



Engineering Technologies Canada Ltd.

16 Myrtle St., Unit #1 Stratford, PE Canada C1B 2W2 (902) 628-1705 TEL (902) 628-1703 FAX www.engtech.ca

P.O. Box 1653 Charlottetown Prince Edward Island Canada, C1A 7N4

Tel: (902) 368-3365 Fax: (902) 626-3412

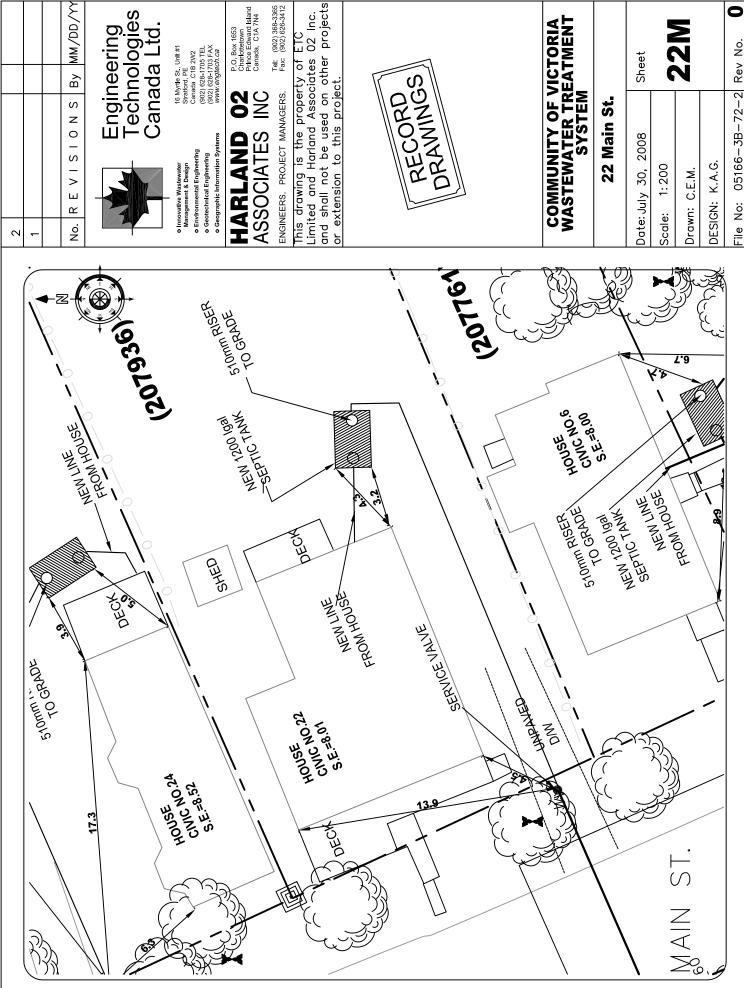
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# COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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DRAWINGS

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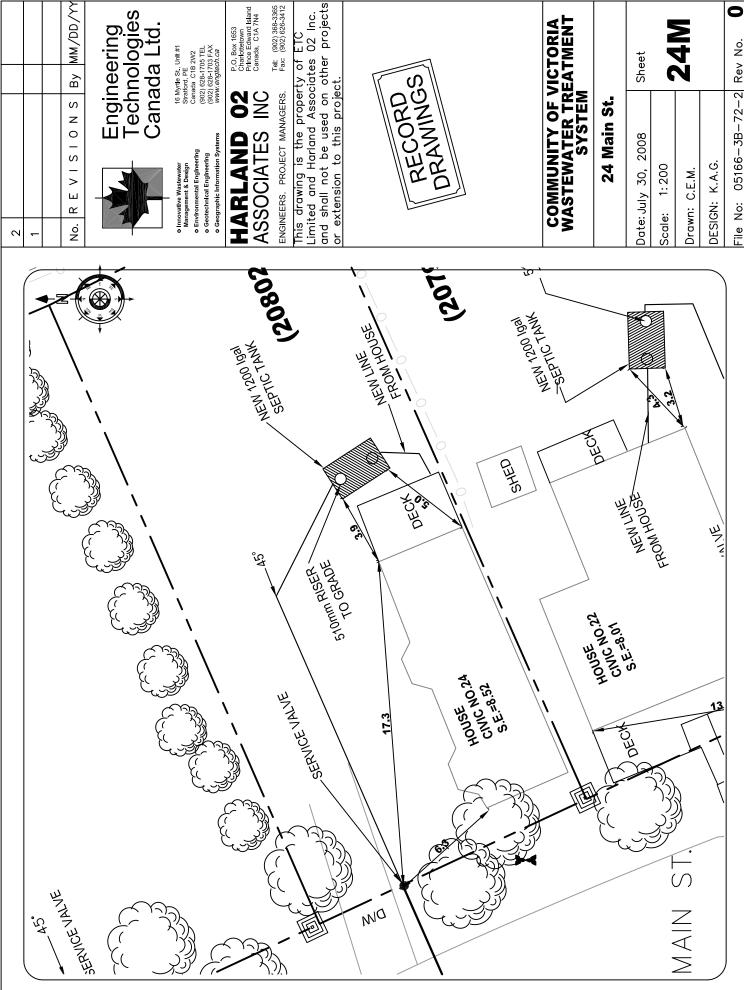
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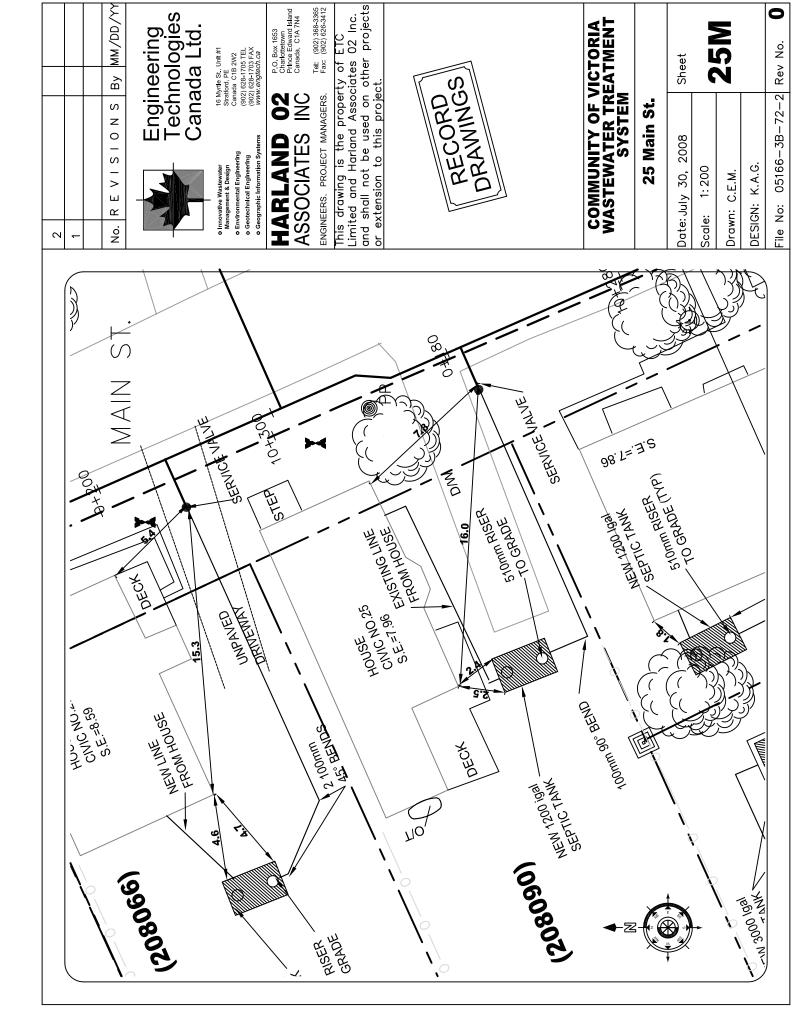
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# COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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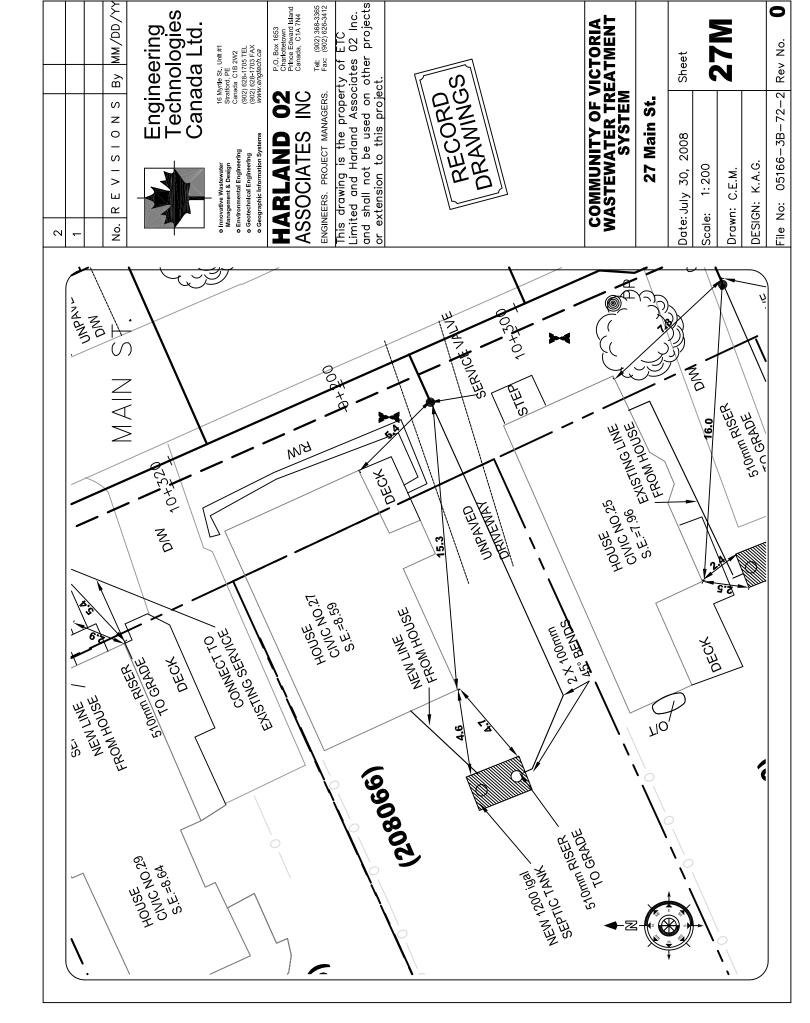
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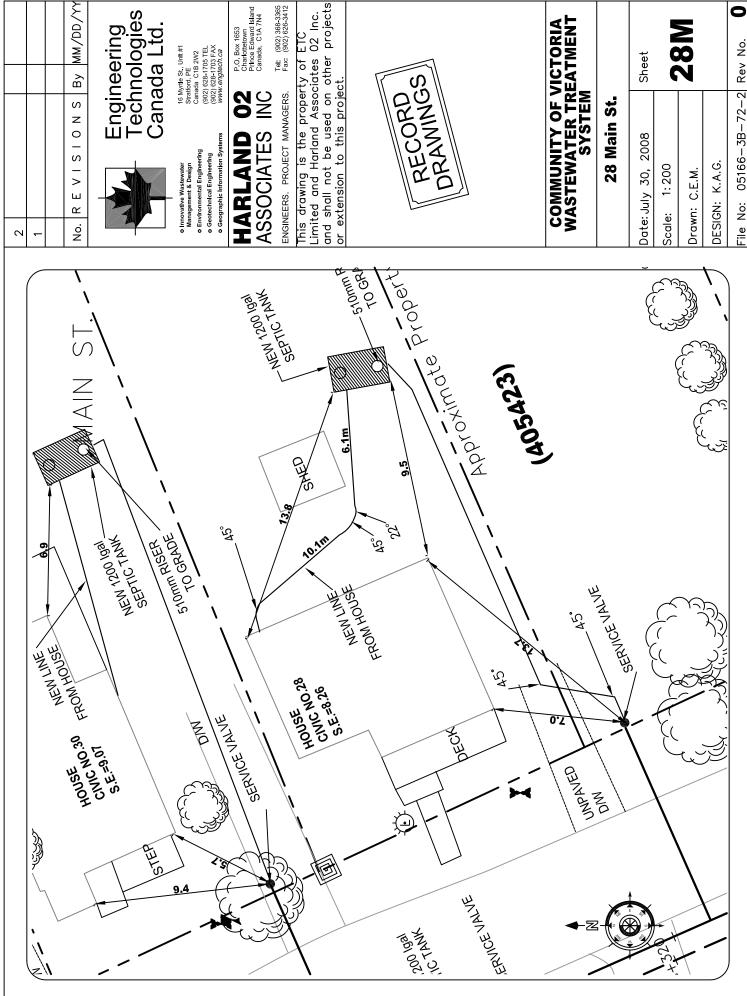
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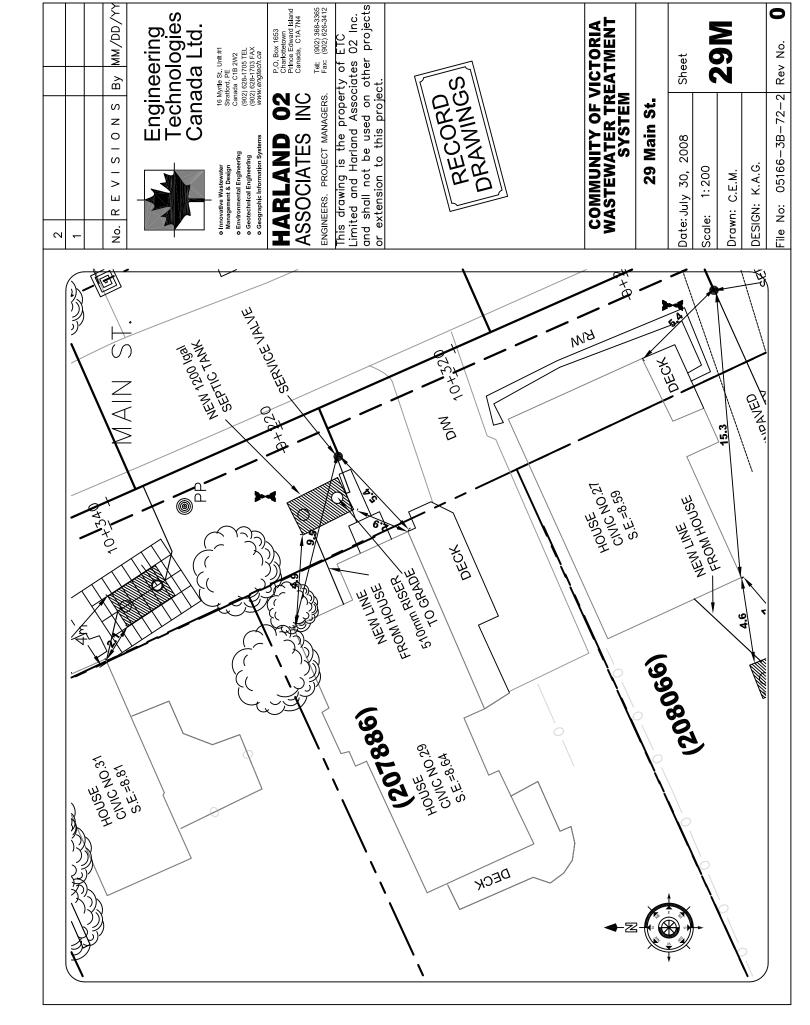
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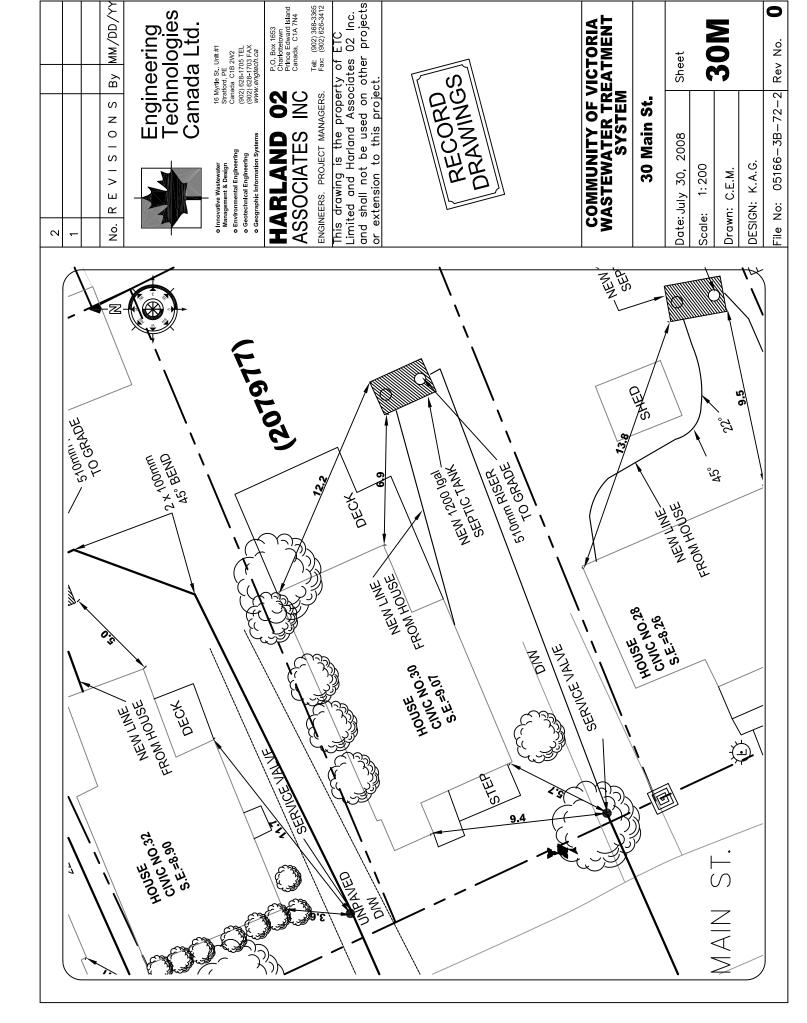
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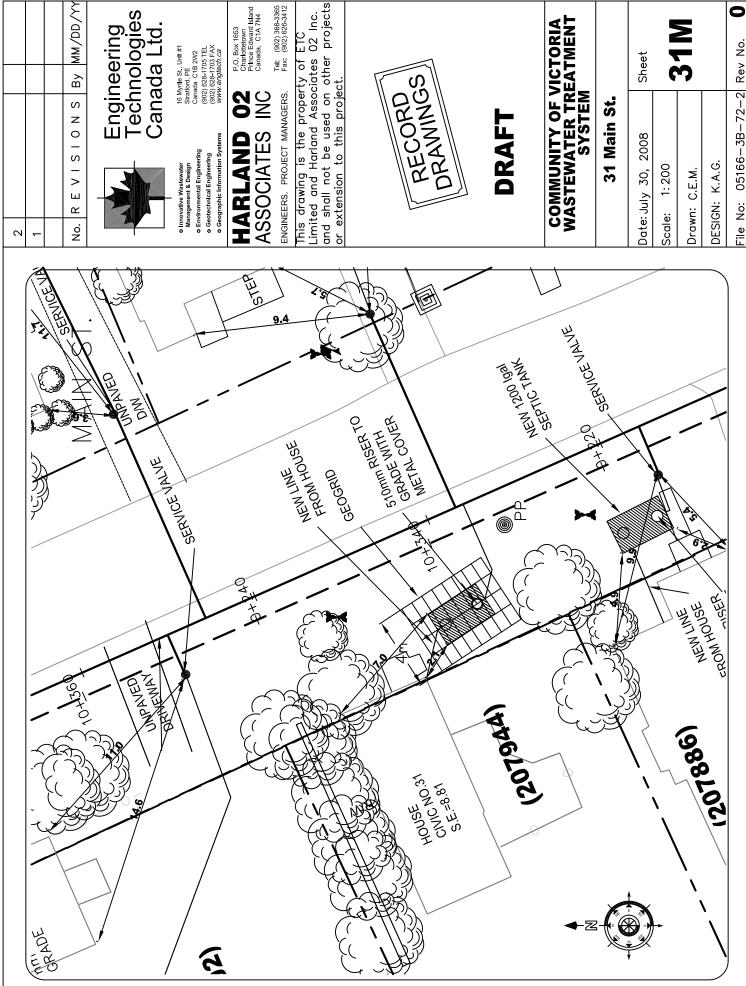
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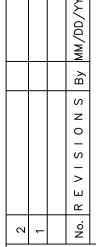
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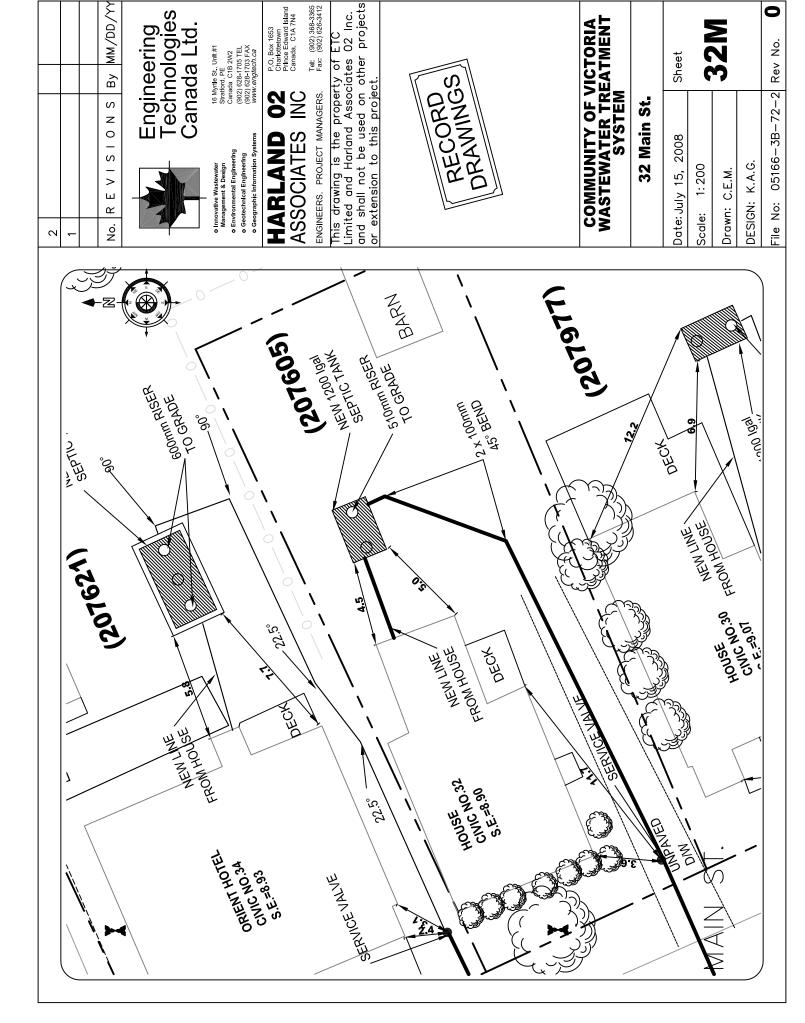
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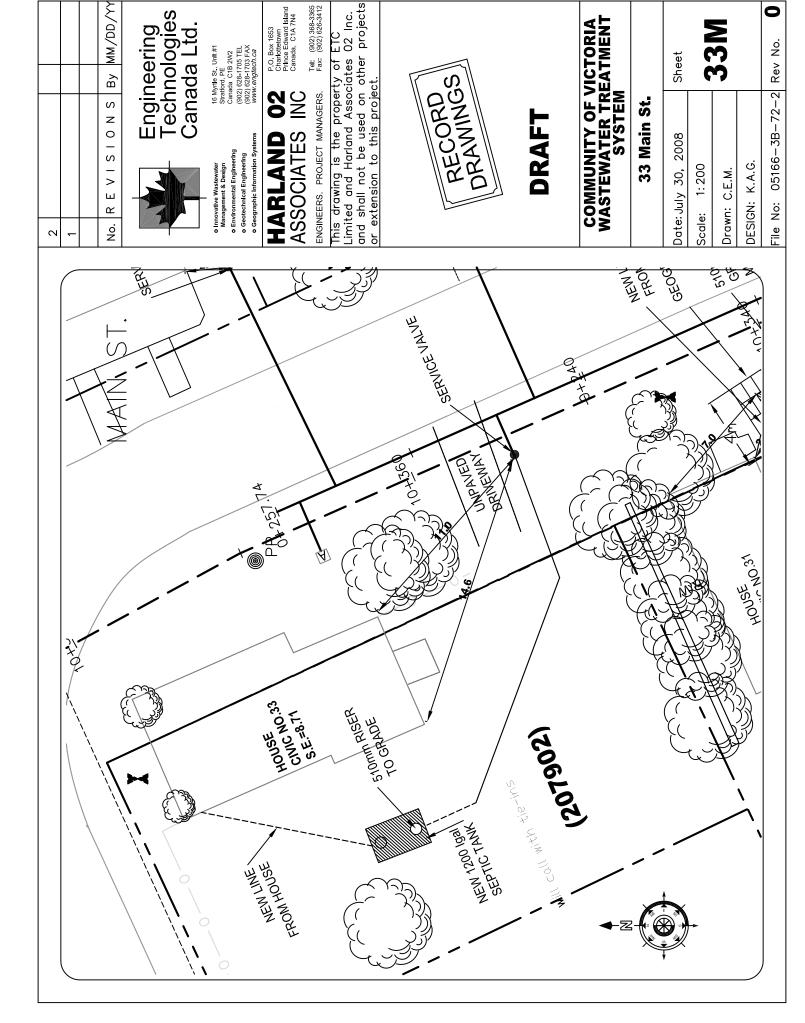
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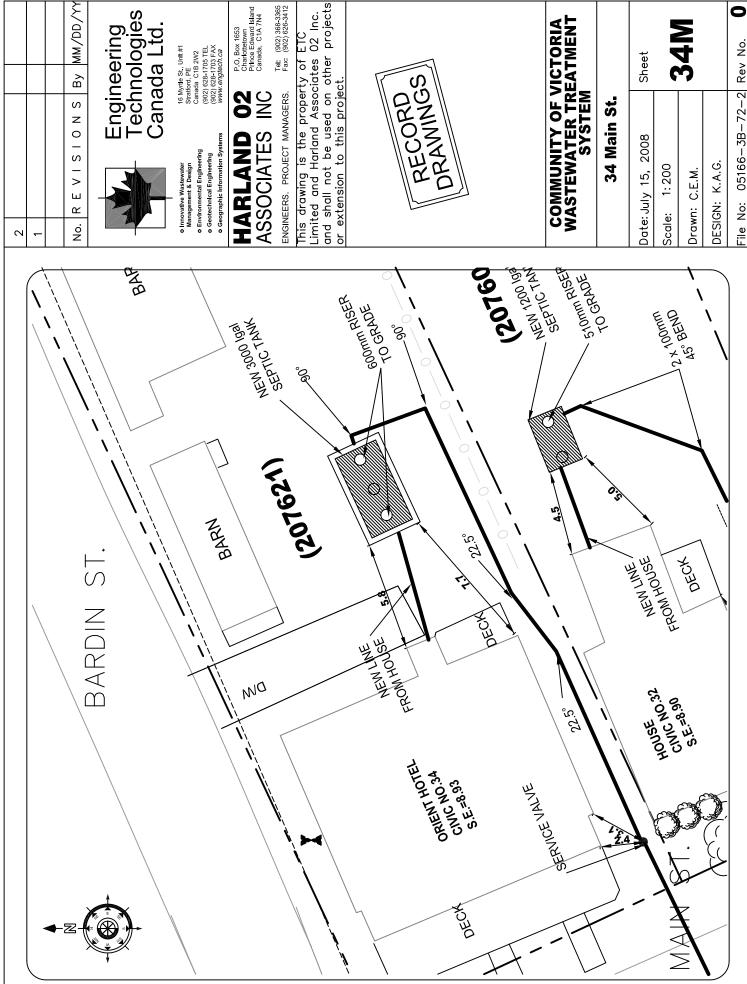
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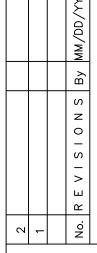
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# COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

