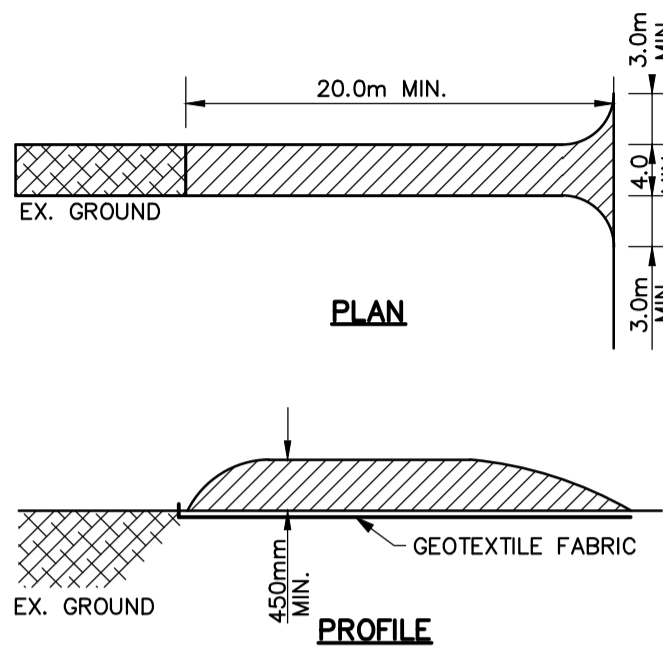


**GENERAL NOTES**

1. CONTRACTOR TO INSTALL AND MAINTAIN SILT FENCE AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR TO ARRANGE PRE-CONSTRUCTION MEETING WITH ENGINEER AFTER PLACING ALL SILTATION CONTROL WORKS.
3. SILTATION AND EROSION CONTROL WORKS MUST BE INSTALLED PRIOR TO CONSTRUCTION.
4. ALL SEDIMENT CONTROL WORKS MUST BE CLEANED AND MAINTAINED AFTER EACH MAJOR STORM EVENT OR AS DEEMED NECESSARY BY THE ENGINEER.
5. THE CONTRACTOR WILL INSPECT THE SEDIMENT AND EROSION CONTROL MEASURES WEEKLY AND AFTER EACH MAJOR STORM EVENT. THE CONTRACTOR WILL NOTIFY THE ENGINEER OF CORRECTIVE ACTIONS REQUIRED AS SOON AS DEFICIENCIES ARE NOTED. THE CONTRACTOR MAINTAINS ULTIMATE RESPONSIBILITY TO ENSURE PROPER SEDIMENT AND EROSION CONTROL MEASURES ARE IMPLEMENTED AND MAINTAINED. ALL DEFICIENCIES AND CORRECTIVE MEASURES WILL BE DOCUMENTED IN A WEEKLY INSPECTION REPORT. A COPY OF THE WEEKLY INSPECTION REPORT WILL BE PROVIDED TO THE ENGINEER.
6. IF CONSTRUCTION IS INTERRUPTED AND/OR INACTIVITY EXCEEDS 30 DAYS, THEN STOCKPILED, STRIPPED OR EXPOSED AREAS MUST BE STABILIZED BY HYDROSEEDING AND ANY OTHER APPROPRIATE GEOTEXTILE MATERIAL, IF REQUIRED.
7. REMOVAL OF ALL SILT FENCES AT THE END OF CONSTRUCTION TO BE APPROVED BY THE ENGINEER AFTER THE SITE HAS STABILIZED.
8. SILT FENCE TO OPSD 219.130.
9. CLEARING OF VEGETATION AND TREE COVER IS TO OCCUR OUTSIDE OF BIRD BREEDING SEASON AS RECOMMENDED BY ENVIRONMENT CANADA (APRIL 15 - AUGUST 15)
10. ALL SIDE SLOPES 3:1 OR GREATER ARE TO BE STABILIZED IMMEDIATELY WITH HYDROSEED (USING A NATIVE SEED MIX) UNLESS OTHERWISE NOTED. USE OF AN EROSION CONTROL BLANKET SUCH AS TERRAFIX S-100 (OR APPROVED EQUAL) IS RECOMMENDED IF CONSTRUCTION OCCURS OUTSIDE OF THE GROWING SEASON.



STONE SIZE - THE STONE PAD SHALL BE A MIN. 450mm THICK. USE 50mm STONE OR RECLAIMED CONCRETE EQUIVALENT FOR FIRST 10m FROM ADJACENT ROAD & 150mm STONE. FOR REMAINDER OF STONE PAD.

LENGTH - AS REQUIRED BUT NOT LESS THAN 20m.

WIDTH - 4m MIN. BUT NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS, AND EGRESS OCCURS. GEOTEXTILE FABRIC (TERRAFIX 270R OR EQUAL) WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIRECTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.

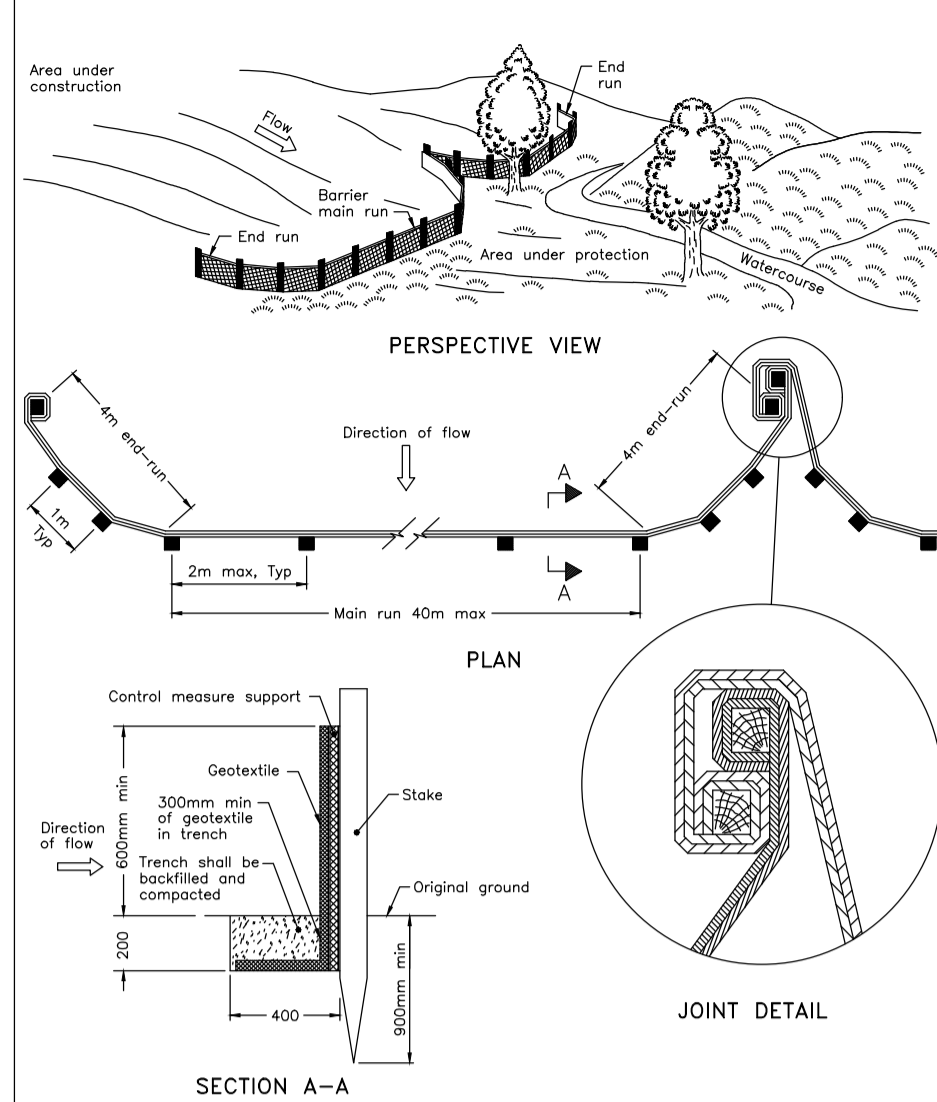
MAINTENANCE - THE CONTRACTOR SHALL MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR. UPON OBSERVATION OF CONTINUOUS MUD TRACKING ONTO ADJACENT STREETS, THE STONE MAT IS TO BE FULLY REPLACED.

WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

INSPECTION AND REQUIRED MAINTENANCE AFTER EACH RAIN SHALL BE PROVIDED BY THE CONTRACTOR.

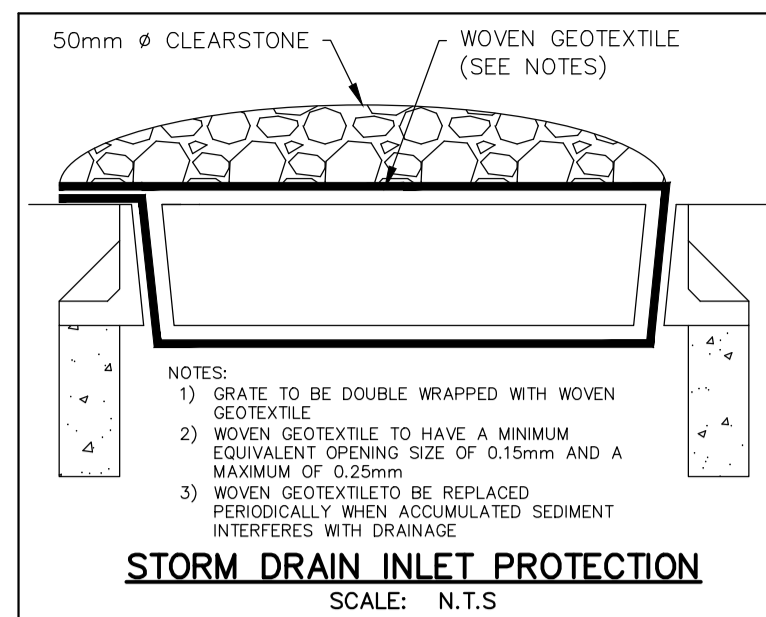
**STONE MUD MAT DETAIL**

SCALE: N.T.S.



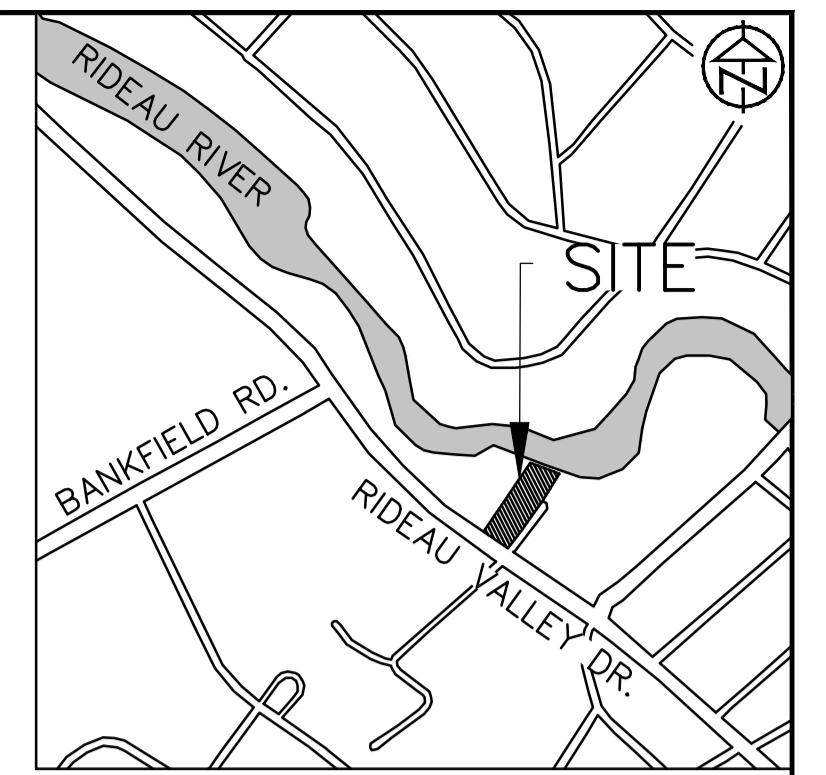
NOTE:  
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2	
HEAVY-DUTY SILT FENCE BARRIER			
		OPSD 219.130	

