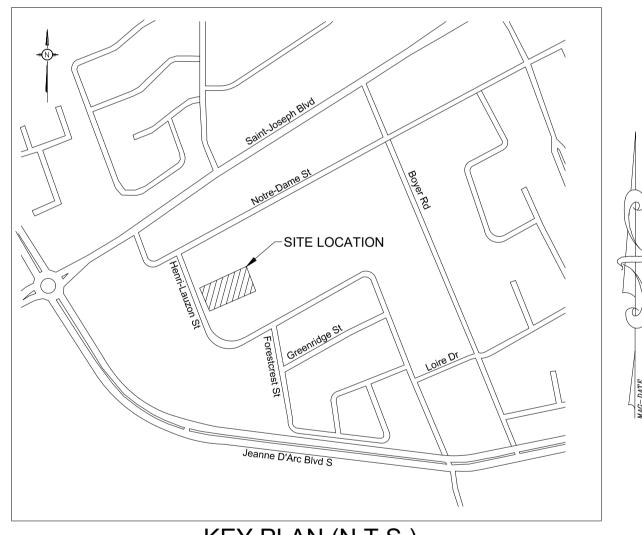
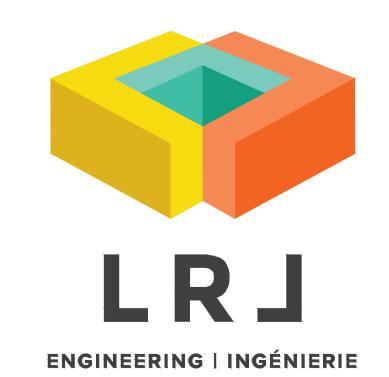
PROPOSED RESIDENTIAL DEVELOPMENT

1401-1411 HENRI LAUZON STREET ORLEANS, ONTARIO REVISION NO. 04



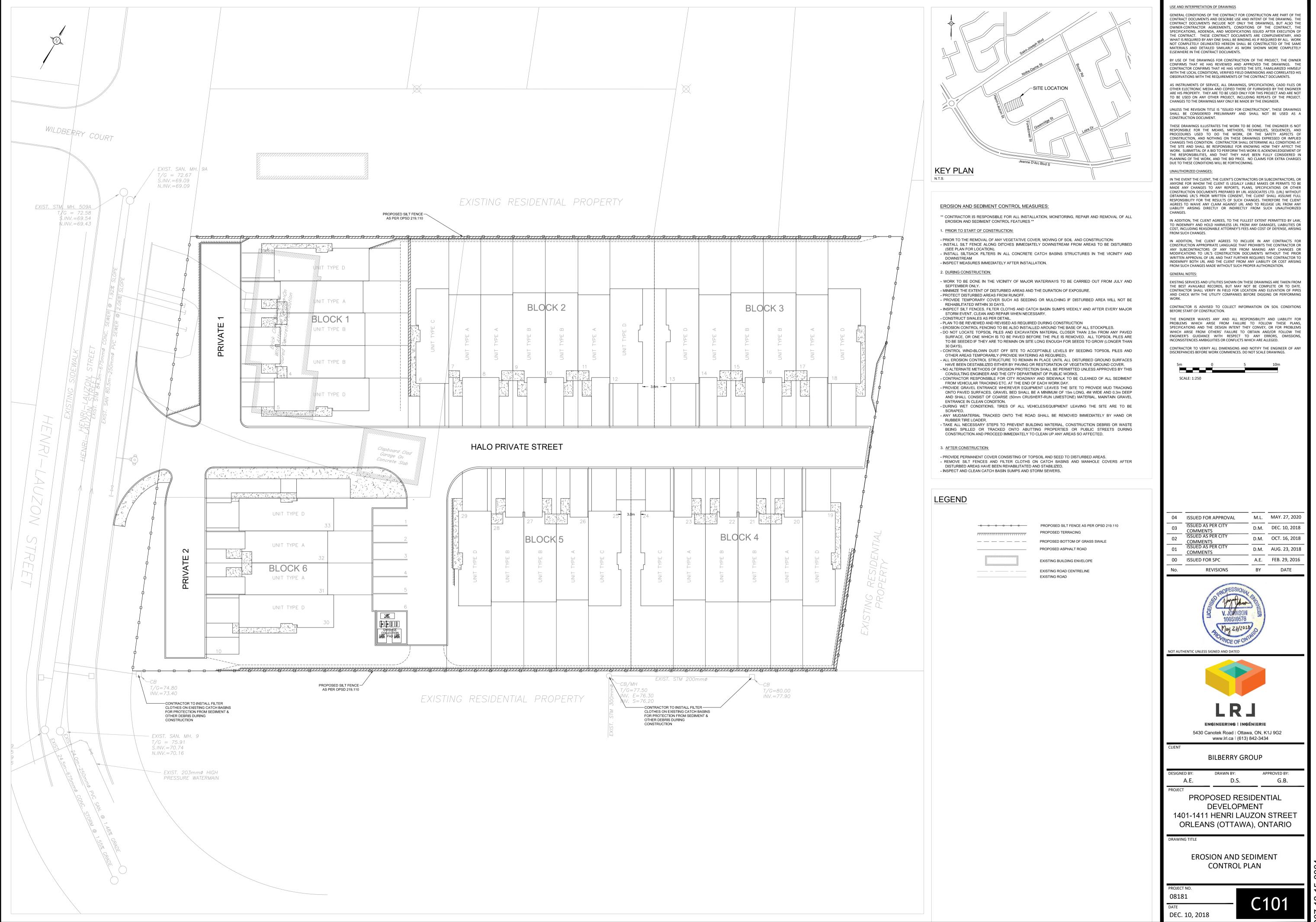
KEY PLAN (N.T.S.)

