd
Unattenuated	514	0	-	-	-	-	-	-	-	-	-	-	-	-	Unattenuated

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No.	Date	Description	By
1	22/08/12	ISSUED FOR SITE PLAN CONTROL	E.P.



DESIGNED BY: [Signature] APPROVED BY: [Signature]

**CIMA+**

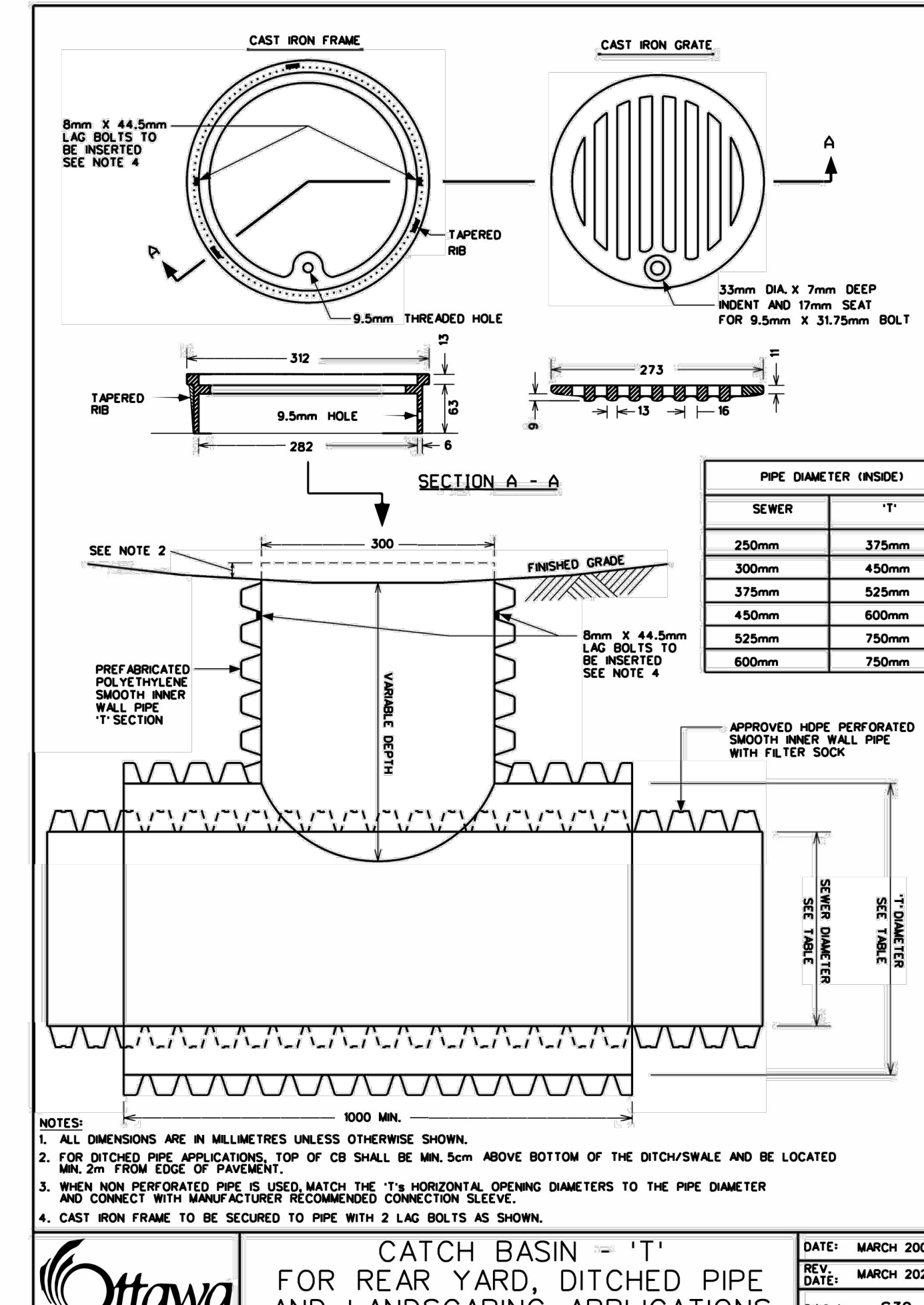
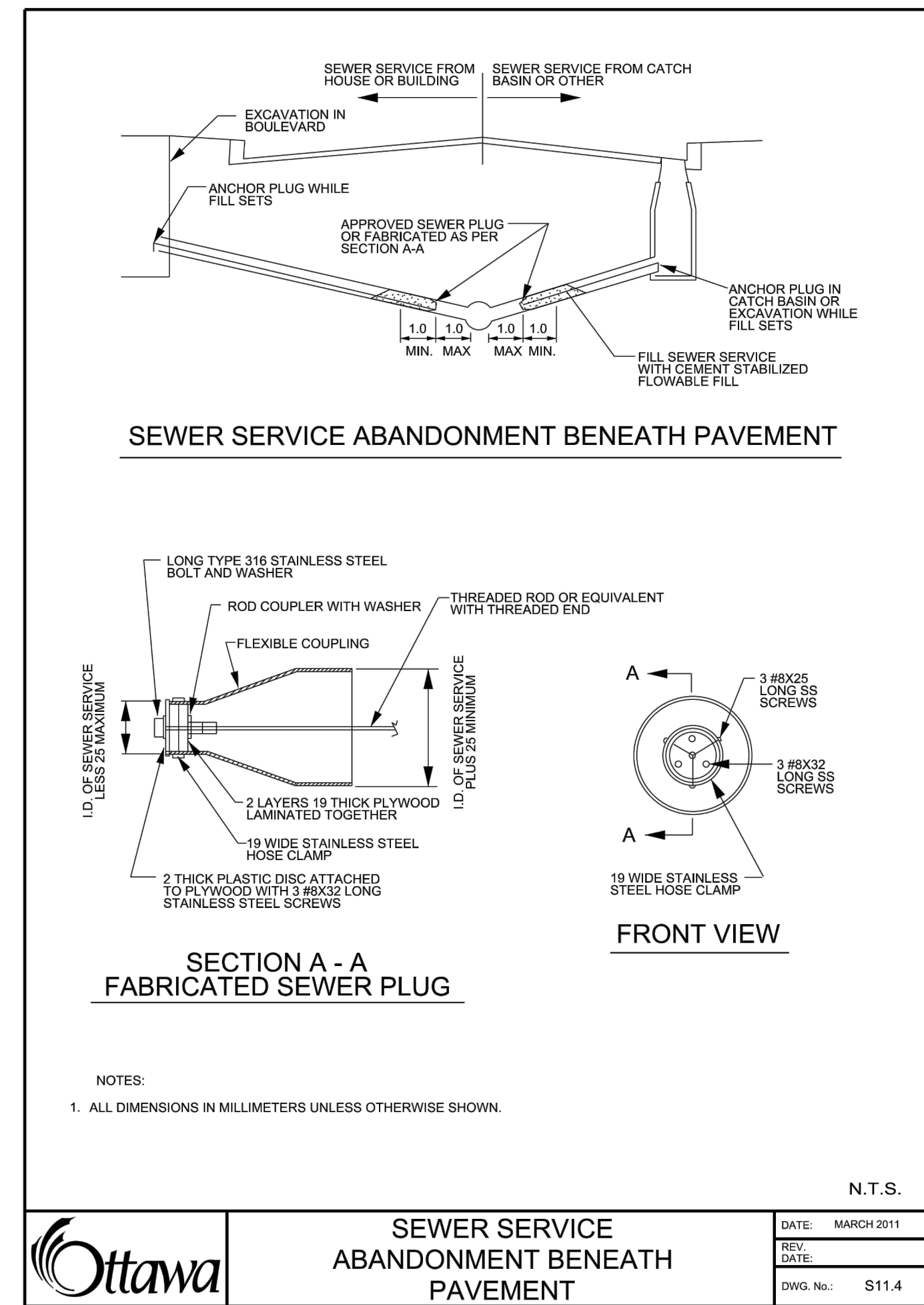