34 Main St.

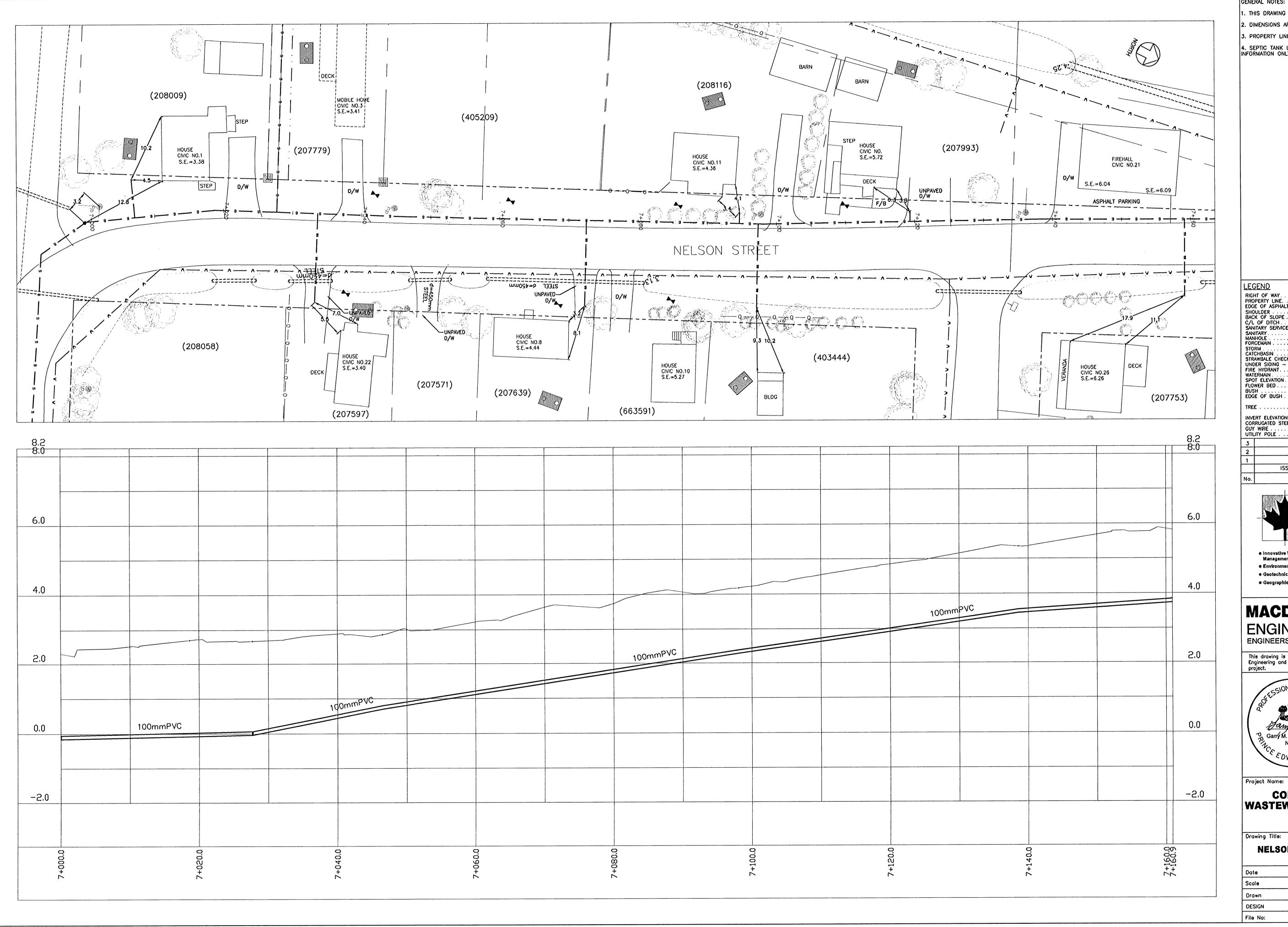
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### **Appendix O**

**Nelson Street Record Drawings** 

Victoria Commission Corporation Municipal Servicing Standards



GENERAL NOTES:

I. THIS DRAWING IS NOT TO BE SCALED.

2. DIMENSIONS ARE GIVEN IN METRES, UNLESS NOTED.

3. PROPERTY LINES ARE APPROXIMATE ONLY. 4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. SEE UTILITY FOR DETAILED LOCATIONS.

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 Innovative Wastewater
 Management & Design Environmental Engineering Geotechnical Engineering Geographic Information Systems 16 Myrtle St., Unit #1 Stratford, PE Canada C1B 2W2 (902) 628-1705 TEL (902) 628-1703 FAX www.englech.ca

### MACDONALD HARLAND ENGINEERING INC ENGINEERS · PROJECT MANAGERS P Queen St Charlottetown, PE Canada, C1A 7N4 Tel: (902) 368-3365

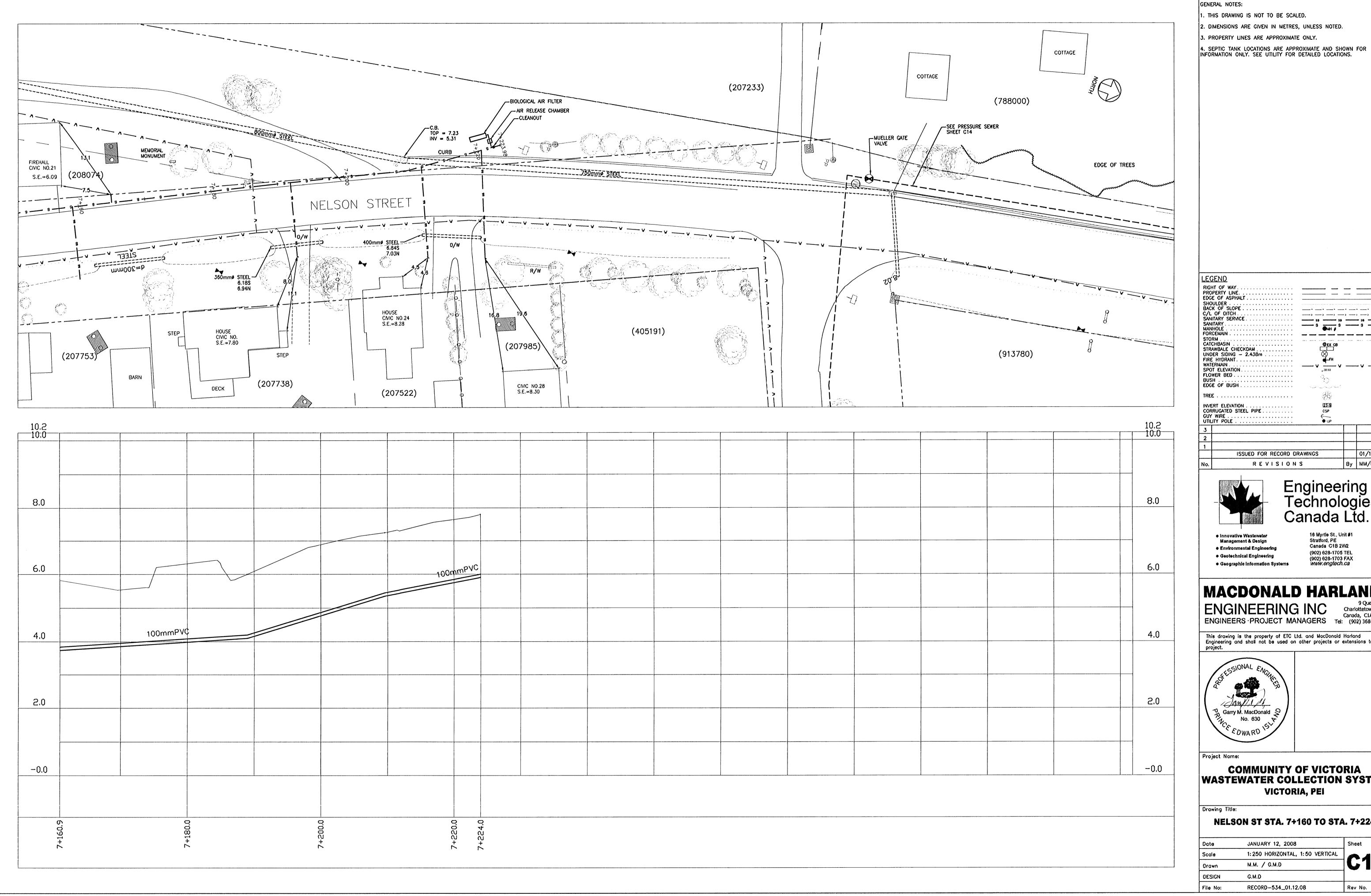
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### COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

NELSON ST STA. 7+000 TO STA. 7+160

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GENERAL NOTES: . THIS DRAWING IS NOT TO BE SCALED. . DIMENSIONS ARE GIVEN IN METRES, UNLESS NOTED. 3. PROPERTY LINES ARE APPROXIMATE ONLY.

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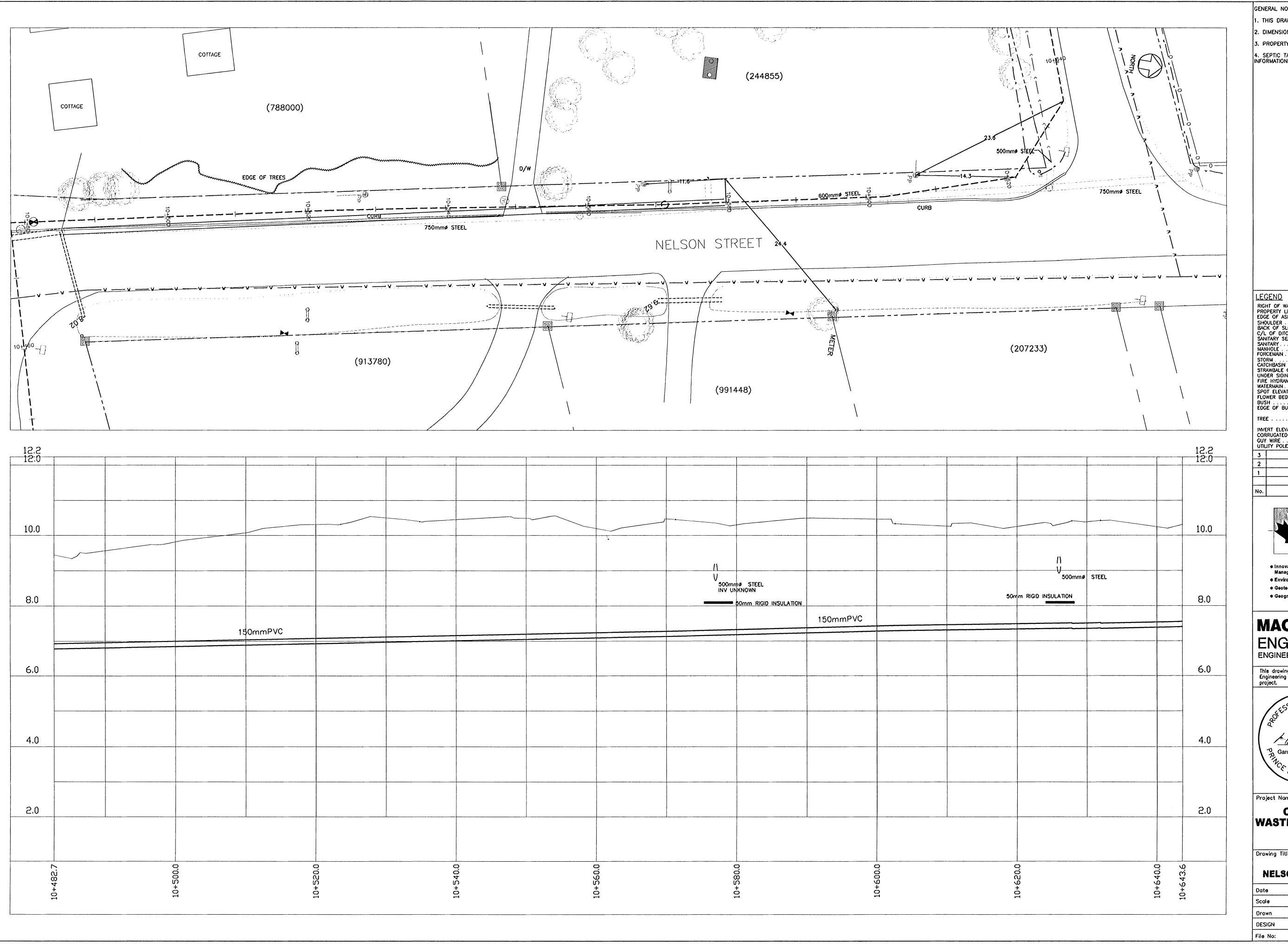
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### COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

Drawing Title:

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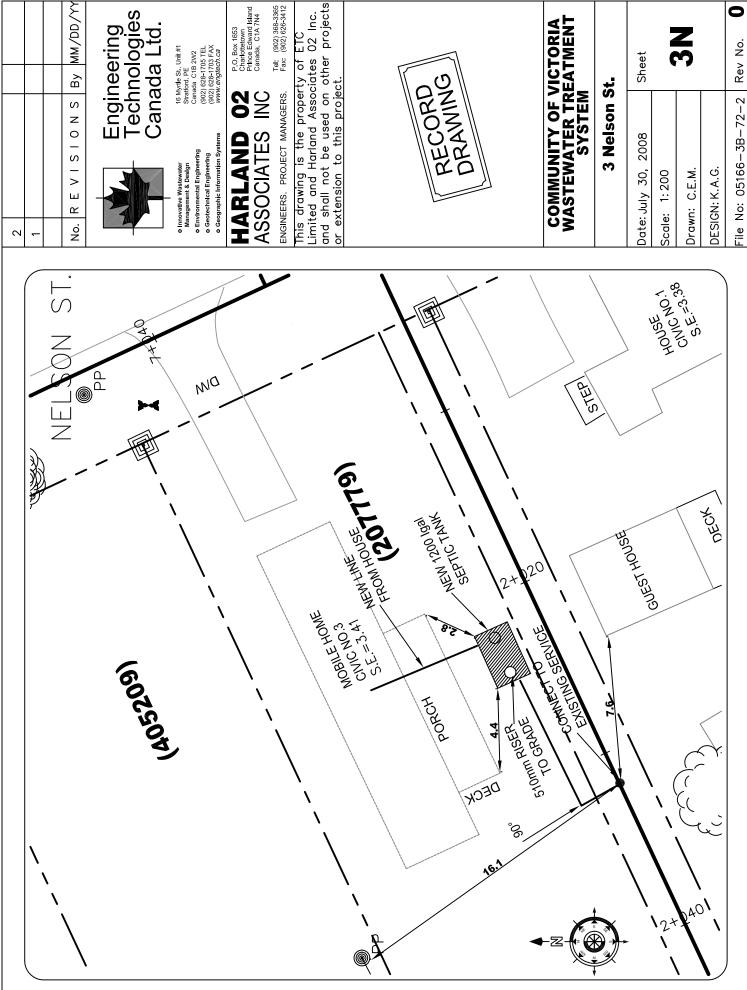


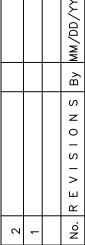
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### COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

PRESSURE SEWER NELSON ST STA. 10+483 TO STA. 10+634

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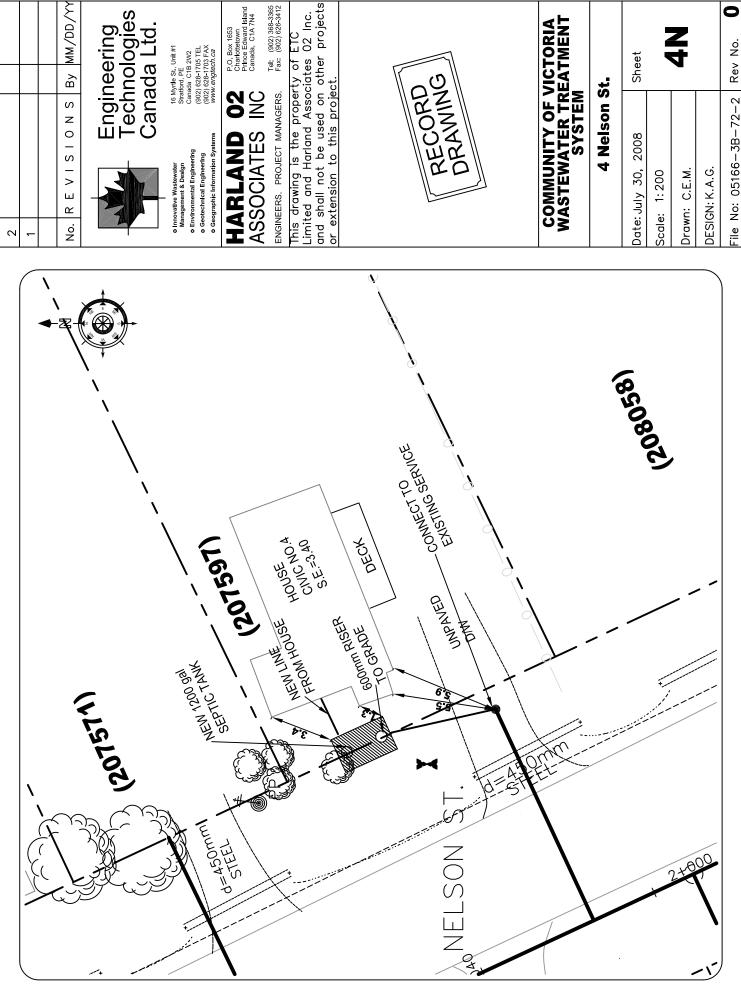
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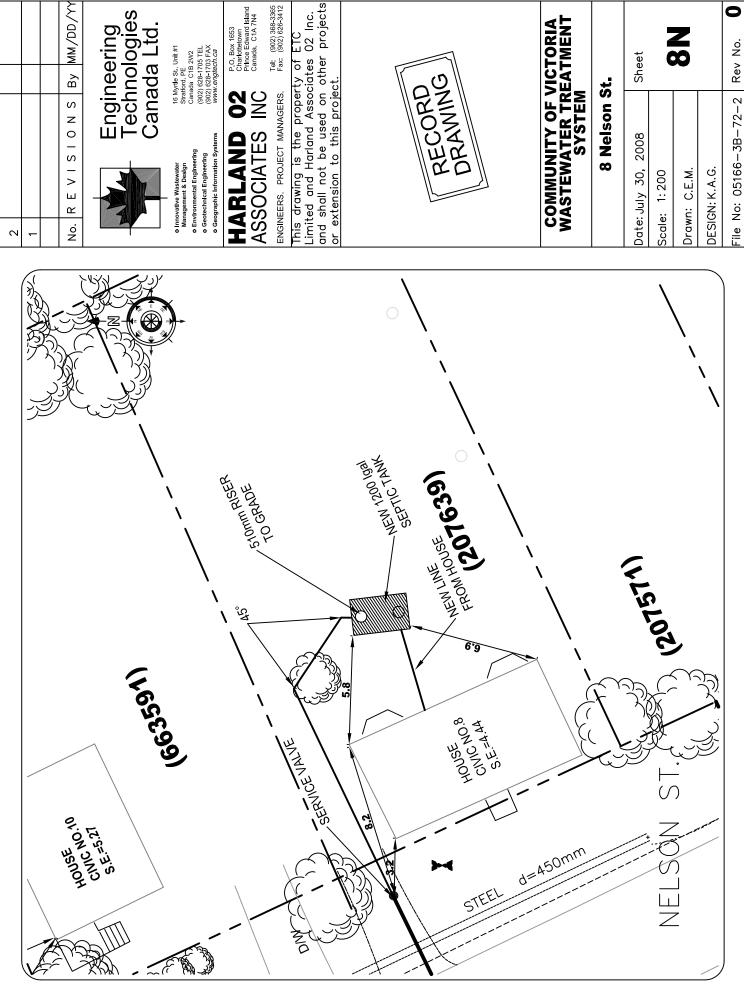
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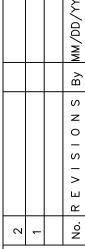
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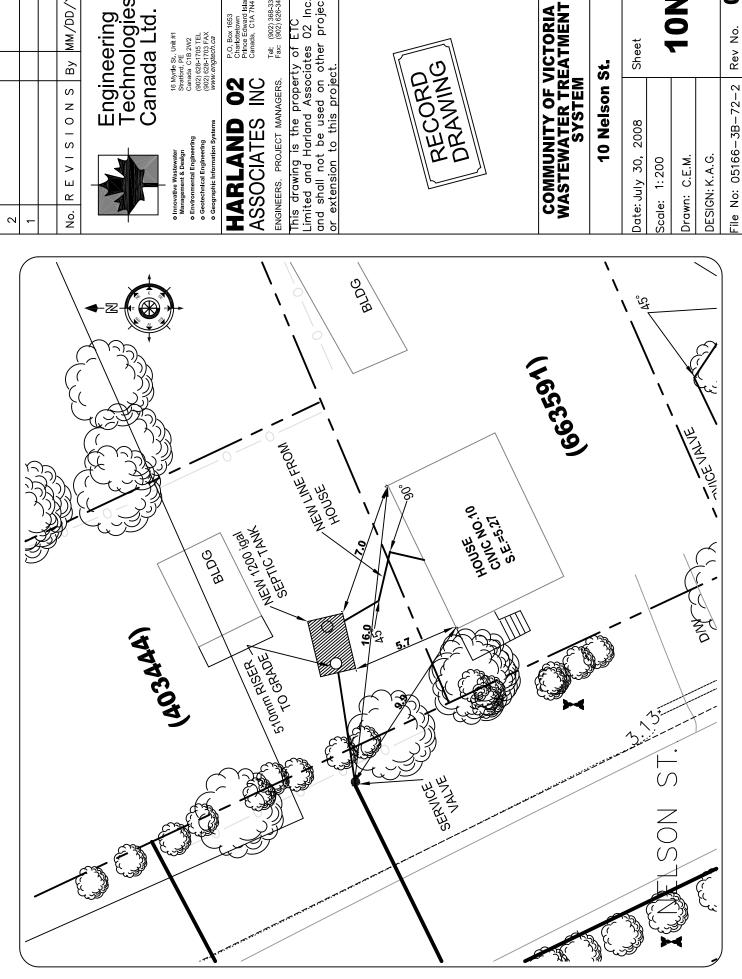
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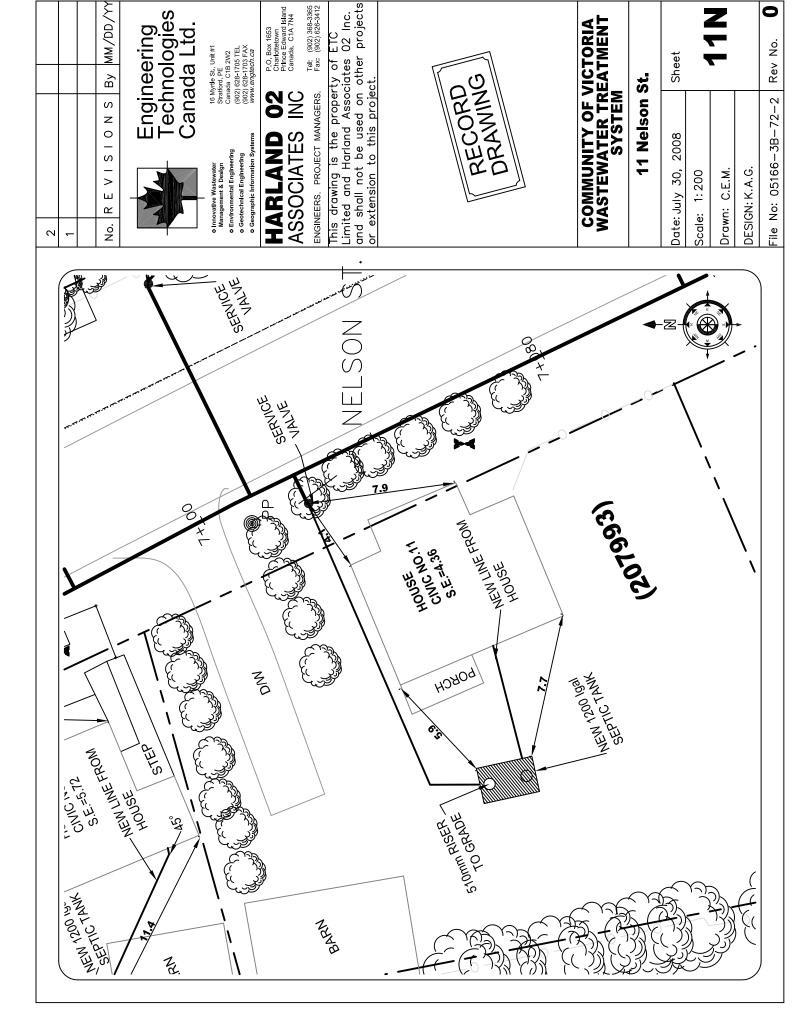
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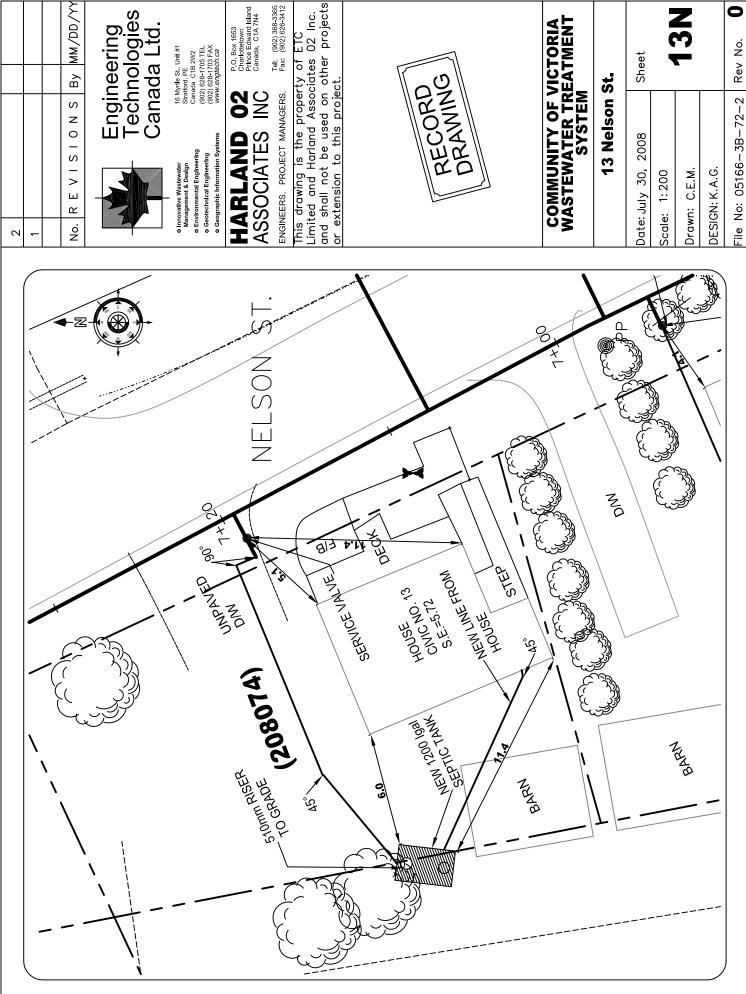
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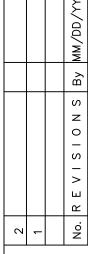
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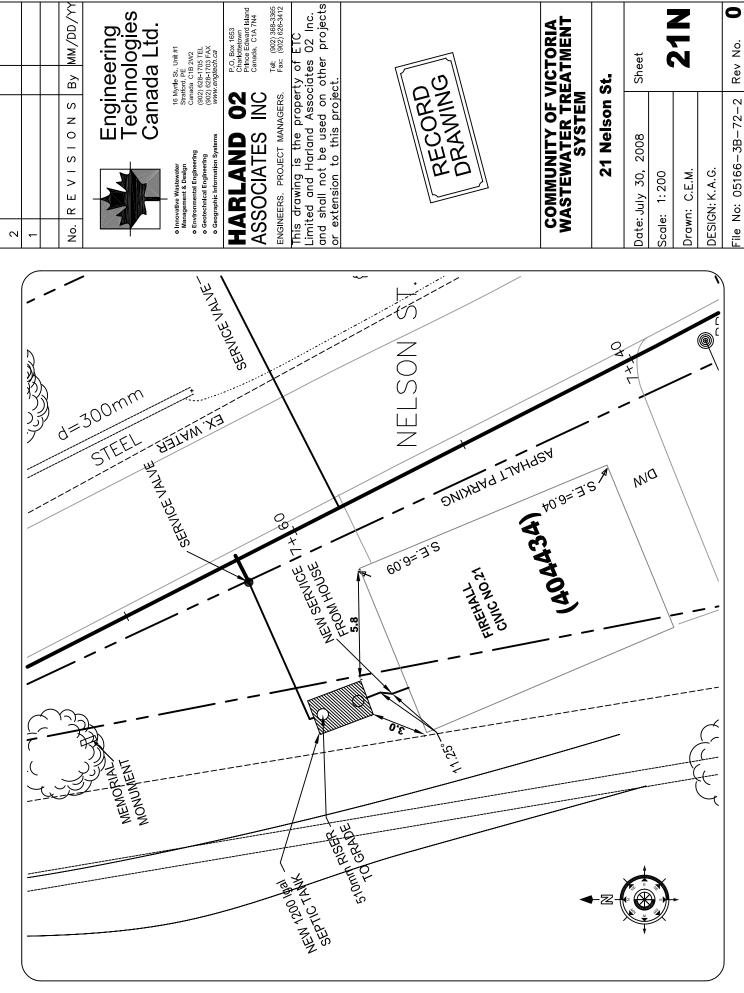
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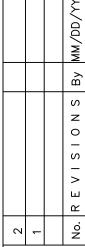
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13 Nelson St.