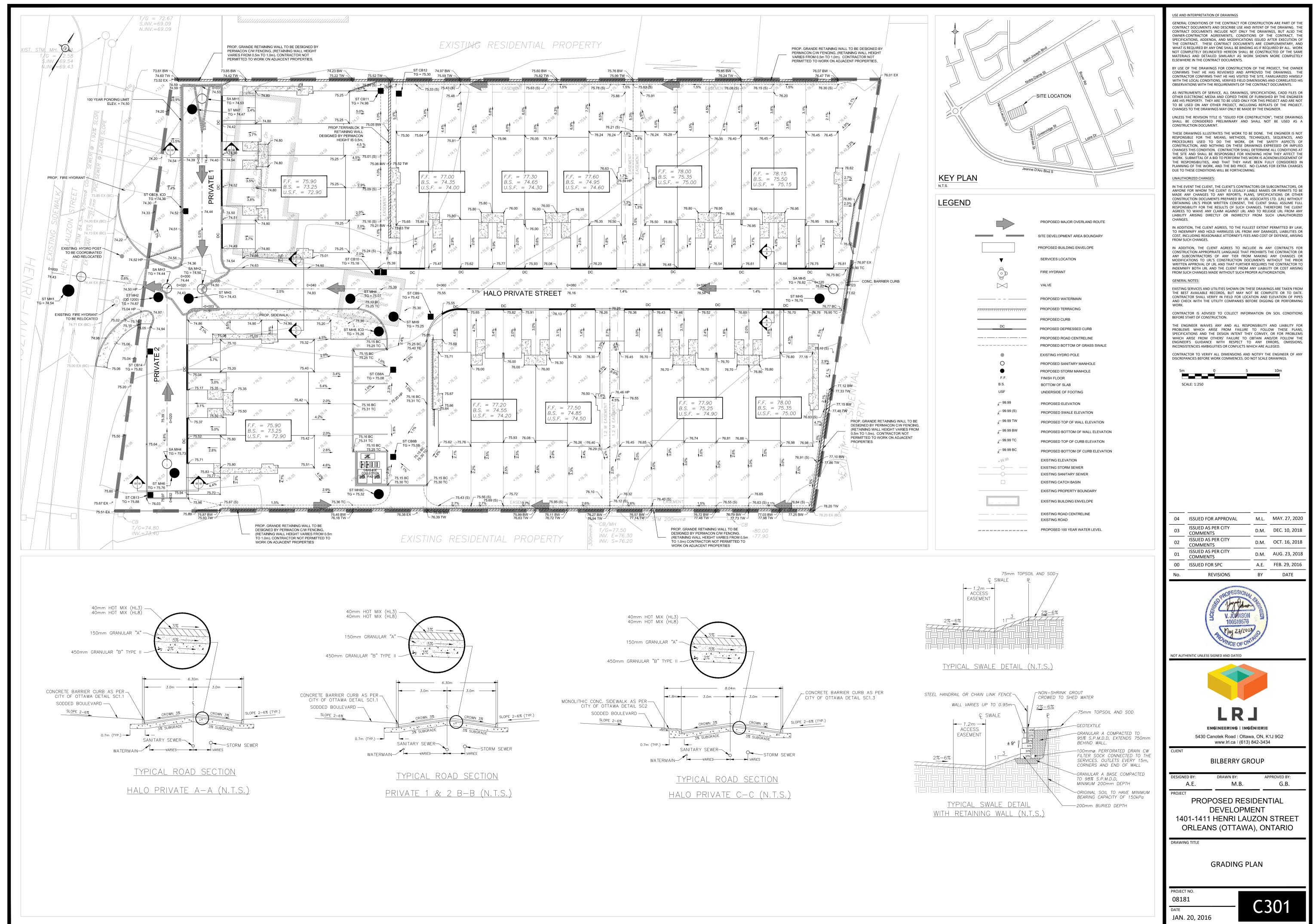


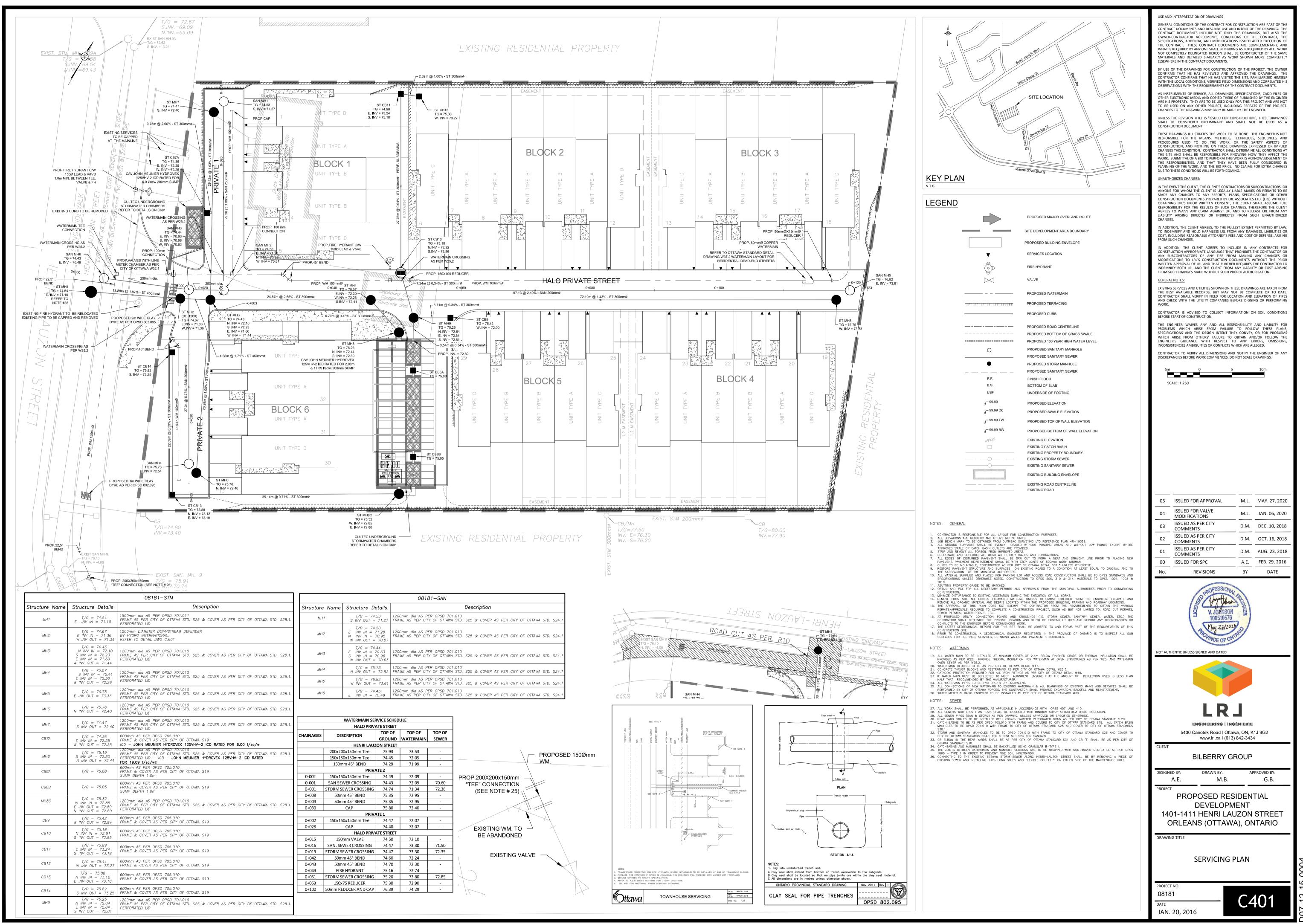
5430 Canotek Road | Ottawa, ON, K1J 9G2 www.lrl.ca | (613) 842-3434