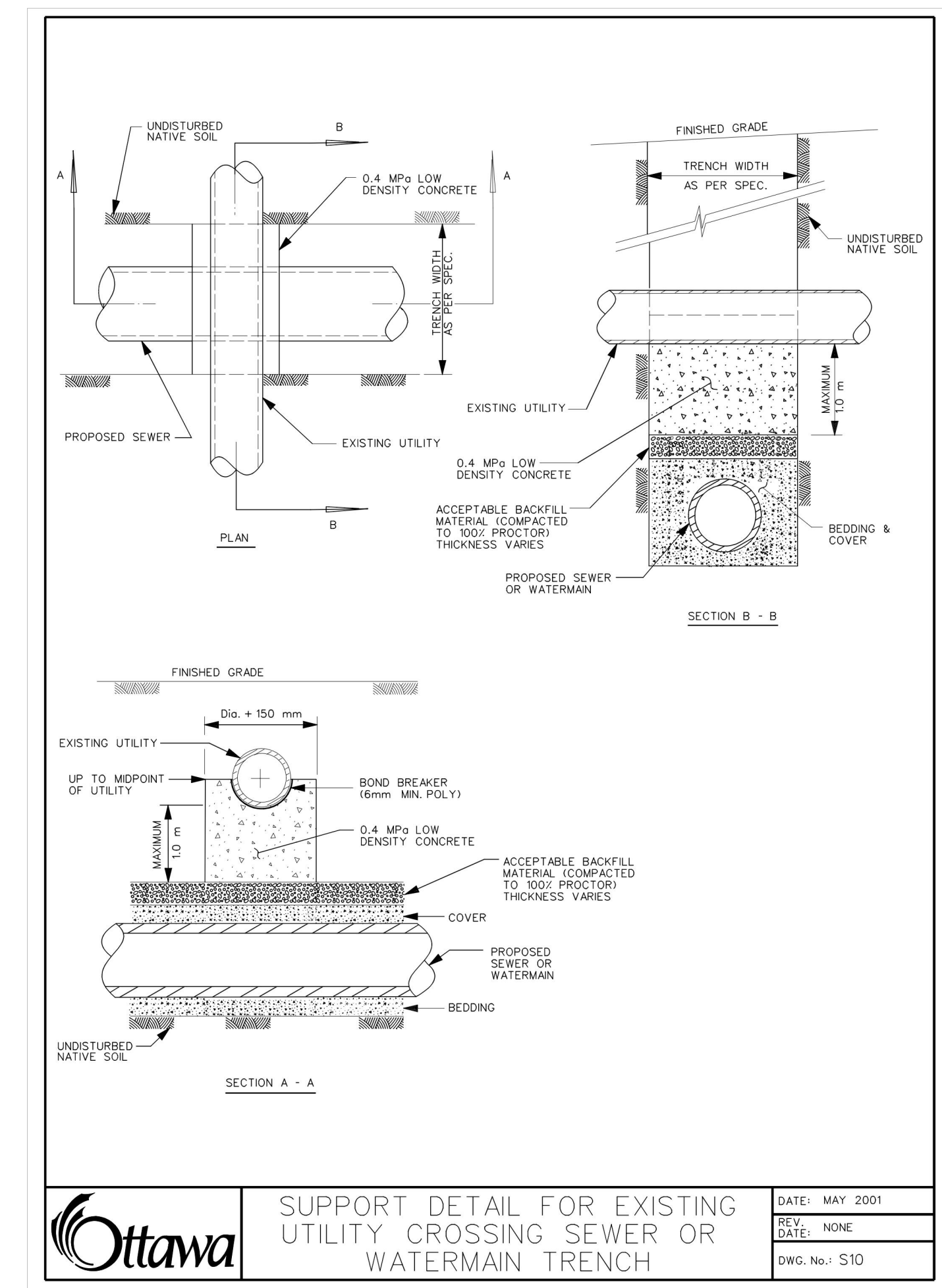
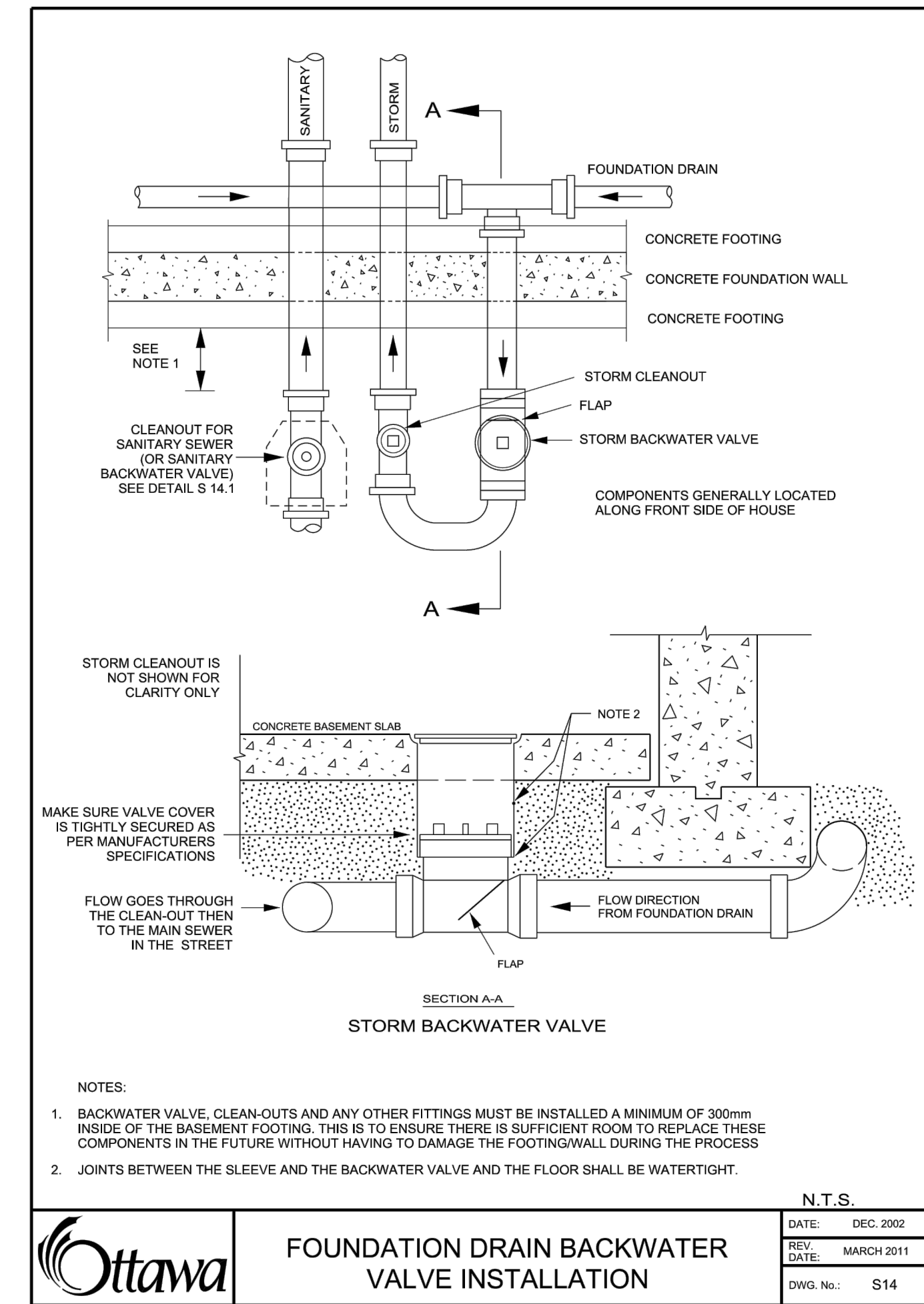