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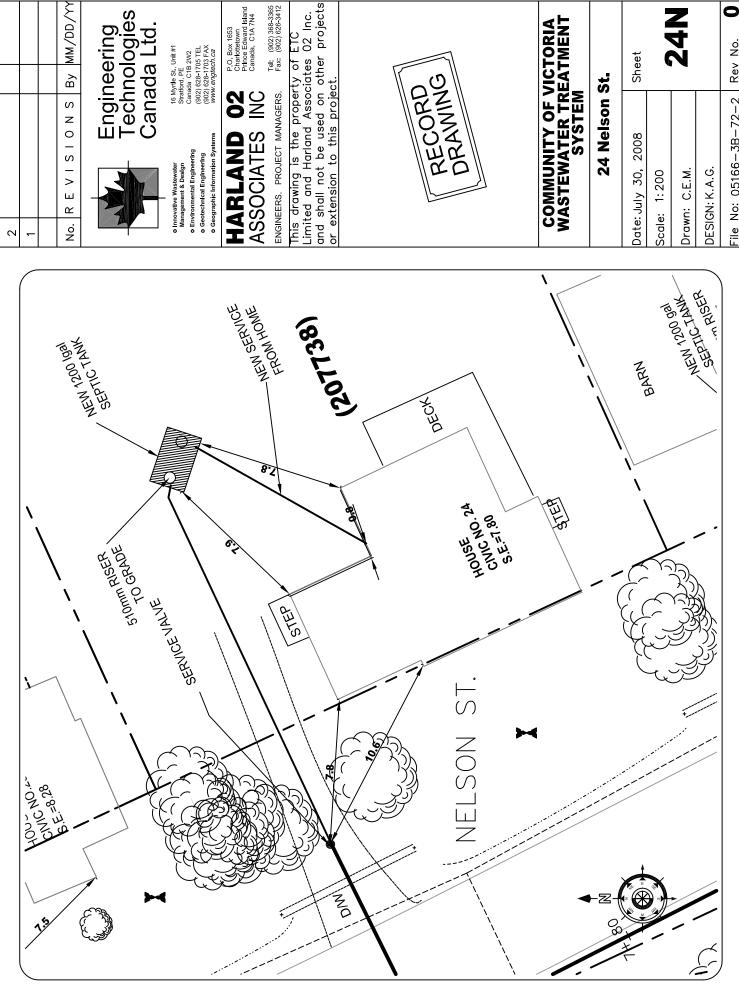
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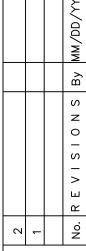
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21 Nelson St.







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COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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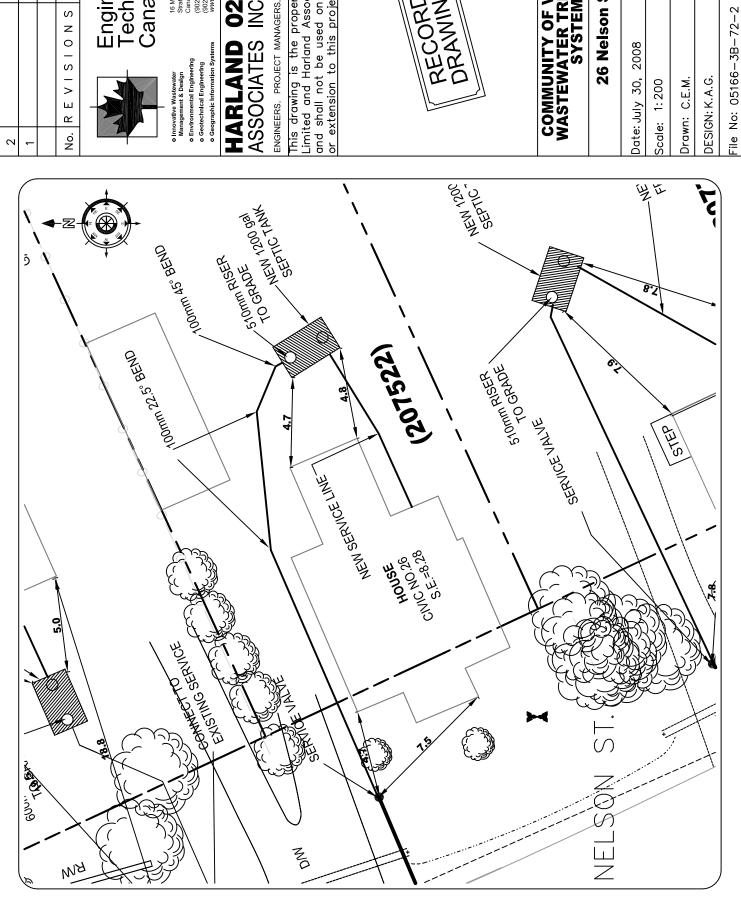
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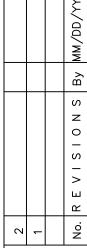
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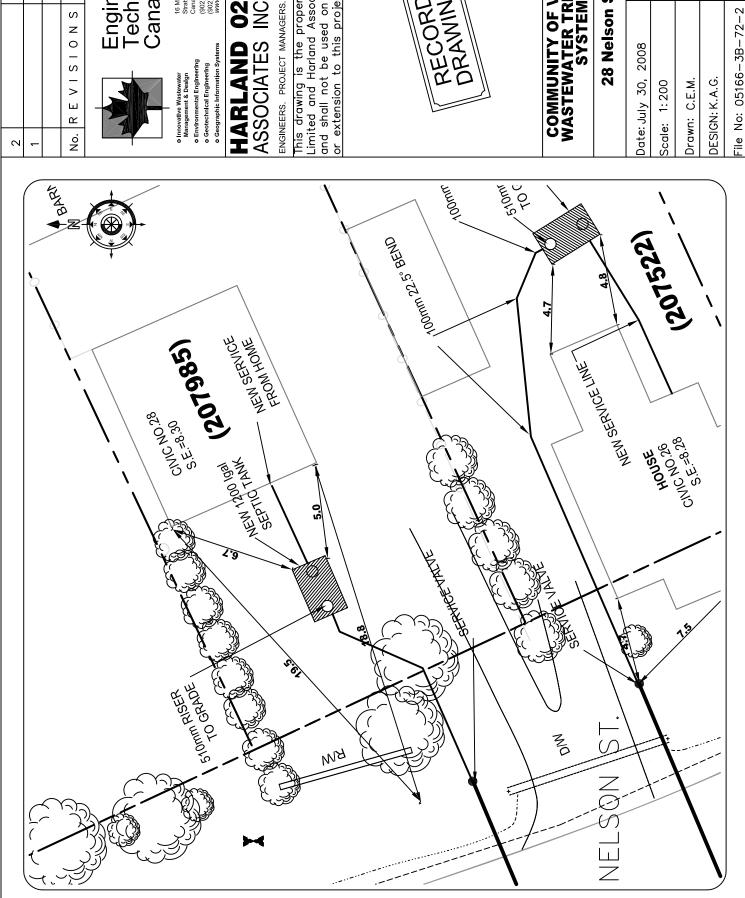
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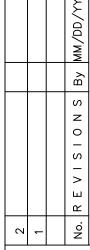
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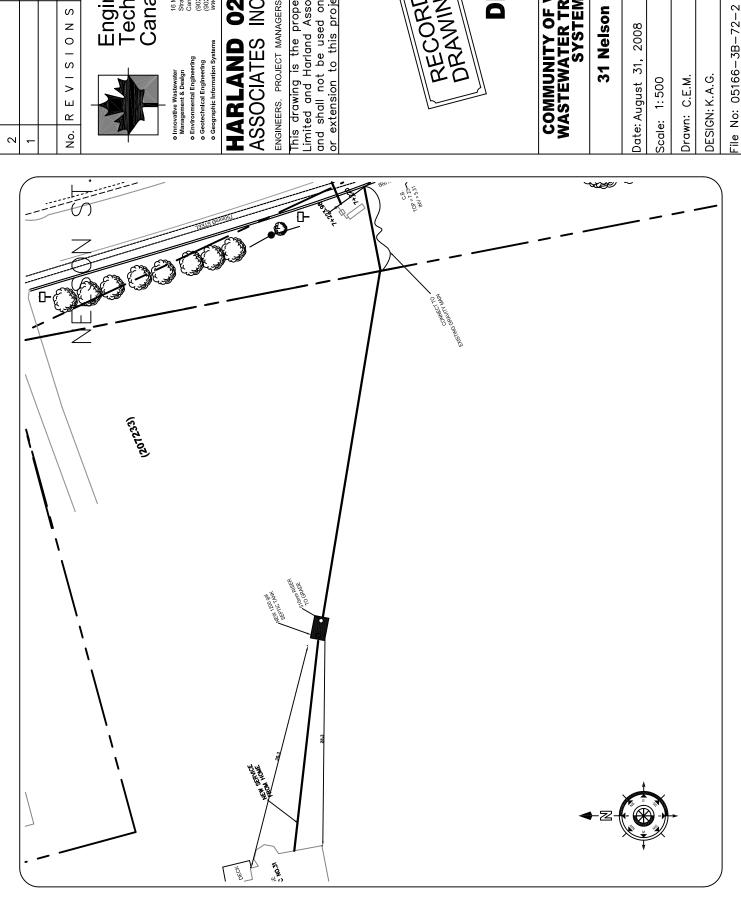


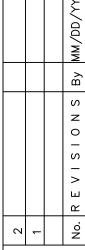
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 Geographic Information Sys Environmental Engineering Geotechnical Engineering Innovative Wastewater Management & Design

**8**2

P.O. Box 1653 Charlottetown Prince Edward Island Canada, C1A 7N4

Tel: (902) 368-3365 Fax: (902) 626-3412

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# COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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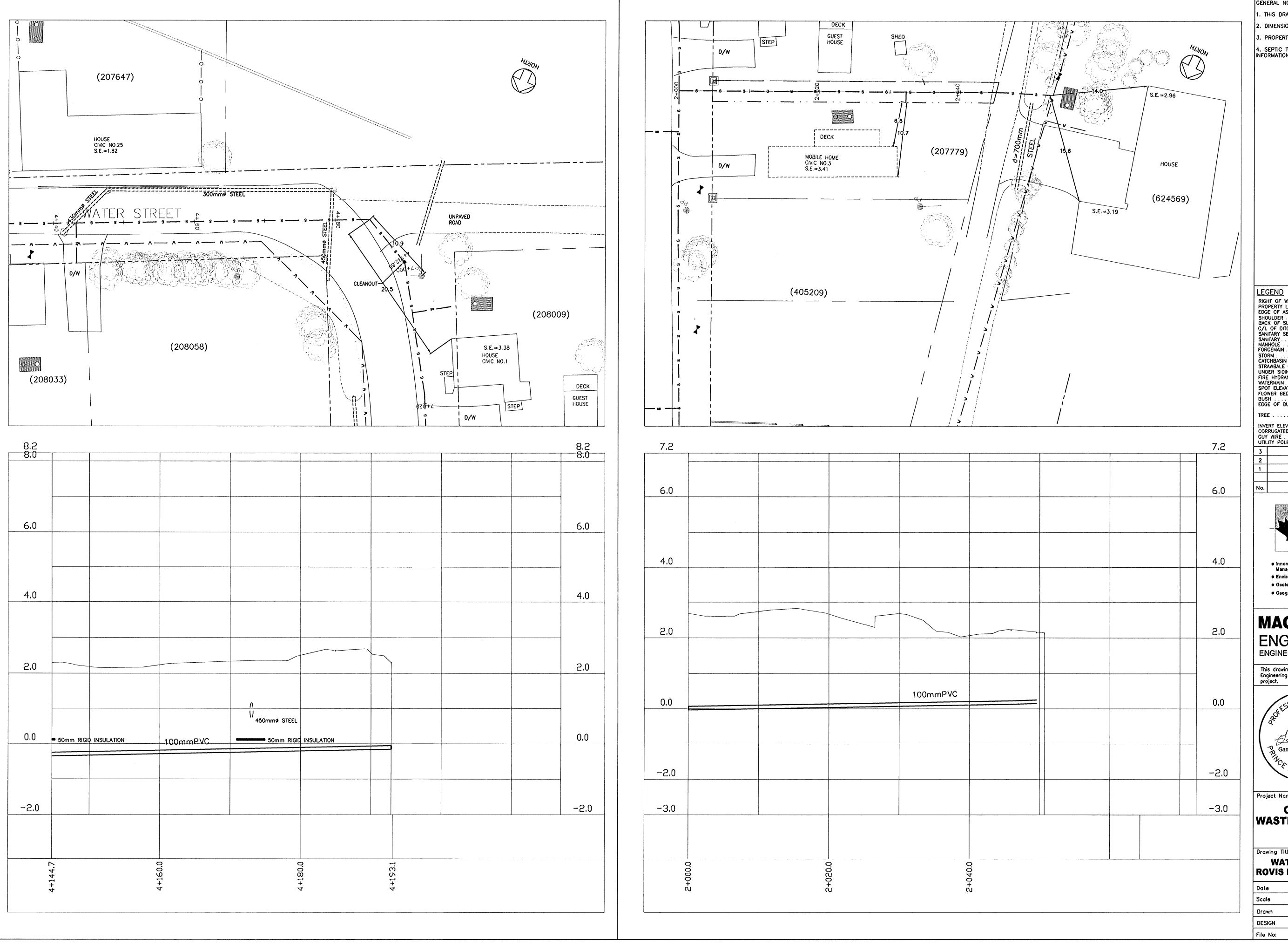
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### Appendix P

**Rovis Beach Lane Record Drawings** 

Victoria Commission Corporation Municipal Servicing Standards



GENERAL NOTES:

. THIS DRAWING IS NOT TO BE SCALED.

2. DIMENSIONS ARE GIVEN IN METRES, UNLESS NOTED.

3. PROPERTY LINES ARE APPROXIMATE ONLY.

4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. SEE UTILITY FOR DETAILED LOCATIONS.

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REVISIONS



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 Management & Design Environmental Engineering Geotechnical Engineering

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ENGINEERING INC

P Queen St
Charlottetown, PE
Canada, C1A 7N4
ENGINEERS · PROJECT MANAGERS

P Queen St
Charlottetown, PE
Canada, C1A 7N4
Tel: (902) 368-3365

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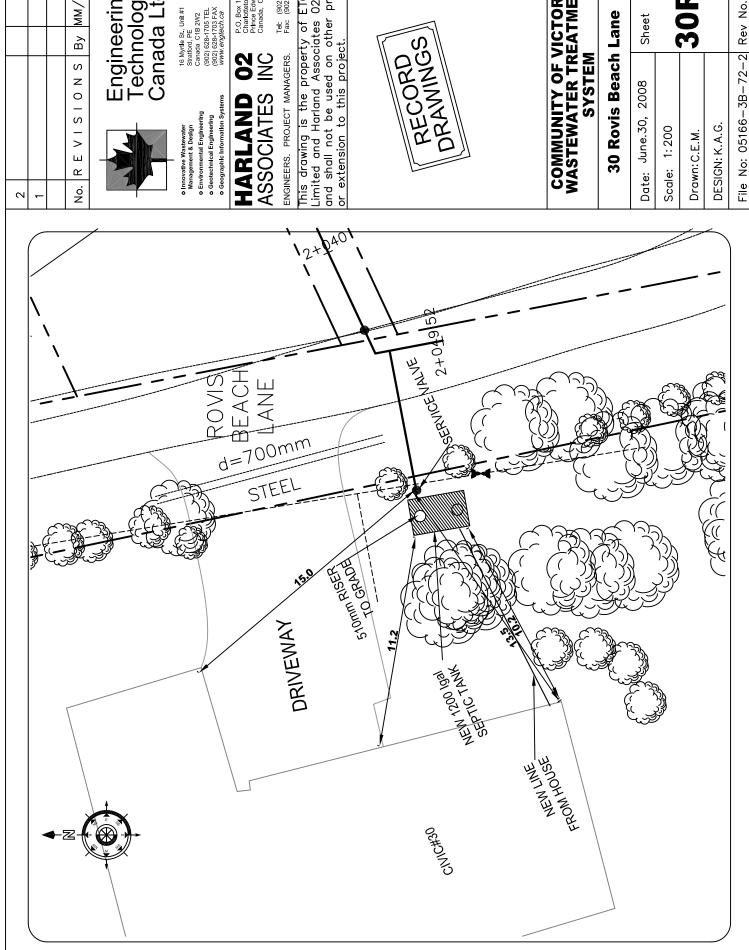


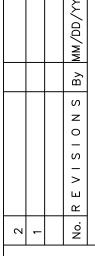
COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

Drawing Title:

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DESIGN	G.M.D	
File No:	RECORD-534_01.12.08	Rev No.







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### COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

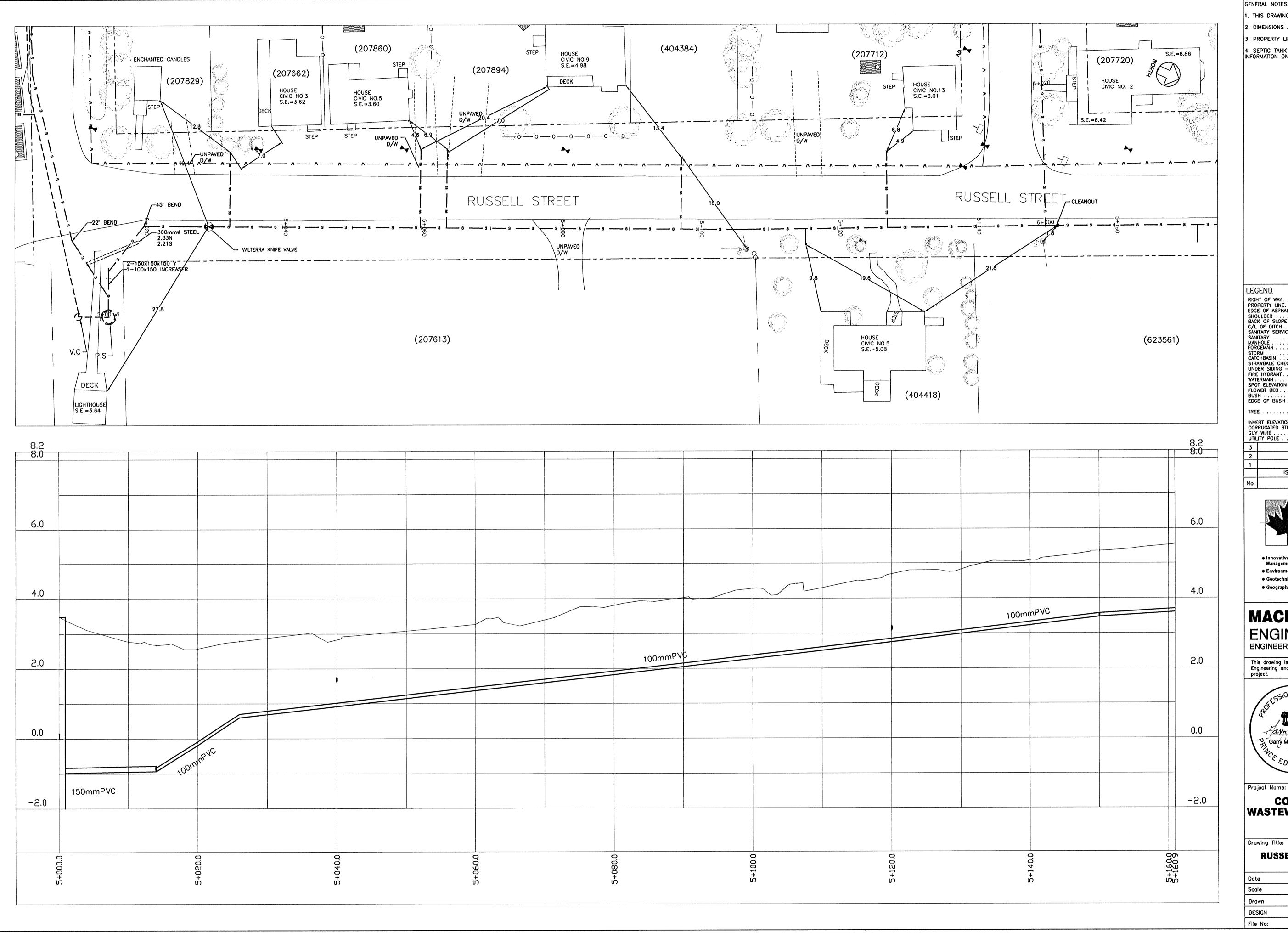
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### Appendix Q

**Russell Street Record Drawings** 

Victoria Commission Corporation Municipal Servicing Standards



GENERAL NOTES: . THIS DRAWING IS NOT TO BE SCALED. . DIMENSIONS ARE GIVEN IN METRES, UNLESS NOTED. , PROPERTY LINES ARE APPROXIMATE ONLY.

4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY, SEE UTILITY FOR DETAILED LOCATIONS.