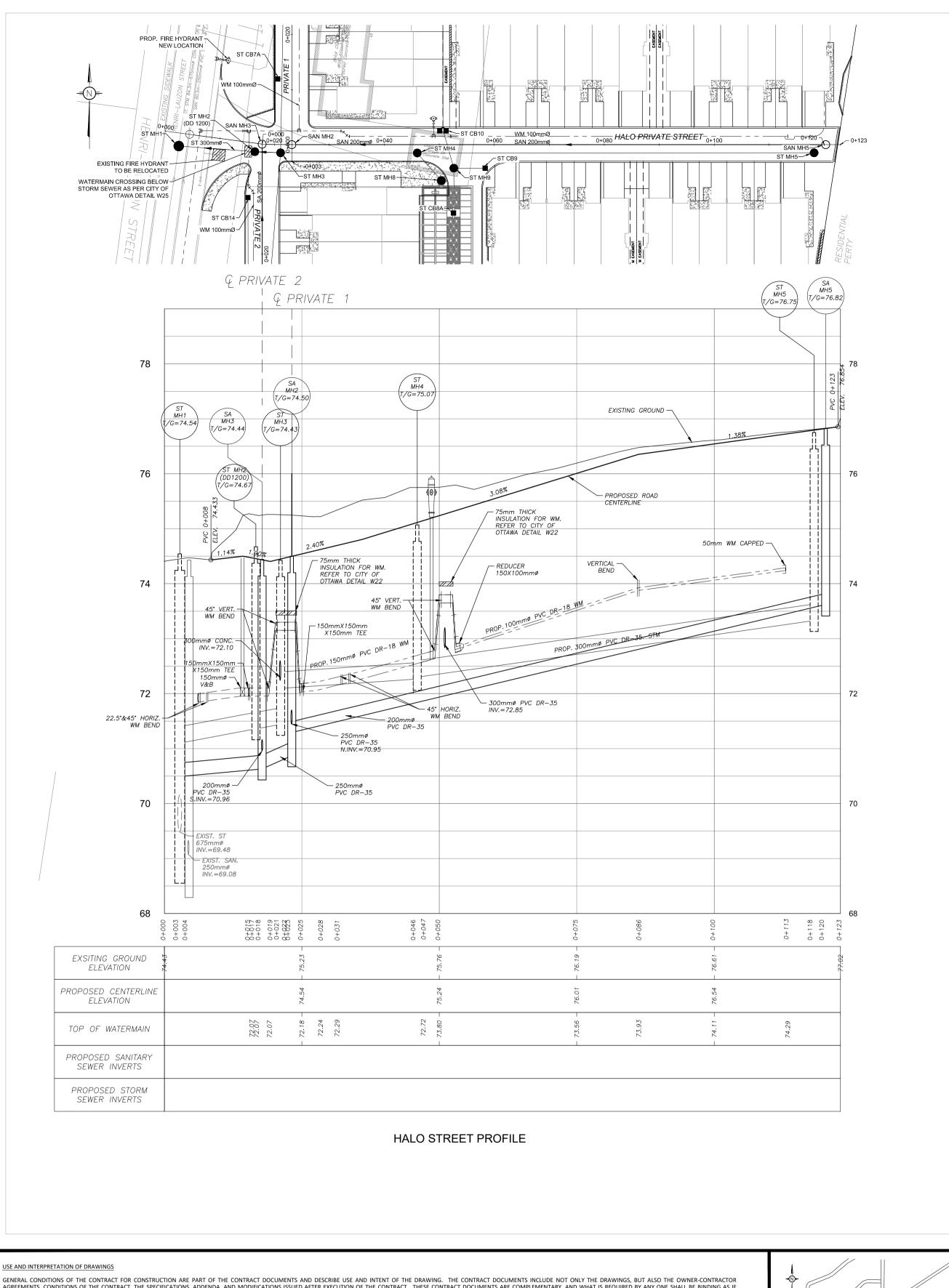
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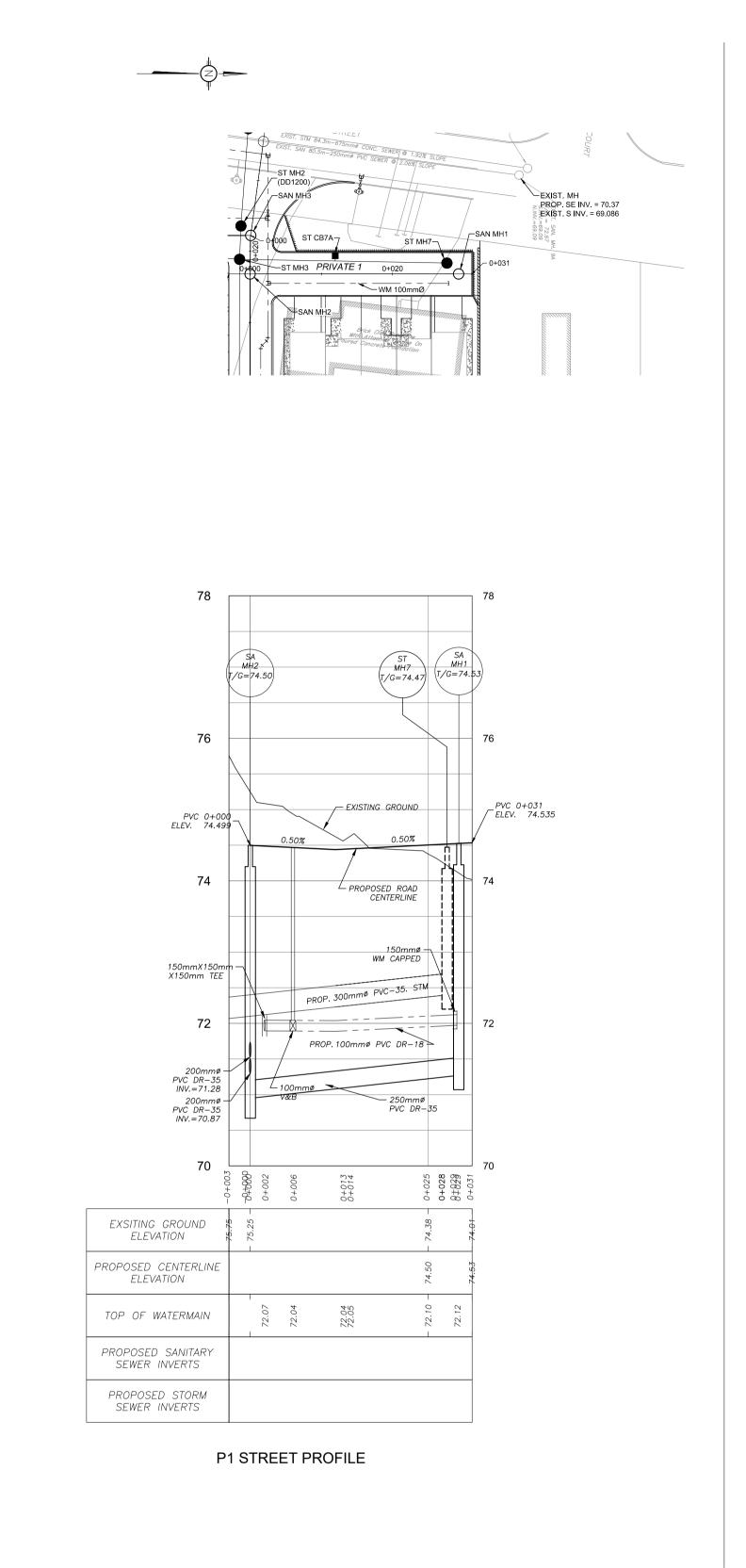
	TITLE PAGE	
1	EROSION AND SEDIMENT CONTROL PLAN	C101
2	GRADING PLAN	C301
3	SERVICING PLAN	C401
4	HALO STREET (0+000 TO 0+122) P1 STREET (0+000 TO 0+031) P2 STREET (0+000 TO 0+032) PLAN AND PROFILES	C501
5	UNDERGROUND STORAGE AND STORMWATER SEPARATOR DETAILS	C601
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7	UNDERGROUND STORAGE AND STORMWATER SEPARATOR DETAILS	C602
8	POST DEVELOPMENT WATERSHED PLAN	C701
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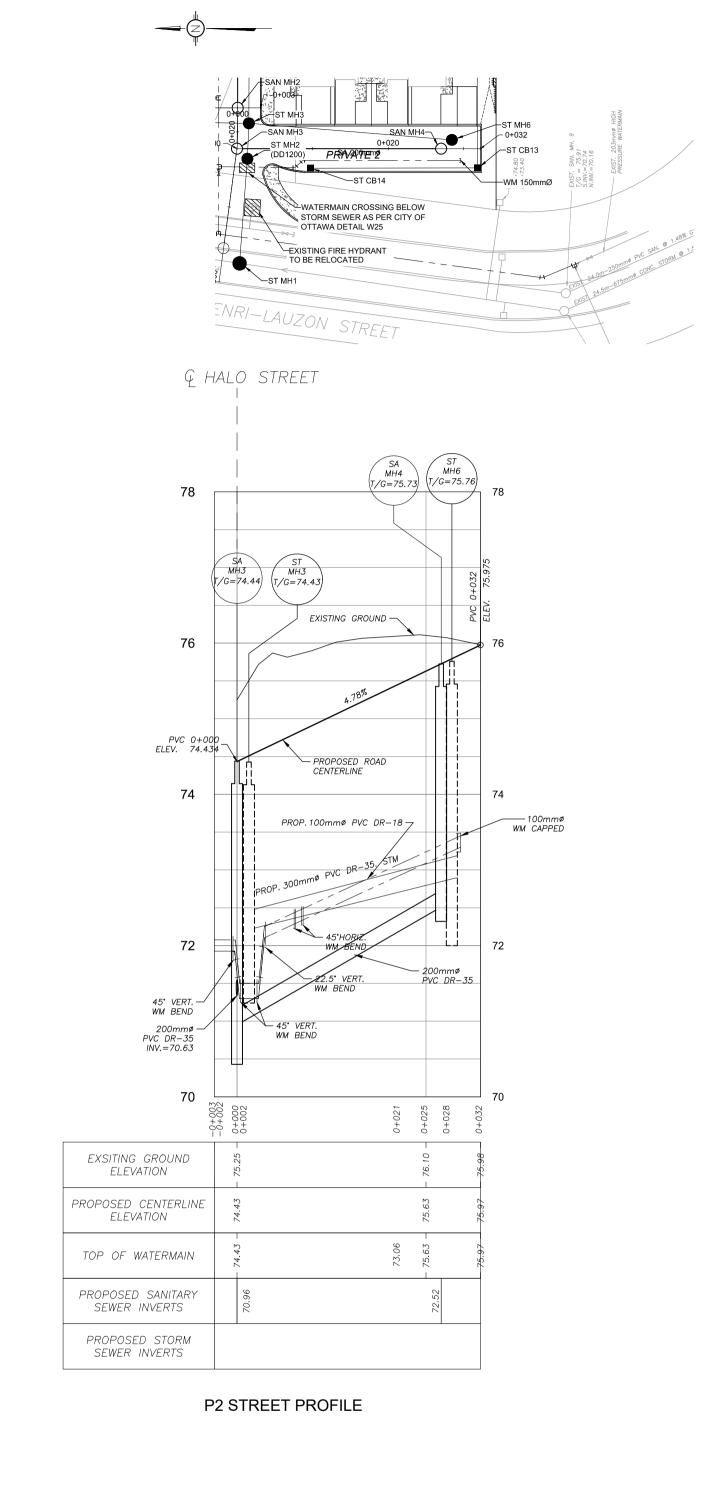