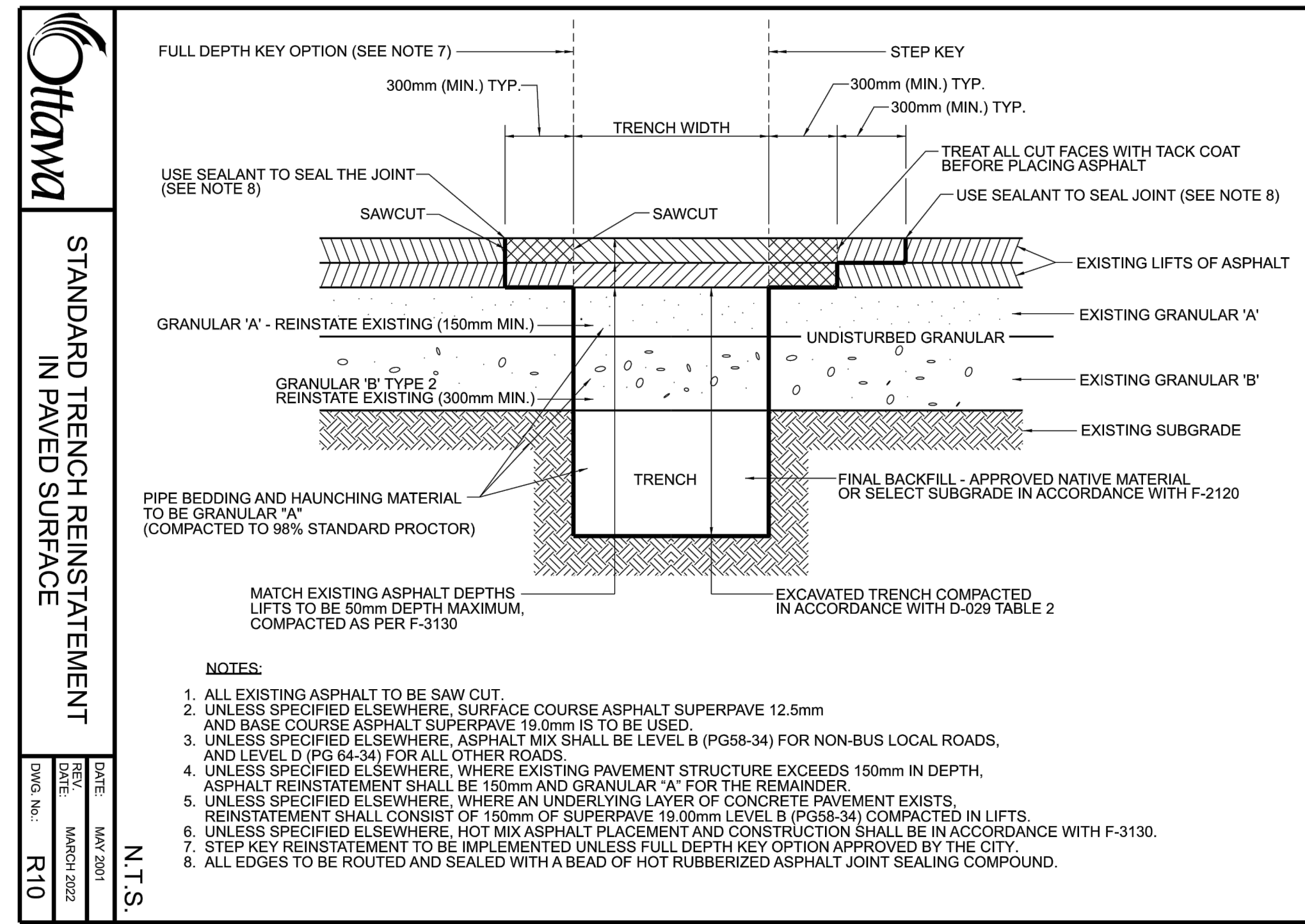
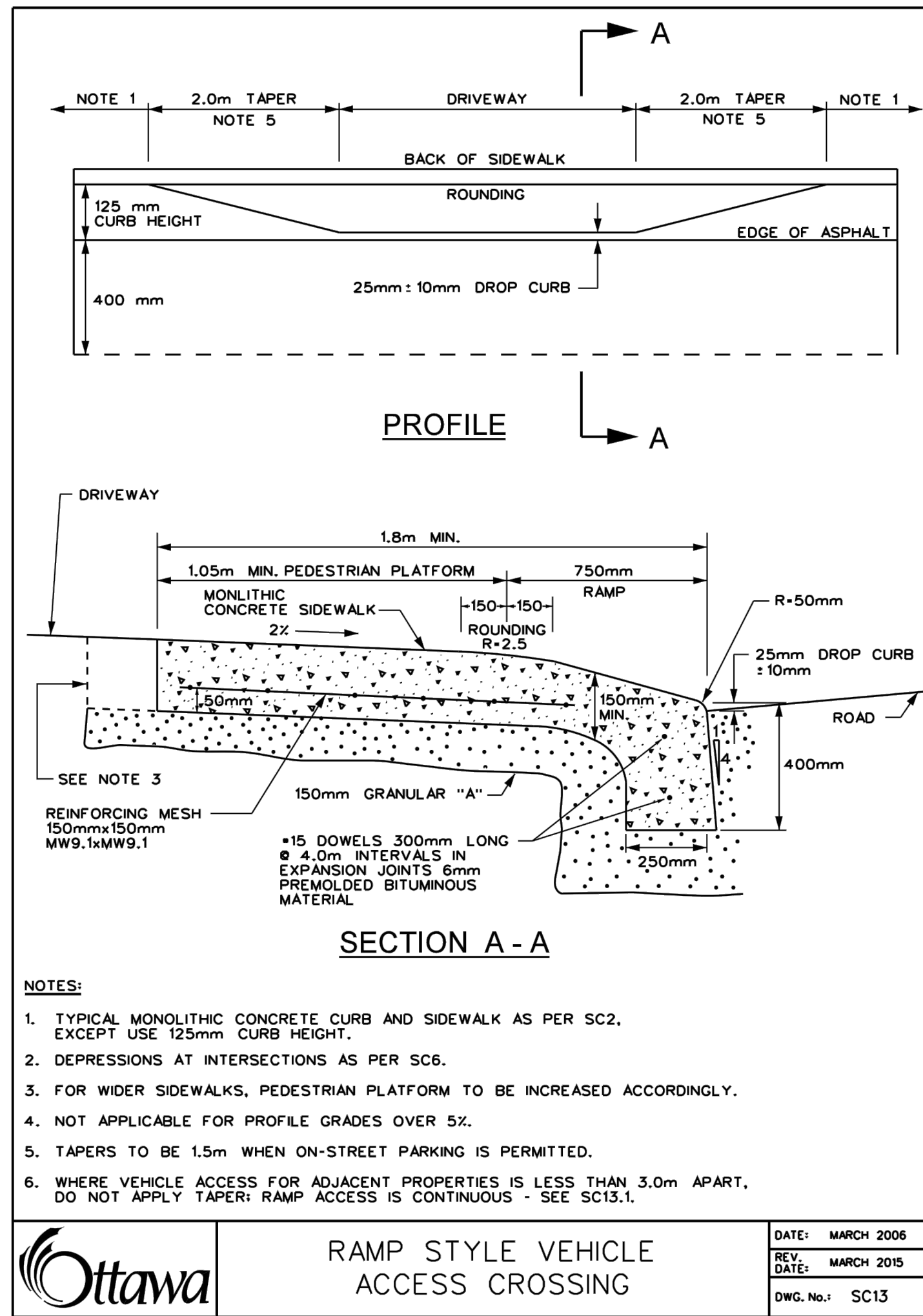
**BERTONE**