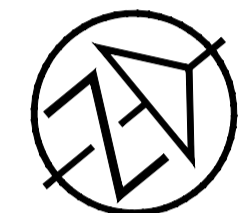
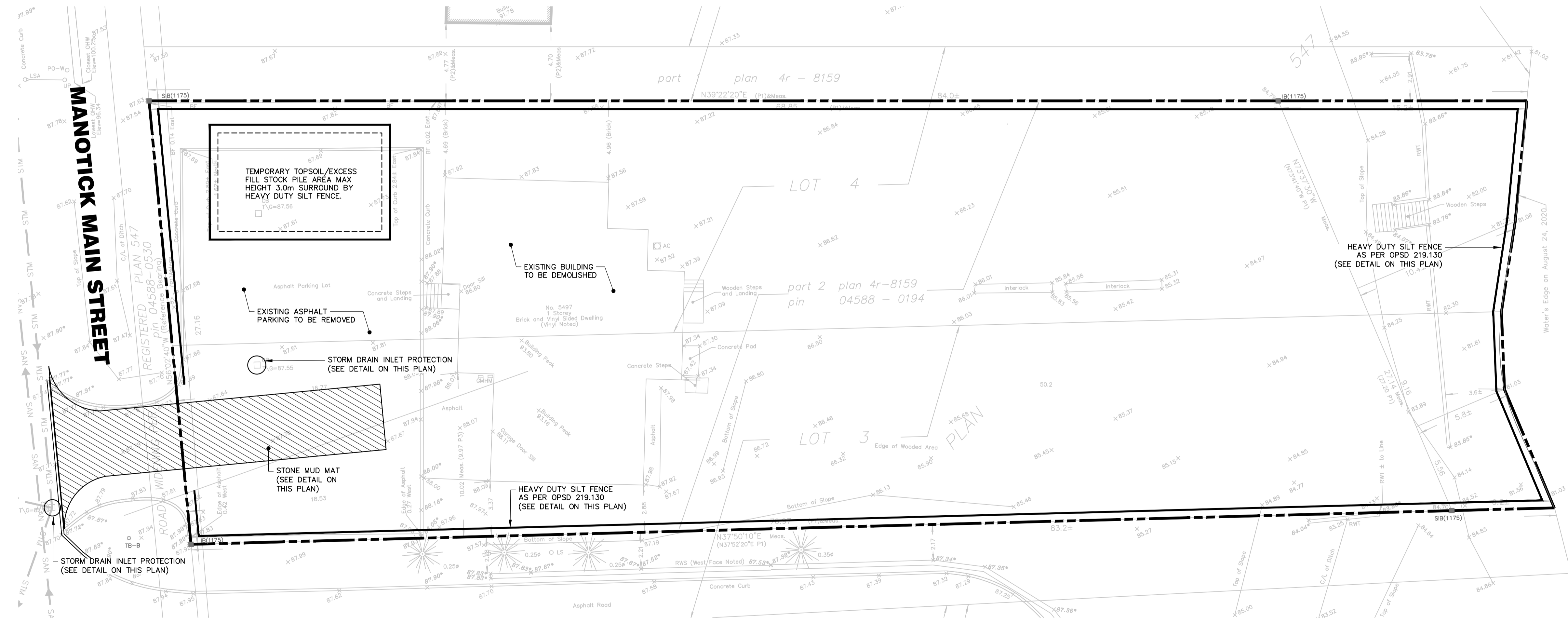


**STORM DRAIN INLET PROTECTION**

SCALE: N.T.S.



**KEY PLAN - N.T.S.**



RIDEAU RIVER (WEST CHANNEL)

**LEGEND**

--- PROPERTY BOUNDARY

**DISCLAIMER AND COPYRIGHT**

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**SURVEY**

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**TM:** TOP OF SPINDLE OF FIRE HYDRANT LOCATED ON SOUTH EAST OF THE SITE, ELEV. 88.50.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR SPA	JULY, 2023	

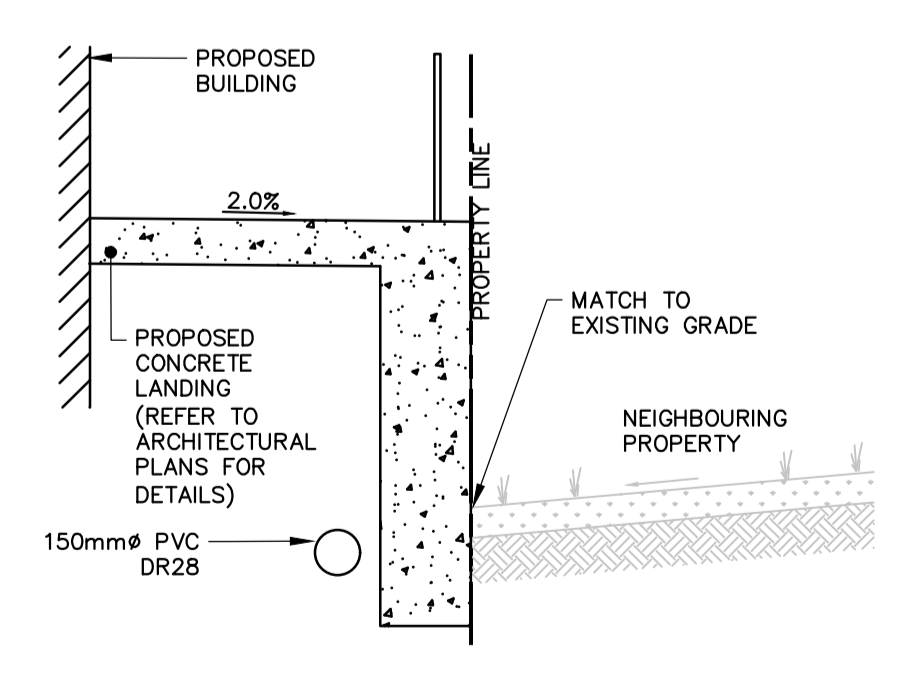
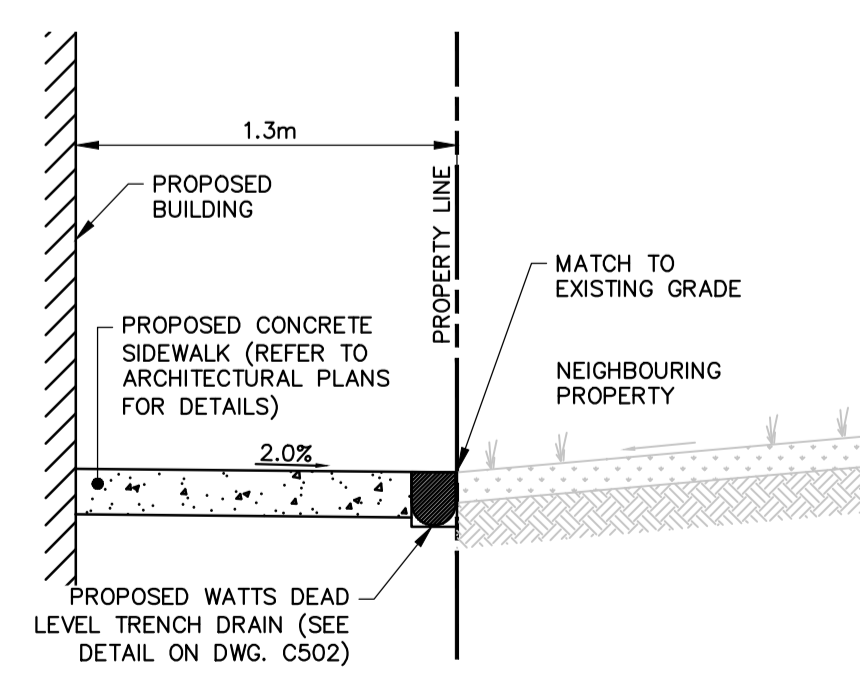
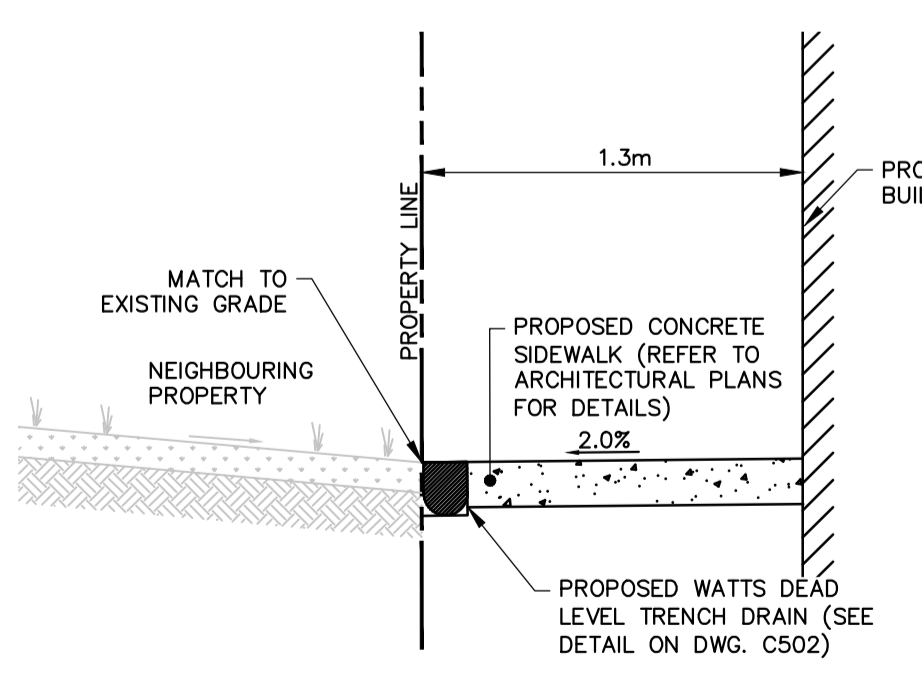
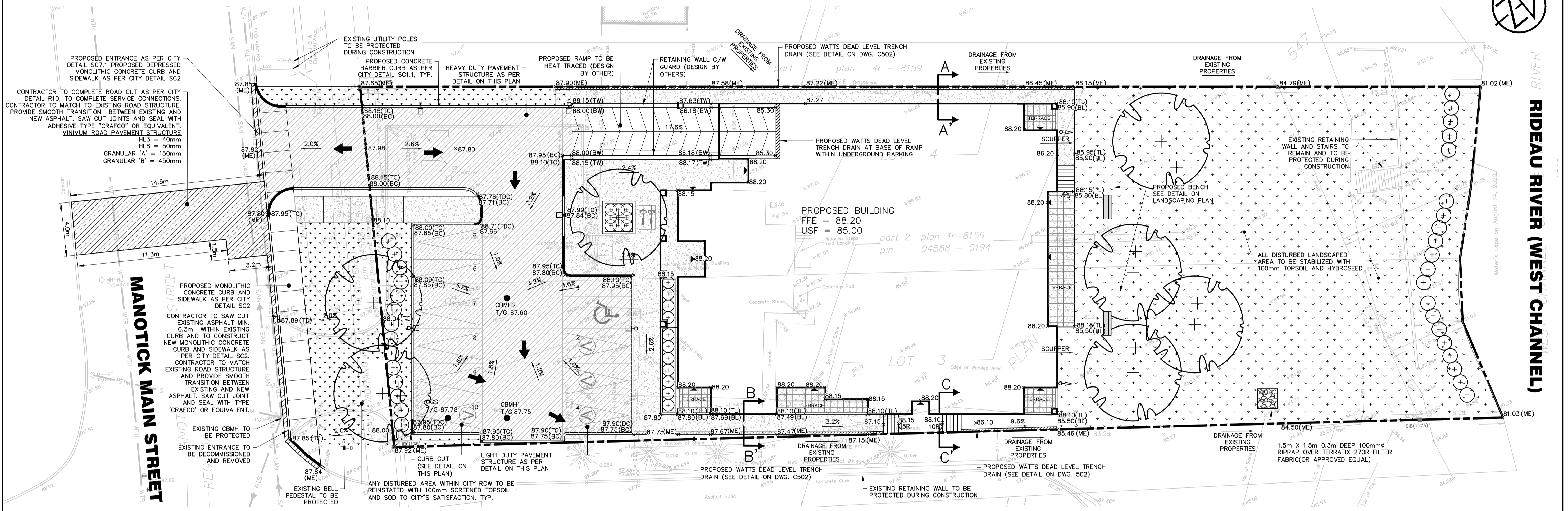
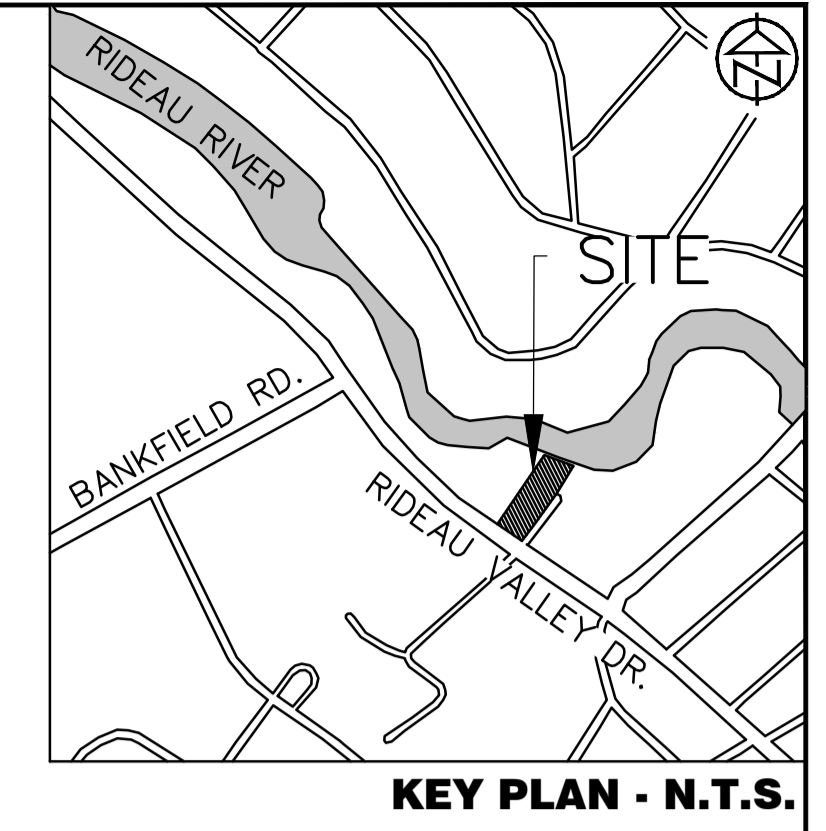
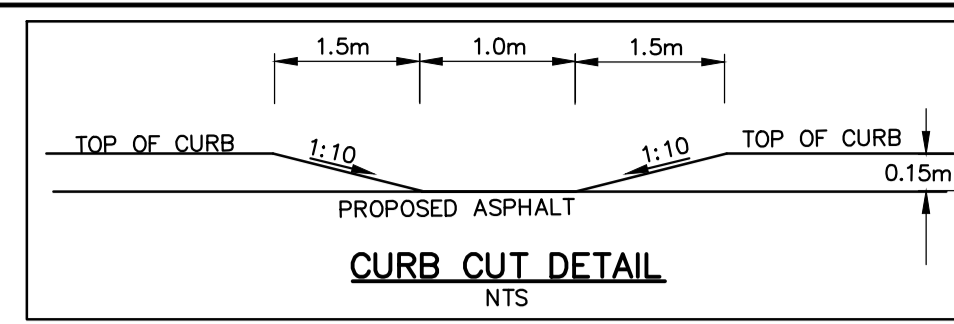
**5497 MANOTICK MAIN ST.  
CITY OF OTTAWA**