AGREEMENTS, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

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04	ISSUED FOR APPROVAL	M.L.	MAY. 27, 2020
03	ISSUED AS PER CITY COMMENTS	D.M.	DEC. 10, 2018
02	ISSUED AS PER CITY COMMENTS	D.M.	OCT. 16, 2018
01	ISSUED AS PER CITY COMMENTS	D.M.	AUG. 23, 2018
00	ISSUED FOR SPC	A.E.	FEB. 29, 2016

REVISIONS

BY

DATE

BILBERRY GROUP G.B. M.B. A.E.

PROPOSED RESIDENTIAL DEVELOPMENT 1401-1411 HENRI LAUZON STREET ORLEANS (OTTAWA), ONTARIO

HALO STREET (0+000 TO 0+122) P1 STREET (0+000 TO 0+031) P2 STREET (0+000 TO 0+032) PLAN AND PROFILE

08181

DEC. 10, 2018

1401 HENRI LAUZON STREET OTTAWA, ON

DRAWING INDEX

SHEET NO.

SOUTH SYSTEM LAYOUT SHEET

SOUTH SYSTEM CALCULATION SHEET

NORTH SYSTEM LAYOUT SHEET

NORTH SYSTEM CALCULATION SHEET

SYSTEM OVERLAY SHEET

DETAIL SHEET

SEPARATOR ROW DETAIL SHEET

SOF 7

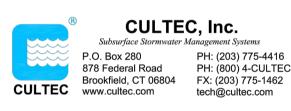
PROJECT INFORMATION

PROJECT NO: 18-1222.02

KENT FRAME (GEOSTORM)
418-570-4676
KENT@GEOSTORM.CA

DAN GERA
475-289-7064
DGERA@CULTEC.COM

VESIKA PENA
475-289-7103
YPENA@CULTEC.COM



NOTE: THESE SHOP DRAWINGS MAY CONTAIN COMPONENTS INCLUDING BUT NOT LIMITED TO MANHOLES, CATCH BASINS, STORM PIPES AND FITTINGS, MANIFOLDS, CASTINGS AND OTHER NECESSARY APPURTENANCES THAT MAY NOT BE SUPPLIED BY CULTEC, INC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND/OR SUPPLIER TO CONFIRM WITH CULTEC THE MATERIAL'S EPROVINGE.

BEFORE YOU BEGIN - REQUIRED MATERIALS AND EQUIPMENT

- 1. PROPER GEOTECHNICAL SOIL EVALUATION BY A QUALIFIED ENGINEER OR SOIL SCIENTIST TO DETERMINE SUITABILITY OF STRUCTURAL INSTALLATION
- 3. CULTEC WARNING TAPE, OR EQUIVALENT
- 4. ASSURANCES FROM LOCAL UTILITIES THAT NO UNDERGROUND GAS, ELECTRICAL OR OTHER POTENTIALLY DANGEROUS PIPELINES OR CONDUITS ARE ALREADY BURIED AT THE SITE
 5. ACCEPTABLE 25 50mm) WASHED, CRUSHED, CLEAR STONE AS DETAILED IN CULTEC'S INSTALLATION INSTRUCTIONS.
- CLEANLINESS OF STONE TO BE VERIFIED BY ENGINEER.
 6. ACCEPTABLE FILL MATERIAL AS SHOWN IN CULTEC'S INSTALLATION INSTRUCTIONS.
- ALL CULTEC CHAMBERS AND ACCESSORIES AS SPECIFIED IN THE ENGINEER'S PLANS INCLUDING CULTEC NO. 410
 NON-WOVEN GEOTEXTILE, CULTEC STORMFILTER AND CULTEC NO. 66 WOVEN GEOTEXTILE, WHERE APPLICABLE.
 RECIPROCATING SAW OR ROUTER
- STONE BUCKET

2. OSHA COMPLIANCE

- STONE CONVEYOR AND/OR TRACKED EXCAVATOR
 TRANSIT OR LASER LEVEL MEASURING DEVICE
- COMPACTION EQUIPMENT WITH MAXIMUM GROSS VEHICLE WEIGHT OF 12,000 LBS (5,440 KGS). VIBRATORY ROLLERS
 MAY ONLY BE USED ON THE STONE BASE PRIOR TO THE INSTALLATION OF CHAMBERS.
- 13. CHECK CULTEC CHAMBERS FOR DAMAGE PRIOR TO INSTALLATION. DO NOT USE DAMAGED CULTEC CHAMBERS, CONTACT YOUR SUPPLIER IMMEDIATELY TO REPORT DAMAGE OR PACKING-LIST DISCREPANCIES.

REQUIREMENTS FOR CULTEC CHAMBER SYSTEM INSTALLATIONS

- INSTALLING CONTRACTORS ARE EXPECTED TO COMPREHEND AND USE THE MOST CURRENT INSTALLATION
 INSTRUCTIONS PRIOR TO BEGINNING A SYSTEM INSTALLATION. IF THERE IS ANY QUESTION AS TO WHETHER YOU
 POSSESS THE MOST CURRENT INSTRUCTIONS, CONTACT CULTEC AT (203) 775-4416 OR VISIT WWW.CULTEC.COM.
- CONTACT CULTEC AT LEAST THIRTY DAYS PRIOR TO SYSTEM INSTALLATION TO ARRANGE FOR A PRE-CONSTRUCTION MEETING.
 ALL CULTEC SYSTEM DESIGNS MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
- 4. USE CULTEC INSTALLATION INSTRUCTIONS AS A GUIDELINE ONLY FOR MINIMUM/MAXIMUM REQUIREMENTS. ACTUAL

 DESIGN MAY VARY. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR JOB-SPECIFIC DETAILS. BE SURE TO FOLLOW

 THE ENCINEERIS DRAWINGS AS YOUR PRIMARY CULTE.
- THE ENGINEER'S DRAWINGS AS YOUR PRIMARY GUIDE.

 5. THE FOUNDATION STONE SHALL BE LEVEL AND COMPACTED PRIOR TO CHAMBER INSTALLATION.
- OVERLAPPING RIB CONNECTIONS OF CHAMBERS SHALL BE FULLY SHOULDERED PRIOR TO STONE PLACEMENT.
 CENTER-TO-CENTER SPACING SHALL BE CHECKED AND MAINTAINED THROUGHOUT INSTALLATION PROCESS.