PROJECT NAME:  
**1649 MONTREAL ROAD  
 MONTREAL AND BLAIR**

**STORM WATER  
 MANAGEMENT PLAN**

DISCIPLINE: <b>CIVIL</b>	SCALE: 1:250
DRAWN BY: S.C. POGGIOLI	DATE: 22/08/31
DESIGNER: E. POTVIN	APPROVER: C.L. LABEL
PROJECT No: A001101	DRAWING No: <b>C007</b>





1	22/08/12	ISSUED FOR SITE PLAN CONTROL	E.P.
No.	Date	Description	By
STAMPS:			
DESIGNED BY:		APPROVED BY:	
<b>CIMA+</b>			
CLIENT:			
<b>BERTONE</b>			
PROJECT NAME:			
1649 MONTREAL ROAD MONTREAL AND BLAIR			
SHEET TITLE:			
DETAILS PLAN			
DISCIPLINE:			
CIVIL			
DESIGNER:	S.C. POGGIOLI	SCALE:	
DESIGNER:	E. POTVIN	DATE:	22/08/31
APPROVER:	E. POTVIN	APPROVER:	C.L. LABEL
PROJECT No:	A001101	DRAWING No.:	
SHEET No.:	9 of 13		





SIZE OF DROP PIPE		
SEWER ID	DROP PIPE ID	APPLICATION
200	200	Storm and Sanitary
250	200	Storm and Sanitary
300	250	Storm and Sanitary
375	300	Storm and Sanitary
450	375	Storm
525	450	Storm
600	525	Storm
675	600	Storm

**NOTES:**  
 1 Concrete shall be placed to undisturbed ground and the outside face of the maintenance hole, but there shall be a minimum of 150mm of 15MPa concrete around the drop pipe.  
 2 Concrete shall be secured to the maintenance hole with 450mm long, 13mm diameter threaded rods and drilled expansion anchors down either side of the drop pipe at 300mm centres.  
 A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2016 Rev 3  
**CAST-IN-PLACE MAINTENANCE HOLE DROP STRUCTURE TEE**  
 OPSD 1003.010

**NOTES:**  
 A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3  
**CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS**  
 OPSD 400.020

**NOTES:**  
 A Covers shall be Type A or Type B, as specified.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 4  
**CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES**  
 OPSD 401.010

**NOTES:**  
 1 The sump is measured from the lowest invert.  
 A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.  
 B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.  
 C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.  
 D Pipe support according to OPSD 708.020.  
 E For benching and pipe opening details, see OPSD 701.021.  
 F For adjustment unit and frame installation, see OPSD 704.010.  
 G All dimensions are nominal.  
 H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5  
**PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER**  
 OPSD 701.010

Maintenance Hole Diameter	No. 1-4			No. 5 and 6		No. 8		No. 7	
	Inlet	Hole	Outlet	Inlet	Hole	Inlet	Hole	Inlet	Outlet
1200	700	860	780	700	860	700	860	700	860
1500	860	1220	960	860	1170	860	1170	860	1170
1800	1220	1485	1220	1220	1485	1220	1485	1220	1485
2400	1485	2020	1760	1485	2020	1485	2020	1485	2020
3000	1930	2450	2300	1930	2450	1930	2450	1930	2450
3600	2470	3085	2730	2470	3085	2470	3085	2470	3085

**NOTES:**  
 1 Slopes shall be maintained from the outlet hole opening for top of benching.  
 A Concrete for benching shall be 30MPa.  
 B When benching is hand-finished, it shall be given wood float finish, channel shall be given steel trowel finish.  
 C Benching slope and height shall be as specified.  
 D When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe may be pre-benched at the manufacturer with standardized benching slope and channel orientation.  
 E All dimensions are nominal.  
 F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 4  
**MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES**  
 OPSD 701.021

**NOTES:**  
 1 If first step is in an adjustment unit, the adjustment unit shall be of the type manufactured with a step in place.  
 2 Centre reinforcing in adjustment unit ±10mm.  
 3 Round and square adjustment units are available in sizes of 50, 75, 100, 150, and 300mm.  
 A Adjustment units shall not extend beyond the outside edge of the structure.  
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 3  
**PRECAST CONCRETE ADJUSTMENT UNITS FOR MAINTENANCE HOLES, CATCH BASINS, AND VALVE CHAMBERS**  
 OPSD 704.010

1	22/08/12	ISSUED FOR SITE PLAN CONTROL	E.P.
No.	Date	Description	By

DESIGNED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_

ENGINEER: **CIMA+**

CLIENT: **BERTONE**

PROJECT NAME: **1649 MONTREAL ROAD MONTREAL AND BLAIR**

SHEET TITLE: **DETAILS PLAN**

DISCIPLINE: **CIVIL**

DRAWN BY: S.C. POGGIOLI SCALE: \_\_\_\_\_  
 DESIGNED BY: E. POTVIN DATE: 22/08/31  
 APPROVED BY: E. POTVIN APPROVER: C.L. LABEL  
 PROJECT No: A001101 DRAWING No: \_\_\_\_\_  
 SHEET No: 11 of 13

**C011**