**SILTATION AND EROSION  
CONTROL PLAN**



DESIGN: HY	FILE: 522679	DWG:
DRAWN: HY	DATE: JULY 2023	<b>C100</b>
CHECK: GC	SCALE: 1:150	

PAVEMENT STRUCTURE			
Course	Compaction Requirement	Light Duty	Heavy Duty
Surface Course Asphalt	OPSS 310	50mm HL3	40mm HL3
Binder Course Asphalt	OPSS 310		50mm HL8
Granular Base	100% SPMDD(ASTM-D698)	150mm OPSS 1010 Granular A	150mm OPSS 1010 Granular A
Granular Subbase	100% SPMDD(ASTM-D698)	300mm OPSS 1010 Granular B Type II	450mm OPSS 1010 Granular B Type II



**LEGEND**

	× 262.25	PROPOSED ELEVATION
	× 262.25(ME)	MATCH EXISTING ELEVATION
	× 262.25(TC)	PROPOSED TOP OF CURB
	× 262.25(BC)	PROPOSED BOTTOM OF CURB
	× 262.25(BL)	PROPOSED BOTTOM OF LANDING
	× 262.25(DTC)	PROPOSED DEPRESSED TOP OF CURB
	× 262.25(TL)	PROPOSED TOP OF LANDING
	× 262.25(BL)	PROPOSED BOTTOM OF LANDING
	- - -	EXISTING CONTOUR
	---	PROPERTY BOUNDARY