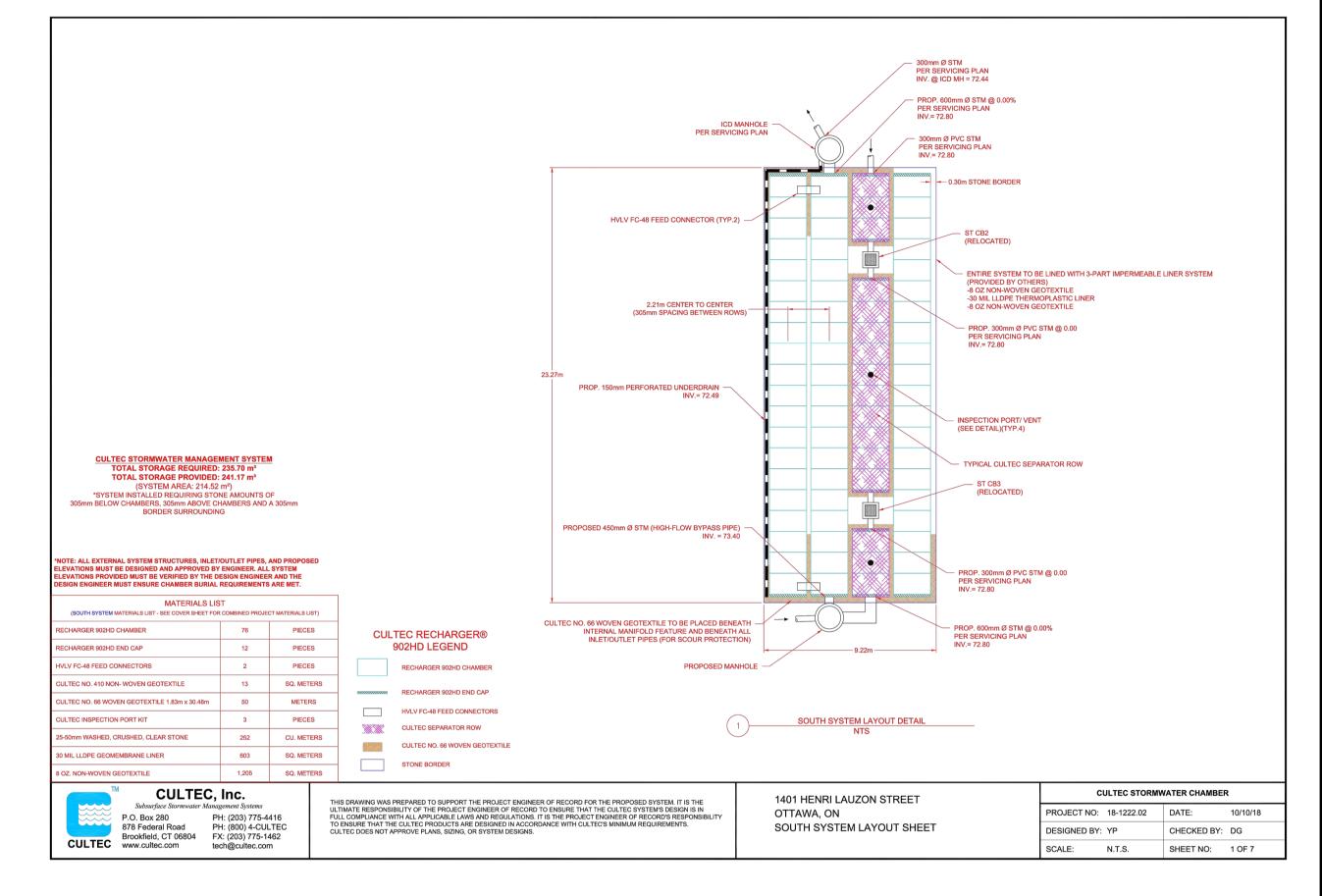
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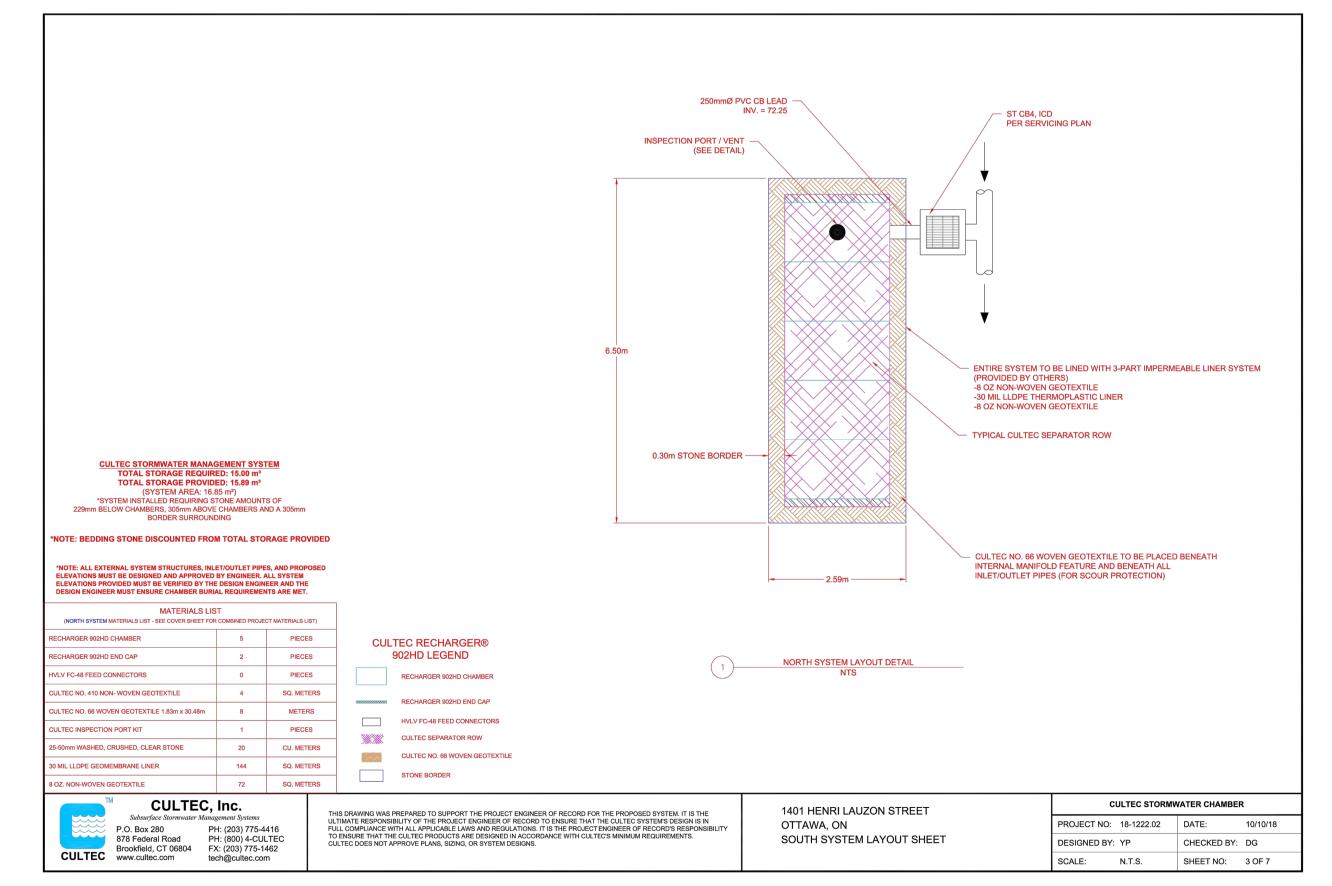
 9. NON-WOVEN GEOTEXTILE MUST BE USED AS SPECIFIED IN THE ENGINEER'S DRAWINGS.
- TRAFFIC. RESPONSIBILITY FOR PREVENTING VEHICLES THAT EXCEED CULTEC'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE CHAMBER SYSTEM LIES SOLELY WITH THE CONTRACTOR THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS. THE PLACEMENT OF WARNING TAPE, TEMPORARY FENCING, AND/OR APPROPRIATELY LOCATED SIGNS IS HIGHLY RECOMMENDED. IMPRINTED WARNING TAPE IS AVAILABLE FROM CULTEC. FOR ACCEPTABLE VEHICLE LOAD INFORMATION, REFER TO CULTEC INSTALLATION INSTRUCTIONS.
- 11. TRAFFIC OF INSTALLATION EQUIPMENT OR OTHER VEHICULAR TRAFFIC OVER TOP OF THE CULTEC STORMWATER SYSTEM IS STRICTLY RESTRICTED AND PROHIBITED UNTIL SATISFACTORY COVER AND COMPACTION IS ACHIEVED ACCORDING TO CULTEC'S MANUFACTURER INSTALLATION INSTRUCTIONS.
- EROSION AND SEDIMENT-CONTROL MEASURES MUST MEET LOCAL CODES AND THE DESIGN ENGINEER'S SPECIFICATIONS THROUGHOUT THE ENTIRE SITE CONSTRUCTION PROCESS.
- 13. CULTEC SYSTEMS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. FAILURE TO DO SO WILL VOID THE LIMITED WARRANTY.
- 14. CONTACT CULTEC, INC. AT 203-775-4416 WITH ANY QUESTIONS OR FURTHER CLARIFICATION OF REQUIREMENTS.