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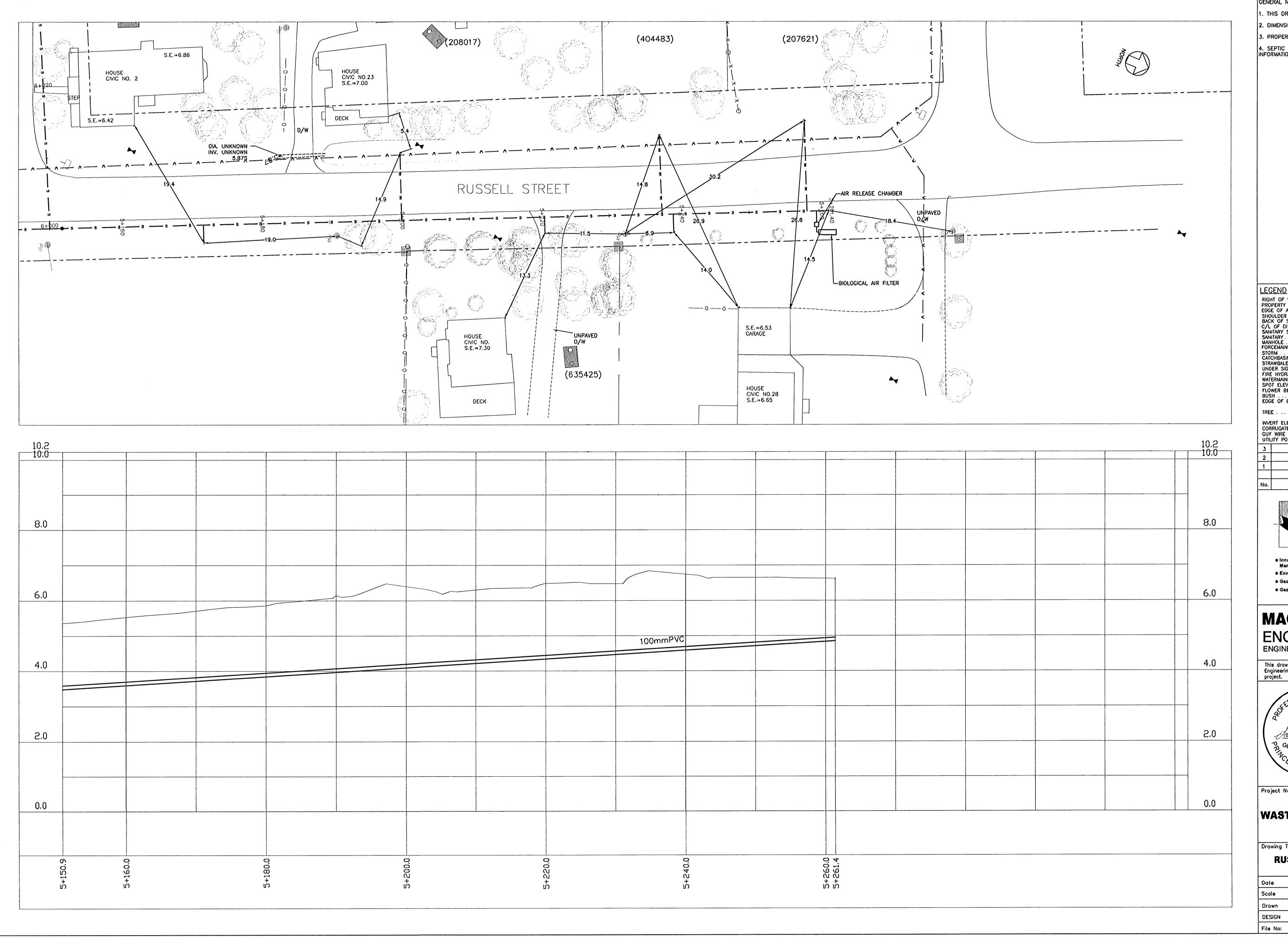
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### COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

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Canada, C1A 7N4
Tel: (902) 368-3365

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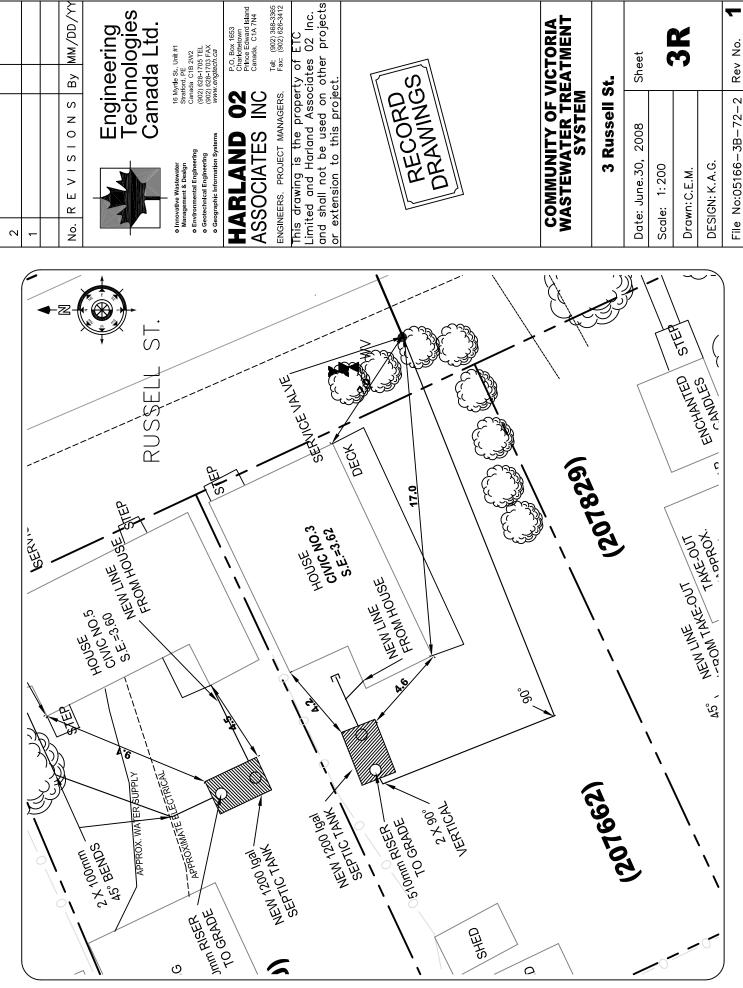
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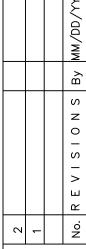
COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

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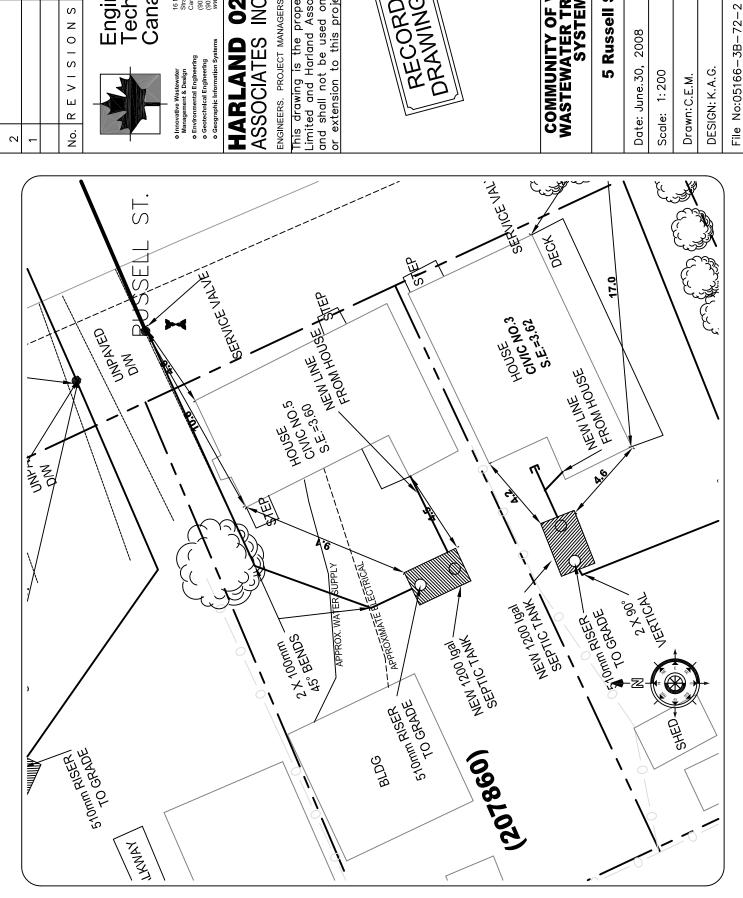
Tel: (902) 368-3365 Fax: (902) 626-3412

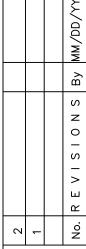
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# COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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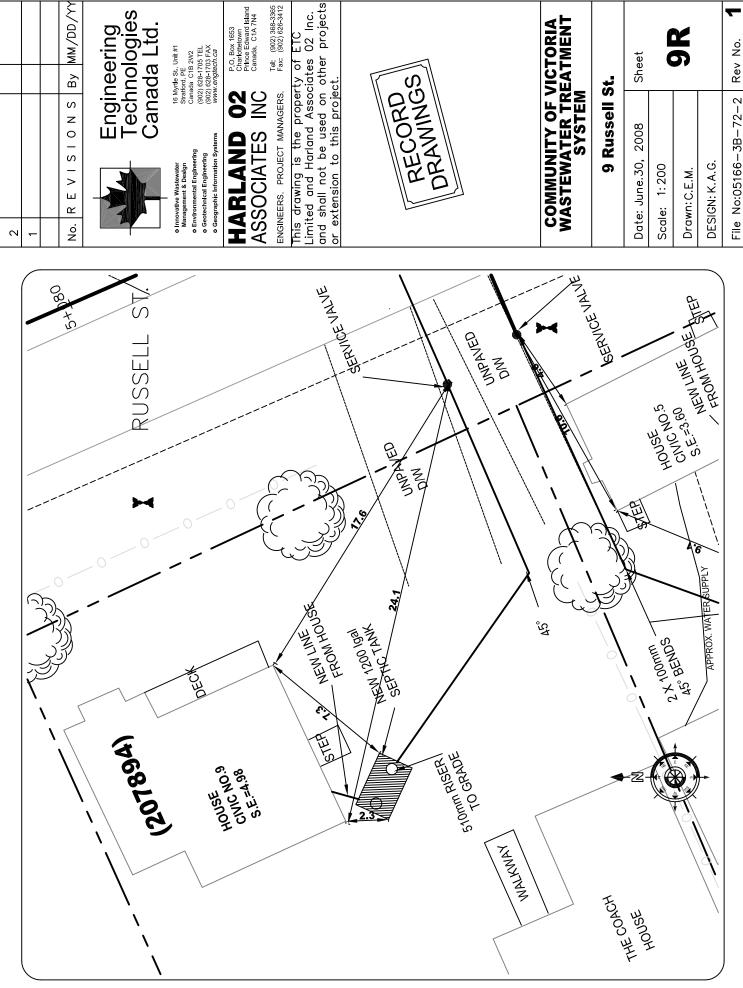
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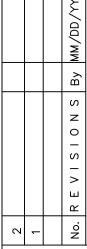


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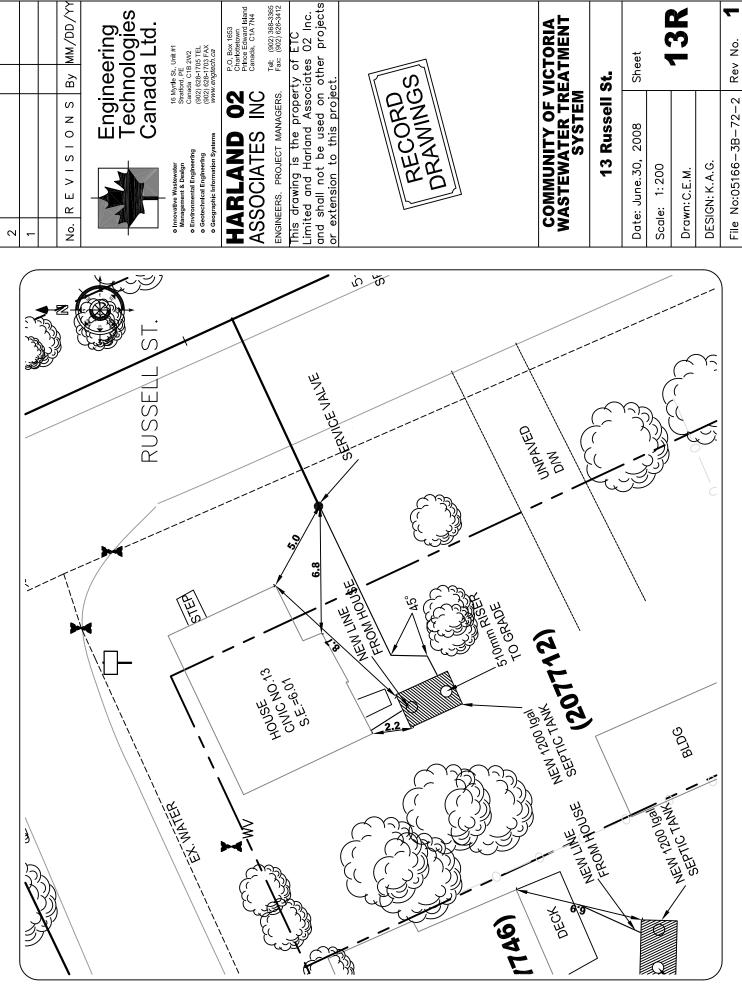
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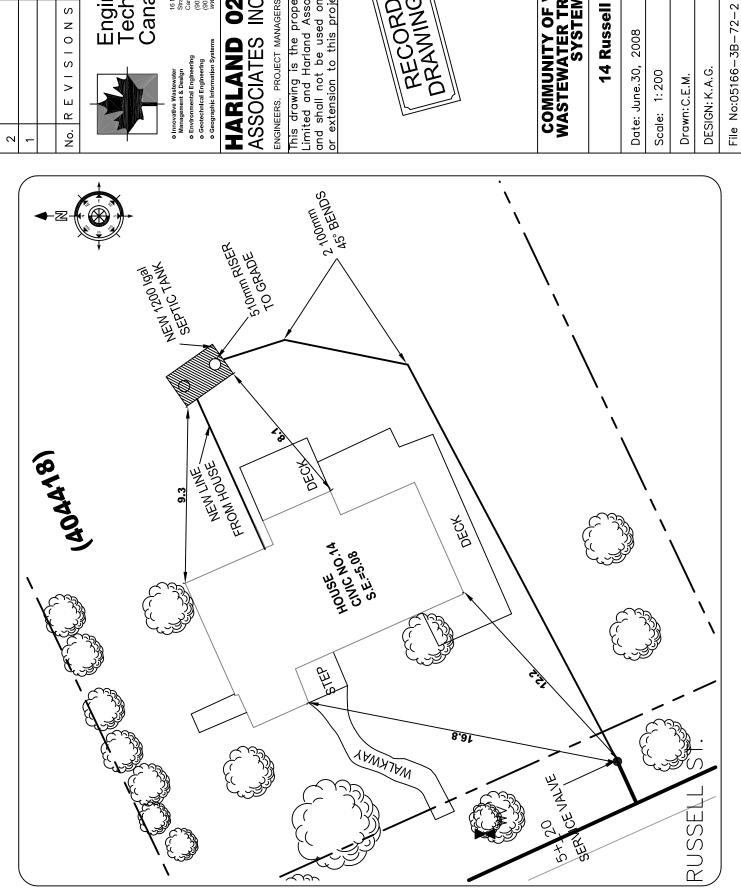
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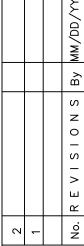
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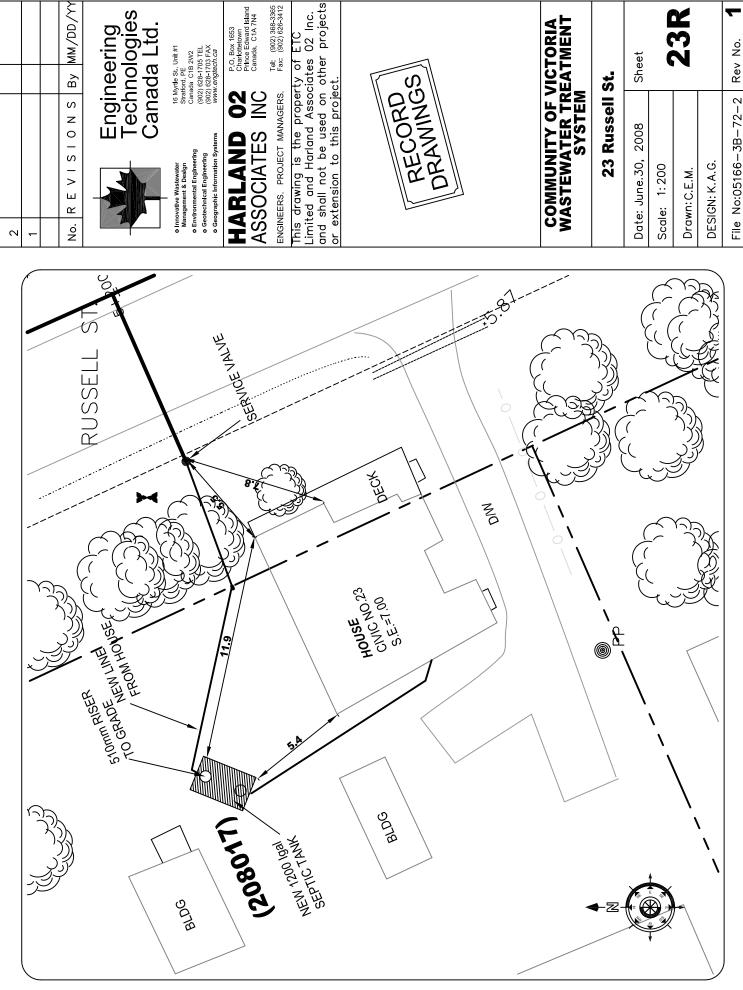
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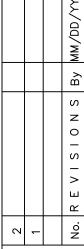


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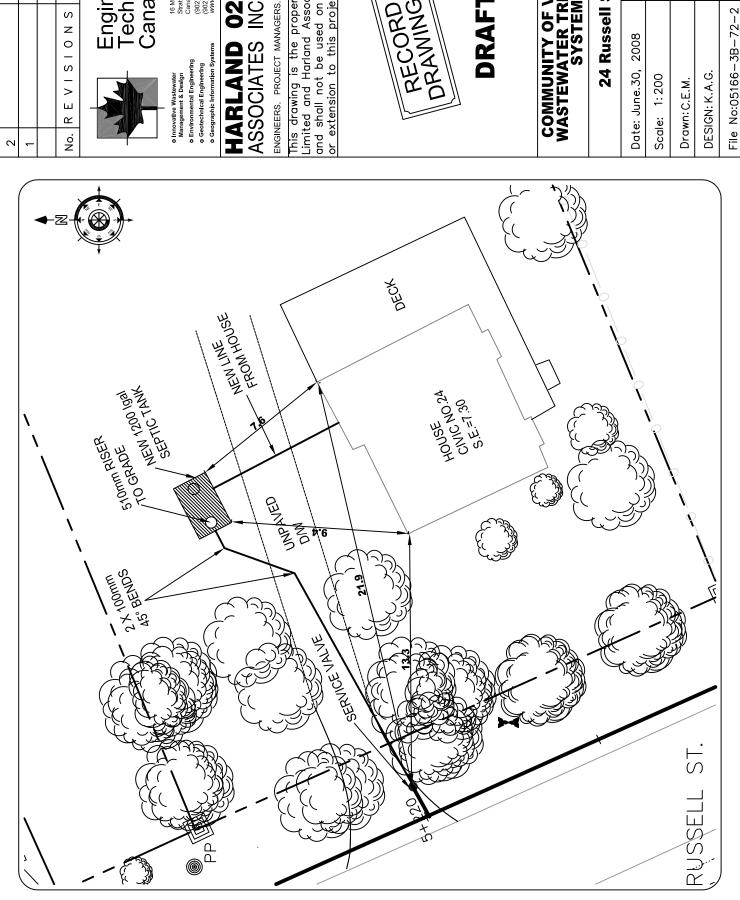
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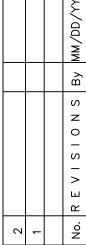
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**8**≥ **ASSOCIATES** 

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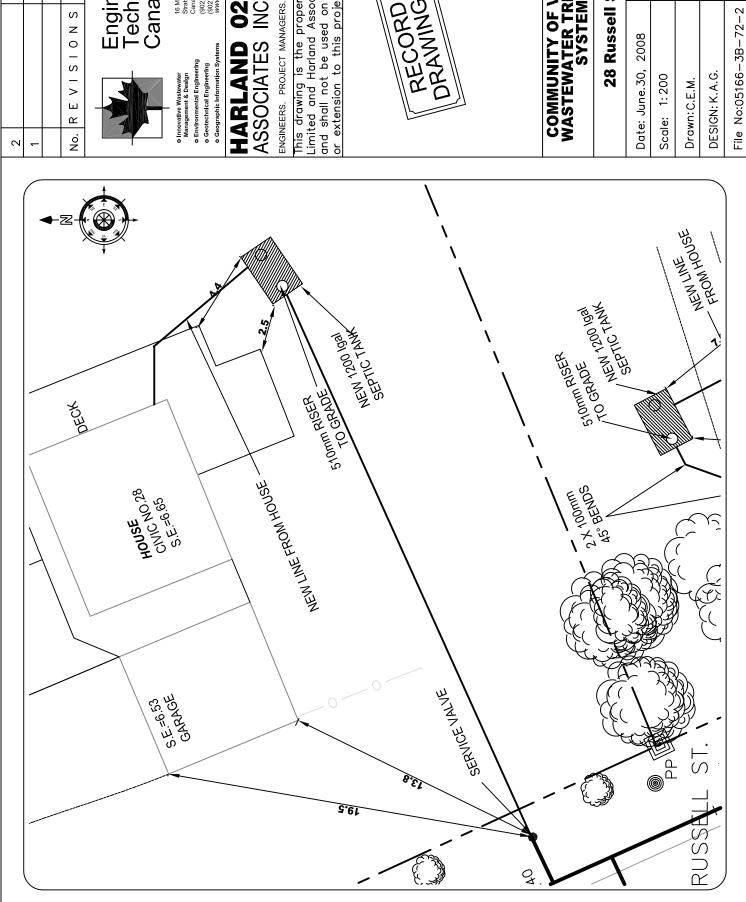
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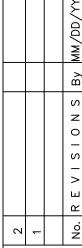


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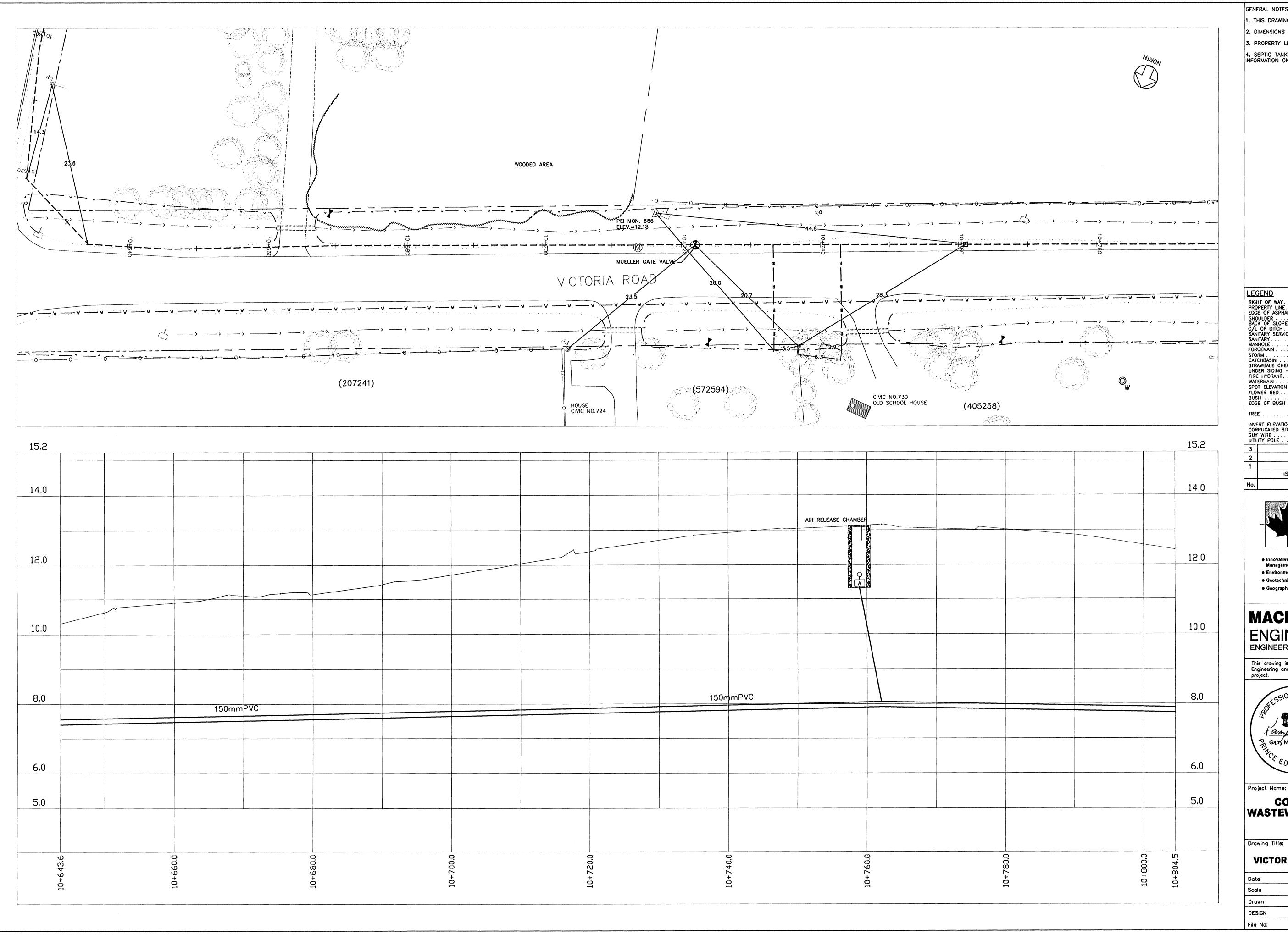
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#### Appendix R

**Victoria Road Street Record Drawings** 

Victoria Commission Corporation Municipal Servicing Standards



GENERAL NOTES: 1. THIS DRAWING IS NOT TO BE SCALED. 2. DIMENSIONS ARE GIVEN IN METRES, UNLESS NOTED. 3. PROPERTY LINES ARE APPROXIMATE ONLY. 4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY, SEE UTILITY FOR DETAILED LOCATIONS.

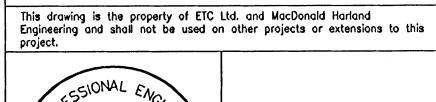
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## Engineering Technologies Canada Ltd.