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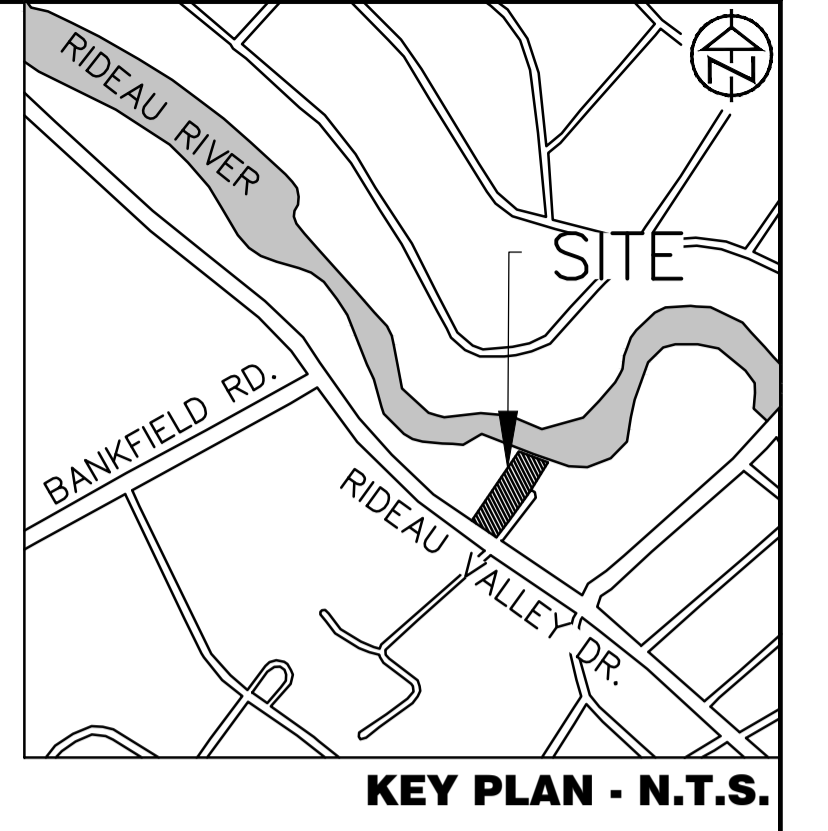
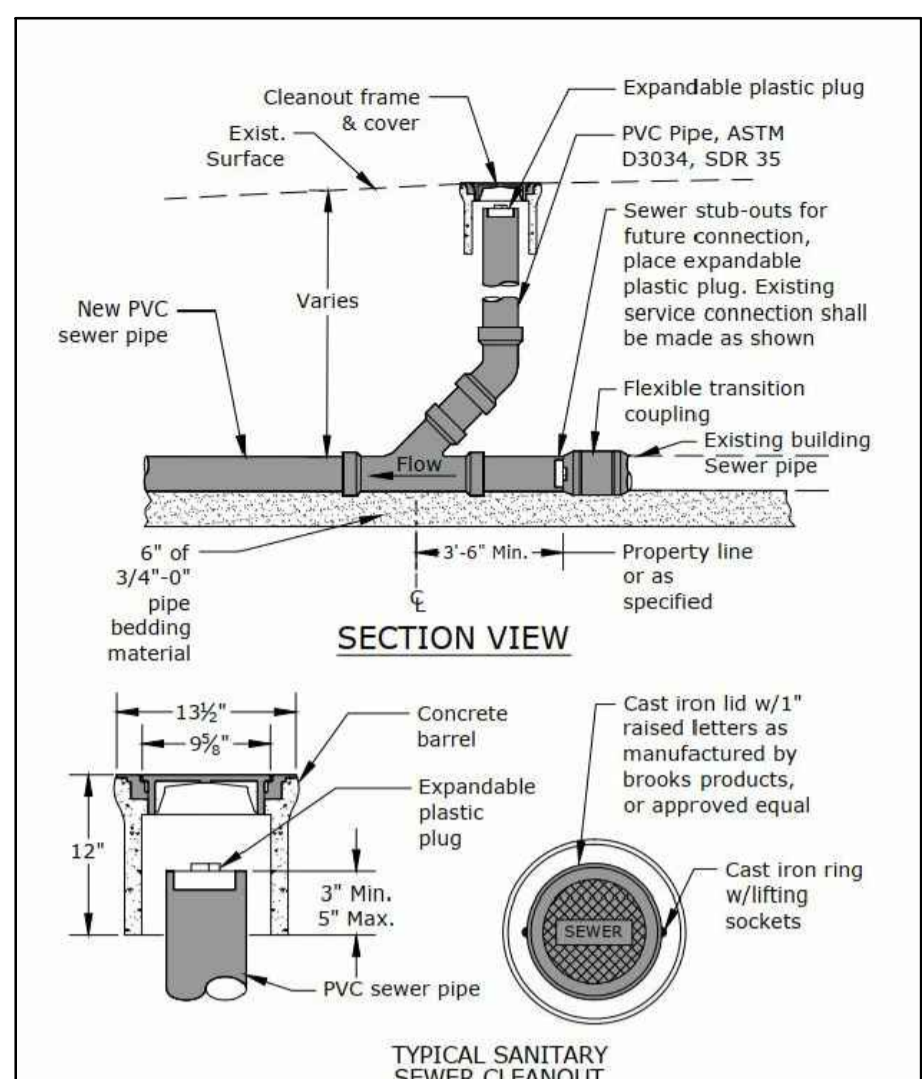
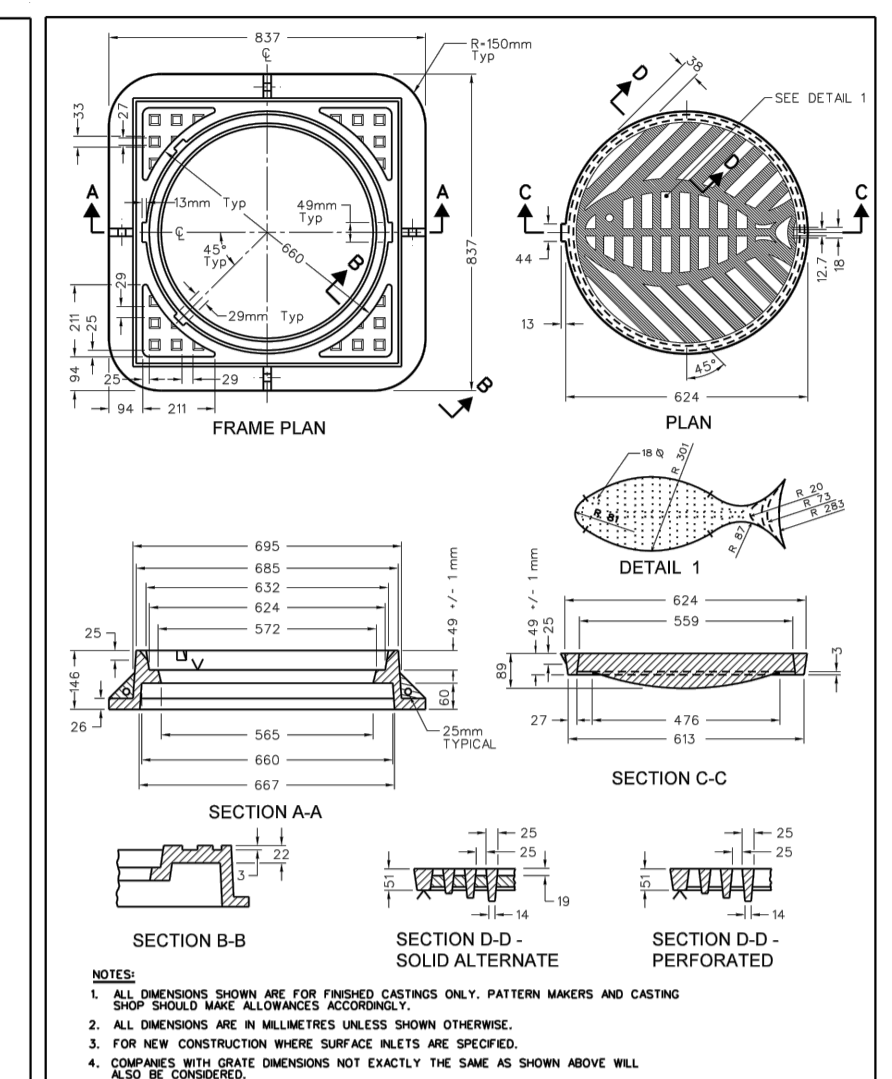
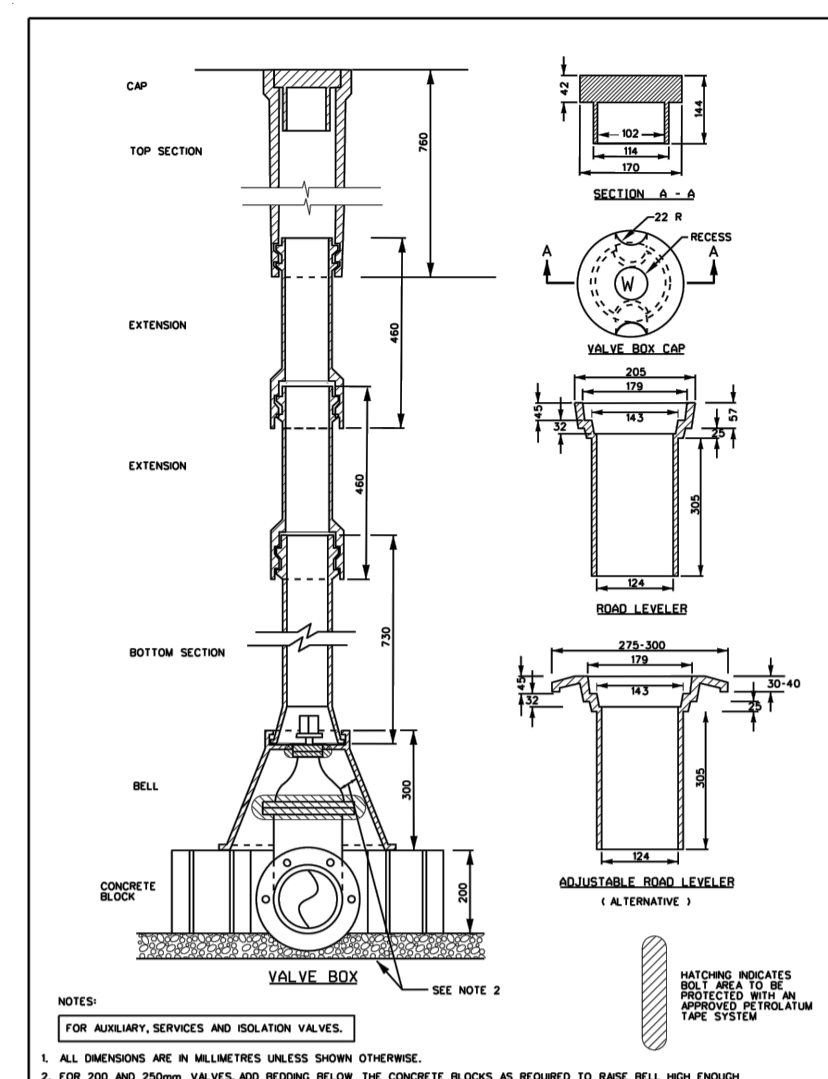
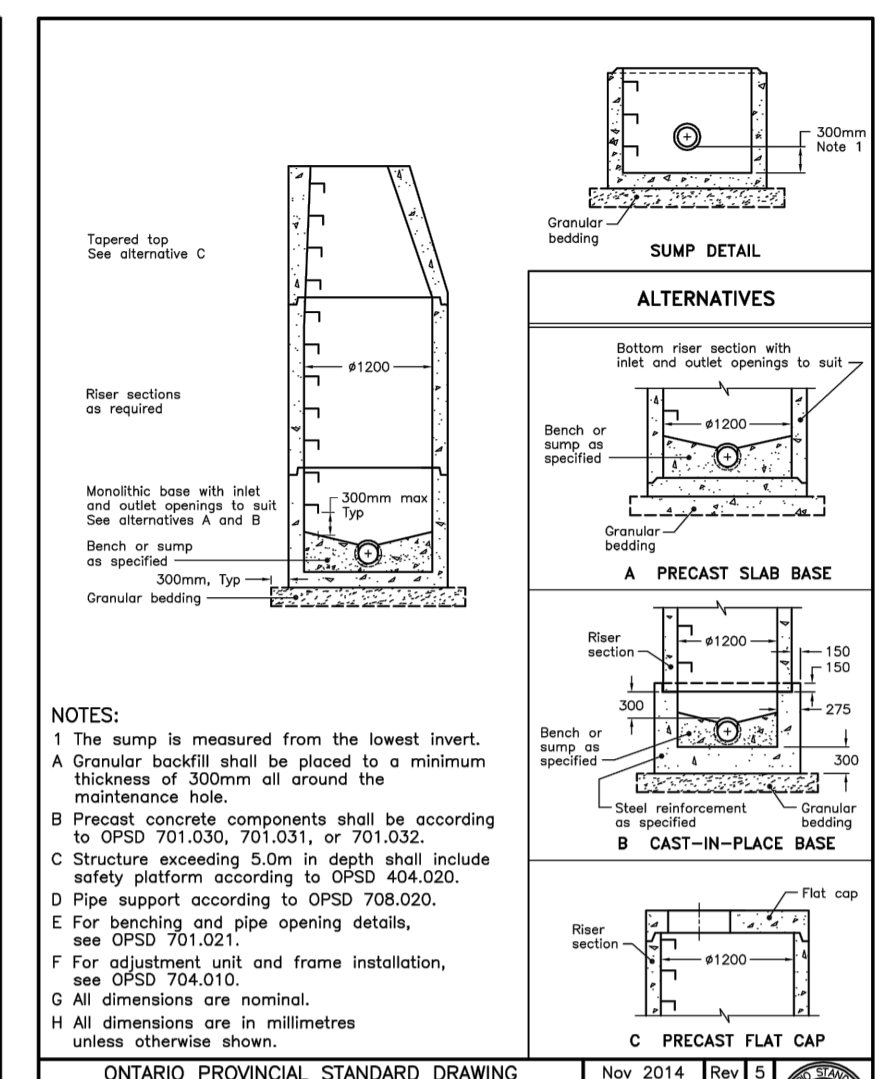
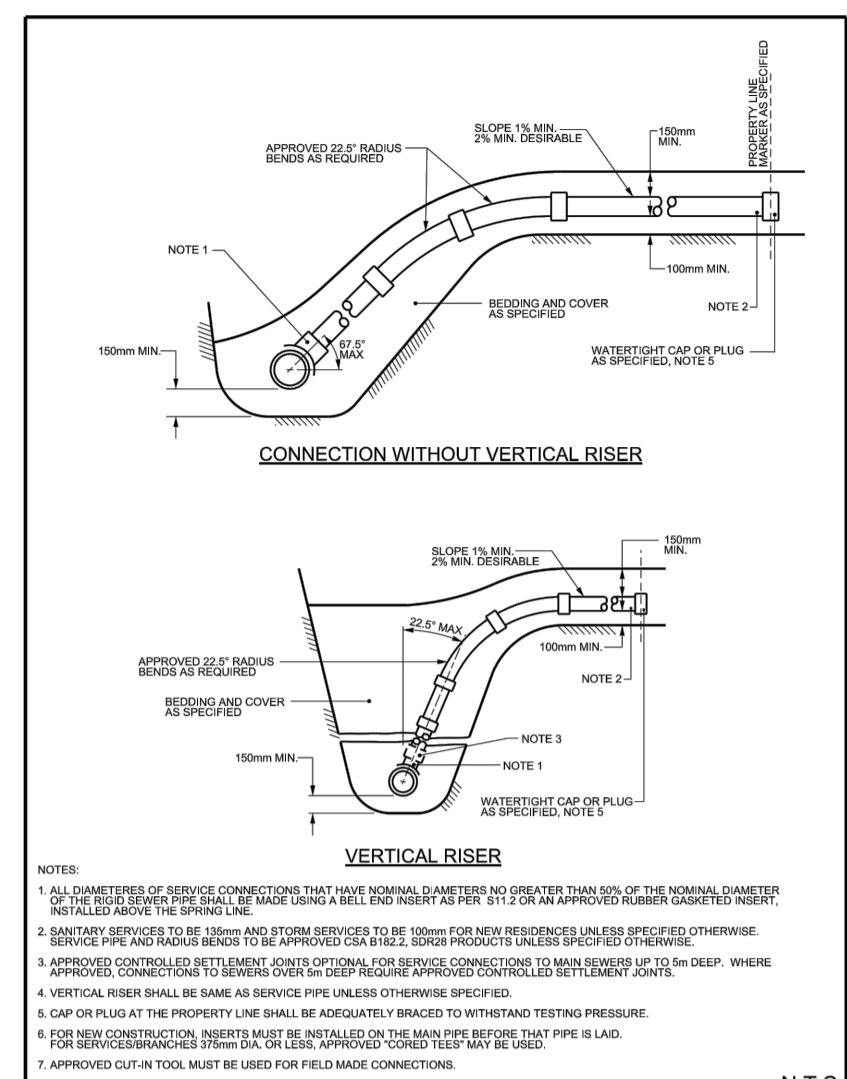
ENGINEER STAMP