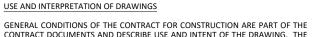
 15. PLACEMENT OF EMBEDMENT STONE MUST BE IN ACCORDANCE WITH CULTEC'S INSTALLATION INSTRUCTIONS. STONE COLUMN HEIGHT DEFERENTIAL MUST NEVER EXCEED 12" (305 mm) BETWEEN CHAMBER ROWS, ADJACENT CHAMBERS OR STONE PERIMETER. STONE MUST BE PLACED OVER THE CROWN OF THE CHAMBERS TO ANCHOR THE CHAMBERS IN
- PLACE AND MAINTAIN ROW SPACING.

 16. EMBEDMENT STONE MUST ONLY BE PLACED BY EXCAVATOR OR TELESCOPING CONVEYOR BOOM. PLACEMENT OF EMBEDMENT STONE WITH BULLDOZER IS NOT AN ACCEPTABLE METHOD OF INSTALLATION AND MAY CAUSE DAMAGE TO THE CHAMBERS. ANY CHAMBERS DAMAGED USING AN UNACCEPTABLE METHOD OF BACKFILL ARE NOT COVERED UNDER THE CULTEC LIMITED WARRANTY.

THIS DRAWING WAS PREPARED TO SUPPORT THE PROJECT ENGINEER OF RECORD FOR THE PROPOSED SYSTEM. IT IS THE ULTIMATE RESPONSIBILITY OF THE PROJECT ENGINEER OF RECORD TO ENSURE THAT THE CULTEC SYSTEM'S DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IT IS THE PROJECT ENGINEER OF RECORD'S RESPONSIBILIT' TO ENSURE THAT THE CULTEC PRODUCTS ARE DESIGNED IN ACCORDANCE WITH CULTEC'S MINIMUM REQUIREMENTS. CULTEC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS.







CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THE DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENTS, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY ONE SHALL BE BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

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04	ISSUED FOR APPROVAL	M.L.	MAY. 27, 2020
03	ISSUED AS PER CITY COMMENTS	D.M.	DEC. 10, 2018
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01	ISSUED AS PER CITY COMMENTS	D.M.	AUG. 23, 2018
00	ISSUED FOR SPC	A.E.	FEB. 29, 2016
No.	REVISIONS	ВҮ	DATE



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BILBERRY GROUP

A.E. D.S. G.B.

PROPOSED RESIDENTIAL

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DEVELOPMENT
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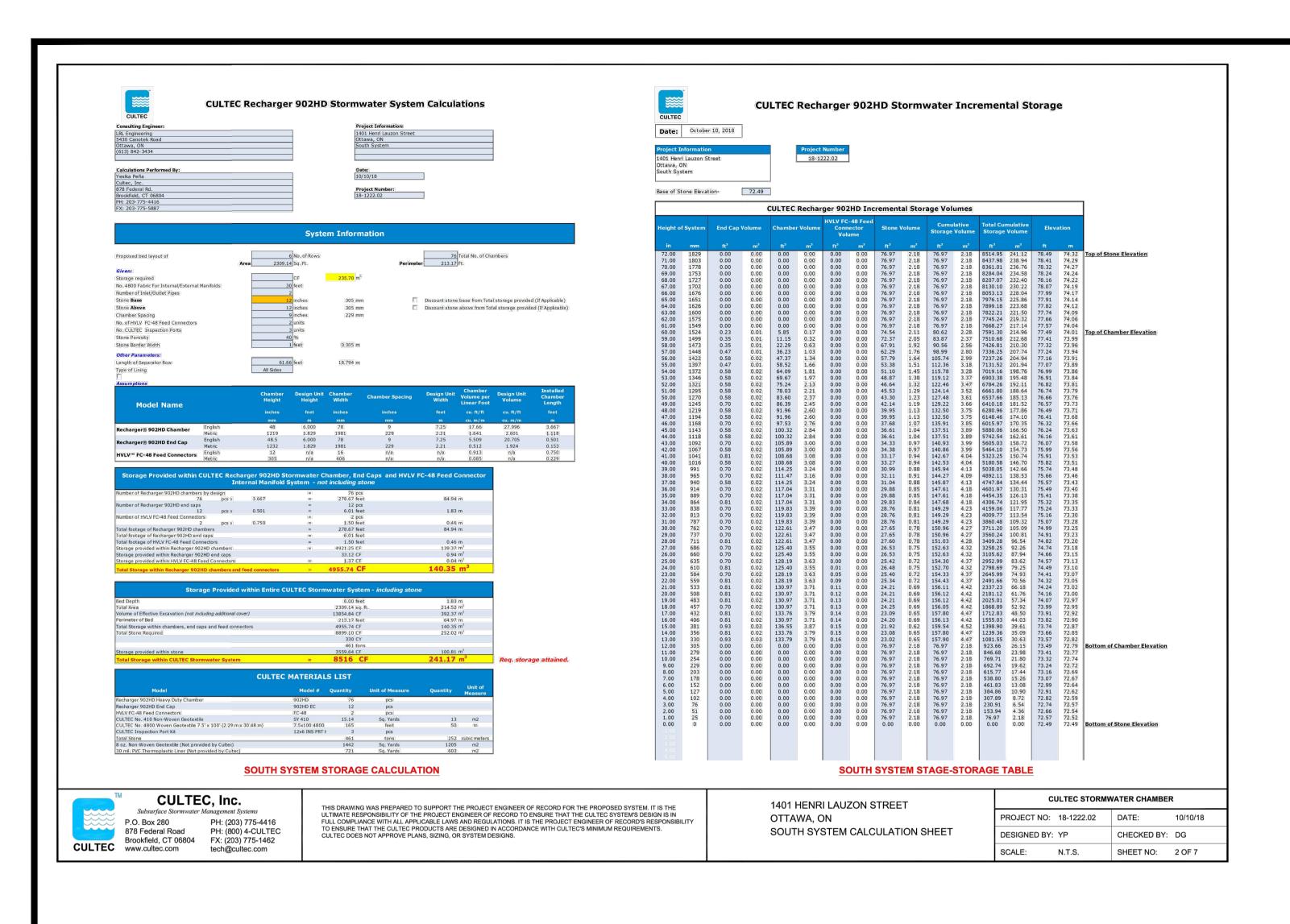
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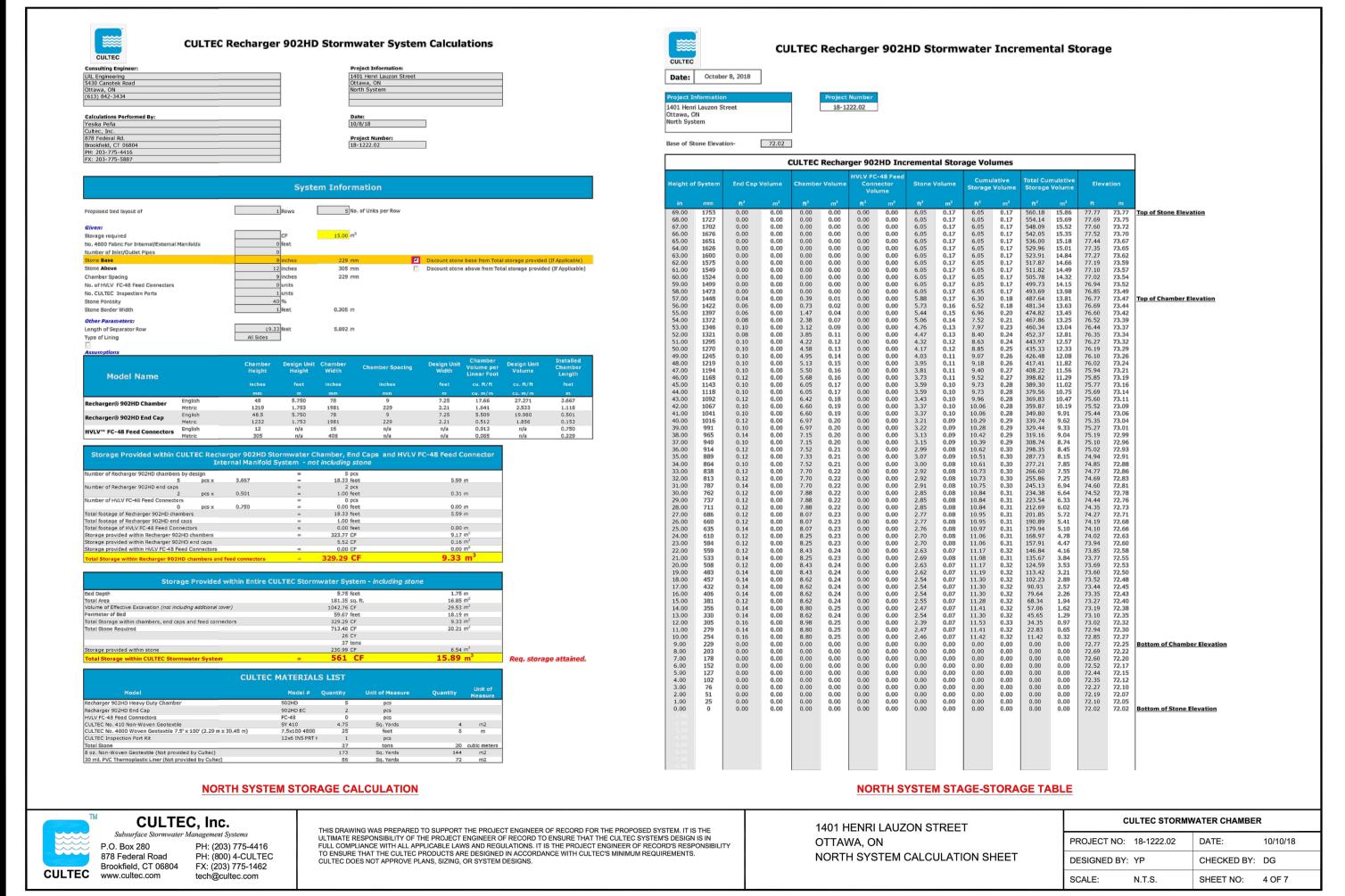
UNDERGROUND STORAGE AND STORMWATER SEPARATOR DETAILS