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### MACDONALD HARLAND ENGINEERING INC ENGINEERS · PROJECT MANAGERS 9 Queen St Charlottetown, PE Canada, C1A 7N4 Tel: (902) 368-3365



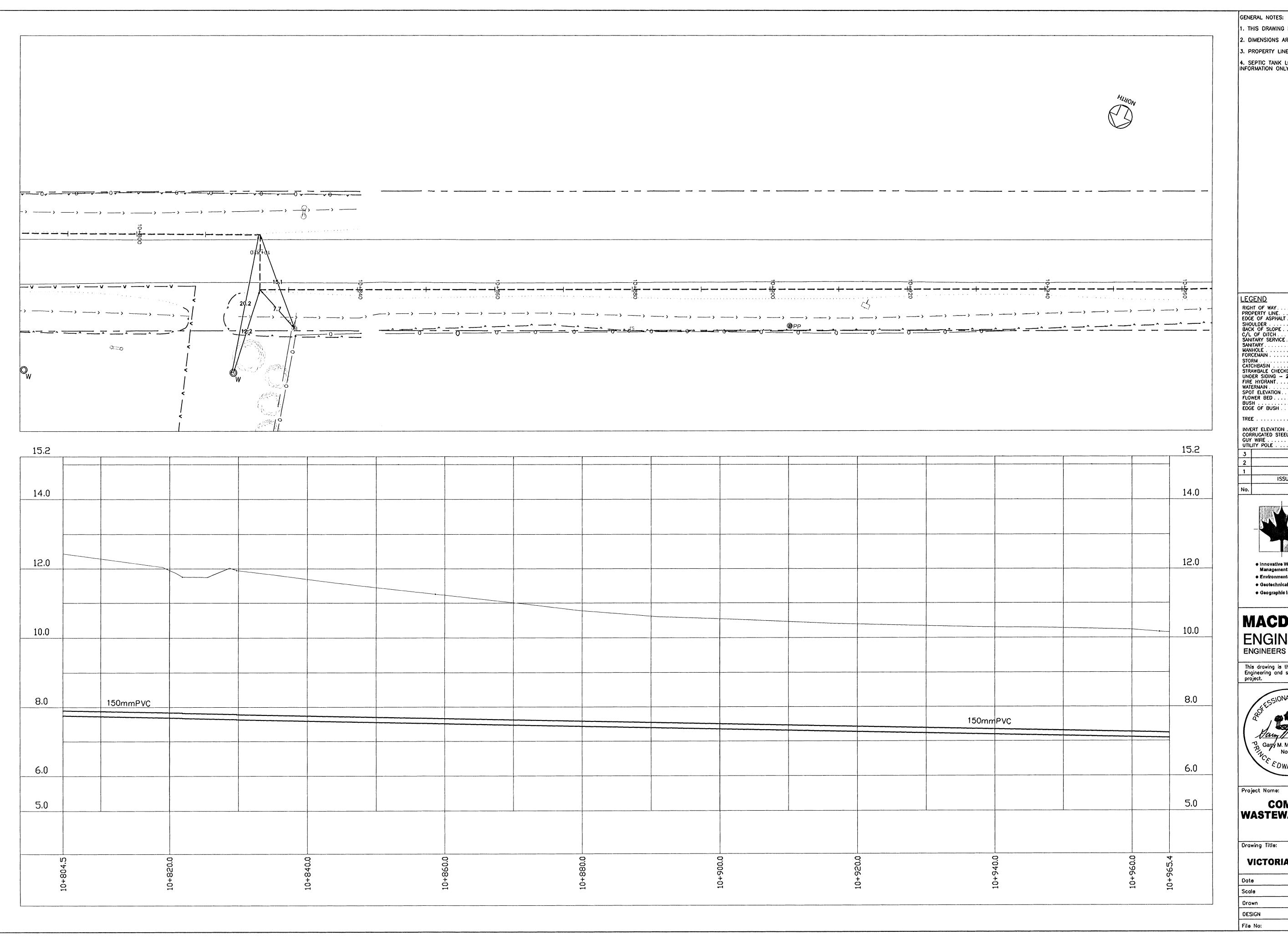


Project Name:

**COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM** VICTORIA, PEI

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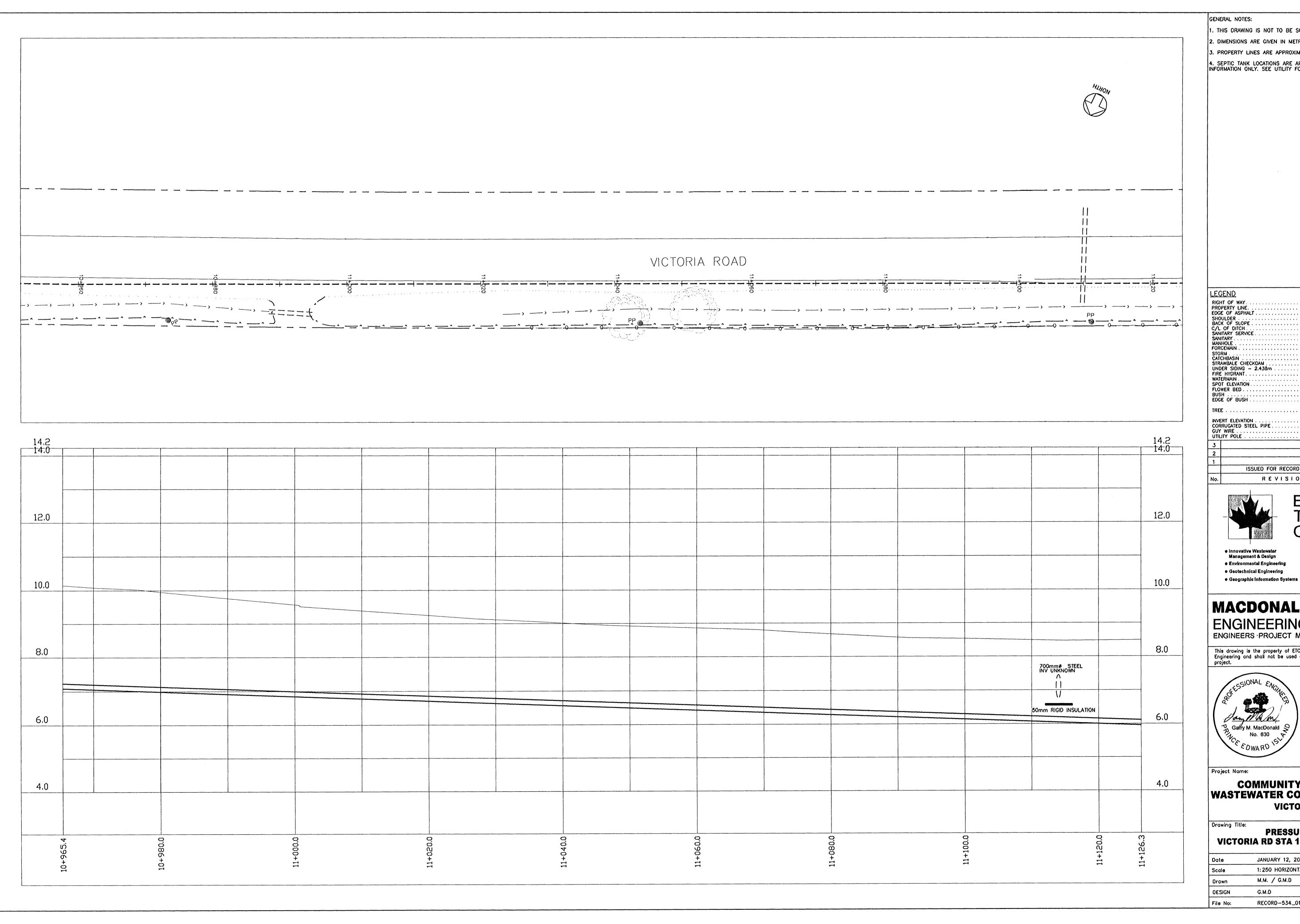


Project Name:

COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

PRESSURE SEWER VICTORIA RD STA 10+794 TO STA 10+965

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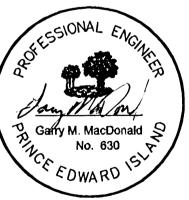
## Engineering Technologies Canada Ltd.

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project.

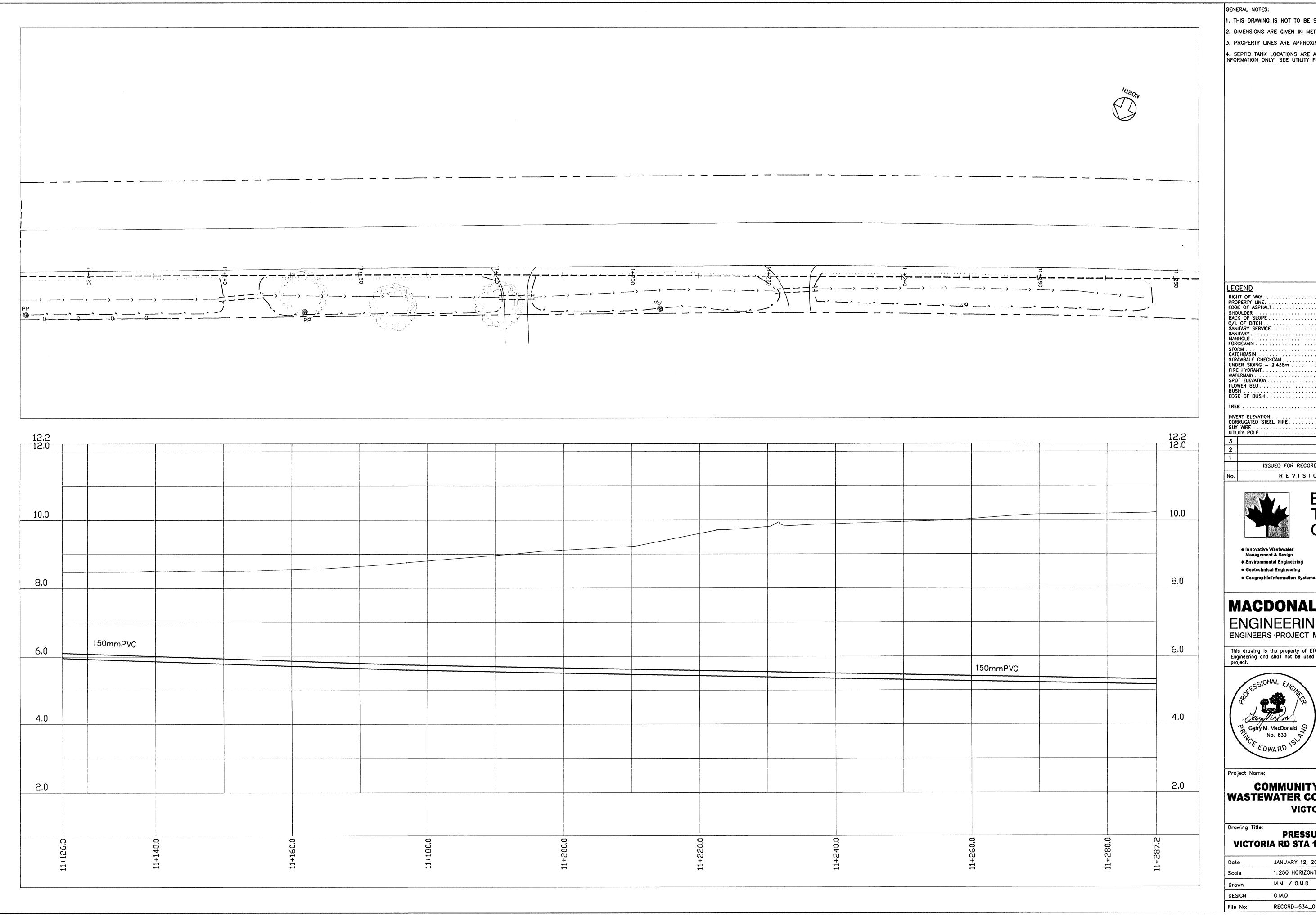


Project Name:

### COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

PRESSURE SEWER VICTORIA RD STA 10+965 TO STA 11+126

Date	JANUARY 12, 2008	Sheet
Scale	1:250 HORIZONTAL, 1:50 VERTICAL	040
Drawn	M.M. / G.M.D	C18
DESIGN	G.M.D	
File No:	RECORD-534_01.12.08	Rev No.



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- 3. PROPERTY LINES ARE APPROXIMATE ONLY.
- 4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. SEE UTILITY FOR DETAILED LOCATIONS.

RIGHT OF WAY. PROPERTY LINE. . . EDGE OF ASPHALT . EDGE OF ASPHALI
SHOULDER
BACK OF SLOPE
C/L OF DITCH
SANITARY SERVICE
SANITARY
MANHOLE
FORCEMAIN
STORM FORCEMAIN .
STORM .
CATCHBASIN .
STRAWBALE CHECKDAM .
UNDER SIDING — 2.438m .
FIRE HYDRANT .
WATERMAIN .
SPOT ELEVATION .
FLOWER BED .
BUSH .
EDGE OF BUSH . ----...... 

> 01/14/08 ISSUED FOR RECORD DRAWNGS REVISIONS



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MACDONALD HARLAND

ENGINEERING INC

ENGINEERS · PROJECT MANAGERS

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Charlottetown, PE
Canada, C1A 7N4
Tel: (902) 368-3365

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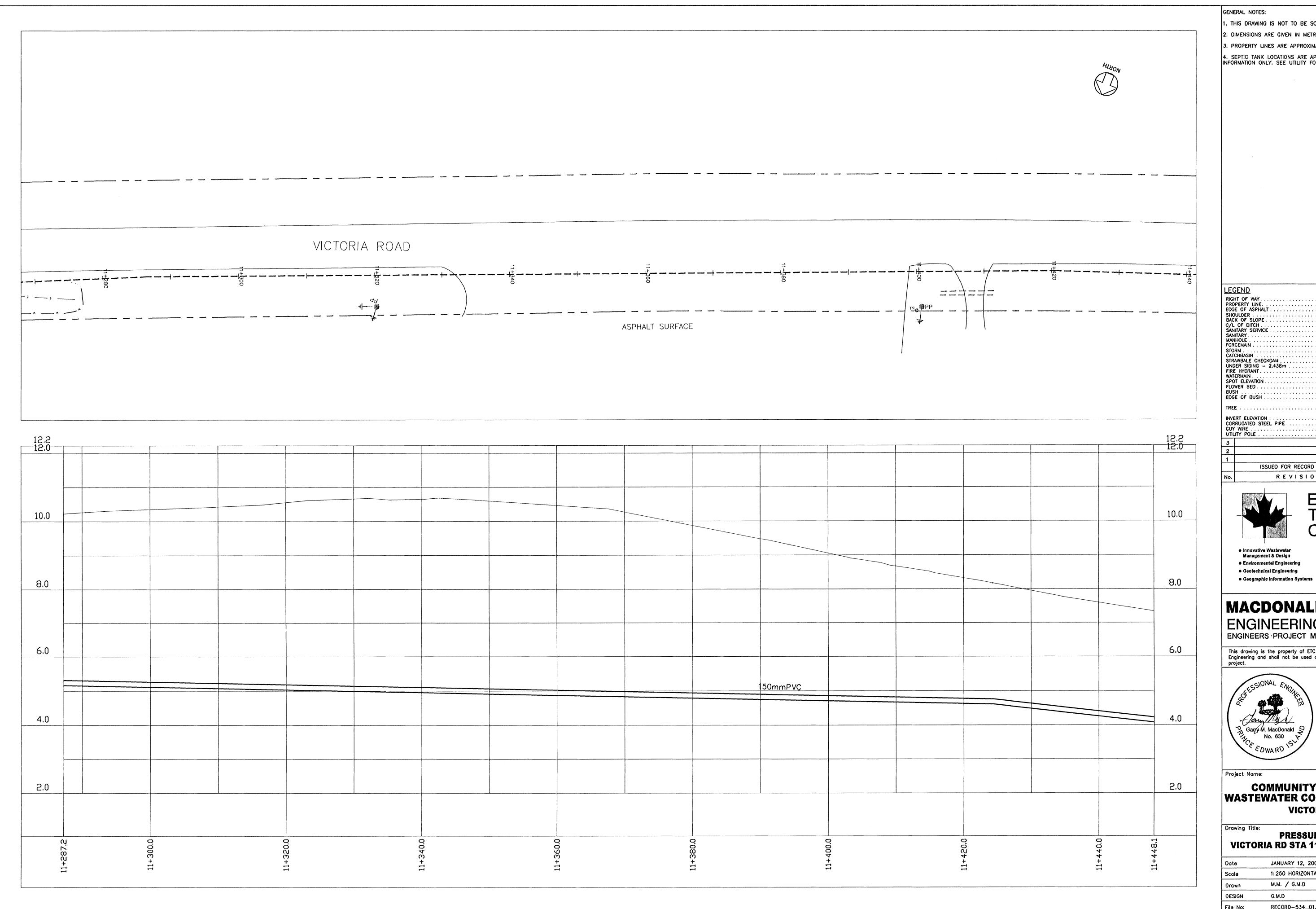


Project Name:

COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

PRESSURE SEWER VICTORIA RD STA 11+126 TO STA 11+287

JANUARY 12, 2008 Sheet 1:250 HORIZONTAL, 1:50 VERTICAL C19 M.M. / G.M.D DESIGN G.M.D Rev No. File No: RECORD-534\_01.12.08



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4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. SEE UTILITY FOR DETAILED LOCATIONS.

	75,110			
	HT OF WAY			
	PERTY LINE			
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	K OF SLOPE		• —	•
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MAN	HOLE	●MH #		
	CEMAIN			
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	DER SIDING - 2.438m	Ψ		
	HYDRANT	<b>—</b> FH		
	ERMAIN	vv		- V
	T ELEVATION	+38.60		
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<sub>         </sub>	COT ELOVATION	23.6		
	ERT ELEVATION	CSP		
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No.	REVISION	S	Ву	MM/DD/Y



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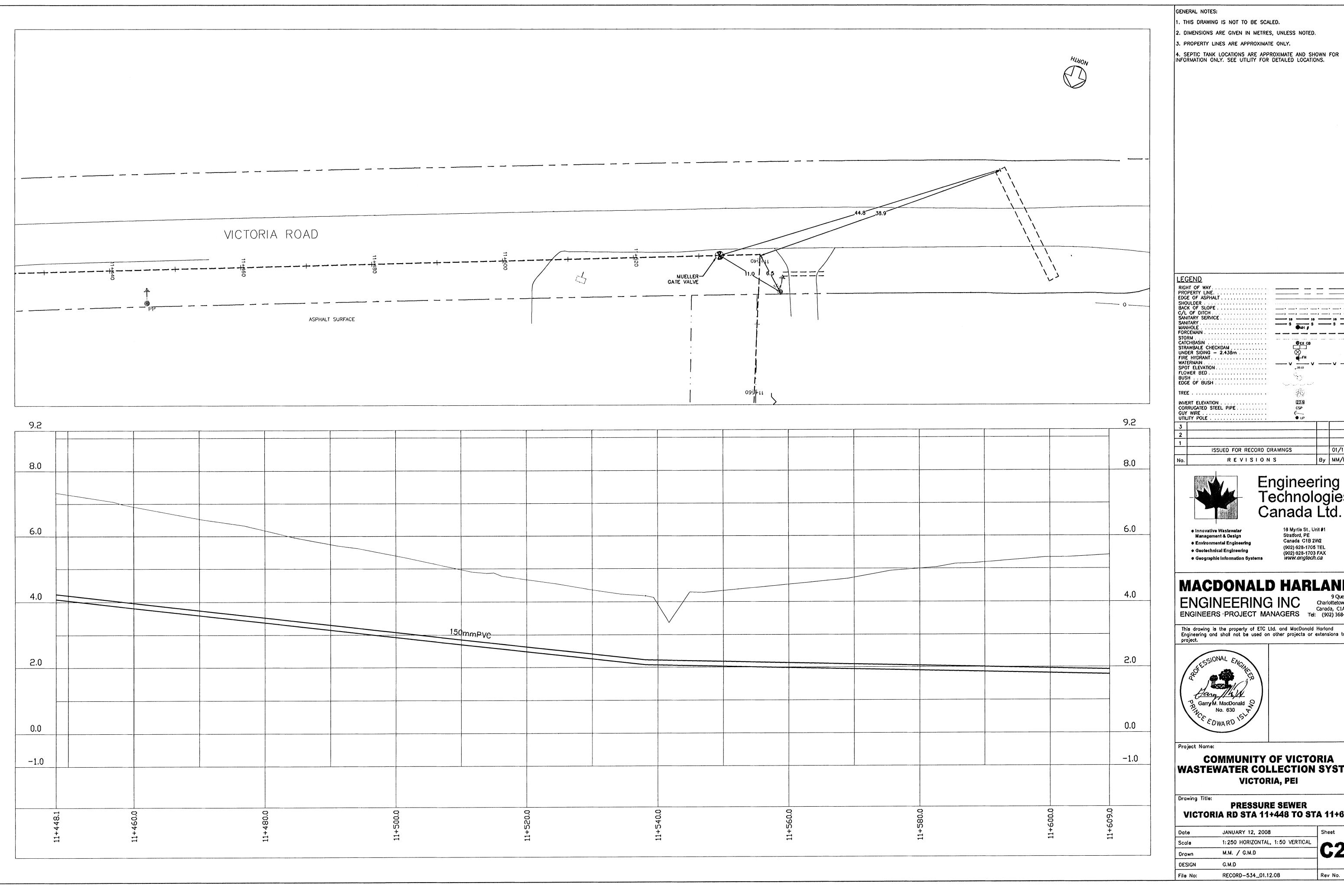
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COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

PRESSURE SEWER
VICTORIA RD STA 11+287 TO STA 11+448

Date	JANUARY 12, 2008	Sheet
Scale	1:250 HORIZONTAL, 1:50 VERTICAL	000
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DESIGN	G.M.D	
File No:	RECORD-534_01.12.08	Rev No.



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RIGHT OF WAY.... PROPERTY LINE... EDGE OF ASPHALT. EDGE OF ASPHALT
SHOULDER
BACK OF SLOPE
C/L OF DITCH
SANITARY SERVICE
SANITARY
MANHOLE
FORCEMAIN
STORM
CATCHBASIN
STRAWBALE CHECKDAM
UNDER SIDING — 2.438m
FIRE HYDRANT
WATERMAIN
SPOT ELEVATION
FLOWER BED
BUSH
BUSH BUSH .....EDGE OF BUSH ..... 01/14/08 ISSUED FOR RECORD DRAWNGS REVISIONS By MM/DD/YY



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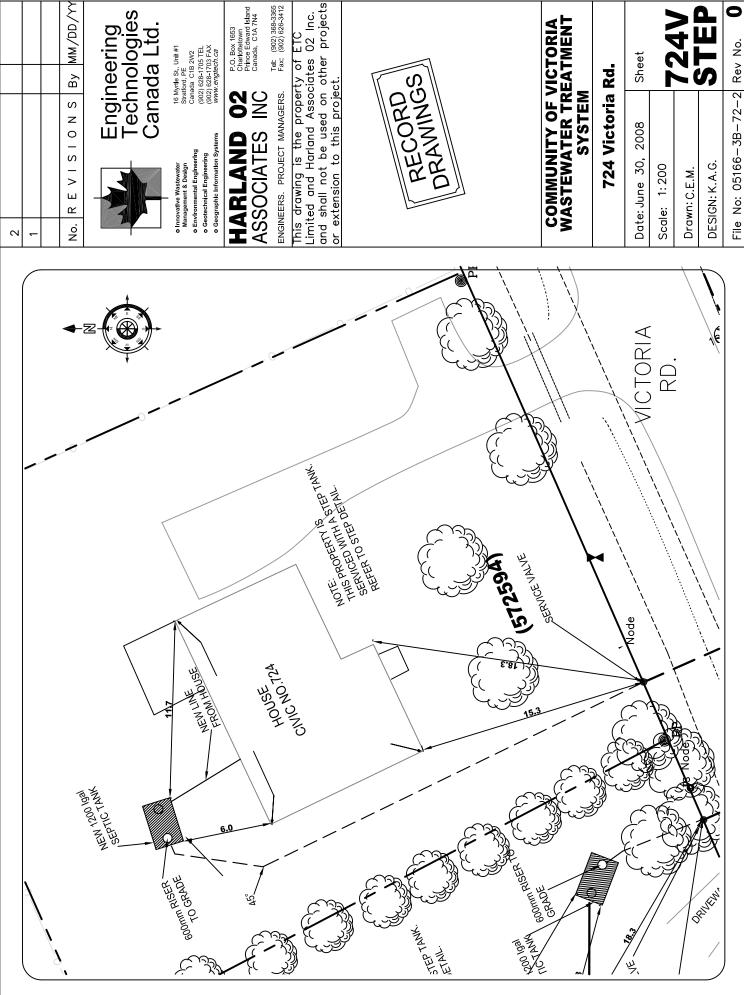
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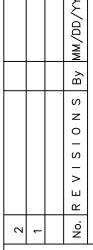


COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

PRESSURE SEWER
VICTORIA RD STA 11+448 TO STA 11+609

Date	JANUARY 12, 2008	Sheet
Scale	1:250 HORIZONTAL, 1:50 VERTICAL	C21
Drawn	M.M. / G.M.D	GZ1
DESIGN	G.M.D	
File No:	RECORD-534_01.12.08	Rev No.