**5497 MANOTICK MAIN ST.  
 CITY OF OTTAWA**

**SITE GRADING PLAN**

**TATHAM ENGINEERING**

DESIGN: HY	FILE: 522679	DWG: <b>C200</b>
DRAWN: HY	DATE: JULY 2023	
CHECK: GC	SCALE: 1:150	



**SEWER SERVICE CONNECTIONS FOR RIGID MAIN SEWER PIPE (MODIFIED OPSD-1006.010)**

DATE: MARCH 2008  
 DATE: MARCH 2014  
 DATE: MARCH 2017

NTS  
 S11

**ONTARIO PROVINCIAL STANDARD DRAWING PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER**

Nov 2014 [Rev] 5

OPSD 701.010

**VALVE BOX ASSEMBLY**

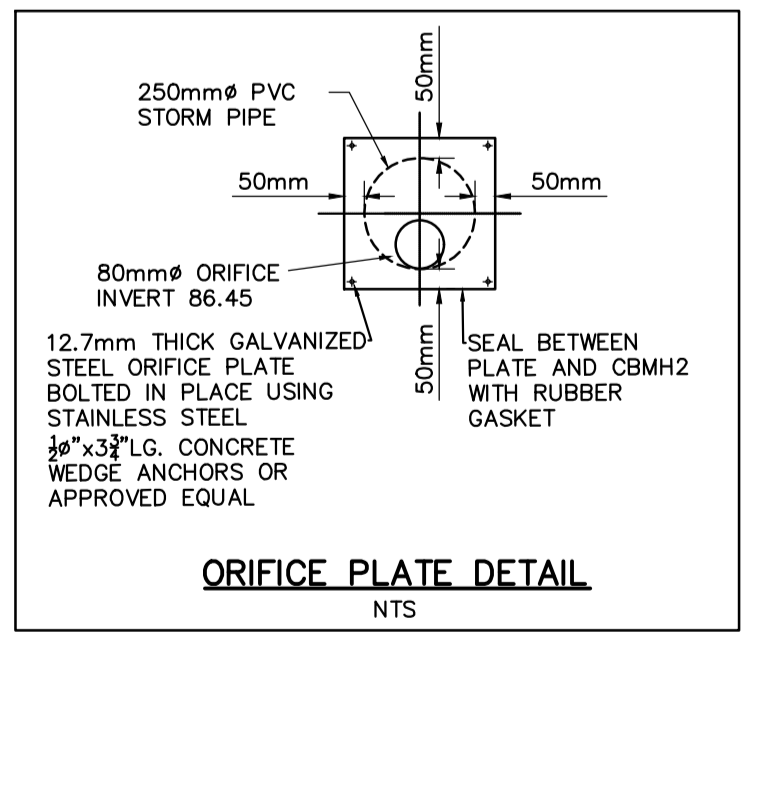
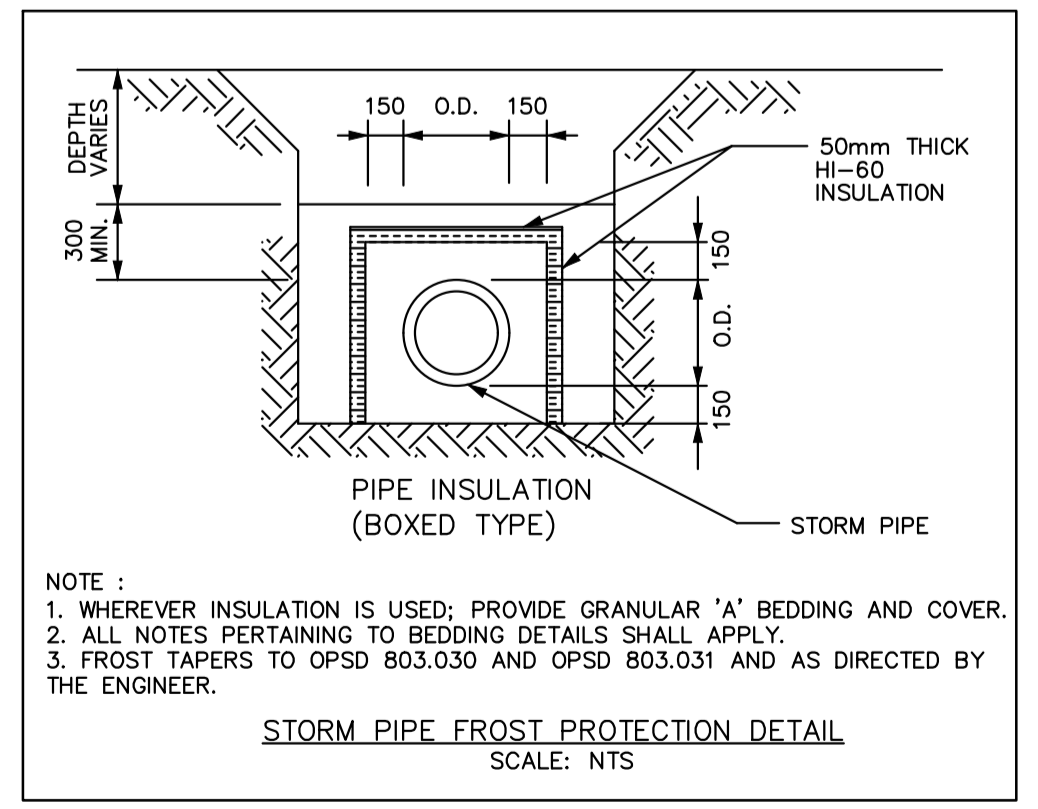
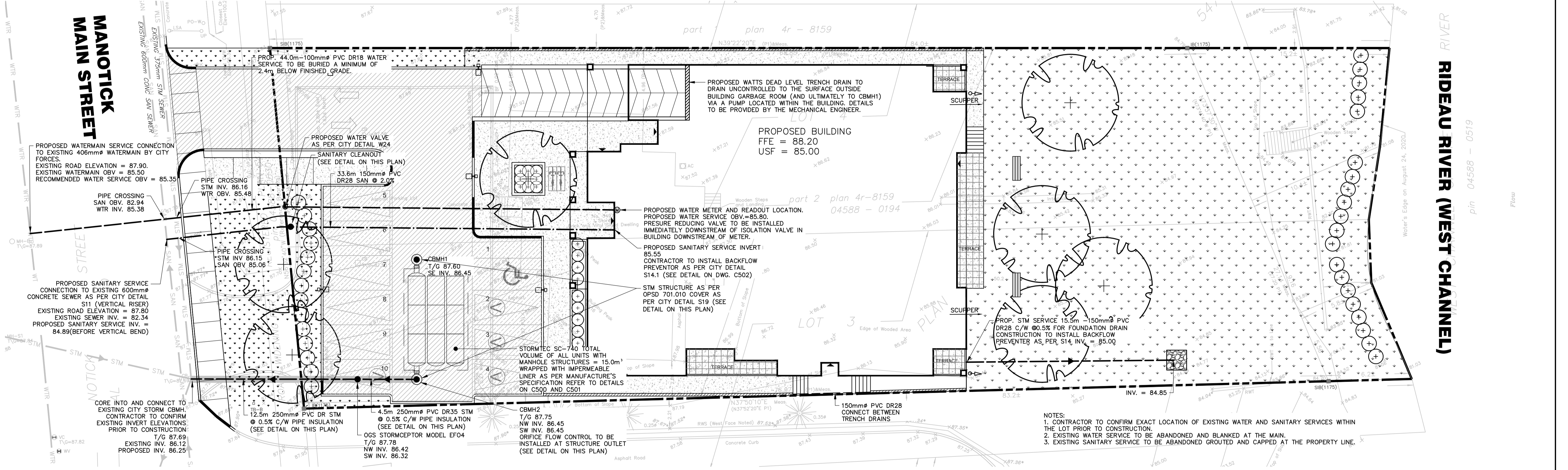
DATE: MAY 2000  
 DATE: MARCH 2008  
 DATE: 02/28

**HEAVY DUTY "FISH" TYPE ROUND CATCH BASIN COVER (MODIFIED OPSD-400.07)**

DATE: MAY 2000  
 DATE: MARCH 2008  
 DATE: 01/19

**TYPICAL SANITARY SEWER CLEANOUT (OUTSIDE TRAFFIC AREAS)**

DATE: MAY 2000  
 DATE: MARCH 2007  
 DATE: 01/19



**MANHOLE TABLE**

STORM		
MH Number	Size	Cover
CBMH1	1200mm	S19
CBMH2	1200mm	S19

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**5497 MANOTICK MAIN ST. CITY OF OTTAWA**

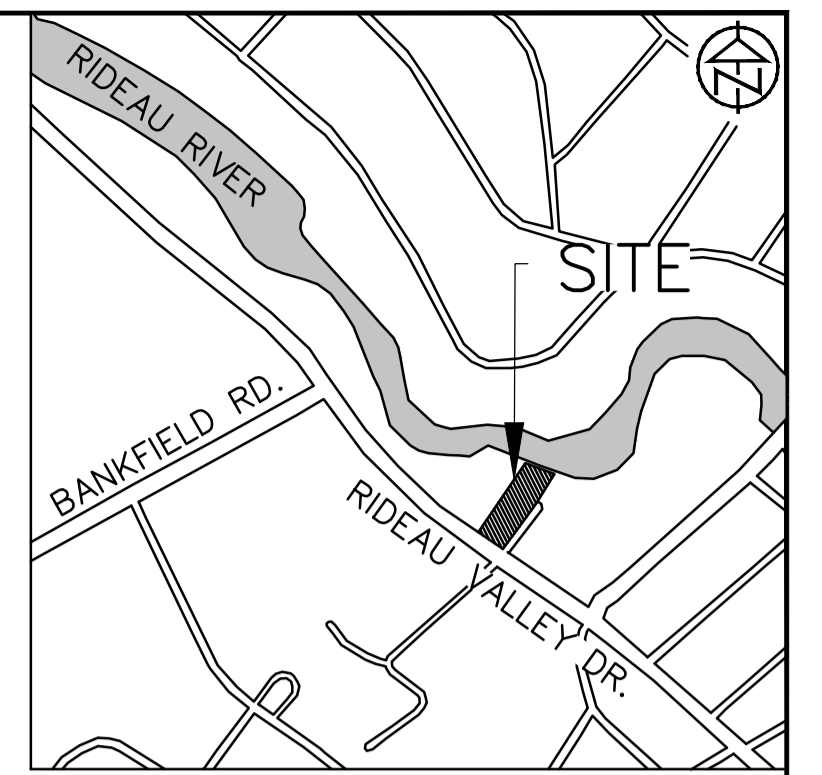
**SITE SERVICING PLAN**

**TATHAM ENGINEERING**

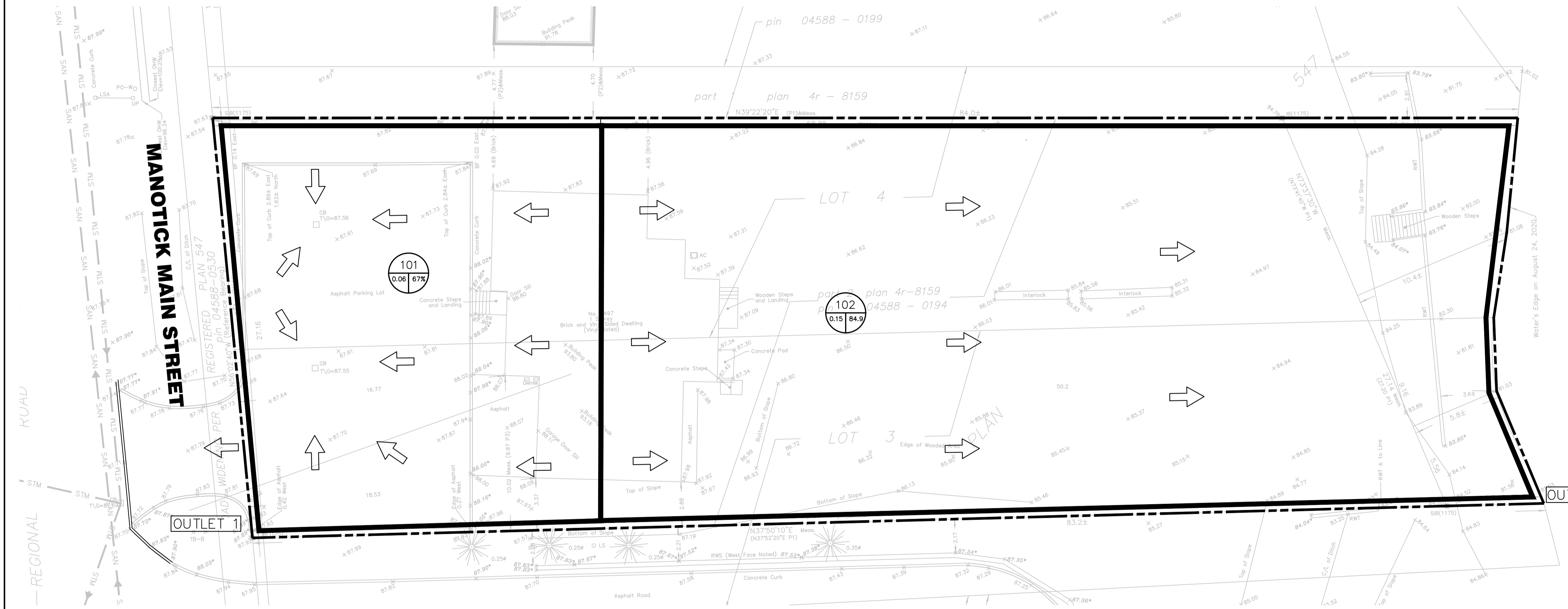
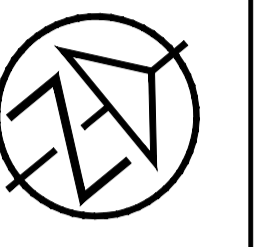
DESIGN: HY FILE: 522679 DWG: **C300**

DRAWN: HY DATE: JULY 2023

CHECK: GC SCALE: 1:150



KEY PLAN - N.T.S.



RIDEAU RIVER (WEST CHANNEL)

OUTLET 2

MANOTICK MAIN STREET

OUTLET 1

LEGEND

- SUBJECT PROPERTY BOUNDARY
- DRAINAGE AREA BOUNDARY
- EXISTING CONDITION DRAINAGE DIRECTION
- DRAINAGE AREA ID  
CN\* / % IMPERVIOUS  
AREA (ha.)