PROJECT NO. **08181**

DEC. 10, 2018

C601





USE AND INTERPRETATION OF DRAWINGS

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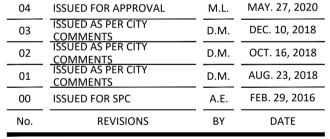
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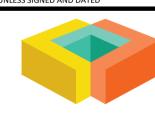
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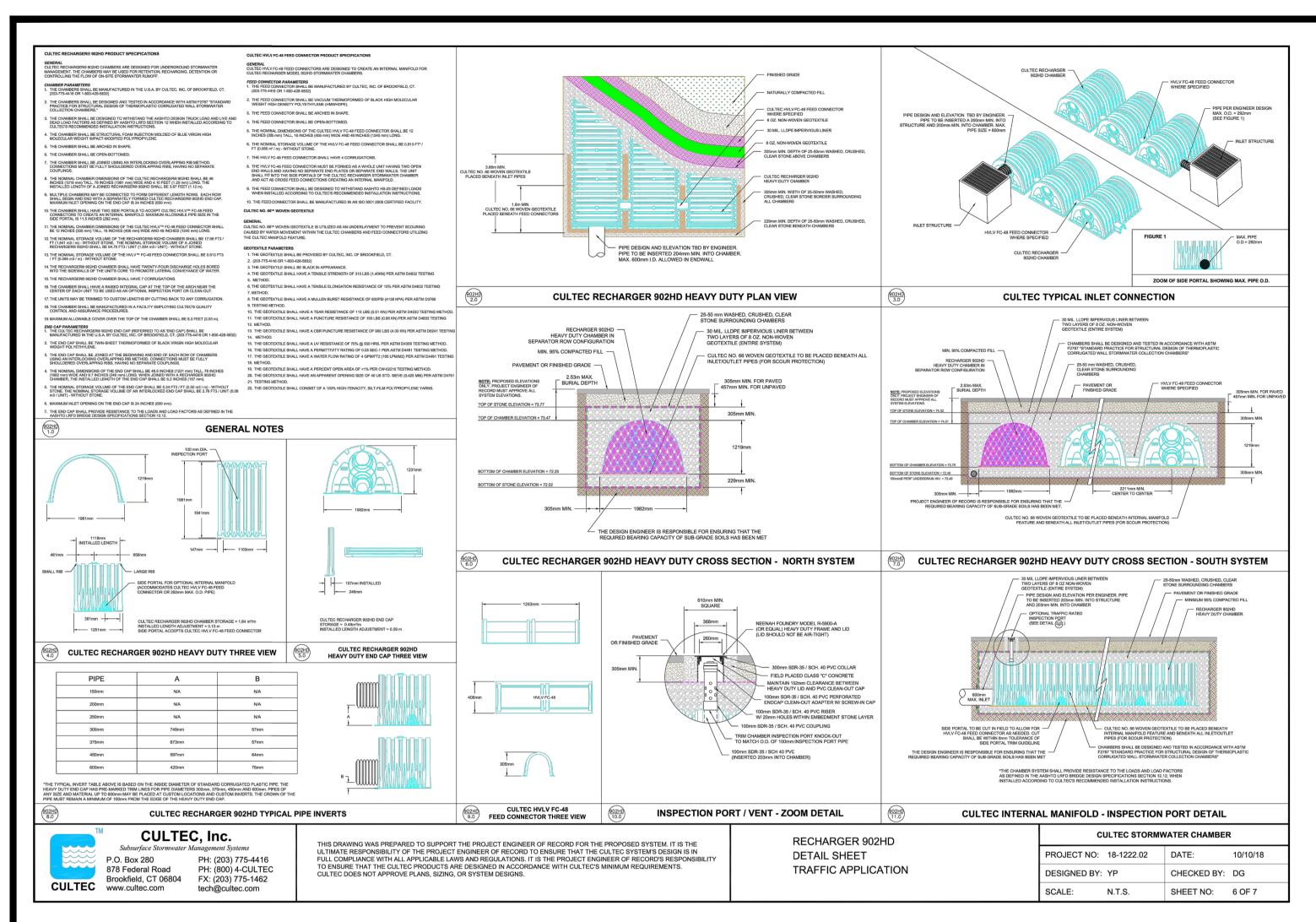
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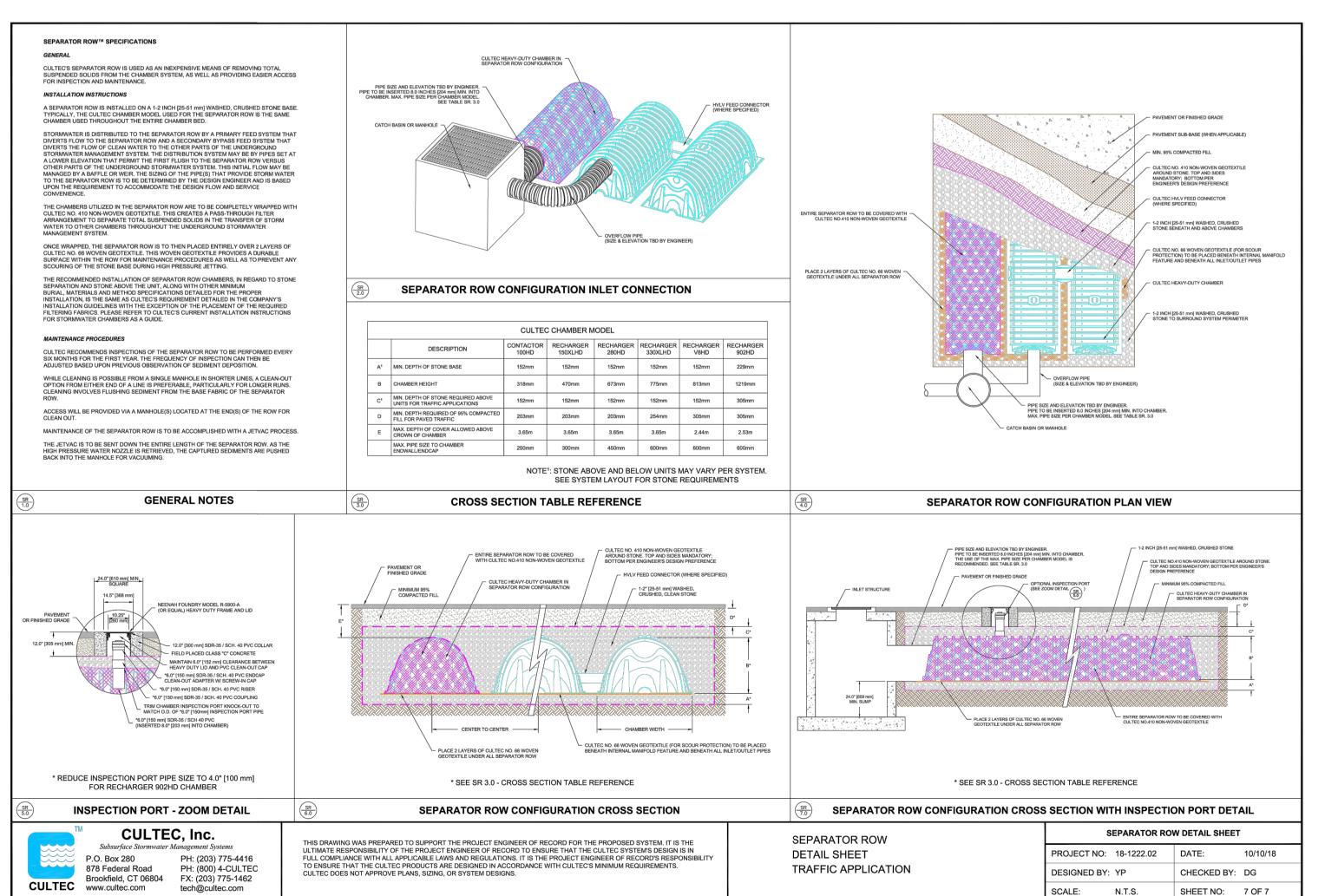
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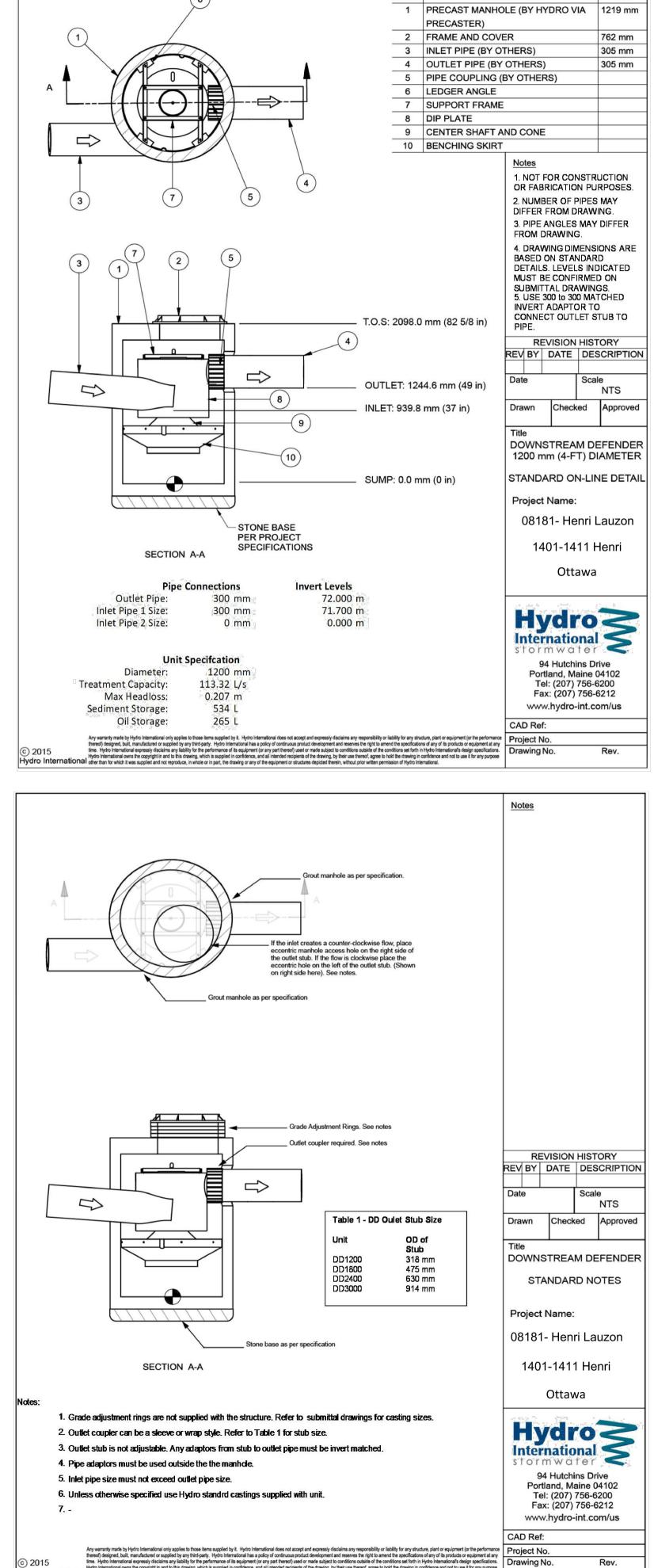
PROPOSED RESIDENTIAL DEVELOPMENT 1401-1411 HENRI LAUZON STREET ORLEANS (OTTAWA), ONTARIO

UNDERGROUND STORAGE AND STORMWATER SEPARATOR DETAILS

DEC. 10, 2018







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