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Tel: (902) 368-3365 Fax: (902) 626-3412

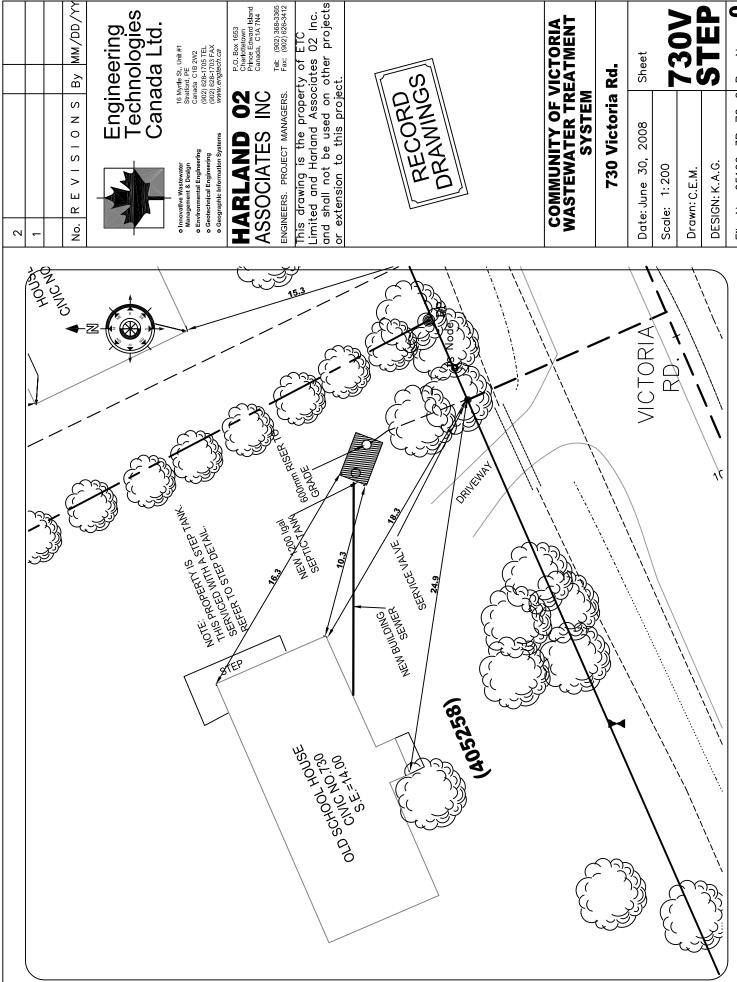
DRAWINGS

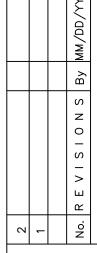
### COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

724 Victoria Rd.

Sheet	15/1	744	コープ
Date: June 30, 2008	Scale: 1:200	Drawn: C.E.M.	DESIGN: K.A.G.

0







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Tel: (902) 368-3365 Fax: (902) 626-3412

DRAWINGS

730 Victoria Rd. SYSTEM

Sheet Date: June 30, 2008 Scale: 1:200 Drawn: C.E.M.

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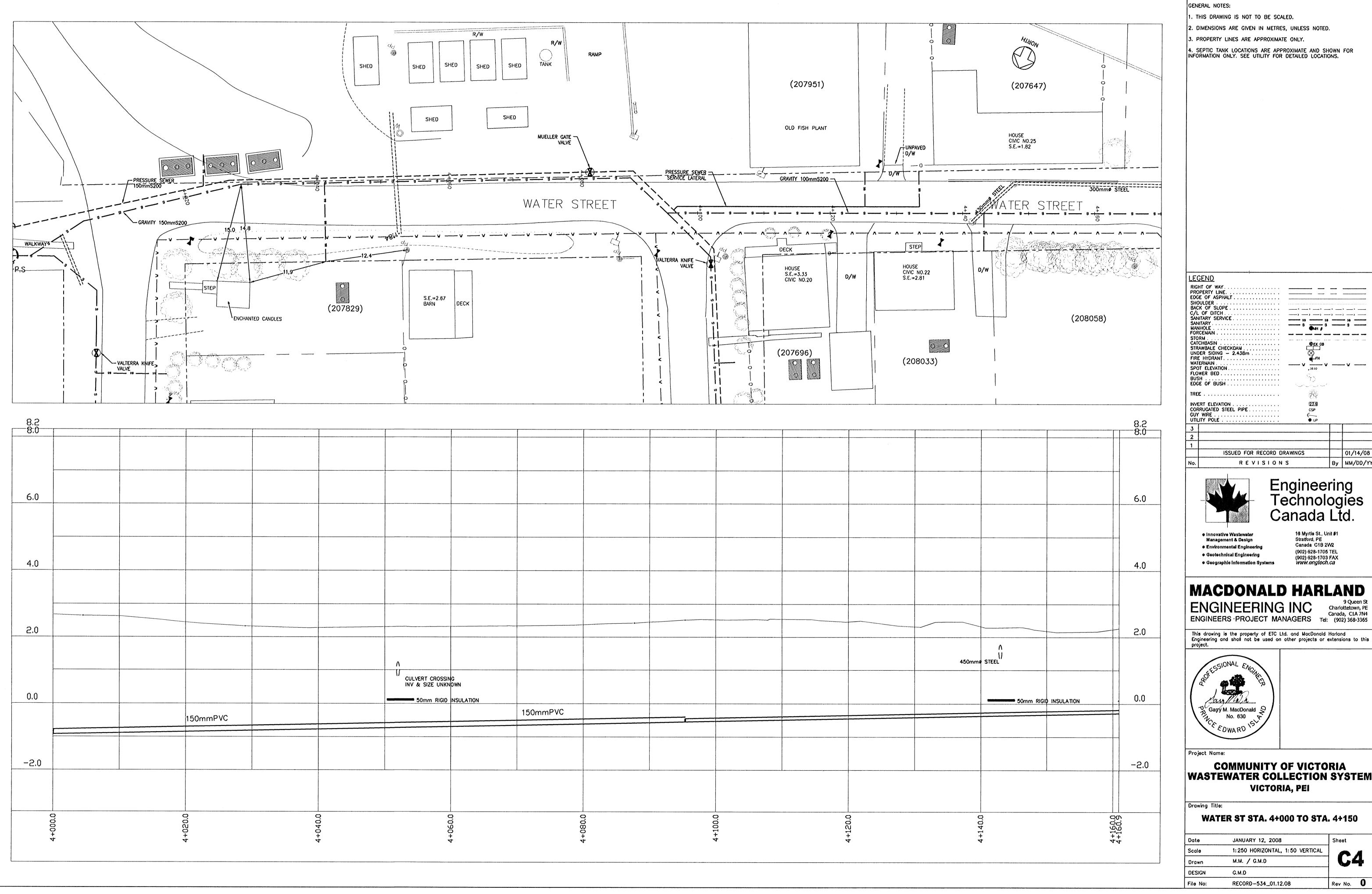
File No: 05166-3B-72-2 Rev No.

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#### Appendix S

**Water Street Record Drawings** 

Victoria Commission Corporation Municipal Servicing Standards



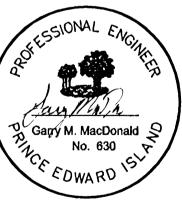
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UNDER SIDING — 2.438m FIRE HYDRANT... WATERMAIN... ISSUED FOR RECORD DRAWINGS 01/14/08

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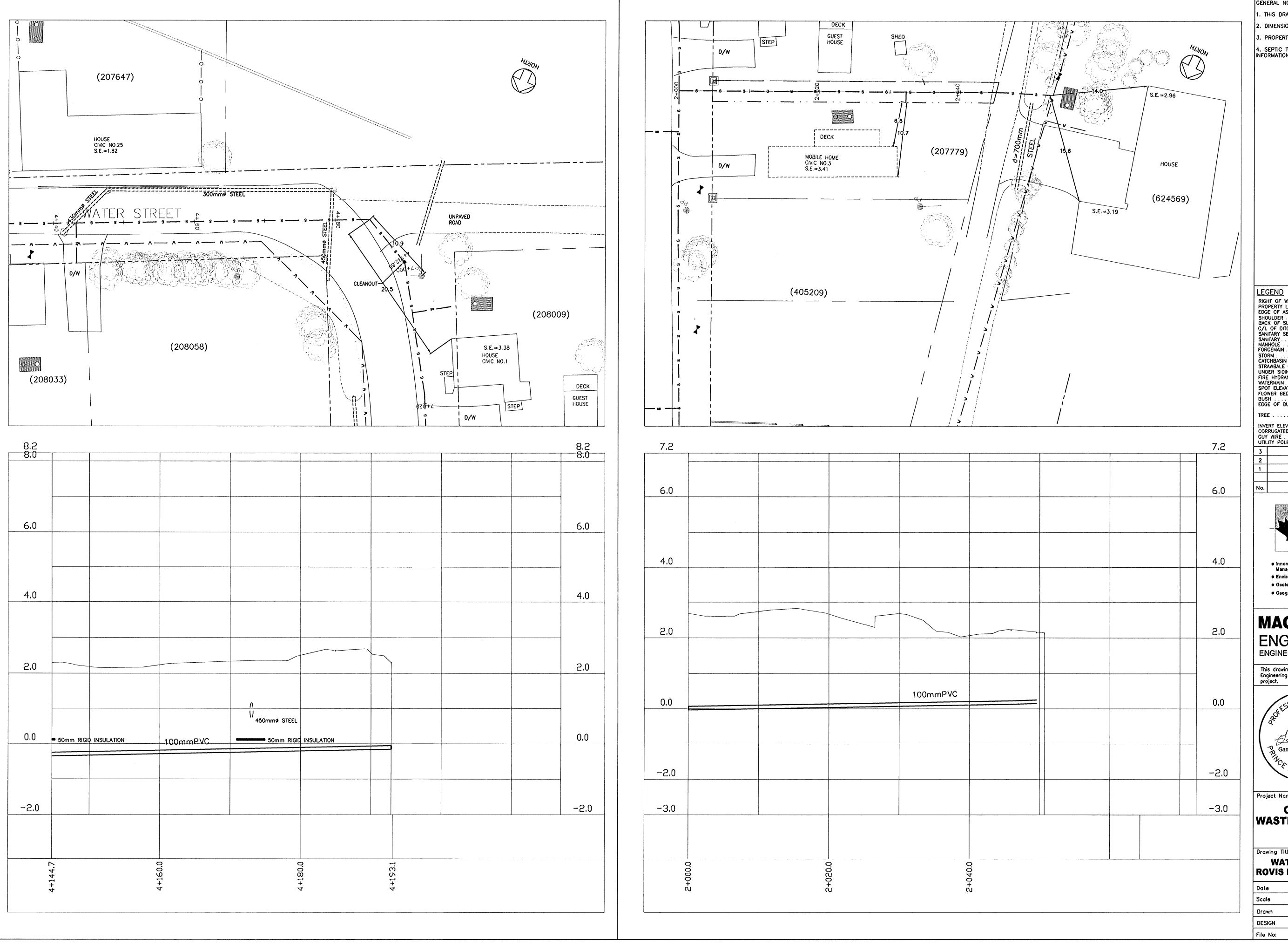
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#### **COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM** VICTORIA, PEI

**WATER ST STA. 4+000 TO STA. 4+150** 

Date	JANUARY 12, 2008	Sheet
Scale	1:250 HORIZONTAL, 1:50 VERTICAL	
Drawn	M.M. / G.M.D	64
DESIGN	G.M.D	
File No:	RECORD-534_01.12.08	Rev No. 0



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3. PROPERTY LINES ARE APPROXIMATE ONLY.

4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. SEE UTILITY FOR DETAILED LOCATIONS.

RIGHT OF WAY. PROPERTY LINE. . . EDGE OF ASPHALT . 3 3 3 3 3 WATERMAIN
SPOT ELEVATION
FLOWER BED
BUSH
EDGE OF BUSH ISSUED FOR RECORD DRAWNGS 01/14/08

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By MM/DD/YY

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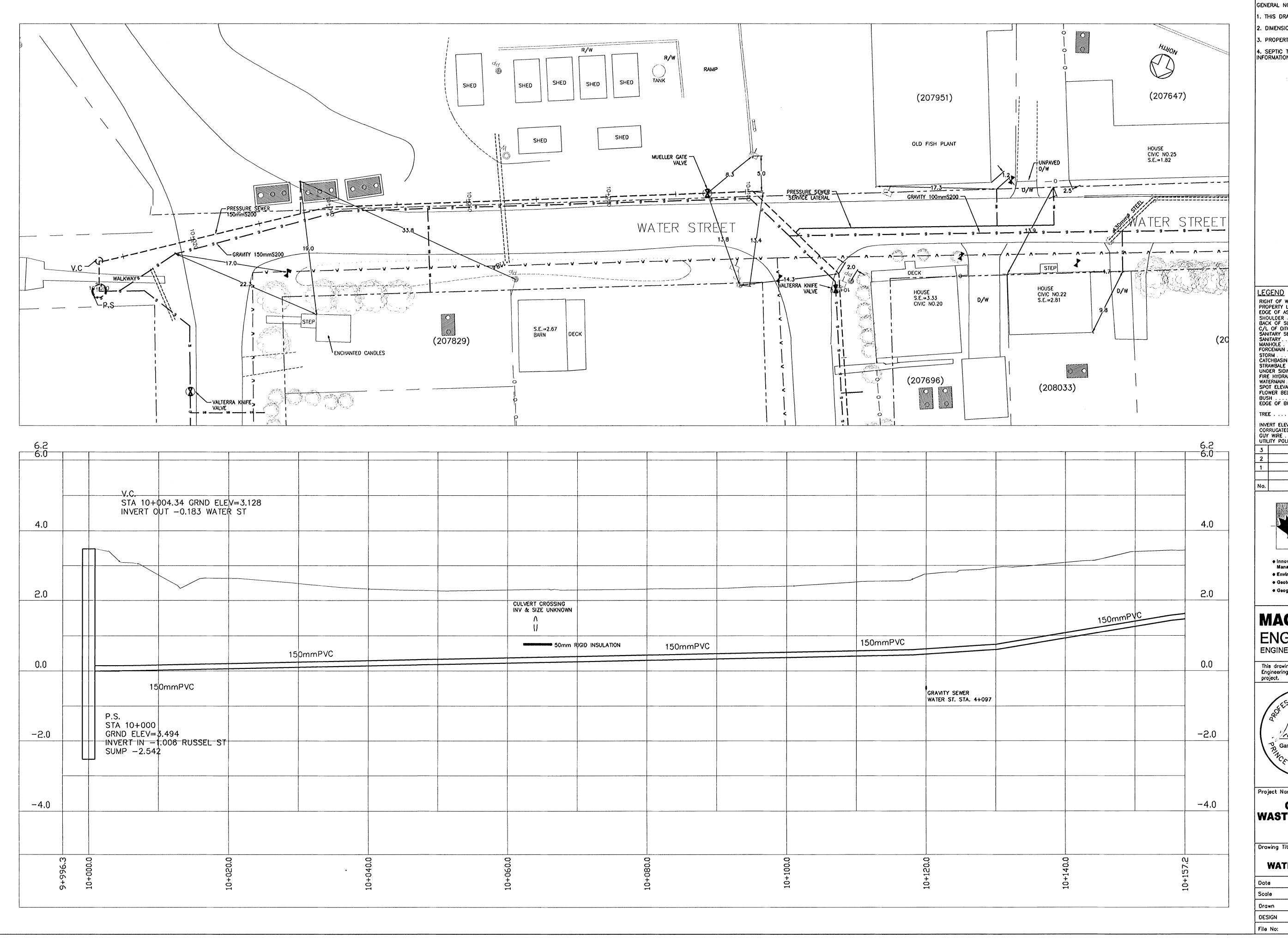


COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

Drawing Title:

WATER ST STA. 4+150 TO STA. 4+193 ROVIS BEACH LN STA. 2+000 TO STA. 2+050

JANUARY 12, 2008	Sheet
1:250 HORIZONTAL, 1:50 VERTICAL	
M.M. / G.M.D	[ 65
G.M.D	
RECORD-534_01.12.08	Rev No.
	1: 250 HORIZONTAL, 1: 50 VERTICAL M.M. / G.M.D G.M.D



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4. SEPTIC TANK LOCATIONS ARE APPROXIMATE AND SHOWN FOR INFORMATION ONLY. SEE UTILITY FOR DETAILED LOCATIONS.

<u>LEGEND</u>		
RIGHT OF WAY		
PROPERTY LINE		
SHOULDER		
BACK OF SLOPE		- ^
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SANITARY SERVICE	93 93	95
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STORM		
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STRAWBALE CHECKDAM	\omega\)	
FIRE HYDRANT	<b>a</b> ⊢rH	
WATERMAIN	vv	-v
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EDGE OF BUSH	Mary Mary Mary Mary Mary Mary Mary Mary	
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TREE	茶	
INVERT ELEVATION	23.6	
CORRUGATED STEEL PIPE	CSP	
GUY WIRE		
UTILITY POLE	<b>●</b> UP	. ,
3		
2		
1		
ISSUED FOR RECORD D	RAWNGS	01/14/08

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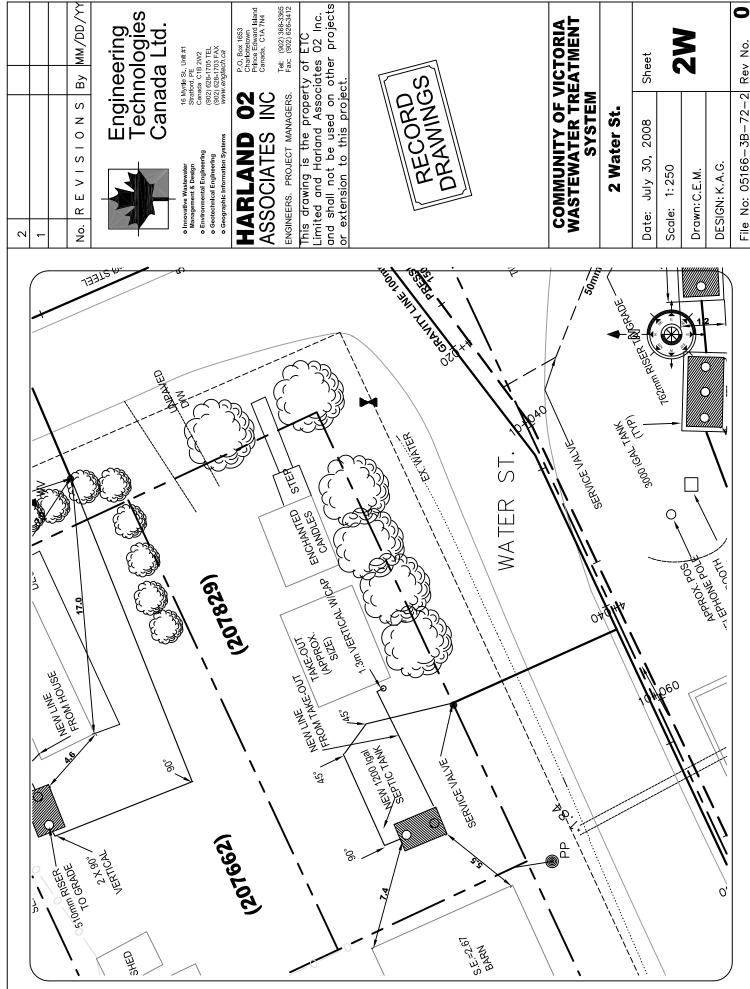


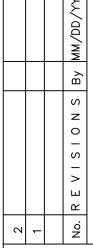
#### COMMUNITY OF VICTORIA WASTEWATER COLLECTION SYSTEM VICTORIA, PEI

Drawing Title:

PRESSURE SEWER
WATER ST STA. 10+000 TO STA. 10+108

Date	JANUARY 12, 2008	Sheet
Scale	1:250 HORIZONTAL, 1:50 VERTICAL	
Drawn	M.M. / G.M.D	C11
DESIGN	G.M.D	
File No:	RECORD-534_01.12.08	Rev No.





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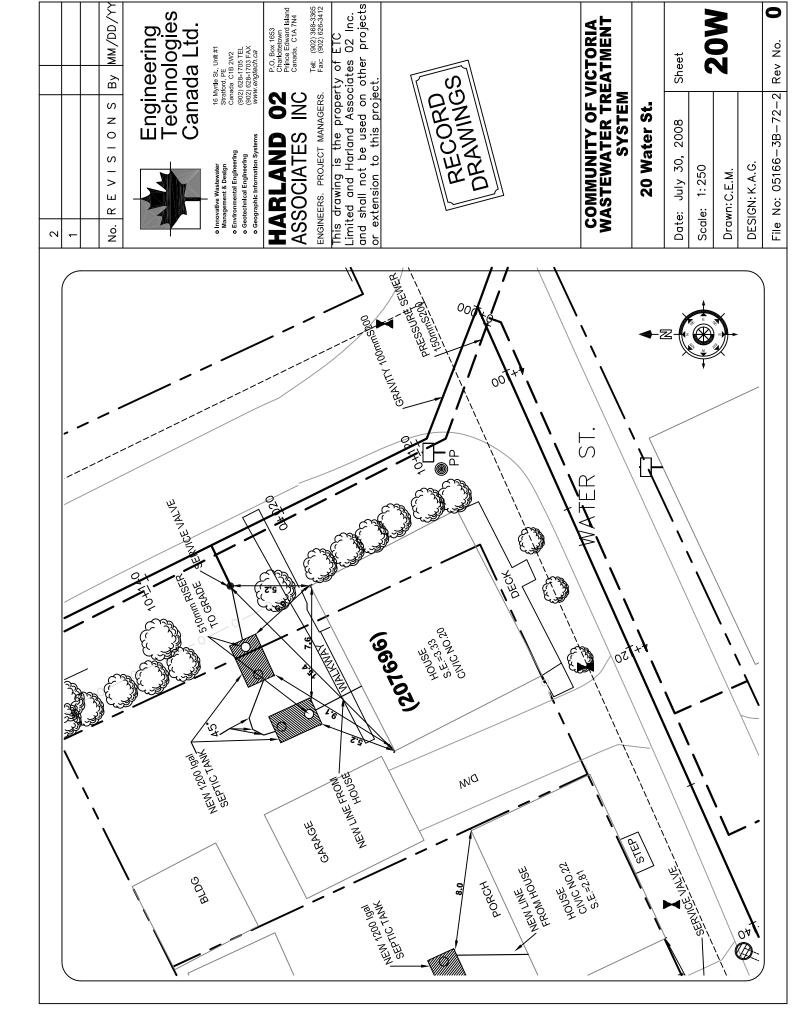
Tel: (902) 368-3365 Fax: (902) 626-3412

### COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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4 Maici St.	ite: July 30, 2008	

Sheet		<b>2</b>			
Date: July 30, 2008	Scale: 1:250	Drawn:C.E.M.	DESIGN: K.A.G.		

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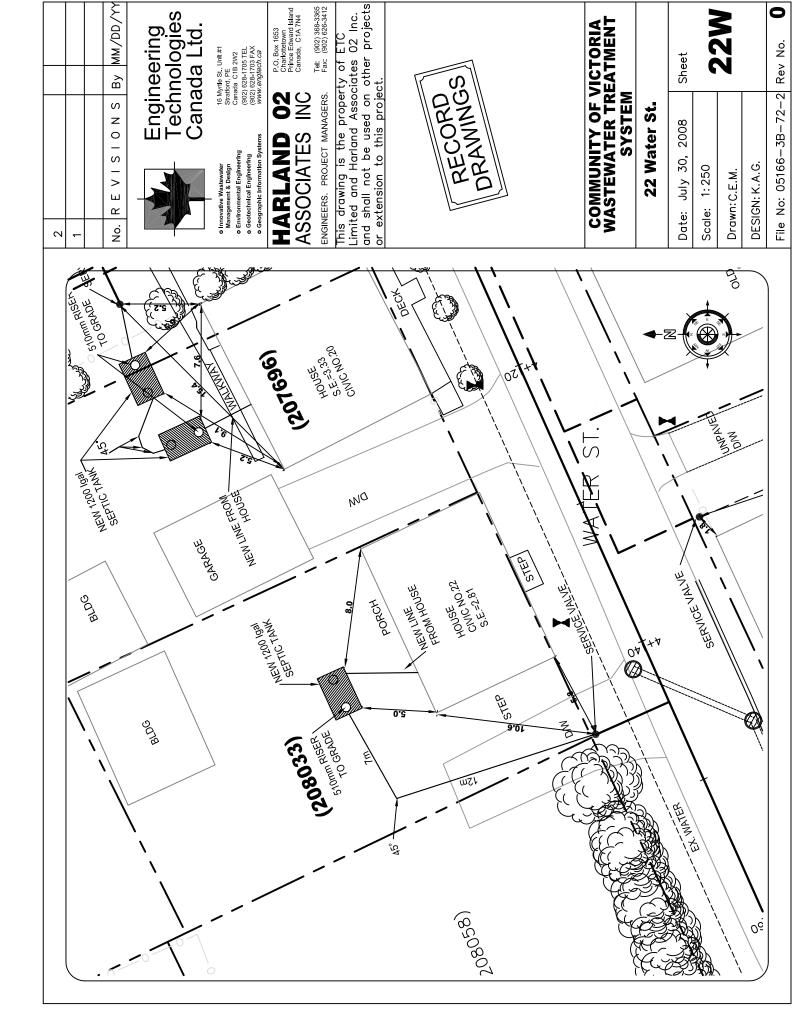
P.O. Box 1653 Charlottetown Prince Edward Island Canada, C1A 7N4

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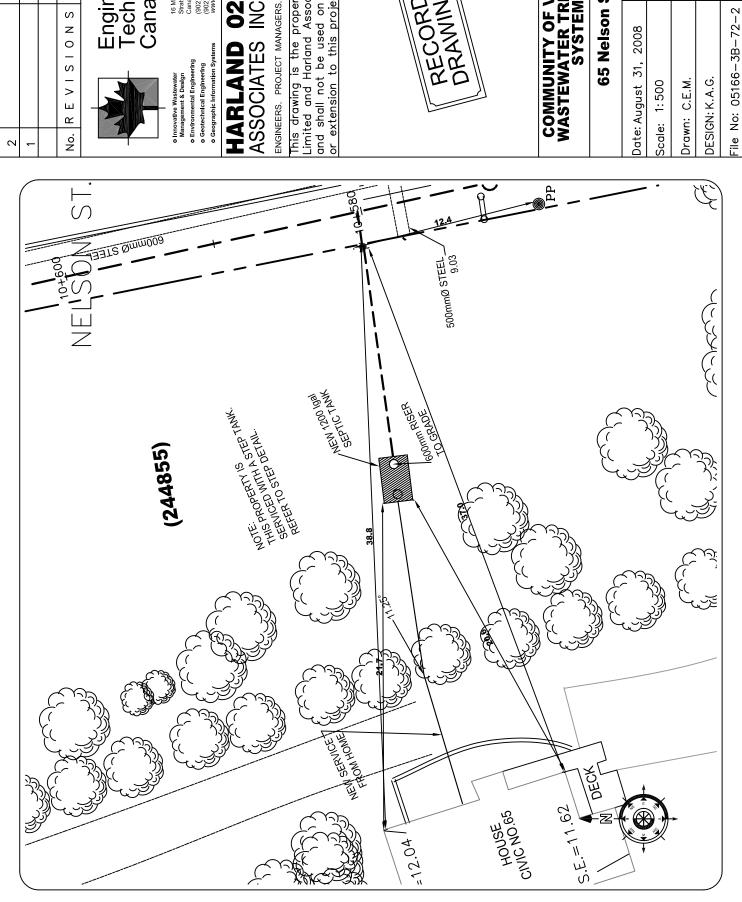
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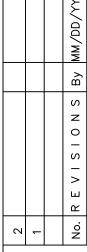
Tel: (902) 368-3365 Fax: (902) 626-3412

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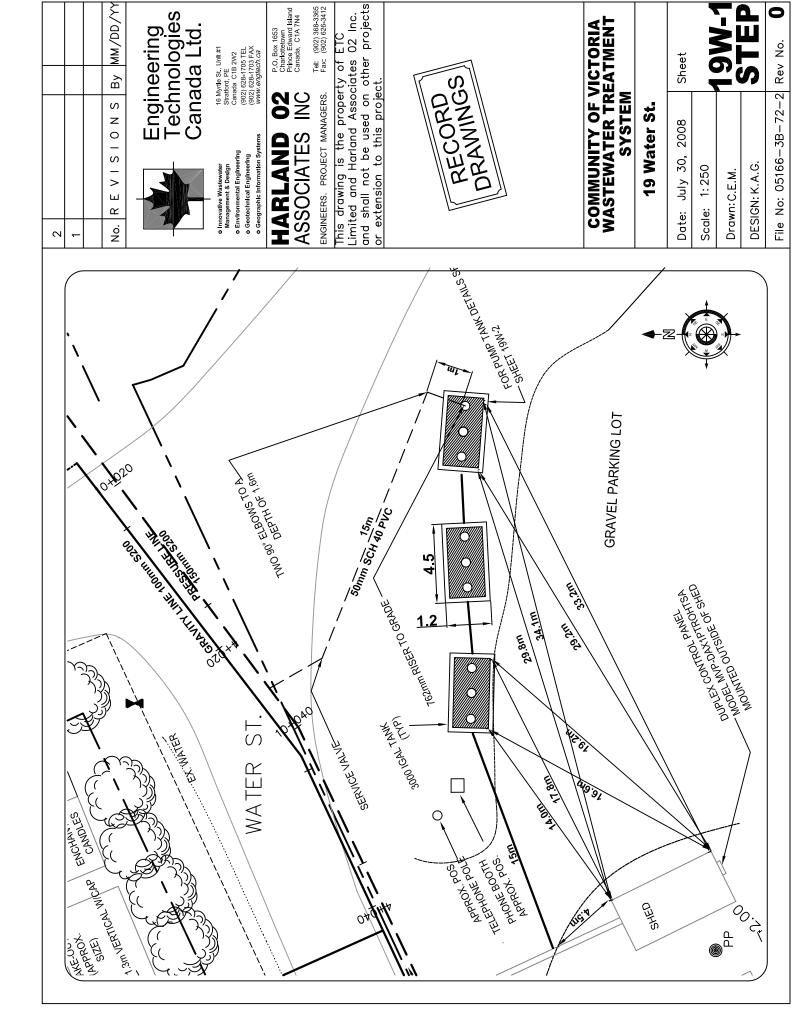
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# COMMUNITY OF VICTORIA WASTEWATER TREATMENT SYSTEM

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65 Nelson St.	Date: August 31, 2008	Scale: 1:500	Drawn: C.E.M.	

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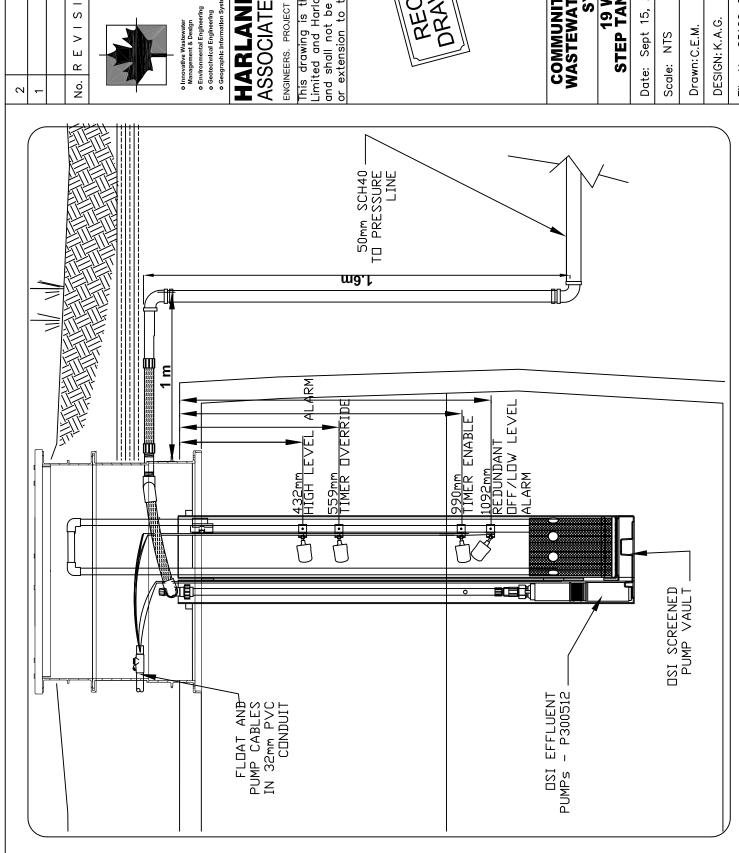
Rev No.

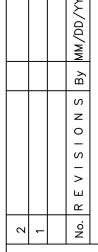
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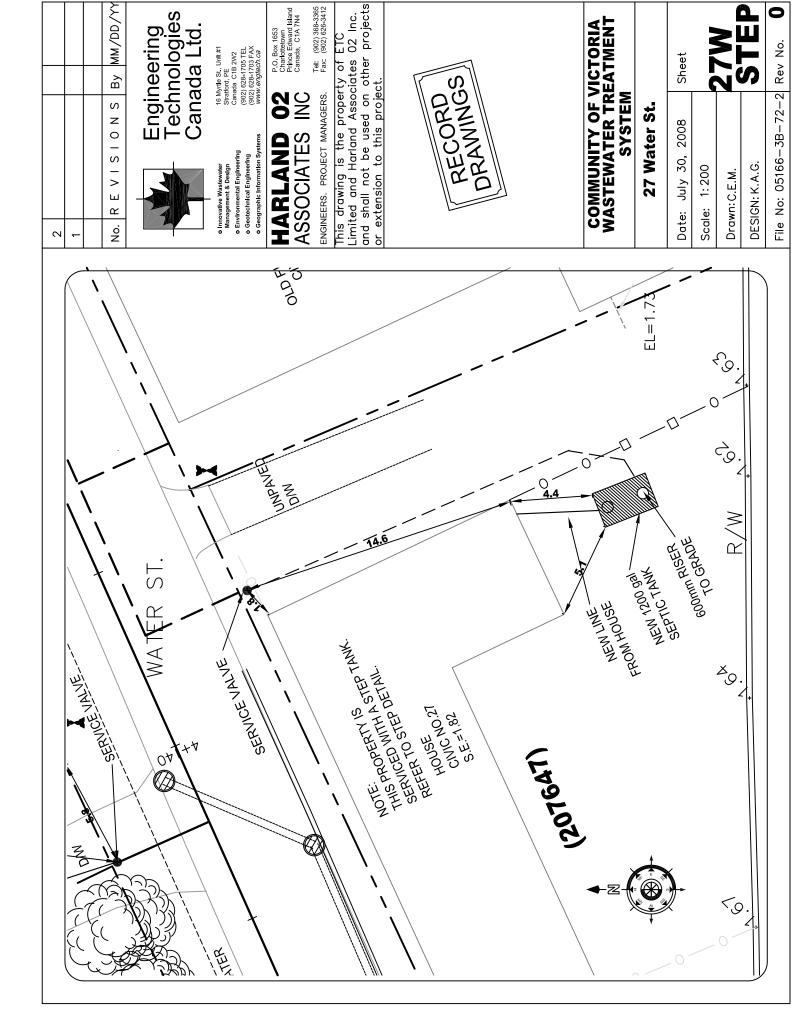
## 19 Water St STEP TANK SETTINGS

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Date: Sept 15, 2008	Scale: NTS	Drawn:C.E.M.	DESIGN: K.A.G.		

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File No: 05166-3B-72-2 Rev No.

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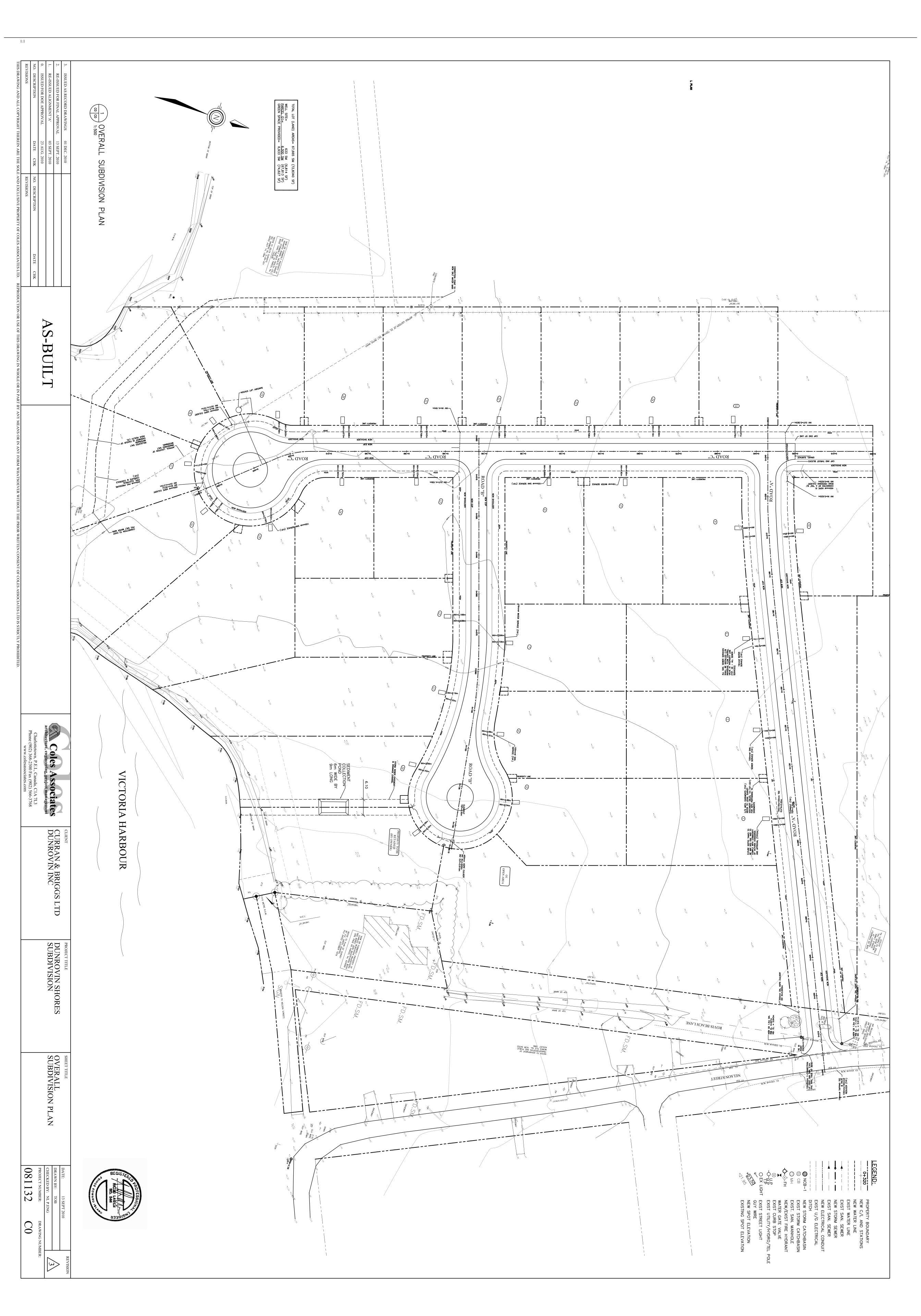
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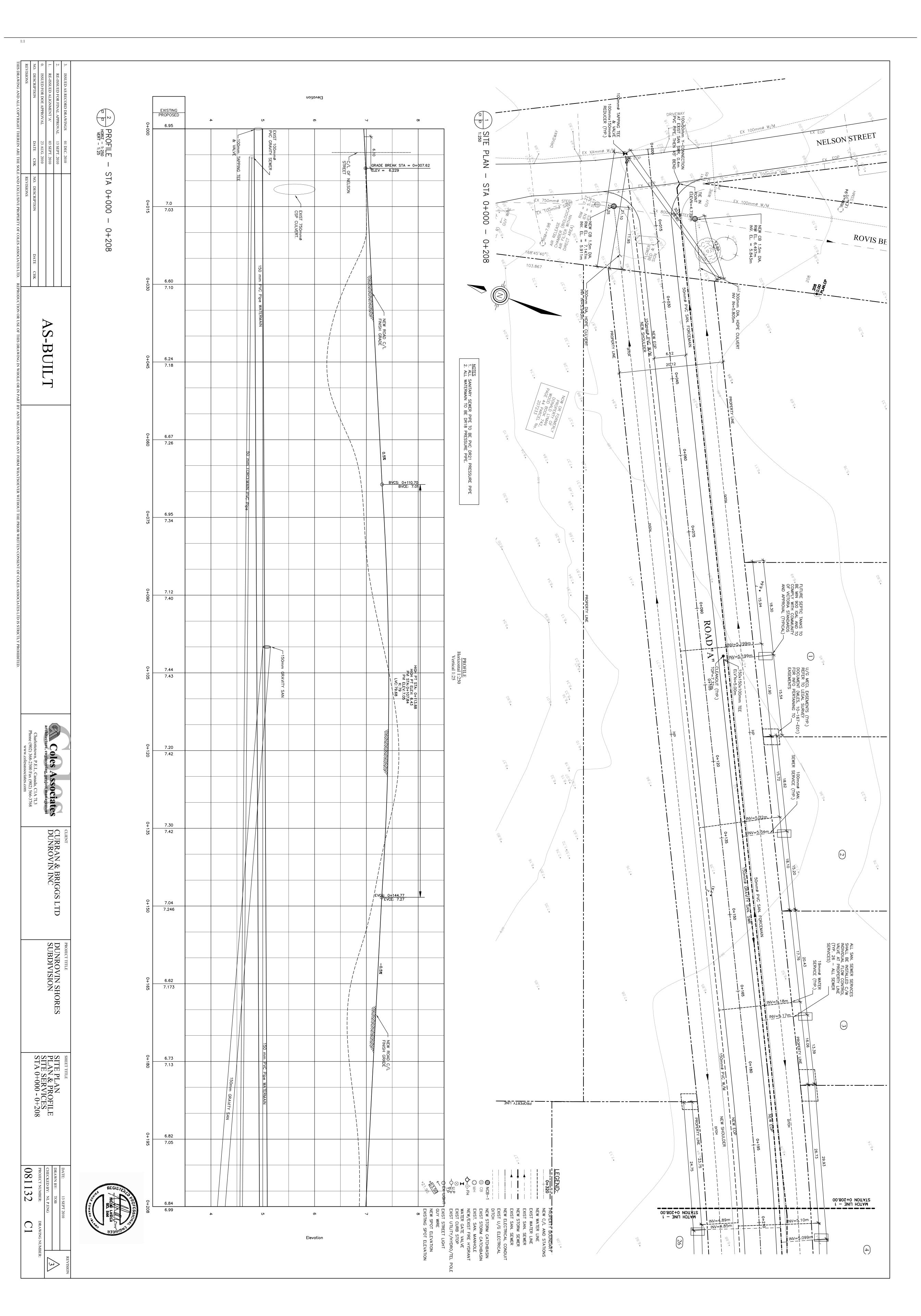
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#### **Appendix T**

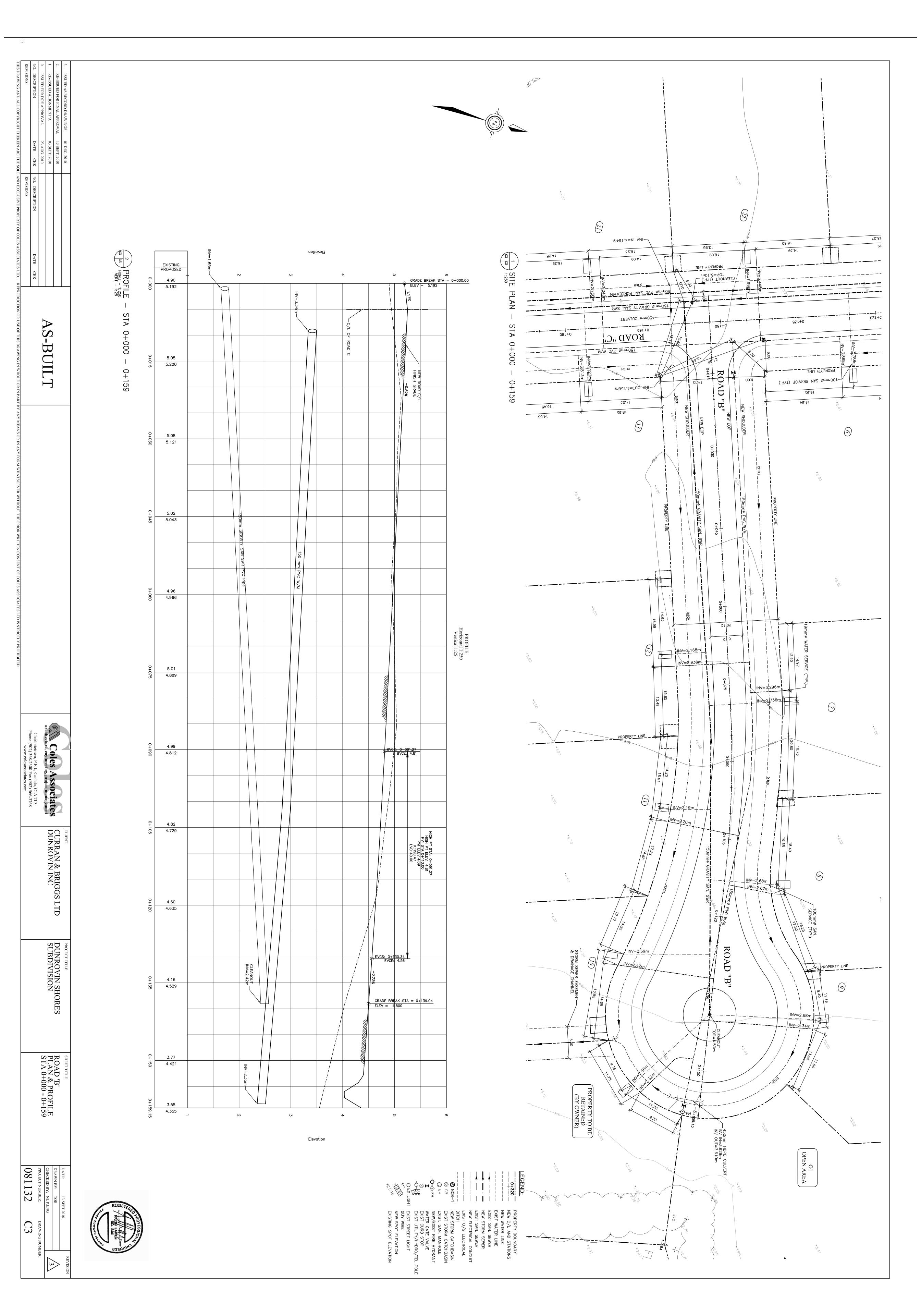
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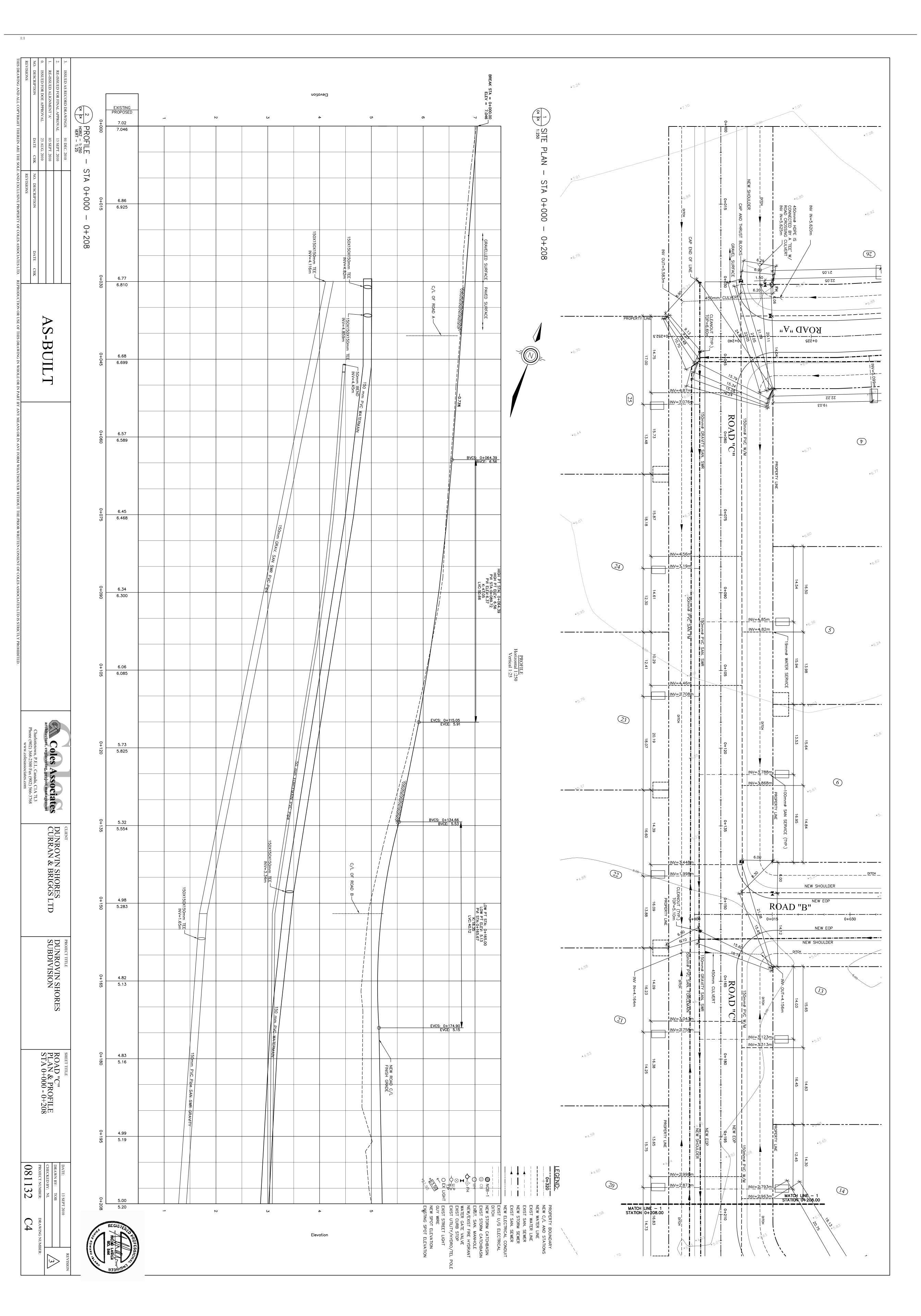
Victoria Commission Corporation Municipal Servicing Standards

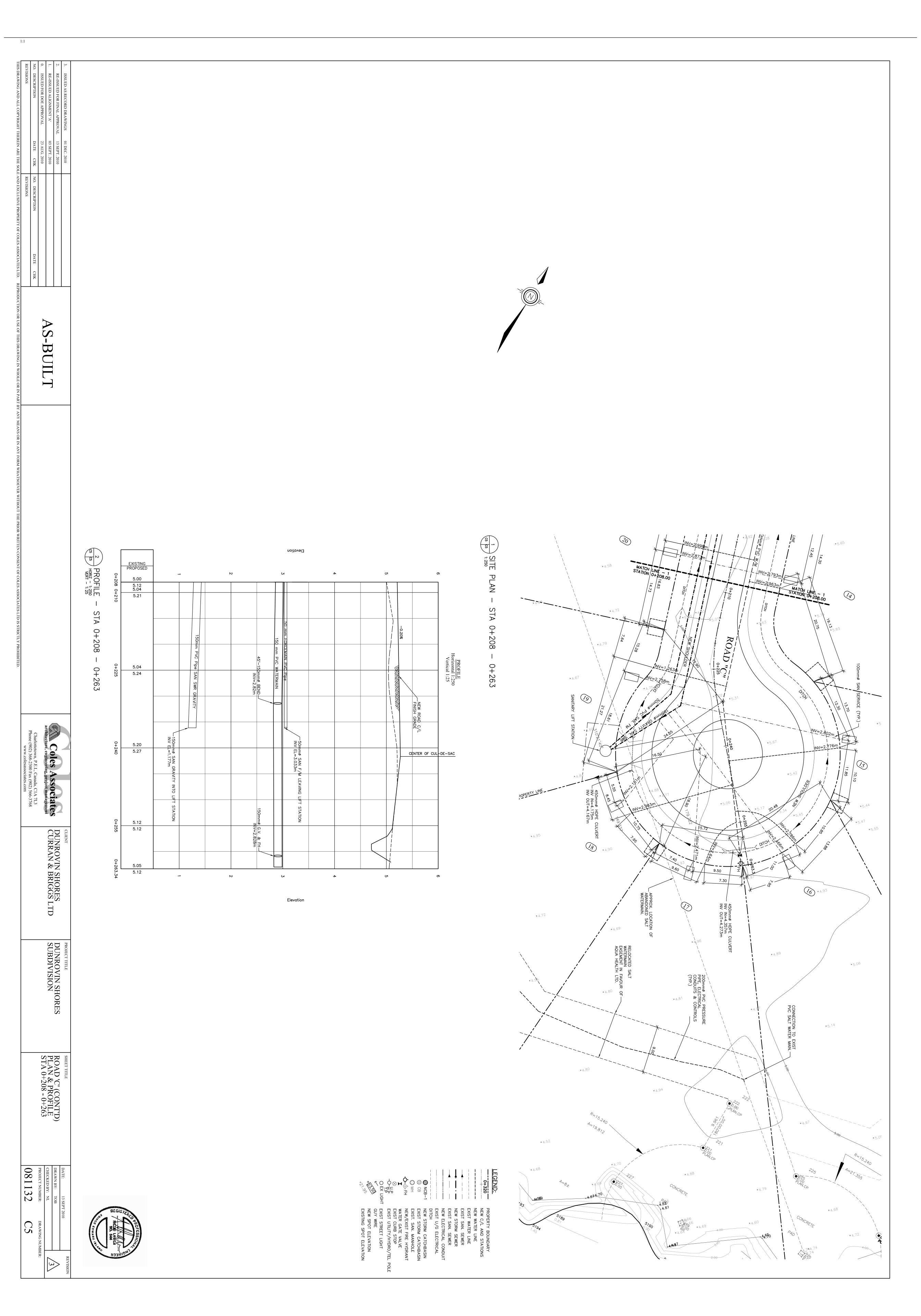




Elevation SITE 1: 250 EXISTING PROPOSED G 6 7 MATCH LINE - 1 STATION 0+208.00 6.84 PLAN MATCH LINE - 1 STATION 0+208.00 6.99 6.85 INV=4.89m 6.93 STA STA 0+208 0+208 6.83 ROAD "A" 0+253 6.80 INV IN=5.620m — 450mmø HDPE IS CONNECTED BY A 'TEE' W/ ROAD CROSSING CULVERT INV IN=5.625m PROPERTY LINE 유 ဂ္ NEW SHOULDER Charlottetown, P.E.I., Canada, C1A 7L3 Phone (902) 368-2300 Fax (902) 566-3768 www.colesassociates.com 150mmø PVC W/M\_\_\_\_\_\_ CAP AND THRUST BLOCKS 6.74 Coles Associates ure, engineering, project management 6.66 ROAD "C" GRADE BREAK STA = 0+242.47 ELEV = 6.731 150mmø GRAVITY SAN. SWR INV OUT=5.583m — 6.61 14.75 15.73 CURRAN & BRIGGS LTD DUNROVIN INC 17.00 13.48 6.56 25 6 G 7 Elevation DUNROVIN SHORES SUBDIVISION 341°38'00" √460.248 ♀(212 TO 201) ROAD 'A' (CONT'D)
PLAN & PROFILE
STA 0+208 - 0+253 081132 LEGEND:
0+320 DEX LIGH C2







PIPE BEDDING AND PROTECTION PLACED BY HAND AND COMPACTED IN 150mm THICK LIFTS 1 LAYER OF GEOSYNTHETIC FILTER FABRIC SEPARATING PIPE PROTECTION AND CLEAR STONE 40mm O.D. P.E. PIPE (ORANGE 1.8m LONG) SECTION: SANITARY MANHOLE SECTION: SLOPE BOTTOM OF TRENCH MIN. 2.0% TOWARDS MAIN MIN. DEPTH OF BURY 2140mm FIRE HYDRANT 150 MIN. 250 MAX. S BUILT HYDRANT ANCHOR TEE

- MECHANICALLY RESTRAIN HYDRANT
BACK TO VALVE/ANCHOR TEE VARIES (1800 MIN.) SECTION N.T.S 1350 WATER/STORM/SANITARY TRENCH REFER TO PAVEMENT SCHEDULE 50mm X 1800mm RIGID INSULATION WHERE DEPTH FROM INVERT TO FINISHED GRADE IS LESS THAN 1800mm. EXTEND INSULATION DOWN SIDES OF TRENCH TO BOTTOM OF PIPING. SEE SPECIFICATION. TYPE 5 FILL (SELECT LIFTS. PROVIDE BRACING OR REQUIRED BY OH&S. NG TAPE (TYP.) GATE VALVE AND VALVE BOX DETAIL SECTION: 1800 MIN. COVER (TYP.) SERVICE EXIST./NEW WATERMAIN REFER TO SITE PLAN FOR SIZES REFER TO SITE PLAN SITE FINISH & ELEV. 15M REBAR ANCHOR HOOF BOND BREAKER - VALVE BOX REQUIRED) CONNECTION Coles Associates architecture, engineering, project management Charlottetown, P.E.I., Canada, C1A 7L3 Phone (902) 368-2300 Fax (902) 566-3768 www.colesassociates.com - SERVICE PIPE AS SPECIFIED THRUST BLOCK DETAILS N.T.S. DUNROVIN SHORES INC CURRAN & BRIGGS LTD 600 MIN. DUNROVIN SHORES SUBDIVISION CONCRETE
THRUST BLOCK THRUST BLOCK REQUIREMENTS 2. THESE TABLES ARE BASED ON SOIL SUPPORTING CAPACITIES OF 100 kPa AND AN INTERNAL PIPE PRESSURE OF 1035 kPa. WHERE DIFFERENTIAL SUPPORTING CAPACITIES OR INTERNAL PRESSURES ARE ENCOUNTERED, CONTACT AREAS SHALL BE CALCULATED ACCORDINGLY. SAFE SUPPORTING CAPACITY SHALL BE DETERMINED BY THE DESIGN ENGINEER, AND SHALL INCLUDE AN APPROPRIATE FACTOR OF SAFETY. WATER & SEWER SECTIONS & DETAILS 1. CONTRACTOR SHALL COORDINATE THIS WORK AND COOPERATE WITH THE OWNER, CITY, AND AGENCIES HAVING JURISDICTION.

2. PRIOR TO COMMENCING WORK, COORDINATE AND OBTAIN APPROVAL FROM THE COMMUNITY FOR CONNECTING TO EXIST WATER & SEWER SERVICES.

3. ARRANGE, OBTAIN AND PAY FOR ALL REQUIRED PERMITS.

4. CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY, INSTALLATION & TESTING FOR ANY ADDITIONAL MATERIALS NOT LISTED OR INDICATED ON THE DRAWINGS TO PROVIDE THE COMPLETE WORK MEETING THE OPERATIONAL AND FUNCTIONAL REQUIREMENT OF THIS PROJECT ALL IN CONFORMANCE TO THE COMMUNITY OF VICTORIA STANDARDS.

5. CONTRACTOR IS RESPONSIBLE FOR THE SUPPLY, INSTALLATION AND TESTING OF ALL PIPES AND APPURTENANCES AS PER APPLICABLE STANDARDS & AS REQUIRED BY REGULATIONS FOR A COMPLETE OPERATIONAL SYSTEM. CARRY OUT INSTALLATION, TESTING, FLUSHING AND CARRY OUT INSTALLATION, TESTING, FLUSHING AND CARRY OUT INSTALLATION, TESTING, FLUSHING AND CARRY OUT TO AWWA C651 AND THE REQUIREMENTS OF ENCIES HAVING JURISDICTIONS.

INSTALL WATERLINE AS INDICATED ON PLAN. SWEEP AS QUIRED BUT DO NOT EXCEED 50% OF MANUFACTURER'S COMMENDED DEFLECTION. DO NOT CREATE ISOLATED HIGH INTS.

INSTALL SEWER MAIN AS INDICATED ON PLAN. MAINTAIN A OF 0.5% SLOPE.

PROVIDE 2" RIGID INSULATION OVER SEWERMAIN, TERMAIN AND LATERALS WHERE DEPTH OF COVER IS LESS AN 1.8m BELOW TOP OF NEW GRADE.

ALL SANITARY SEWER PIPING TO BE DR21 PRESSURE 1E. CONTRACTOR TO PERFORM VIDEO INSPECTION OF ALL VER MAINS PRIOR TO SUBSTANTIAL COMPLETION AND AGAIN MONTHS LATER. VIDEOS TO BE SUBMITTED TO COMMUNITY VICTORIA DEVELOPMENT OFFICER. SERVICES: 081132 1.25° BEN 0.16 0.16 0.16 0.24 0.40 0.71 C6

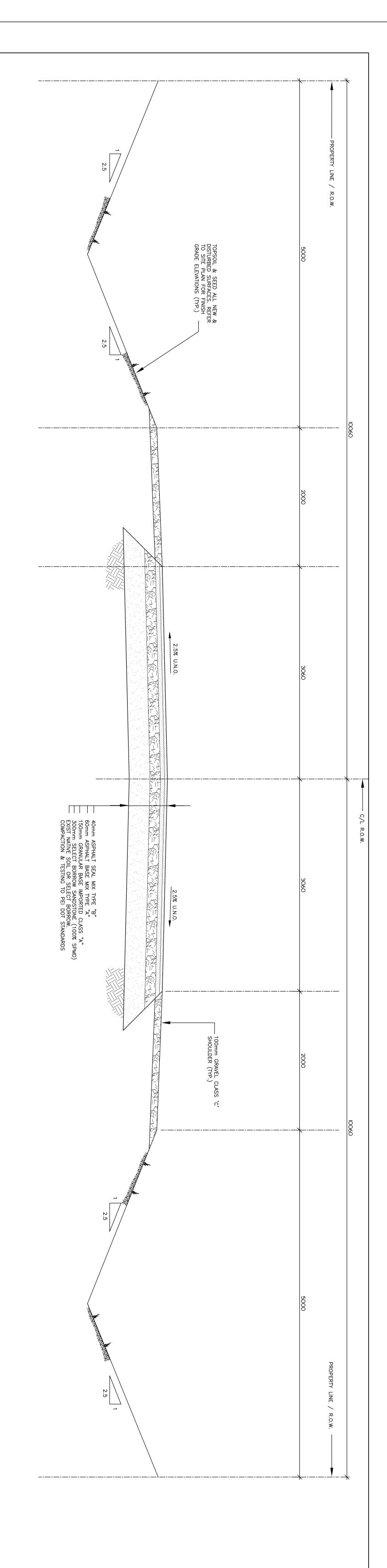
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1:1 SECTION: RANDOM RP CULVERT W SECTION N.T.S. 1300 RIPRAP —STRAW MULCH SURFACE FINISH. HYDRO—SEED IN SPRING OF 2011. CHANNEL R5 RIP RAP CHECK DAMS AT EVERY 25m Coles Associates architecture, engineering, project management Charlottetown, P.E.I., Canada, C1A 7L3 Phone (902) 368-2300 Fax (902) 566-3768 www.colesassociates.com DUNROVIN SHORES INC CURRAN & BRIGGS LTD GENERAL 18. CONTRACTOR TO INCLUDE IN THIS CONTRACT, THE COST OF ADJUSTMENTS TO TOP OF CB'S AND MANHOLES ADJACENT GRADES AS DEEMED NECESSARY BY THE CONSULTANT/OWNER TO SATISFY SITE CONDITIONS. 16. REPAIR & REINSTATE DISTURBED ASPHALT PAVEMENT, GRASSED & LANDSCAPED AREAS, SIGNS, RETAINING WALLS, ETC., DAMAGED BY WORK OF CONTRACT INCLUDING ALL AREAS IMPACTED BEYOND LIMIT OF CONTRACT. TOPSOIL & SEED ALL GRASSED SURFACES. 15. ALL TRENCHES MUST BE BACKFILLED AT EACH DAY. 14. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN TWO WAY TRAFFIC AT ALL TIMES DURING THIS CONTRACT. PROVIDE SIGNS, BARRICADES, FLAGGERS AS PER APPLICABLE REGULATIONS. 11. PRIOR TO CONSTRUCTION, CONTRACTOR MUST REVIEW THE DEPTH OF ALL NEW UNDERGROUND SERVICES AND ADJUST DEPTH OF ALL SERVICES INCLUDING WATER, SANITARY SEWER, STORM SEWER, U/G ELECTRICAL & COMMUNICATION, WHERE INTERFERENCE OCCURS. ADVISE & OBTAIN APPROVAL FROM CONSULTANT BEFORE PROCEEDING WITH ANY CHANGES. 9. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES AND SERVICES (SHOWN OR NOT SHOWN ON DRAWINGS) IN THE FIELD WITHIN THE CONTRACT LIMIT.

INFORMATION SHOWN ON PLANS IS APPROXIMATE ONLY. 6. SURVEY DATA AND EXISTING TOPOGRAPHIC INFORMATION HAS BEEN DETERMINED AND PROVIDED BY MORRIS LAND AND ENGINEERING SURVEYS (MLES) DATED 14 OCTOBER 2009; FILE NO 09-181-T01. ALL ELEVATIONS SHOWN ARE TO GEODETIC DATUM. CONTOURS AND STRUCTURE ELEVATIONS IN METERS, U.N.O. 17. ADJUST TOP OF ALL SANITARY MH COVERS, WATER VALVES, CURB STOPS, AND ANY UTILITIES AFFECTED BY THE WORK OF THIS CONTRACT. COORDINATE WITH COMMUNITY UTILITIES HAVING JURISDICTION. 12. PROVIDE TEMPORARY SUPPORT TO UTILITY POLES AS REQ'D BY THE UTILITIES. FINAL LOCATIONS OF RELOCATED UTILITY POLES TO BE CO-ORDINATED ON-SITE BETWEEN CONTRACTOR, UTILITIES AND PEI DOT. ENSURE NEW OVERHEAD WIRE PATHS MEET ALL REQUIRED CLEARANCES AS REQUIRED BY OH&S. 13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ALL UTILITY POLES THAT INTERFERE WITH THE CONTRACTOR'S WORK AND THE CONSTRUCTION OF NEW ROADS AND SITE SERVICES. 10. UNDERGROUND WATER, SEWER, TELEPHONE AND POWER SERVICES EXIST BENEATH THE SITE. EXERCISE CAUTION IN EXCAVATION AND PROTECT FACILITIES FROM DAMAGE. CONTRACTOR TO REPAIR DAMAGES AT NO COST TO THE CONTRACTOR SHALL BE CARRIED OUT TO THE SATISFACTION OF THESE AUTHORITIES. CONTACT UTILITIES BEFORE EXCAVATING. B. THESE DRAWINGS SHALL BE VIEWED IN CONJU 1. CONTRACTOR MUST VISIT EXISTING CONDITIONS. . BENCH MARK WAS ESTABLISHED BY MLES REFERENCED TO EICM 662 HAVING A PUBLISHED ELEV'N OF 15.651m . VERIFY ALL DIMENSIONS ON THE JOB AND REPORT ANY ISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK. THE WORK SHALL BE IN ACCORDANCE WITH NATIONAL JILDING CODE OF CANADA AND APPLICABLE STANDARDS ATEST REV) TO THE SATISFACTION OF THE CONSULTANT NLESS NOTED OTHERWISE ON THE DRAWINGS AND THE PECIFICATIONS. COMPLY WITH ALL LOCAL, MUNICIPAL AND PROVINCIAL LAWS AND REGULATIONS. NOTES: ONS AND ELEVATIONS ARE IN METRIC UNITS DUNROVIN SHORES SUBDIVISION THE END OF ROAD CONSTRUCTION ASPHALT SECTIONS & DETAILS 5- ENSURE THAT ALL SILT FENCES ARE IN PLACE AND MAINTAINED ON A DAILY BASIS TO PREVENT SEDIMENTS FROM THE WORK AREAS FROM ENTERING WATER COURSE. MAINTAIN FENCE AT ALL TIMES AND REPLACE IF DAMAGED. REMOVE ACCUMULATED SEDIMENTS TO PREVENT BLOCKAGE OF FENCES OR AS DIRECTED BY CONSULTANT. REPAIR ALL DAMAGES CAUSED BY SEDIMENTATION OR CONSTRUCTION ACTIVITIES AT OR BEFORE THE END OF EACH WORKING DAY.

6- INSTALL A LAYER OF MULCH OR AN EROSION CONTROL BLANKET TO ALL EXPOSED SLOPES THAT IS NOT IMMEDIATELY UNDER CONSTRUCTION APPLIED AND MAINTAINED UNTIL THE AREA IS READY TO BE COMPLETED, SHAPED AND STABILIZED WITH SEEDING, SOD OR RIP-RAP. 3- ALL NECESSARY ENVIRONMENTAL CONTROLS (E.G. SILT FENCING, CHECK DAMS, SEDIMENT COLLECTION PONDS, ETC.) SHALL BE IN PLACE PRIOR TO, DURING AND AFTER PROJECT ACTIVITIES TO AVOID OFFSITE SILTATION AND SILTATION TOWARDS OCEAN. INSPECT ENVIRONMENTAL CONTROLS ON A DAILY BASIS AND REPAIR AS NECESSARY. 2- INSTALLATION OF ENVIRONMENTAL CONTROLS SHALL BE FIRST STEP IN THE CONSTRUCTION SEQUENCE AND THEIR DESIGN, INSTALLATION AND MAINTENANCE SHALL BE AS PER PEI DOT&PW'S ENVIRONMENTAL PROTECTION PLAN (EPA) AND SPECIFICATIONS, LATEST EDITION. 12- THE CONSTRUCTION OF THIS PROJECT MUST COMPLY WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION FOR APPROVAL AND OTHER APPLICABLE PERMITS.

13- REPORT ANY DOUBTFUL CONDITIONS REQUIRING DECISIONS & SECURE DIRECTION FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK. 7- IF DE-WATERING IS NECESSARY, IT SHALL BE PUMPED A MINIMUM 30m FROM WATERCOURSE INTO A SEDIMENT COLLECTION POND. 1- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH FEDERAL, PROVINCIAL & MUNICIPAL CODES, BY-LAWS & REGULATIONS AS THEY APPLY TO THE WORK. 11— ENVIRONMENTAL PROTECTION MEASURES SHALL BE CARRIED OUT TO THE SATISFACTION OF THE ENGINEER & AUTHORITIES HAVING JURISDICTION AND THE COST OF ALL THESE DEVICES & MEASURES SHALL BE INCLUDED IN THE CONTRACT PRICE. 8- ALL FUEL AND OTHER TOXIC SUBSTANCES BE STORED A MINIMUM OF 30m FROM WATERCOURSE. 10— DO NOT DISTURB EXISTING VEGETATION ANY MORE THAN NECESSARY TO COMPLETE EACH PHASE OF THE PROJECT. 9- THE CONTRACTOR IS TO HAVE ON HAND, THE APPROPRIA: EMERGENCY RESPONSE PHONE NUMBERS AND CONTACTS TO ALERT THE APPROPRIATE AUTHORITIES OF POSSIBLE CONTAMINATION SHOULD A SPILL OCCUR. 4- CONSTRUCT AND MAINTAIN SILT FENCES (TYPE I & II AS NDICATED) IMMEDIATELY AT TOE OF SLOPE AROUND THE PERIMETER OF ALL TEMPORARY AND PERMANENT CONSTRUCTION AREAS INCLUDING AROUND STOCKPILES OF FIL AND SHORE PROTECTION. 5- CONSTRUCT & DETAIL ALL EROSION CONTROL STRUCTURES IN CONFORMANCE WITH THE PROJECT ENVIRONMENTAL APPROVAL AND WITH SECTION 7.0 "SPECIFIC ENVIRONMENTAL PROTECTION MEASURES" OF THE PEI DOT & ENVIRONMENTAL PROTECTION PLAN MANUAL. PROTECTION 081132 NOTES



NEW



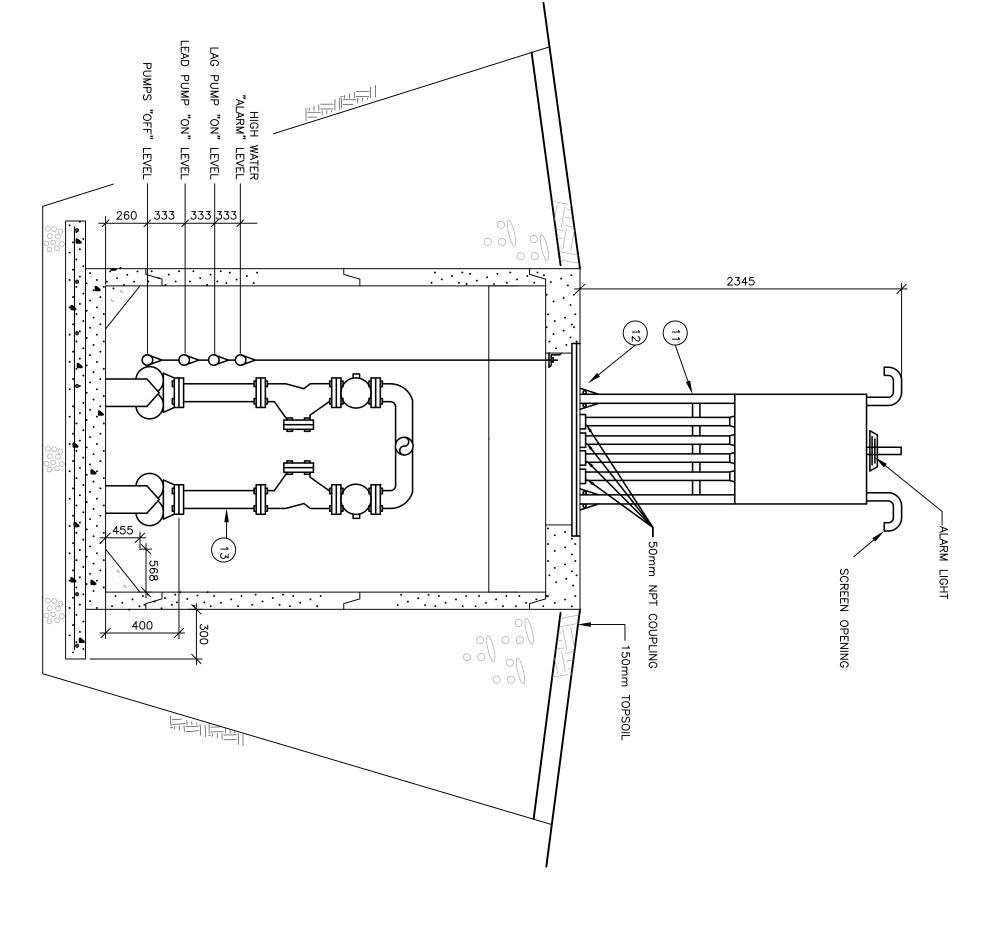
2. RE-ISSUED FOR FINAL APPROVAL 13 SEPT. 2010
1. RE-ISSUED ALIGNMENT ROAD 'A' 03 SEPT. 2010
2. ISSUED FOR DOE APPROVAL 23 AUG. 2010
3. ISSUED FOR DOE APPROVAL 23 AUG. 2010
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15. REPRODUCTION OR USE OF THIS DRAWING IN WHOLE OR IN PART BY ANY MEANS OR IN 1/2 ANY MEANS OR IN 1

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SECTION 'A'-'A' THROUGH LIFT STATION

SECTION 'B'-'B'

200mm THICK, SQUARE CAST—IN—PLACE BASE W/



(5)

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INSTITUTE OF THE LIFT STATION:
THE FOLLOWING FOR THE LIFT STATION:
THE FOLLOWING FOR THE LIFT STATION:
STANDARD OF ACCEPTANCE: INTERS OR APPROVED EQUAL.

1). TWO — WRESS MODE LIFETON ON SECTION OF SUBMERSBILE EFFLUENT PUMPS, IN CAST ROW CONSTRUCTION RATED FOR 1 HP, 200/3/60 HZ, SUITABLE FOR 3/4" DA. SOLIDS, TOGETHER WITH DUAL MECHANICAL SEALS AND 20 POWER COROS.

2). TWO — LIFT CHAIN CONNECTIORS AND 4000mm OF CHAINS.
3). EIGHT — ANCHOR BOLTS (3/4"—10 UNC), FOUR PER DISCHARGE AND AS REGID BY MANUFACTURER.
4). ONE — MYERS HORZ, FLOAT SUPPORT BRACKET, MODEL LIFEGS—4SS.
5). FOUR — MYERS 20' CSA, APPROVED MODEL #\$20—ED, FLOAT LEVEL CONITROLS.
6). TWO — UPPER RAIL SUPPORT BRACKETS, MODEL #\$78—7S.
7). ONE — THE CHAIN CONCESS. FRAMES/STANDARD DUPLEY, APRAMEDISTIC, STANDARD STANDARD DUPLEY APPRAMEDRATIC, METER BASE, STAND DOORS IN OPEN POSITION, ITT FLYCHT STANDARDS STEEL HATCH (TYPE)

8). ONE — OPEN OF TOOM DUPLEY CONTROL PANEL WITH REMOTE TELEMETRY, MODEL TOOM—DAX2 CS ST/HS, CSA, APPROVED, C/M MAIN DISCONNECT, METER BASE, STREWCE DITENANCE CONTROL PANEL WITH REMOTE TELEMETRY, MODEL TOOM—DAX2 CS ST/HS, CSA, APPROVED, C/M MAIN DISCONNECT, METER BASE, STREWCE DITENANCE OF ENAUGH ENTERNANCE OF ENAUGH ENTERNANCE OF ENAUGH AND THE METERS, APPROVED, C/M MAIN DISCONNECT, FASTER DEVELOPMENT, METER BASE, STREWCE DITENANCE DETECTION AND PROPER PASSED LEVER. SOMMEN.

10.) TWO — CHICK VALVES: MORESTEAD LEVER OPERATED 50mm.
11.) ONE — VENT PIPE BASE 100mm.
12.) ONE — VENT PIPE BASE 100mm.
13.) SOMM SCHEDULE 40 PIPE
14.) POWER CABLE. 4 CONNOCTOR #14 CABLE CHLORINATED POLYETHELENE

MACKETED (C.P.E.) TYPE SOW CABITRE.
15.) OFEN POSITION LOCKING DEVICE, COVER STAY
16.) PADLOCK
17.) FOUR — TWO EACH SOMMEN SCHEDULE 40 GUIDE BAR, COORDINATE WITH MANUFACTURER.
18.) LIFTING DANT.
19.) CHAIN HOUST.
20.) ONE — HORRANCE COMBINATION METER SOCKET AND CIRCUIT BREWER TYPE 3 ENCLOSURE WITH TOOM BASE, MICHOLOGY I FOR PUMP. PROVIDE SUPPORT AS REQUIRED.

PLAN N.T.S.

VIEW

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STATION COVER

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SECTION SECTION

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LIFT STATION DESIGN

1. DESIGN FLOW = 3.15 L/s (41.6 GAL/MIN) BASED ON THE FOLLOWING:

- PEAK EXTRANEOUS FLOW = 0.14 L/s/ha
- POPULATION = 91 PERSONS
- GROSS AREA = 7.3225 ha
- PEAKING FACTOR = 8.08
- DAILY USAGE = 250 L/d (190 L/d MIN)

250 L/d (190 L/d MIN)

REGISTER CONTRACTOR OF THE STATE OF THE STAT

DATE: 13 SEPT 2010

DRAWN BY: TOB

CHECKED BY: N.L. P.ENG

Coles Associates architecture, engineering, project management

DUNROVIN SHORES INC CURRAN & BRIGGS LTD

DUNROVIN SHORES SUBDIVISION

SANITARY SEWER LIFT PUMP STATION SECTIONS & DETAILS

081132

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Charlottetown, P.E.I., Canada, C1A 7L3 Phone (902) 368-2300 Fax (902) 566-3768 www.colesassociates.com