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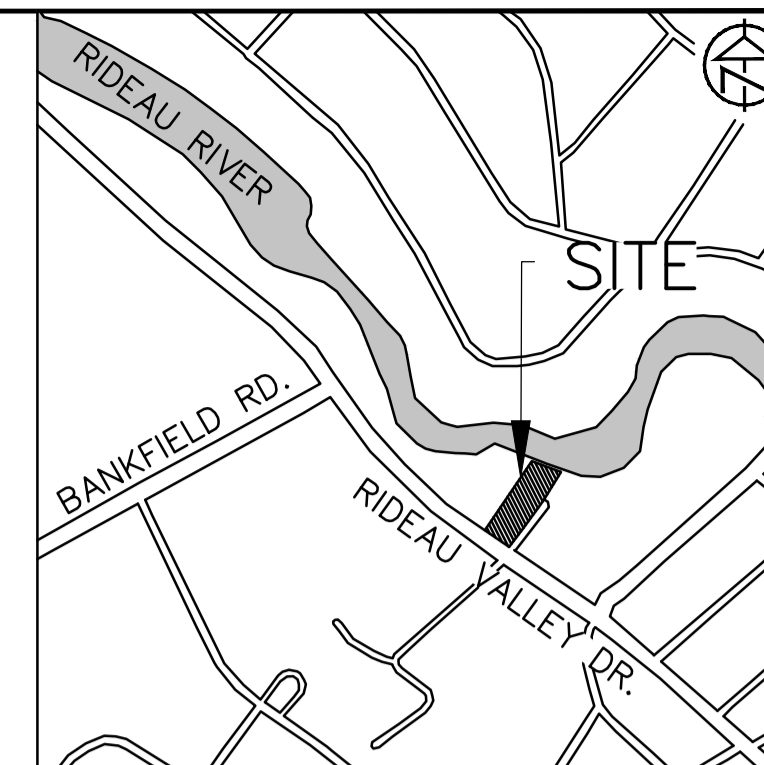
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR SPA	JULY, 2023	

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP

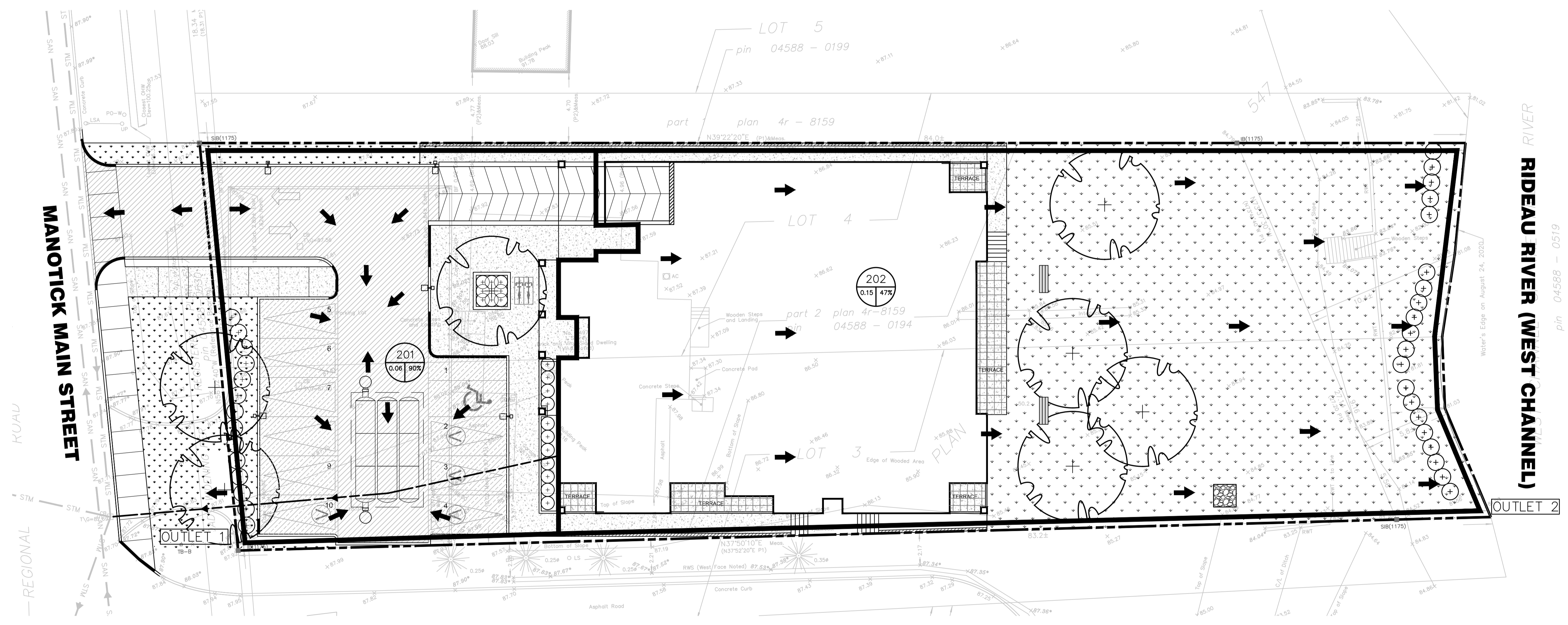
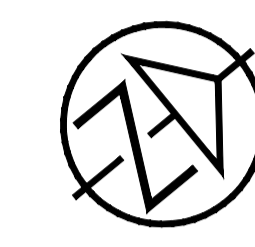
5497 MANOTICK MAIN ST.  
CITY OF OTTAWA

EXISTING CONDITION  
DRAINAGE PLAN

DESIGN: HY	FILE: 522679	DWG: C400
DRAWN: HY	DATE: JULY 2023	
CHECK: GC	SCALE: 1:150	



KEY PLAN - N.T.S.



RIDEAU RIVER (WEST CHANNEL)

OUTLET 2

**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- DRAINAGE AREA BOUNDARY
- PROPOSED CONDITION DRAINAGE DIRECTION
- DRAINAGE AREA ID  
% IMPERVIOUS  
AREA (ha.)

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1.	ISSUED FOR SPA	JULY, 2023	

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP

**5497 MANOTICK MAIN ST.  
CITY OF OTTAWA**

**PROPOSED CONDITION  
DRAINAGE PLAN**

DESIGN: HY	FILE: 522679	DWG: <b>C401</b>
DRAWN: HY	DATE: JULY 2023	
CHECK: GC	SCALE: 1:150	



### NYLOPLAST DRAIN BASIN

NTS

**NOTES**

- 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOCK DUAL WALL) & SDR 35 PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: [WWW.NYLOPLAST-US.COM](http://WWW.NYLOPLAST-US.COM)
- TO ORDER CALL: 800-821-6710

A	PART #	GRATE/SOLID COVER OPTIONS		
8"	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10"	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12"	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15"	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18"	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24"	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30"	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

4660 JARDINERIE BLVD  
OTTAWA, ONTARIO K1Y 4R7  
1-800-733-7473

**ADA**

**MANOTICK COPY**  
OTTAWA, ON, CANADA  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
PROJECT #: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
DESCRIPTION: \_\_\_\_\_  
DATE: \_\_\_\_\_

SHEET 5 OF 5

**SECTION VIEW**

**PLAN VIEW (STANDARD)**

**PLAN VIEW (INLET TOP)**

**GENERAL NOTES:**

- MAXIMUM SURFACE LOADING RATE (SLR) INTO LOWER CHAMBER THROUGH DROP PIPE IS 1155 L/min/m<sup>2</sup> (27.8 gpm/m<sup>2</sup>) FOR STORMCEPTOR EFO4 AND 535 L/min/m<sup>2</sup> (13.1 gpm/m<sup>2</sup>) FOR STORMCEPTOR EFO4 (OIL CAPTURE CONFIGURATION). WEIR HEIGHT IS 150 mm (6 INCH) FOR EFO4.
- ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED.
- STORMCEPTOR STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE STORMCEPTOR SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.
- DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEERS SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.
- NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

**INSTALLATION NOTES:**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.
- DEVICE ACTIVATION, BY CONTRACTOR, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE STORMCEPTOR UNIT IS CLEAN AND FREE OF DEBRIS.

STANDARD DETAIL  
NOT FOR CONSTRUCTION

SITE SPECIFIC DATA REQUIREMENTS				
STORMCEPTOR MODEL	EFO4			
STRUCTURE ID	*			
HYDROCARBON STORAGE REQ'D (L)	*			
WATER QUALITY FLOW RATE (L/s)	*			
PEAK FLOW RATE (L/s)	*			
RETURN PERIOD OF PEAK FLOW (yrs)	*			
DRAINAGE AREA (HA)	*			
DRAINAGE AREA IMPERVIOUSNESS (%)	*			
PIPE DATA:	I.E.	MATL	DIA	SLOPE %
INLET #1	*	*	*	*
INLET #2	*	*	*	*
OUTLET	*	*	*	*

\* PER ENGINEER OF RECORD

4660 JARDINERIE BLVD  
OTTAWA, ONTARIO K1Y 4R7  
1-800-733-7473

**imbrum**

**Stormceptor® EF**

SCALE: NTS

DATE: \_\_\_\_\_

PROJECT NO.: \_\_\_\_\_

ENGINEER NO.: \_\_\_\_\_

PRODUCT NO.: EFO4

SHEET: 1 of 1

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**TRM:** TOP OF SPINDLE OF FIRE HYDRANT LOCATED ON SOUTH EAST OF THE SITE, ELEV. 88.50.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR SPA	JULY, 2023	

**5497 MANOTICK MAIN ST.  
CITY OF OTTAWA**

DETAILS

DESIGN: HY

DRAWN: HY

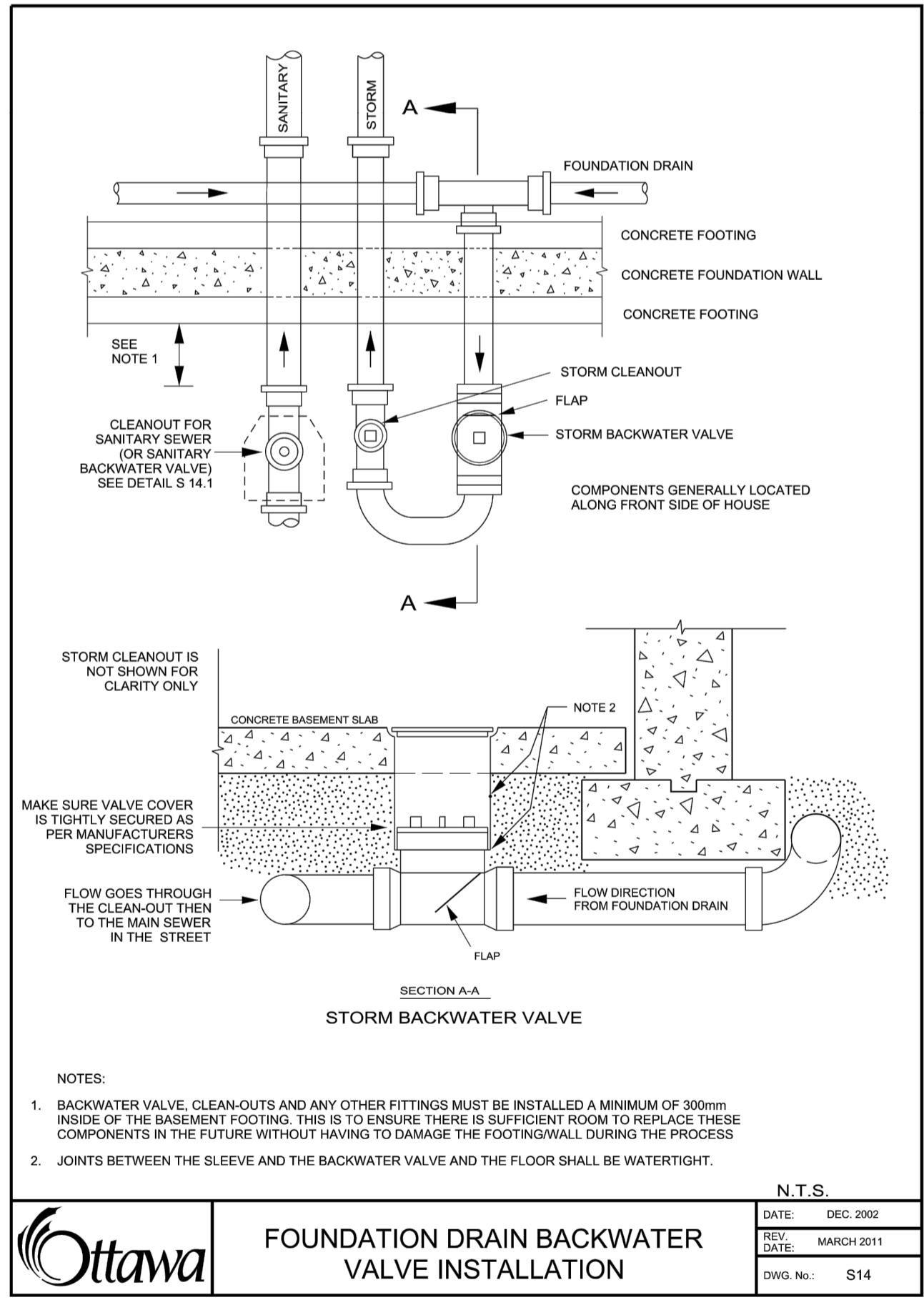
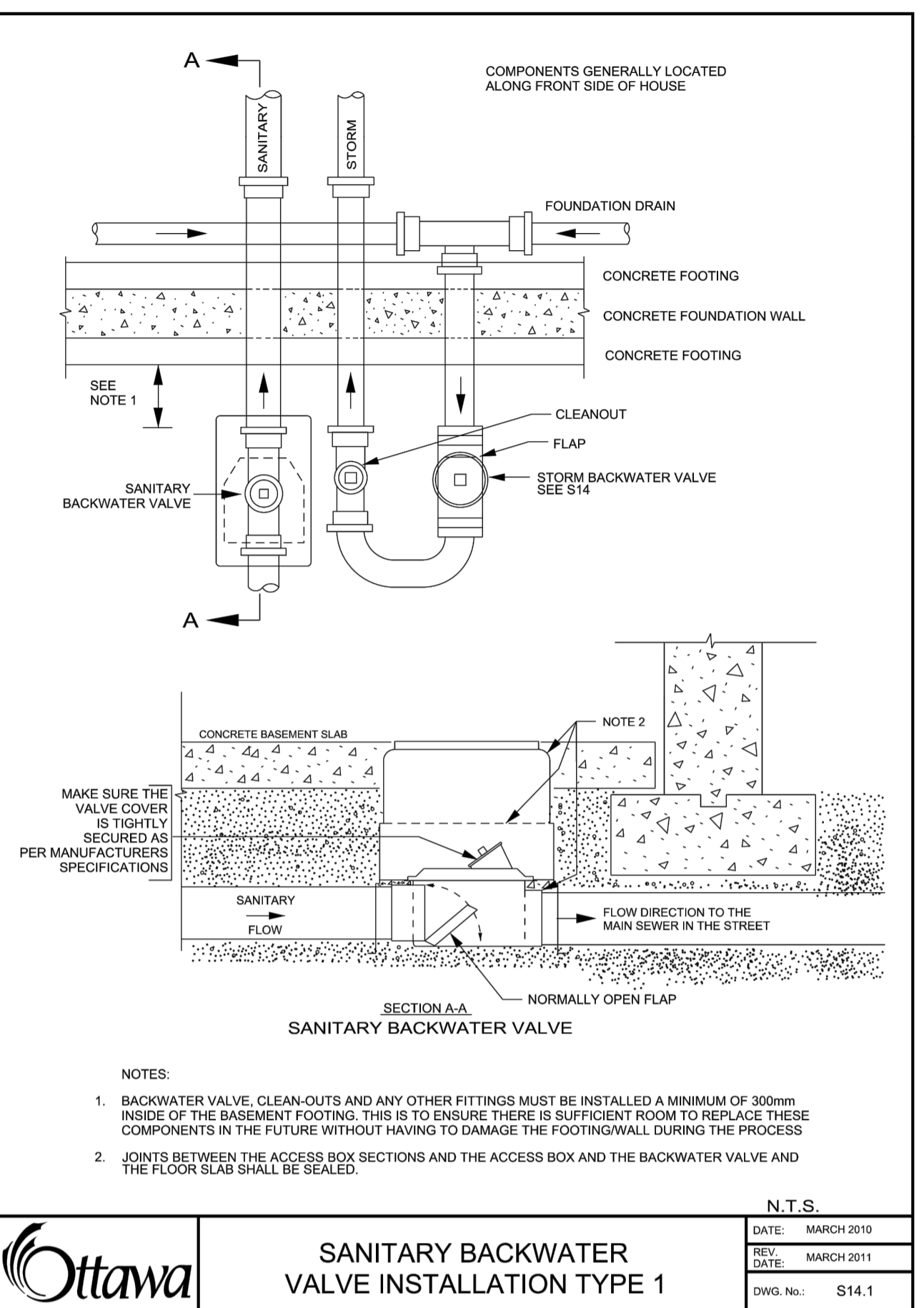
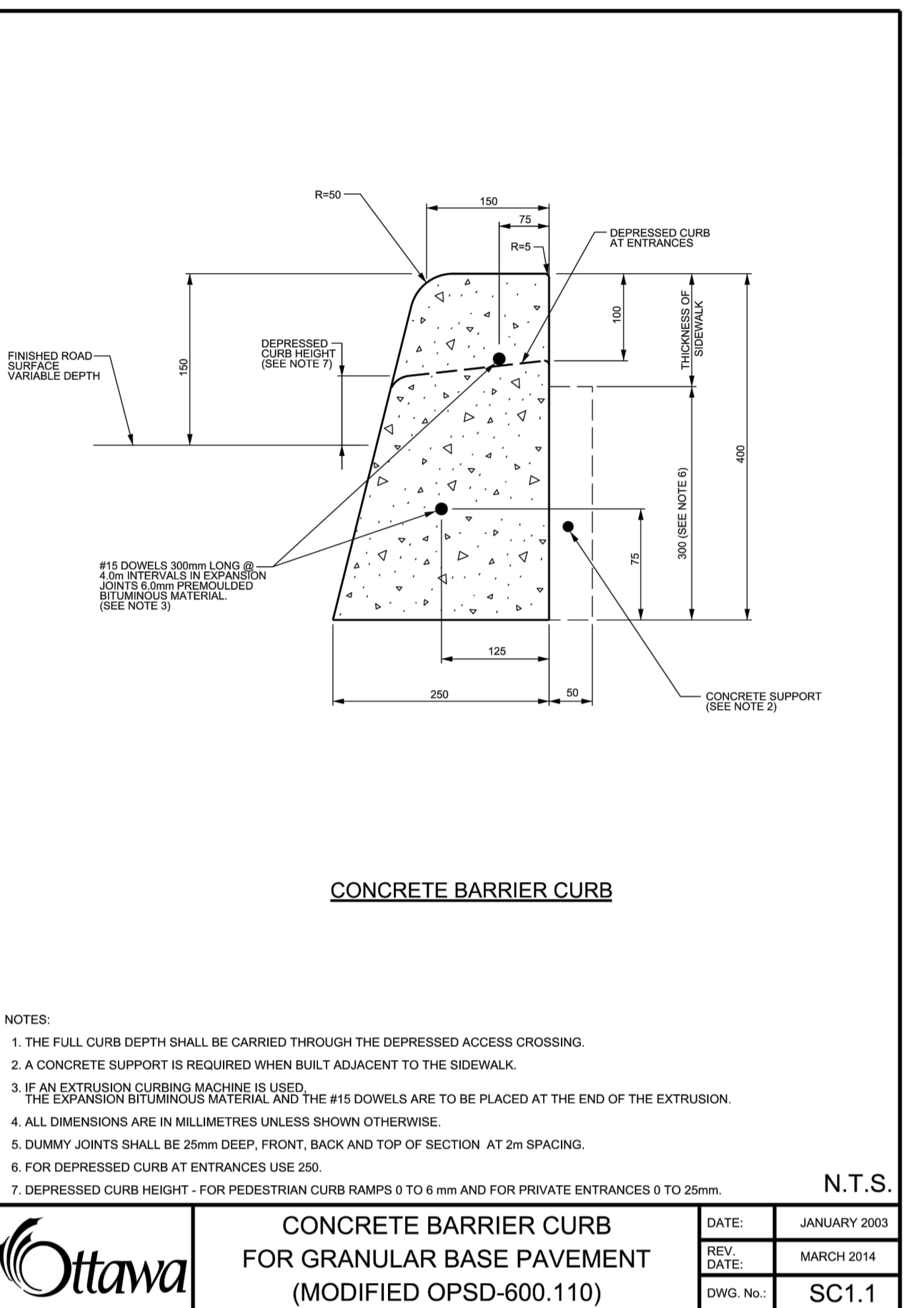
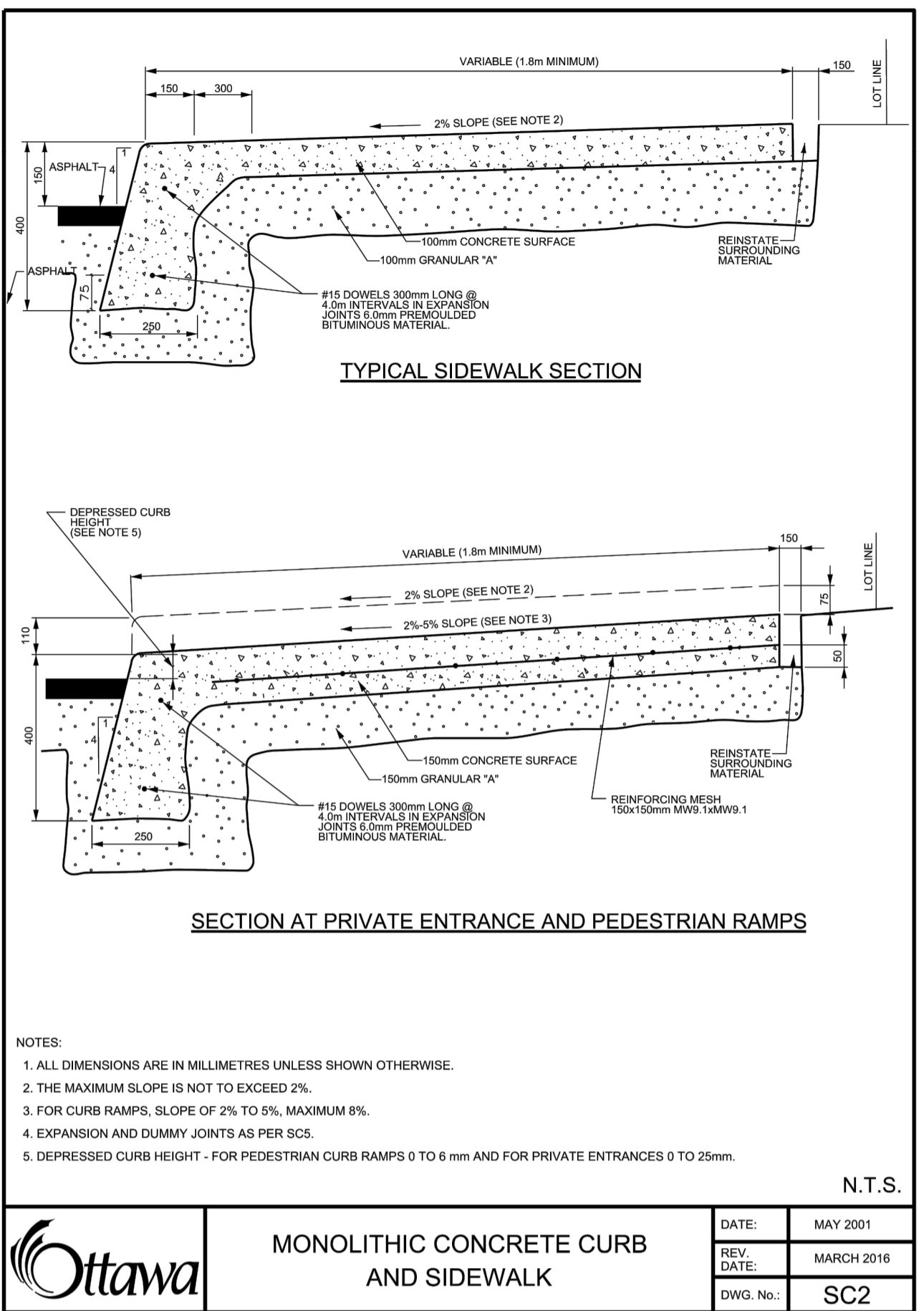
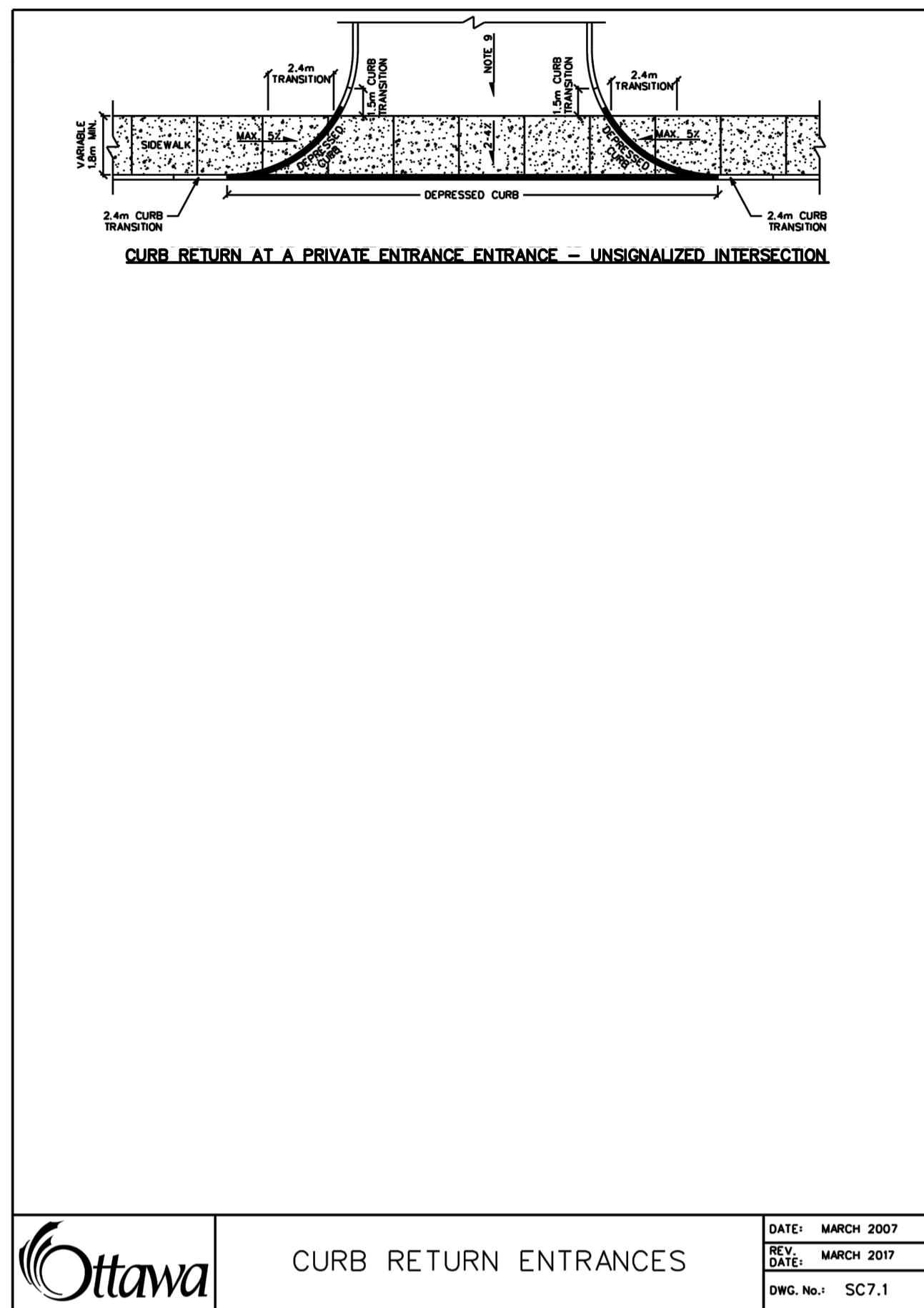
CHECK: GC

FILE: 522679

DATE: JULY 2023

SCALE:

DWG: **C501**



**Engineering Specification**

Job Name: \_\_\_\_\_ Contractor: \_\_\_\_\_  
Job Location: \_\_\_\_\_ Approval: \_\_\_\_\_  
Engineer: \_\_\_\_\_ Contractor's P.O. No.: \_\_\_\_\_  
Approval: \_\_\_\_\_ Representative: \_\_\_\_\_  
Tag: \_\_\_\_\_

**Dead Level® D Pre-Sloped Polypropylene Trench Drain System with Ductile Iron Frame**

**Specification**

Watts Dead Level® D Pre-Sloped Trench Drain System with 6" (152) wide x 48" (1219) long (standard) ductile iron frame, UV stabilized tico-filled polypropylene channels with integral 4" (102) no hub bottom or end outlets. System shall be frame-anchored, with (specify) grating to suit DIN Class connectors, grate lockdowns, and construction covers. Installation to be performed in accordance with manufacturer's installation instructions.

Suffix	Description	Options
SR	Stainless Steel Struckout	Class I <input type="checkbox"/>
SR1	Decorative Bronze	Class II <input type="checkbox"/>
DI	Ductile Iron	Class III <input type="checkbox"/>
DI-ADA	Ductile Iron ADA	Class IV <input type="checkbox"/>
SD	Galvanized Ductile Iron	Class V <input type="checkbox"/>
PP	Polypropylene	Class VI <input type="checkbox"/>
RP	Reinforced Polypropylene	Class VII <input type="checkbox"/>
GP	Galvanized Perforated	Class VIII <input type="checkbox"/>
SP	Stainless Steel Perforated	Class IX <input type="checkbox"/>
SS	Stainless Steel Slotted	Class X <input type="checkbox"/>
RSP	Reinforced Stainless Steel Perforated	Class XI <input type="checkbox"/>
RSS	Reinforced Stainless Steel Slotted	Class XII <input type="checkbox"/>
SC	Solid Cast Iron	Class XIII <input type="checkbox"/>

Please refer to watts.com for BAA information on specific models.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

**WATTS**

ES-WD-DeadLevel-D 2108

**Dead Level® D Dimensional Data**

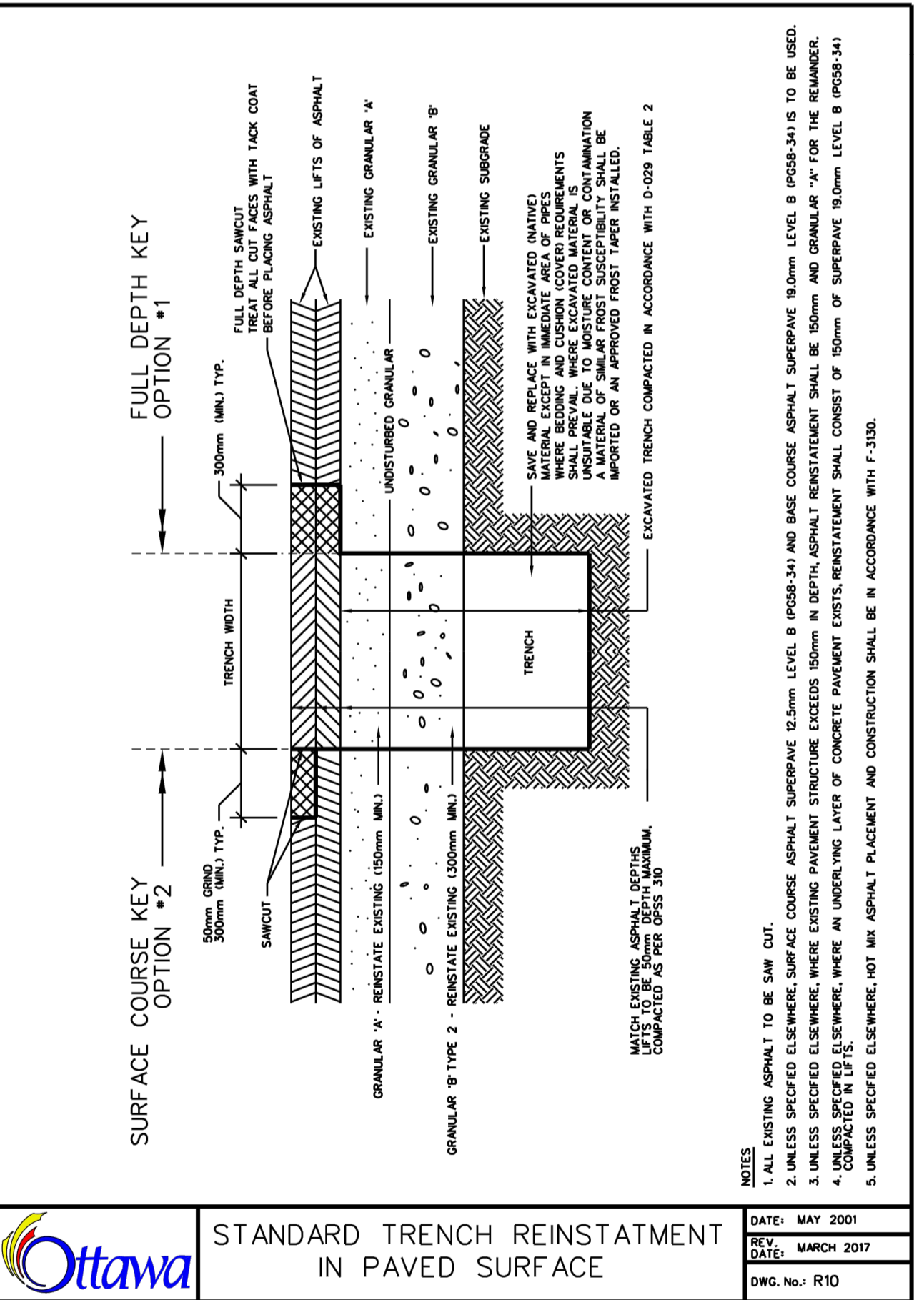
Part #	Configuration	Length	Weight (lbs.)	Dim. A	Dim. B
DI-AA-N48	Neutral	48" (1219)	31	5-5/8" (143)	5-5/8" (143)
DI-A	Sloped	48" (1219)	31	5-5/8" (143)	5-15/16" (151)
DI-2A	Sloped	48" (1219)	38	5-15/16" (151)	5-1/4" (136)
DI-3A	Sloped	48" (1219)	40	6-1/4" (163)	6-3/8" (167)
DI-4A	Sloped	48" (1219)	43	6-9/16" (167)	6-7/8" (172)
DI-5A	Sloped	48" (1219)	45	6-7/8" (172)	7-3/16" (183)
DI-AB-N12	Neutral	12" (305)	9	7-3/16" (183)	7-3/16" (183)
DI-AB-N24	Neutral	24" (610)	18	7-3/16" (183)	7-3/16" (183)
DI-AB-N36	Neutral	36" (914)	26	7-3/16" (183)	7-3/16" (183)
DI-AB-N48	Neutral	48" (1219)	32	7-3/16" (183)	7-3/16" (183)
DI-B	Sloped	48" (1219)	32	7-3/16" (183)	7-1/2" (191)
DI-2B	Sloped	48" (1219)	39	7-1/2" (191)	7-13/16" (198)
DI-3B	Sloped	48" (1219)	41	7-13/16" (198)	8-1/8" (206)
DI-4B	Sloped	48" (1219)	44	8-1/8" (206)	8-7/16" (214)
DI-5B	Sloped	48" (1219)	46	8-7/16" (214)	8-3/4" (222)
DI-BC-N12	Neutral	12" (305)	9	8-3/4" (222)	8-3/4" (222)
DI-BC-N24	Neutral	24" (610)	18	8-3/4" (222)	8-3/4" (222)
DI-BC-N36	Neutral	36" (914)	26	8-3/4" (222)	8-3/4" (222)
DI-BC-N48	Neutral	48" (1219)	32	8-3/4" (222)	8-3/4" (222)
DI-C	Sloped	48" (1219)	33	8-3/4" (222)	8-1/16" (203)
DI-2C	Sloped	48" (1219)	40	9-1/16" (230)	8-3/8" (208)
DI-3C	Sloped	48" (1219)	42	9-3/8" (238)	8-1/16" (208)
DI-4C	Sloped	48" (1219)	45	9-1/16" (230)	10" (254)
DI-5C	Sloped	48" (1219)	47	10" (254)	10-5/16" (262)
DI-CD-N12	Neutral	12" (305)	9	10-5/16" (262)	10-5/16" (262)
DI-CD-N24	Neutral	24" (610)	18	10-5/16" (262)	10-5/16" (262)
DI-CD-N36	Neutral	36" (914)	26	10-5/16" (262)	10-5/16" (262)
DI-CD-N48	Neutral	48" (1219)	32	10-5/16" (262)	10-5/16" (262)
DI-D	Sloped	48" (1219)	34	10-5/16" (262)	10-5/16" (262)
DI-2D	Sloped	48" (1219)	41	10-5/16" (262)	10-5/16" (262)
DI-3D	Sloped	48" (1219)	43	10-5/16" (262)	11-1/4" (286)
DI-4D	Sloped	48" (1219)	46	11-1/4" (286)	11-3/8" (294)
DI-5D	Sloped	48" (1219)	48	11-3/8" (294)	11-7/8" (302)
DI-DE-N12	Neutral	12" (305)	10	11-7/8" (302)	11-7/8" (302)
DI-DE-N24	Neutral	24" (610)	19	11-7/8" (302)	11-7/8" (302)
DI-DE-N36	Neutral	36" (914)	27	11-7/8" (302)	11-7/8" (302)
DI-DE-N48	Neutral	48" (1219)	33	11-7/8" (302)	11-7/8" (302)
DI-E	Sloped	48" (1219)	35	11-7/8" (302)	12-3/16" (315)
DI-2E	Sloped	48" (1219)	42	12-3/16" (315)	12-1/2" (318)
DI-3E	Sloped	48" (1219)	44	12-1/2" (318)	12-13/16" (325)
DI-4E	Sloped	48" (1219)	47	12-13/16" (325)	13-1/8" (333)
DI-5E	Sloped	48" (1219)	49	13-1/8" (333)	13-7/16" (341)

**NOTICE**

The information contained herein is not intended to replace the full product installation and safety information available on the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

**WATTS**

ES-WD-DeadLevel-D 2108



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**SURVEY**

TOPOGRAPHIC SURVEY WAS COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBECK LTD. ONTARIO LAND SURVEYOR, DATED JULY 26, 2022.

**TRM:** TOP OF SPINDLE OF FIRE HYDRANT LOCATED ON SOUTH EAST OF THE SITE, ELEV. 88.50.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	ISSUED FOR SPA	JULY, 2023	

**4597 MANOTICK MAIN ST. CITY OF OTTAWA**

**DETAILS**

**TATHAM ENGINEERING**

DESIGN: HY FILE: 522679 DWG: **C502**  
DRAWN: HY DATE: JULY 2023  
CHECK: GC SCALE: