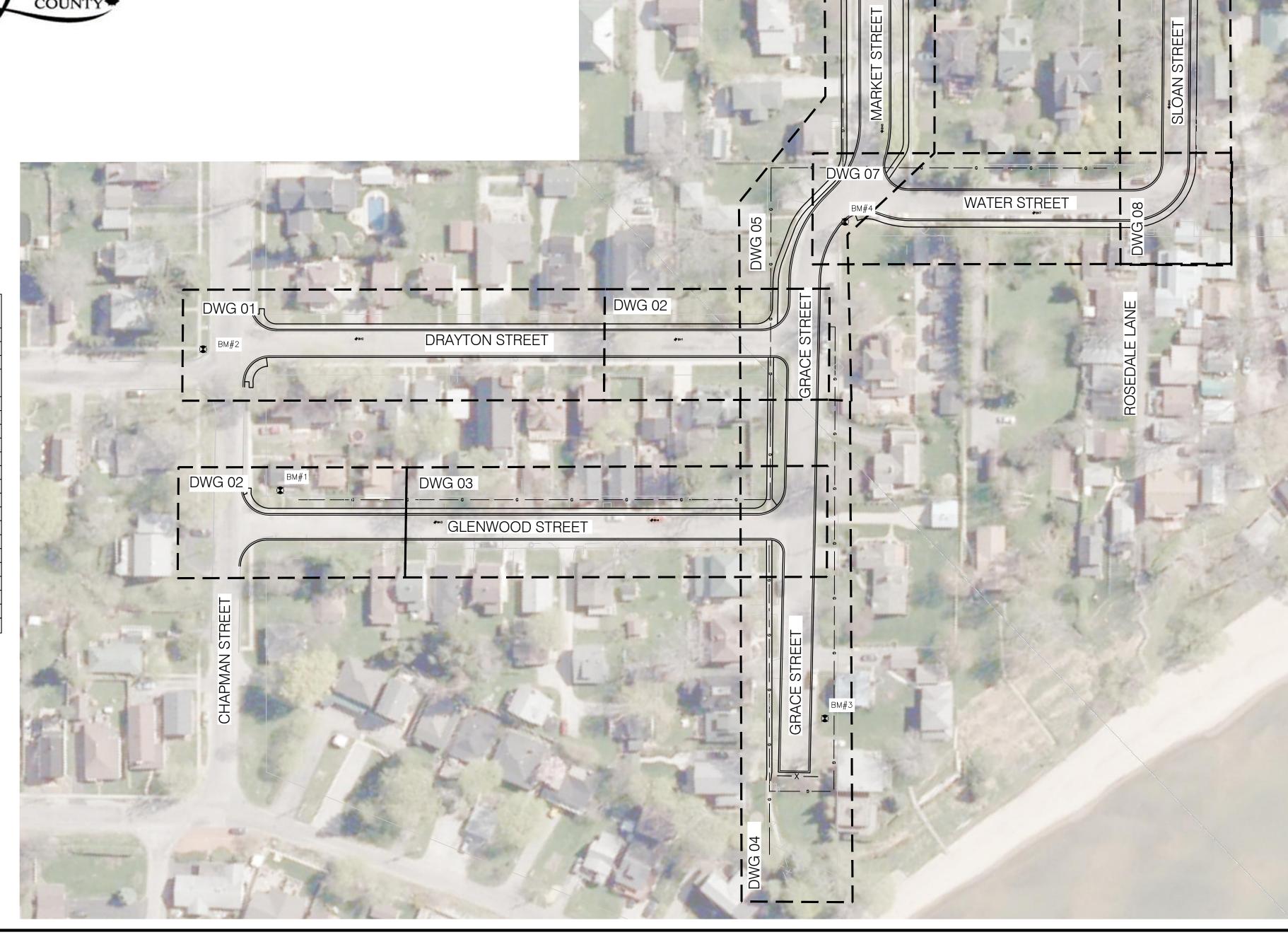
EIS-ENG-25-35

PORU DOVER RECONSURUCUIONS

PORT DOVER
NORFOLK COUNTY



	DRAWING LIST	
DWG	DRAWING TITLE	DESCRIPTION
COV	COVER	
01	PLAN AND PROFILE DRAYTON STREET	0+000 - 0+150
02	PLAN AND PROFILE DRAYTON - GLENWOOD	0+150 - END / 0+000 - 0+050
03	PLAN AND PROFILE GLENWOOD STREET	0+050 - END
04	PLAN AND PROFILE GRACE STREET	0+000 - 0+150
05	PLAN AND PROFILE GRACE STREET	0+150 - 0+300
06	PLAN AND PROFILE MARKET STREET	0+300 - END
07	PLAN AND PROFILE WATER STREET	0+000 - END
08	PLAN AND PROFILE SLOAN STREET	0+000 - END
09	INTERSECTION GRADING PLAN	
10	PAVEMENT MARKING AND SIGNAGE PLAN 1	
11	PAVEMENT MARKING AND SIGNAGE PLAN 2	
GN1	GENERAL NOTES 1	
GN2	GENERAL NOTES 2	
SAN	SANITARY DRAINAGE AREA'S	
STM	STORM DRAINAGE AREA'S	
XS1	DRAYTON STREET	
XS2	GLENWOOD STREET	
XS3	GRACE STREET	
XS4	MARKET STREET	
XS5	WATER STREET & SLOAN STREET	



REV. No.	DATE	REVISION			
0	04/23/24	ISSUED FOR 30% REVIEW			
1	09/09/24	ISSUED FOR 60% REVIEW			
2	03/28/25	ISSUED FOR TENDER			

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BENCHMARKS:
ELEVATIONS PER CANADIAN GEODETIC DATUM
CGVD28:78, GEOID MODEL HTv2.0 (2010).

BM 1: TOP, NORTHWEST CORNER OF BOTTOM CONCRETE STEP AT FRONT OF HOUSE #32 GLENWOOD.

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GEORGE STREET

BM5 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND CHAPMAN STREET.

BM6 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND SLOAN STREET.

BM7 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF MARKET STREET AND M. STREET.

FLEV. 188.2



G. DOUGLAS VALLEE LIMITED 2 TALBOT STREET NORTH SIMCOE, ONTARIO N3Y 3W4



Project Tit

EIS-ENG-25-35
PORT DOVER ROAD RECONSTRUCTIONS

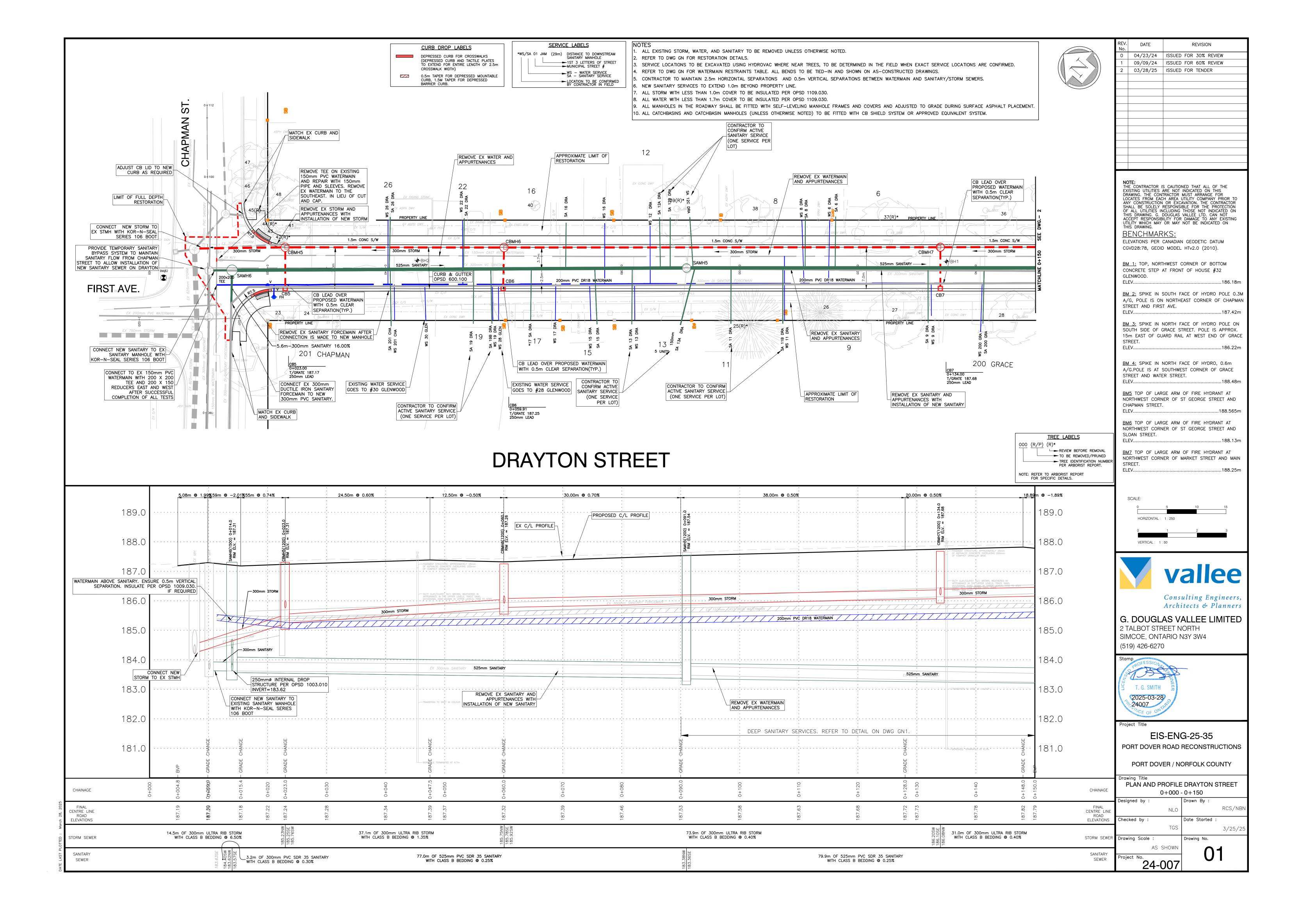
PORT DOVER / NORFOLK COUNTY

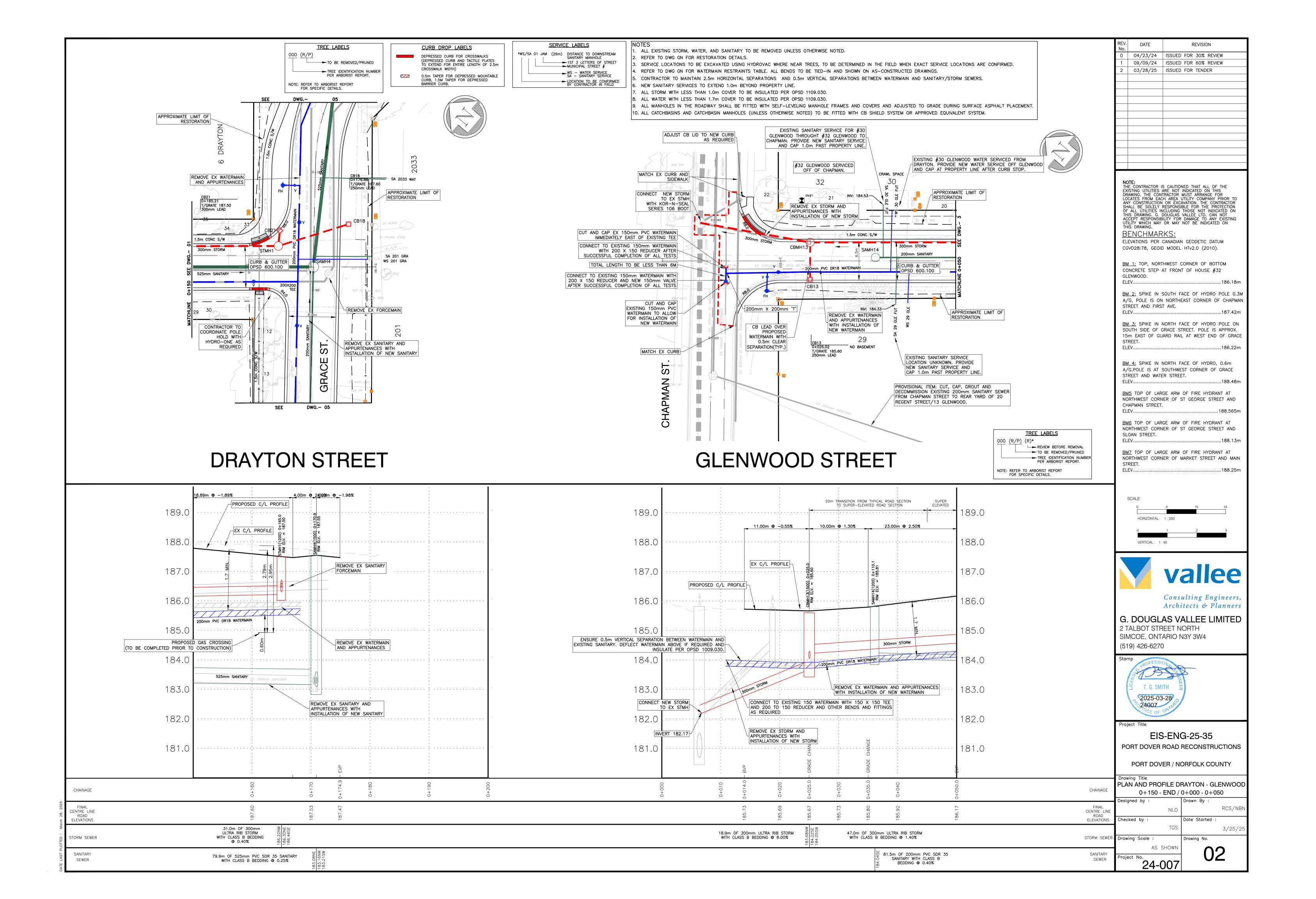
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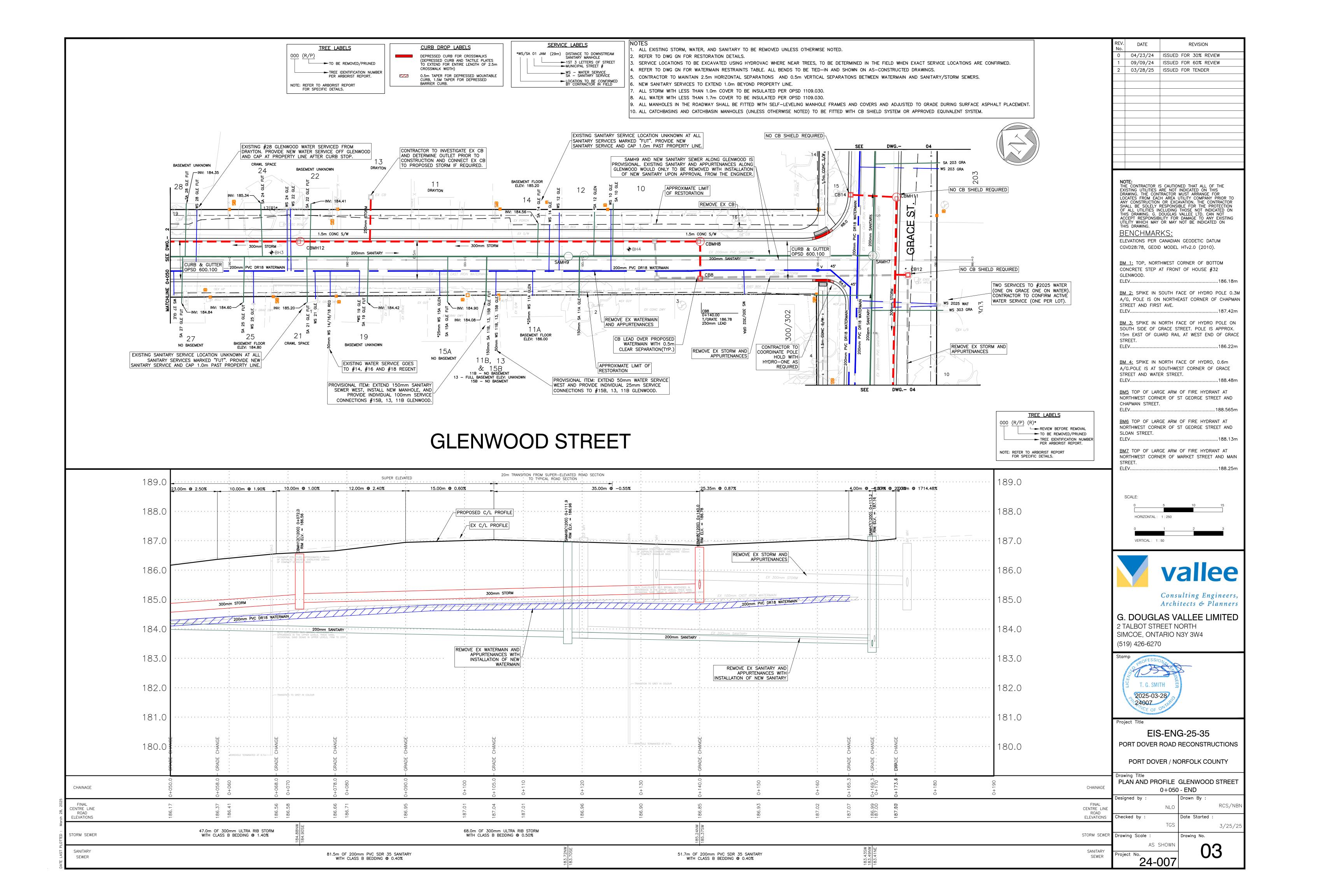
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Project No.
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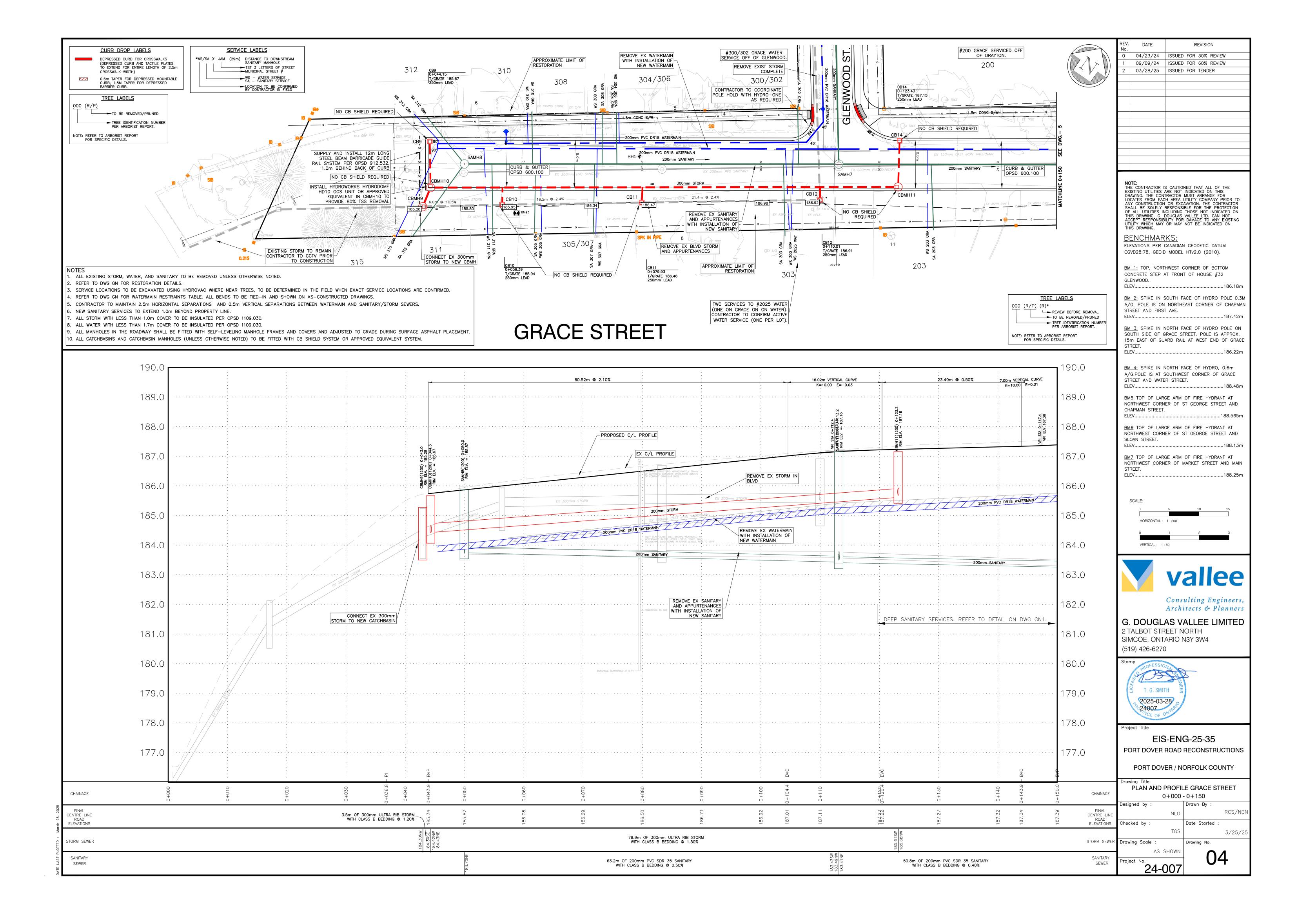
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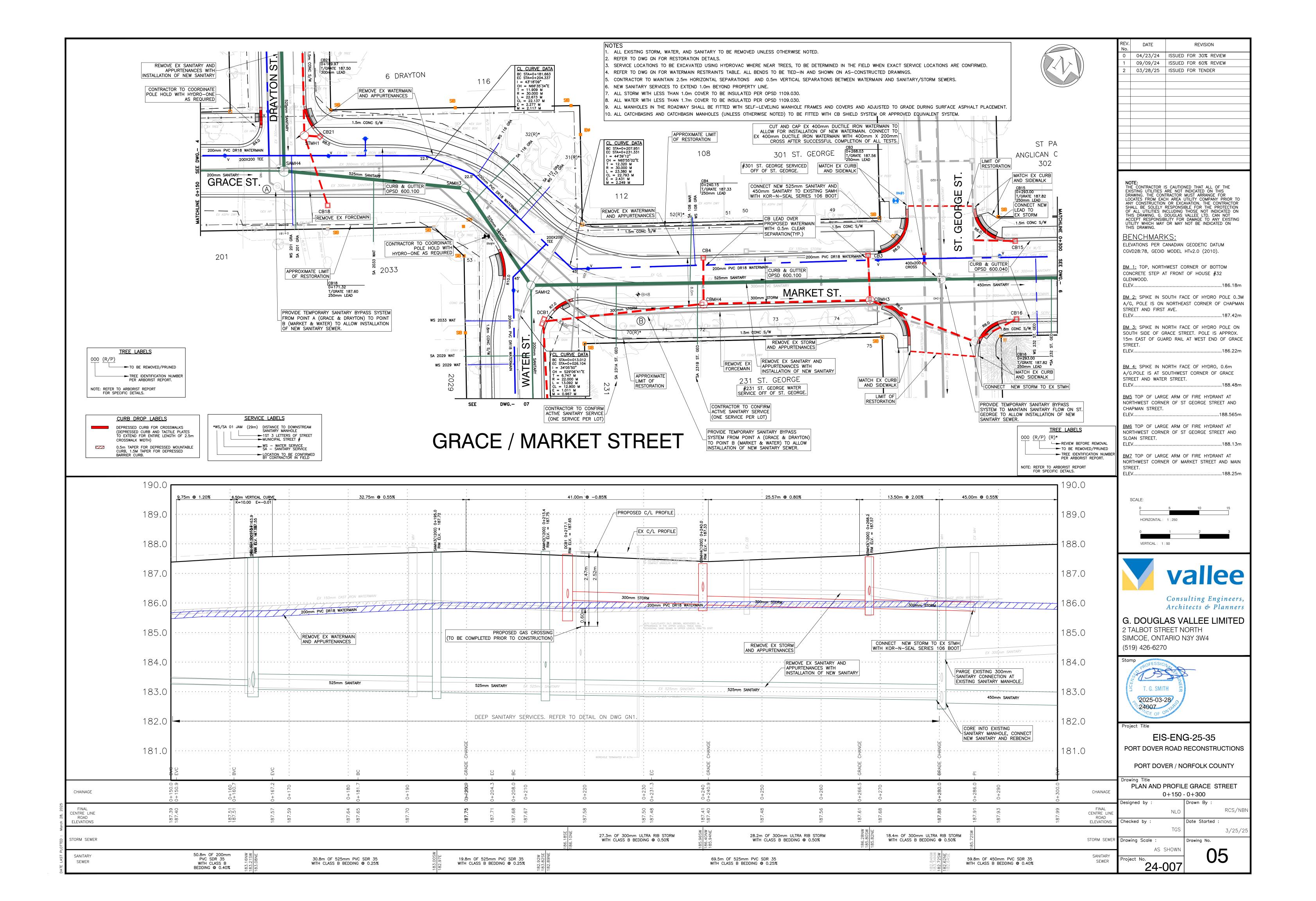
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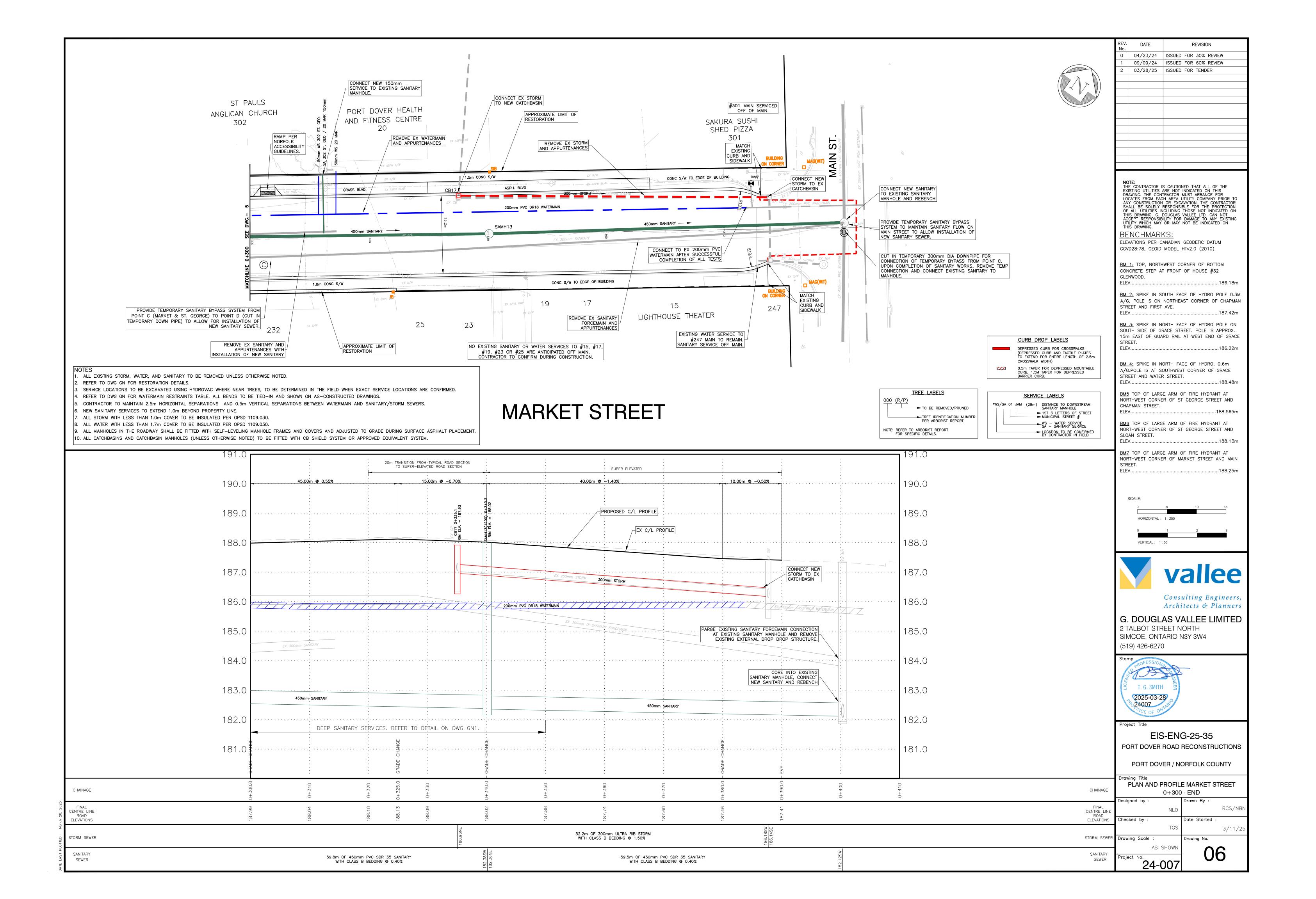


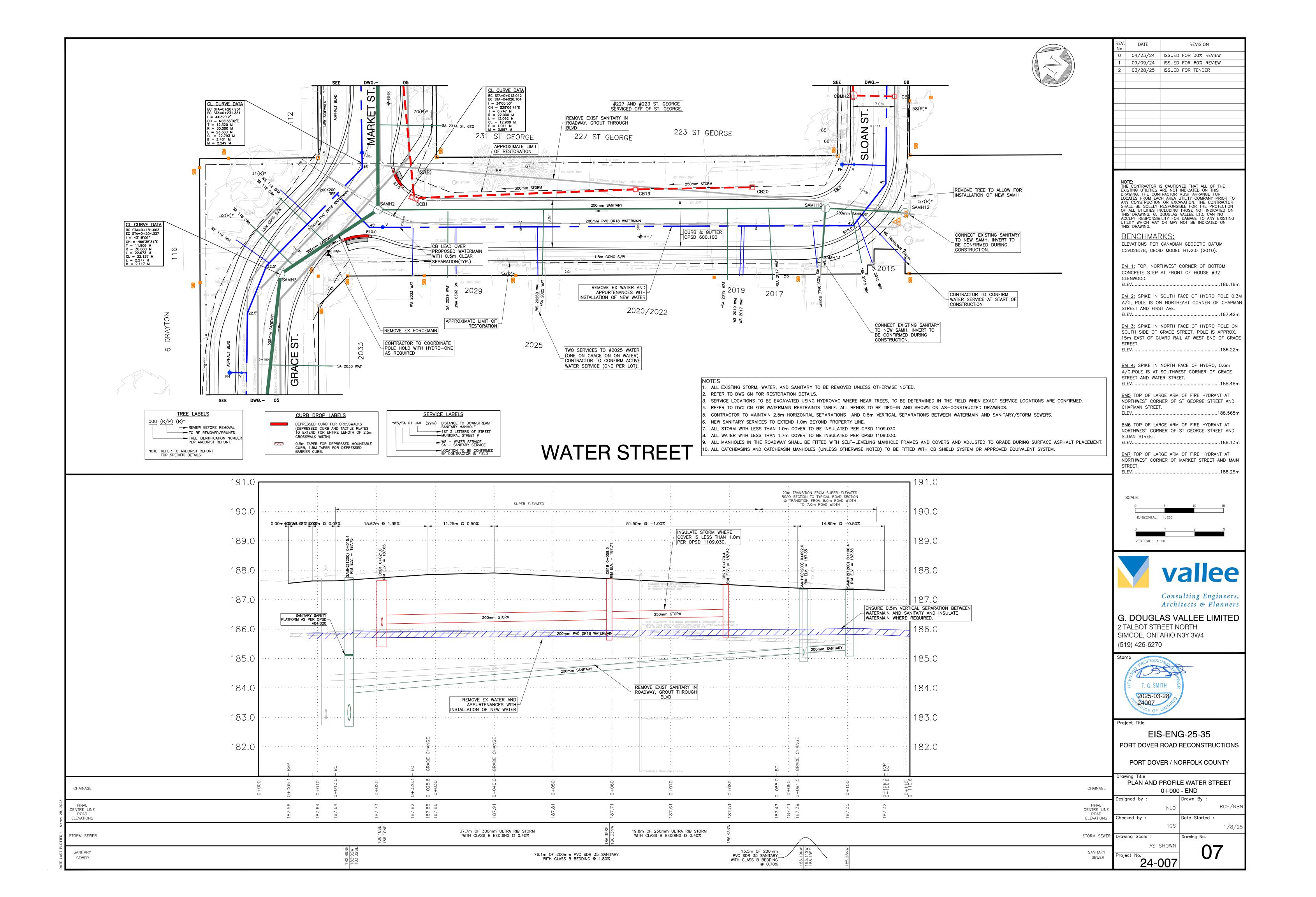


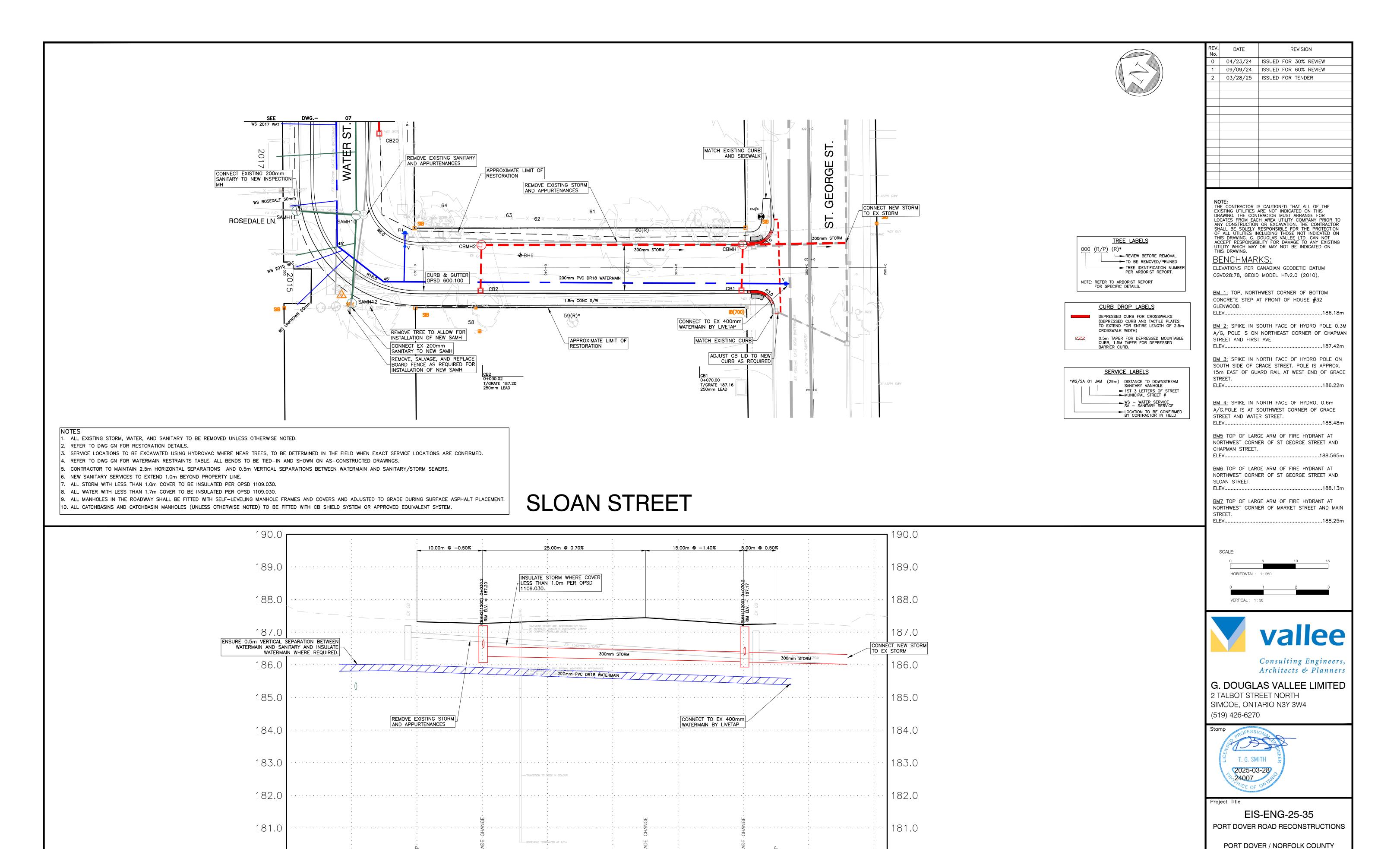












40.1m OF 300mm ULTRA RIB STORM

WITH CLASS B BEDDING @ 0.40%

15.7m OF 300mm ULTRA RIB STORM

WITH CLASS B BEDDING @ 0.41%

CHAINAGE

CENTRE LINE

ROAD ELEVATIONS

STORM SEWER

SANITARY

SEWER

PLAN AND PROFILE SLOAN STREET

CHAINAGE

CENTRE LI

STORM SEWER

SANITARY

SEWER

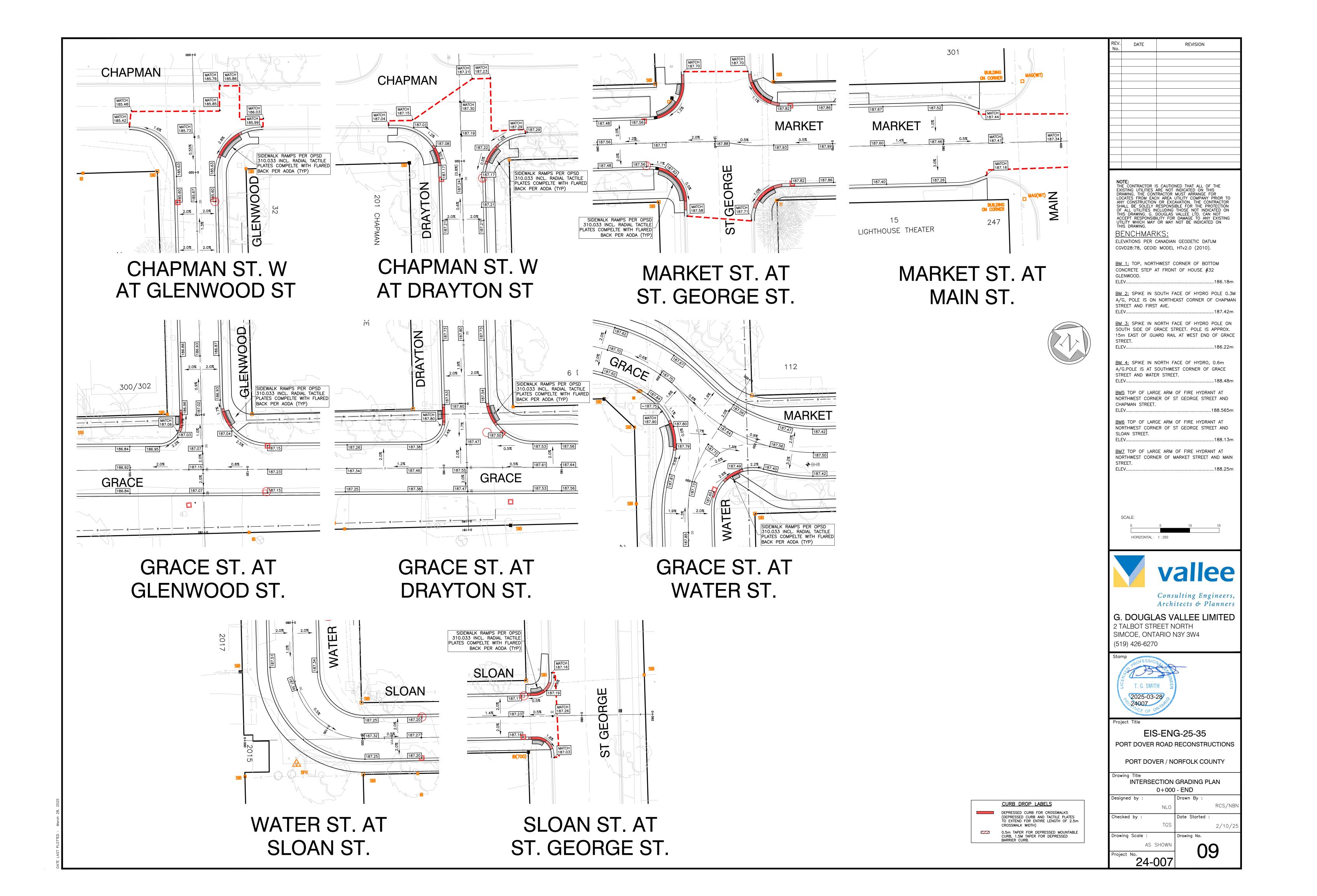
roject No.

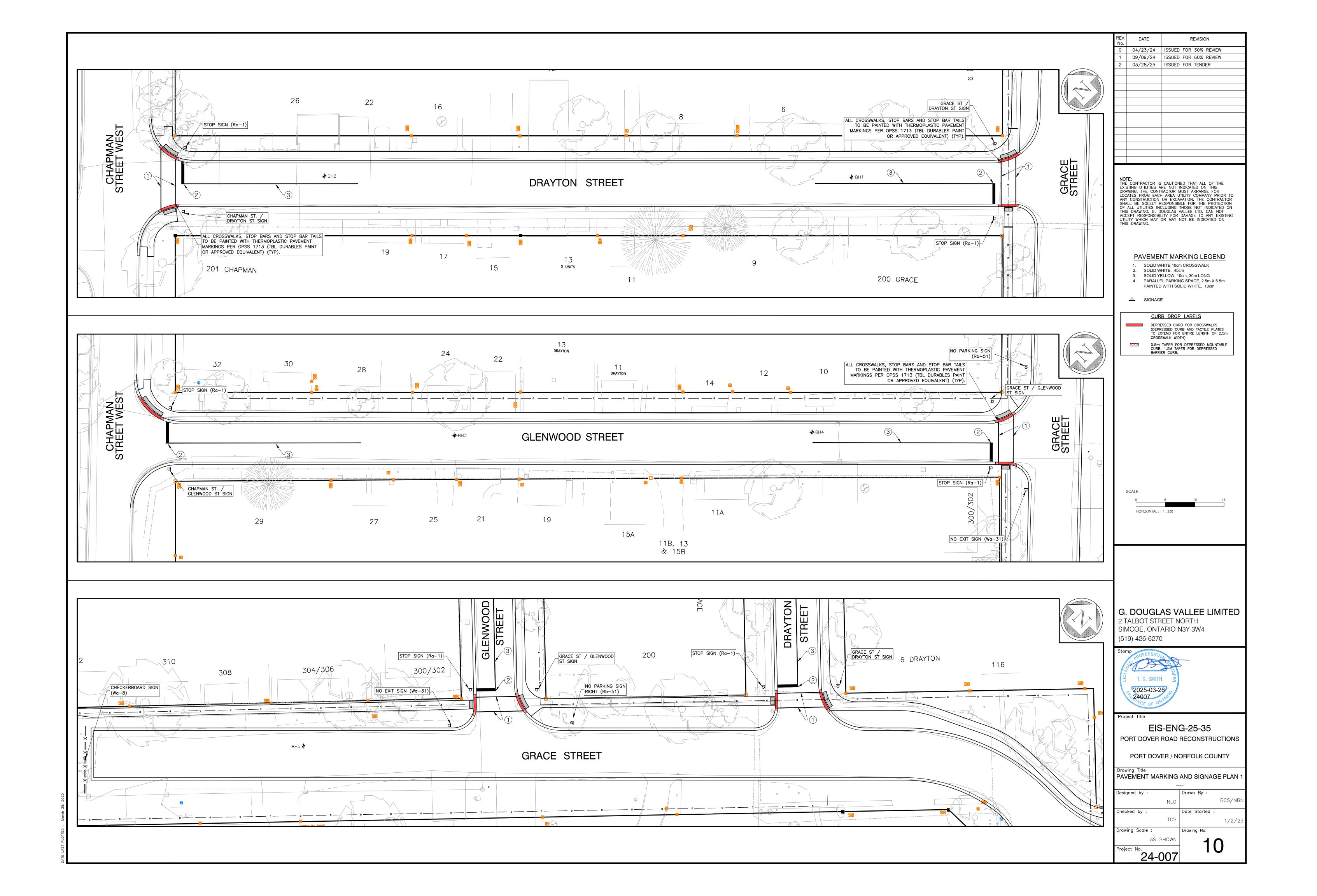
0+000 - END Designed by : RCS/NB ROAD ELEVATIONS Date Started : Checked by

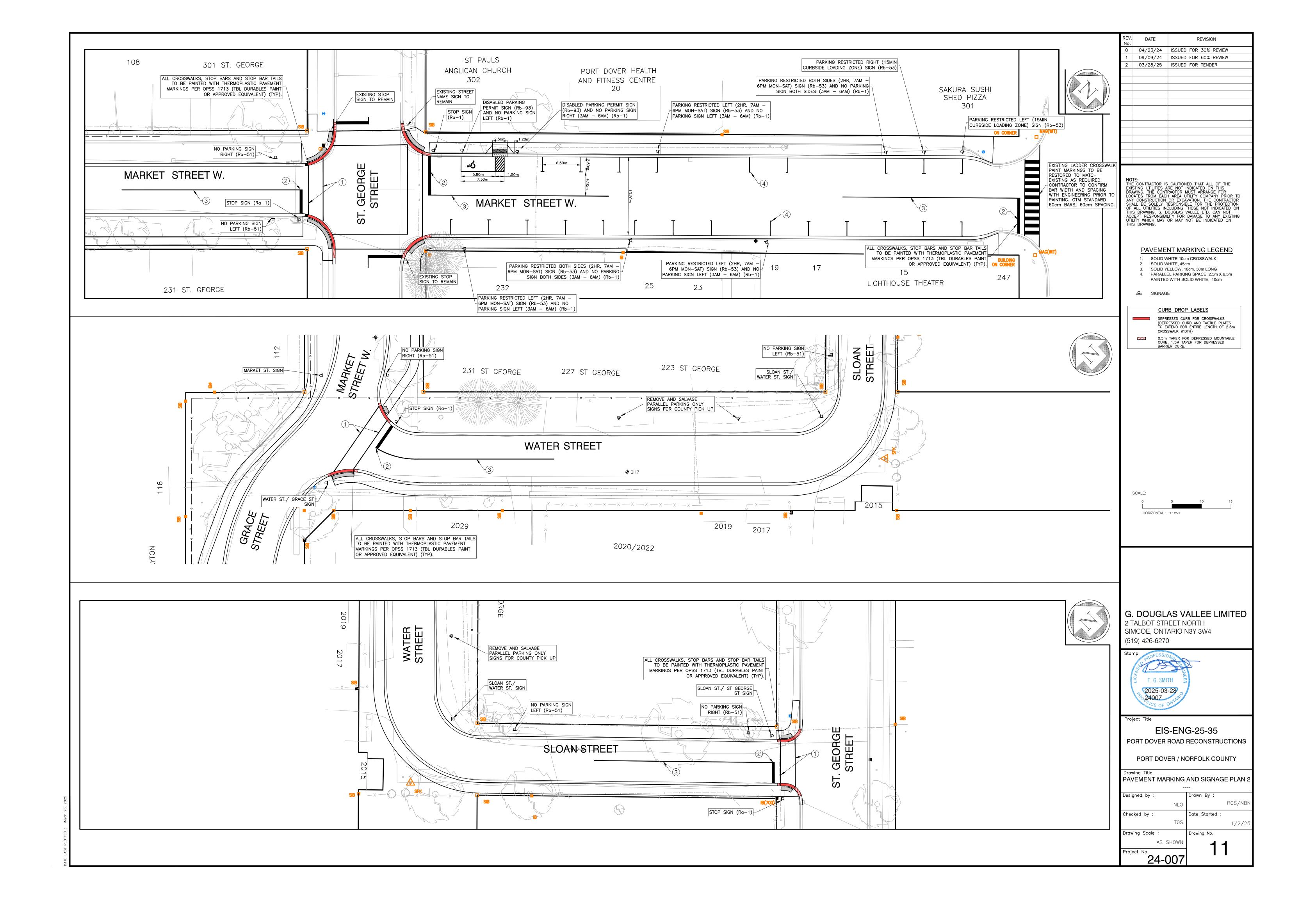
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AS SHOWN 24-007

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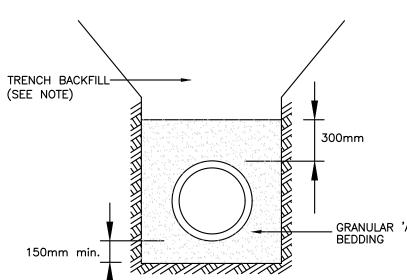






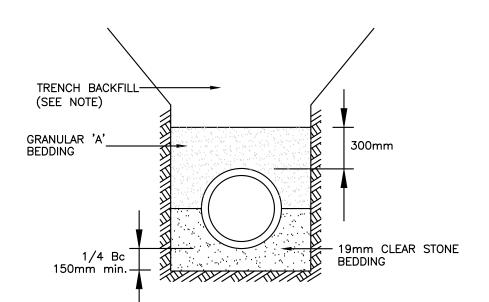
GENERAL NOTES

- PRIOR TO CLOSING ANY STREET, THE CONTRACTOR SHALL OBTAIN CLEARANCE BY 1. FILLING OUT THE COUNTY'S NOTICE OF ROAD CLOSURE FORM AND NOTIFY SCHOOL BUS OPERATORS OF STREETS USED FOR DETOUR AND THE DURATION OF THE DETOUR. THE CONTRACTOR MUST SUPPLY AND MAINTAIN ADEQUATE LOCAL DETOUR SIGNS AND LIGHTS. THE CONTRACTOR MUST MAINTAIN MAXIMUM ACCESS TO ALL PROPERTIES AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES PREPARED BY THE MINISTRY OF NATURAL RESOURCES. THESE MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION FOR THIS STREET AND ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN COMPLETED TO THE SPECIFICATIONS OF THE ENGINEER.
- THE CONTRACTOR IS TO MEET ALL THE REQUIREMENTS OF THE OWNERS OF THE UTILITIES ON THIS PLAN, AND MUST MAKE SATISFACTORY ARRANGEMENTS WITH THE 8. UTILITY COMPANIES FOR CROSSING THEIR INSTALLATIONS AND FOR PROVIDING ADEQUATE PROTECTION DURING CONSTRUCTION. PRIOR TO COMMENCING ANY CONSTRUCTION, ALL EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED AND MARKED. ANY UTILITIES DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTORS EXPENSE.
- ALL ORGANIC, SUITABLE OR UNSUITABLE MATERIALS BENEATH THE ROAD ALLOWANCES MUST BE REMOVED AND THESE AREAS BACKFILLED WITH AN APPROVED FILL MATERIAL, ALL TO THE SATISFACTION OF THE ENGINEER.
- PRIOR TO COMMENCING ANY CONSTRUCTION, ALL EXISTING SEWER OUTLET INFORMATION, BENCHMARKS, DIMENSIONS, ELEVATIONS AND GRADES MUST BE CHECKED AND VERIFIED AND ANY DISCREPANCIES REPORTED TO THE ENGINEER IMMEDIATELY.
- PDC's SHALL BE 100mmø PVC SDR28 WITH CLASS 'B' BEDDING. PDC's SHALL BE LAID AT A 2%(min) GRADE c/w 22.5° OR 45° LONG RADIUS BENDS AS REQUIRED. PDC's SHALL BE CONNECTED TO THE EXISTING PDC's WITH APPROVED WATERTIGHT COUPLINGS. THE CONTRACTOR SHALL USE 22.5° OR 45° LONG RADIUS BENDS AND A MINIMUM 2% GRADE TO AVOID CONFLICTS WITH EXISTING SEWERS, WATERMAINS AND UTILITIES.
- ALL CATCH BASIN LEADS FOR SINGLE CATCH BASINS SHALL BE 250mm Ø PVC SDR35 WITH CLASS 'B' BEDDING, UNLESS OTHERWISE NOTED. ALL CATCH BASIN LEADS FOR TWIN INLET CATCH BASINS SHALL BE 300mm Ø PVC SDR35 WITH CLASS 'B' BEDDING, UNLESS OTHERWISE NOTED.
- ALL PVC WATERMAIN SHALL HAVE TWU 10 COPPER TRACING WIRE LAID ALONG ENTIRE LENGTH. ALL COPPER SERVICES TO BE CONNECTED TO MAIN LINE TRACER WIRE PER COUNTY SPECIFICATIONS. ALL WATERMAIN SHALL HAVE 1.7m TO 1.9m
- ALL NEW WATER SERVICES SHALL BE CROSS-LINKED POLYETHYLENE (PEX) PIPE, CSA CERTIFIED TO CSA B137.5 CONFORMING TO AWWA C904 AND SHALL BE SDR9, PRESSURE RATED AT THE FOLLOWING:
 - 160 PSI AT 73.4°F (1100 kPA AT 23°C) - 100 PSI AT 180°F (690 kPA AT 82°C)
- 80 PSI AT 200°F (55 kPA AT 93°C) NEW WATER SERVICE SIZE TO MATCH EXISTING SERVICE. MIN SIZE 25mm.
- TRACER WIRE SHALL BE TAPPED TO WATER SERVICE LINE 2.0m ON CENTER AND CONNECTED TO CURB STOP TAIL NUT AT PROPERTY LINE AND TO MAIN LINE TRACER WIRE WITH WATER TIGHT CONNECTIONS.
- WATERMAIN FITTINGS SHALL BE MECHANICAL JOINT OR PUSH-ON JOINT INSTALLED WITH APPROVED MECHANICAL THRUST RESTRAINTS.
- ALL MECHANICAL THRUST RESTRAINTS SHALL CONFORM TO CONTRACT DOCUMENT
- 14. ALL NON-COATED METAL SURFACES TO BE COMPLETELY WRAPPED IN DENSO TAPE. WATERMAIN TRACER BOXES TO BE SNAKE PIT LD14TP-ADJ (BLUE) BY COPPEHEAD INDUSTRIES AND LOCATED AT EACH FIRE HYDRANT.
- 16. ALL INSULATED CONFLICTS TO BE SHOWN ON AS CONSTRUCTED PLANS



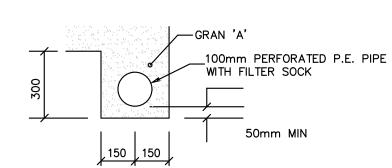
CLASS B BEDDING

- 1. PIPE BEDDING AS SPECIFIED ON PLAN AND PROFILE DRAWINGS COMPACTED TO 95% SPMDD IN LAYERS NOT EXCEEDING 150mm, TO 300mm ABOVE
- 2. TRENCH BACKFILL FROM TOP OF PIPE BEDDING TO UNDERSIDE OF GRANULAR "B" SUBBASE SHALL CONSIST OF APPROVED NATIVE MATERIALS COMPACTED TO 95% SPMDD IN LAYERS NOT EXCEEDING 300mm.
- 3. PRIOR TO PLACING THE GRANULAR SUBBASE MATERIAL, ALL TOPSOIL, SOFT OR OTHERWISE COMPRESSIBLE MATERIAL MUST BE REMOVED FROM THE SUBGRADE AREA, AND THE SUBGRADE SHALL BE PROOF-ROLLED TO COMPACT ANY LOOSE SURFACE ZONES. ALL EXCAVATED AREAS MUST BE BACKFILLED WITH APPROVED ON-SITE NATIVE MATERIALS OR IMPORTED



STONE BEDDING

1. 19mm CLEAR STONE STONE BEDDING SHALL BE USED IN PLACE OF THE STANDARD BEDDING WHERE HIGH HYDRAULIC GRADIENT CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION.



<u>SUBDRAIN DETAIL</u>

GENERAL SEDIMENT CONTROL MEASURES

- PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION ALL EROSION CONTROL MEASURES TO BE IN PLACE BEFORE STARTING CONSTRUCTION AND REMAIN IN PLACE UNTIL
- RESTORATION IS COMPLETE MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION ALL COLLECTED SEDIMENT TO BE DISPOSED OF AT AN APPROVED LOCATION
- MINIMIZE AREA DISTURBED DURING CONSTRUCTION ALL DEWATERING TO BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN PROTECT ALL CATCHBASINS, MANHOLES AND PIPE ENDS FROM

SEDIMENT INTRUSION WITH GEOTEXTILE (TERRAFIX 270R OR

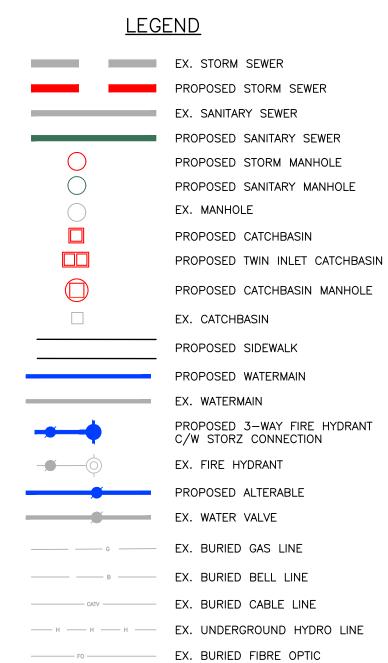
- APPROVED EQUIVALENT) KEEP ALL SUMPS CLEAN DURING CONSTRUCTION PREVENT WIND-BLOWN DUST
- STRAW BALES TO BE USED IN LOCALIZED AREAS AS SHOWN AND AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION

ROAD & BOULEVARD RESTORATION

- ALL DISTURBED AREAS SHALL BE RESTORED AS FOLLOWS: ALL SIDE ROAD CUTS SHALL BE RESTORED WITH -40mm HL3 SURFACE ASPHALT (97% MARSHALL) -50mm HL8 BASE ASPHALT (97% MARSHALL) -150mm GRANULAR "A" BASE (100% SPMDD) -450mm GRANULAR "B" TYPE 2 SUBBASE (100% SPMDD) GRANULAR "B" TO BE EXTENDED
- 0.3m BEHIND BACK OF CURB ALL HIGHWAY ROAD CUTS SHALL BE RESTORED WITH -50mm HL3 SURFACE ASPHALT (97% MARSHALL) -100mm HL8 BASE ASPHALT (97% MARSHALL) -150mm GRANULAR "A" BASE (100% SPMDD) -450mm GRANULAR "B" TYPE 2 SUBBASE (100% SPMDD) GRANULAR "B" TO BE EXTENDED 0.3m BEHIND BACK OF CURB
- BOULEVARDS SHALL BE RESTORED WITH SOD OVER 100mm TOPSOIL (min) UNLESS OTHERWISE NOTED ASPHALT DRIVEWAYS SHALL BE RESTORED WITH 150mm OF GRANULAR "A" (100% SPMDD) WITH 50mm OF HL3

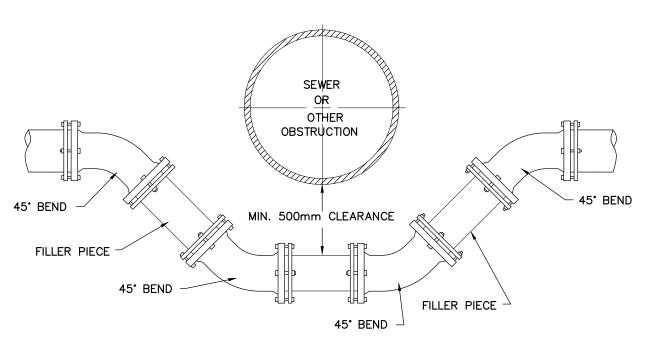
ASPHALT (97% MARSHALL)

- GRAVEL DRIVEWAYS SHALL BE RESTORED WITH 150mm OF GRANULAR "A" (100% SPMDD) WITH 50mm OF HL3 ASPHALT (97% MARSHALL)
- CONCRETE DRIVEWAYS SHALL BE RESTORED WITH 150mm OF GRANULAR "A" (100% SPMDD) AND 150mm OF CONCRETE (CLASS C2) AT RESIDENTIAL DRIVEWAYS AND 200mm OF CONCRETE (CLASS C2) AT COMMERCIAL DRIVEWAYS.



EX. CONCRETE ENCASED

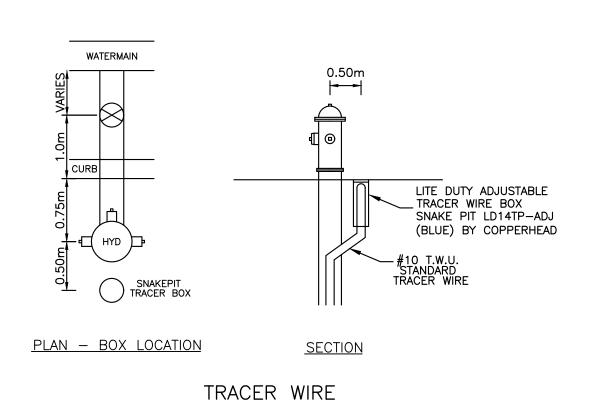
BURIED BELL LINE



WATERMAIN DEFLECTION DETAIL

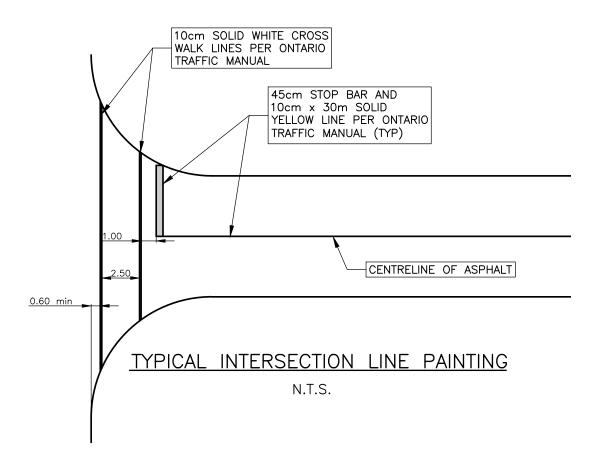
WATERMAIN RESTRAINTS TABLE						
DIAMETER (mm)	MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTINGS (m)					
	11-1/4° 22-1/2° 45° 90° DEAD END AND TEES AND VALVES					
100				4.0	10	
150	4.0			5.5	14	
200				7.0	19	
250				8.5	22	
300			10	26		

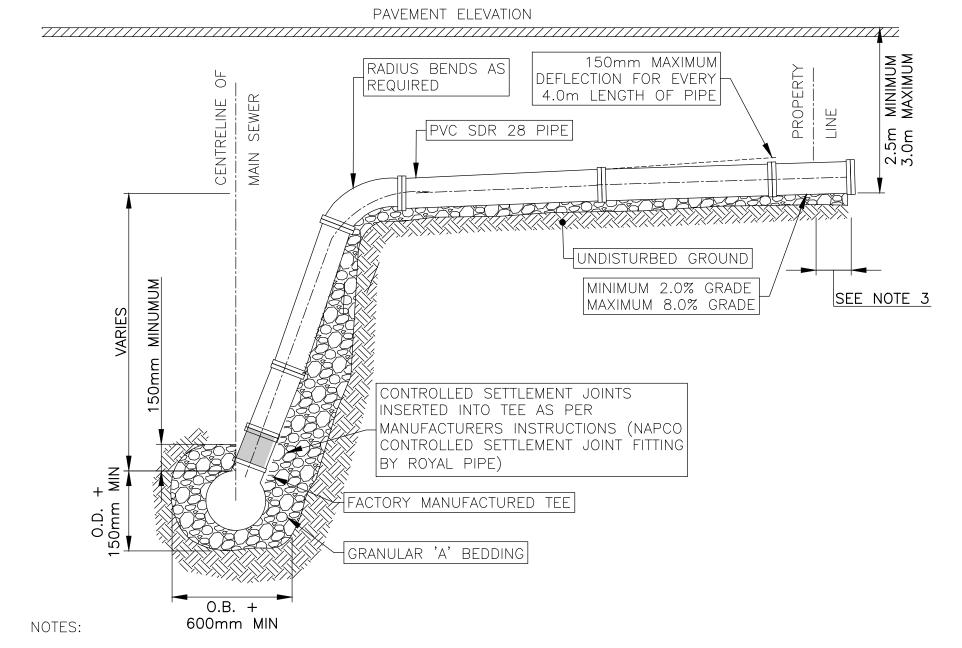
ALL JOINTS WITHIN DISTANCES SHOWN SHALL BE RESTRAINED WITH A MEG-A-LUG JOINT RESTRAINT



<u>BOX DETAIL</u>

N.T.S.





- 1. RISER CONNECTIONS TO BE USED WHEN MAIN SEWER DEPTH IS GREATER THAN 3.5m FROM CENTRELINE PAVEMENT ELEVATION TO OBVERT OF MAIN SEWER.
- 2. RISER CONNECTION TO BE USED WHEN WALLS OF EXCAVATION ARE 20° 30° FROM VERTICAL.
- 3. REFER TO OPSD 1006.010 (LATEST REVISION).

SANITARY SEWER RISER CONNECTION - MAIN 3.5m OR DEEPER N.T.S.

REV. No.	DATE	REVISION

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BENCHMARKS:

ELEV.....

STREET.

SLOAN STREET.

ELEV....

ELEVATIONS PER CANADIAN GEODETIC DATUM CGVD28:78, GEOID MODEL HTv2.0 (2010).

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BM 3: SPIKE IN NORTH FACE OF HYDRO POLE ON SOUTH SIDE OF GRACE STREET. POLE IS APPROX. 15m EAST OF GUARD RAIL AT WEST END OF GRACE

ELEV.... .186.22m BM 4: SPIKE IN NORTH FACE OF HYDRO, 0.6m

A/G.POLE IS AT SOUTHWEST CORNER OF GRACE STREET AND WATER STREET. ELEV....

BM5 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND

CHAPMAN STREET. .188.565m BM6 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND

.188.13m ELEV.... BM7 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF MARKET STREET AND MAIN STREET

.188.25m

G. DOUGLAS VALLEE LIMITED 2 TALBOT STREET NORTH SIMCOE, ONTARIO N3Y 3W4

Consulting Engineers,

Architects & Planners



EIS-ENG-25-35 PORT DOVER ROAD RECONSTRUCTIONS

PORT DOVER / NORFOLK COUNTY

Drawing Title **GENERAL NOTES 1**

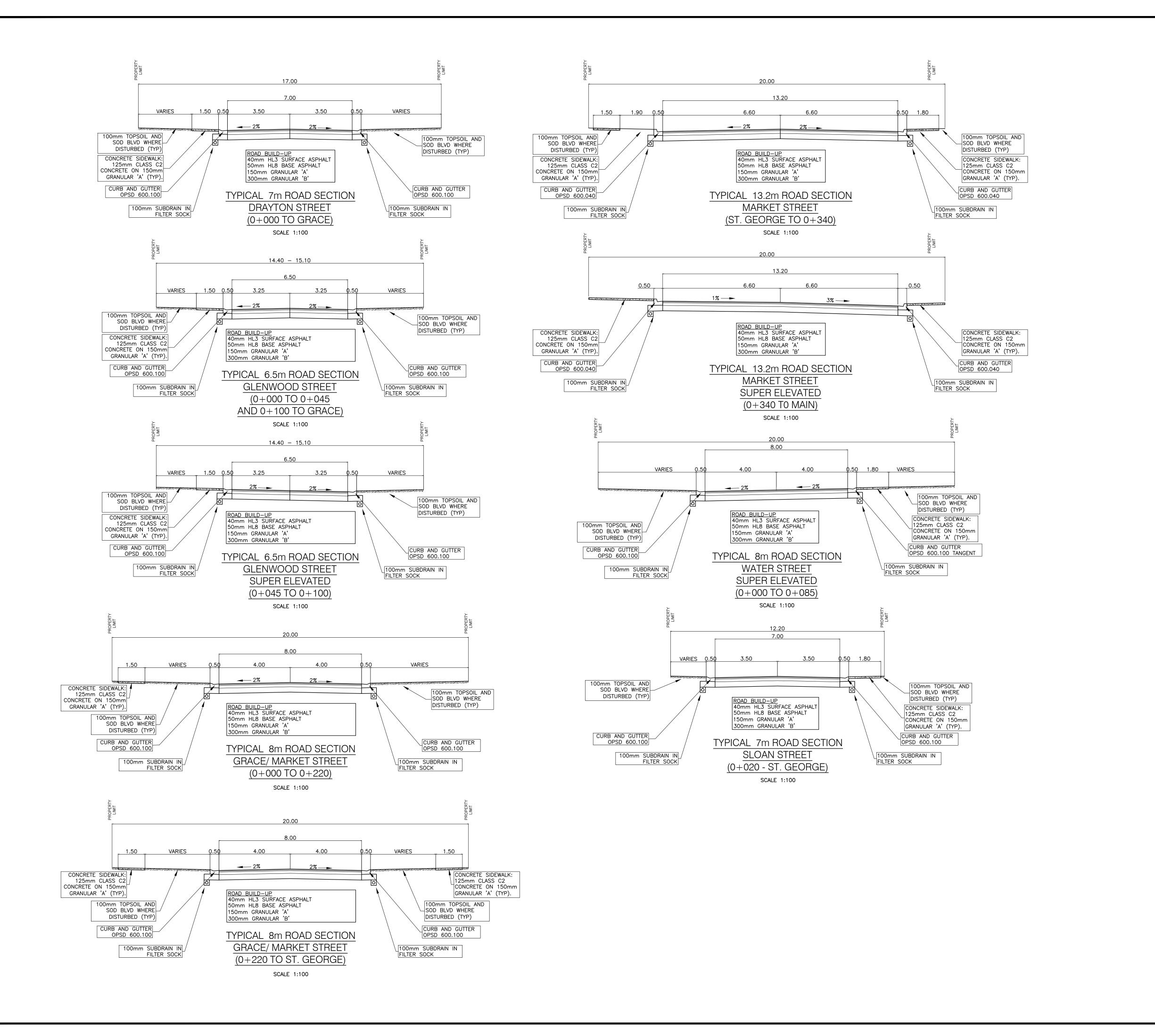
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roject No.

Drawing No.





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.187.42m

.186.22m

188.565m

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BM 4: SPIKE IN NORTH FACE OF HYDRO, 0.6m A/G.POLE IS AT SOUTHWEST CORNER OF GRACE STREET AND WATER STREET. .188.48m ELEV...

BM5 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND CHAPMAN STREET.

BM6 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND SLOAN STREET. ELEV..... .188.13m

BM7 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF MARKET STREET AND MAIN .188.25m ELEV...



G. DOUGLAS VALLEE LIMITED 2 TALBOT STREET NORTH SIMCOE, ONTARIO N3Y 3W4 (519) 426-6270

Architects & Planners

T. G. SMITH

2025-03-28 24007

Project Title

EIS-ENG-25-35 PORT DOVER ROAD RECONSTRUCTIONS

PORT DOVER / NORFOLK COUNTY

Drawing Title **GENERAL NOTES 2**

AS SHOWN

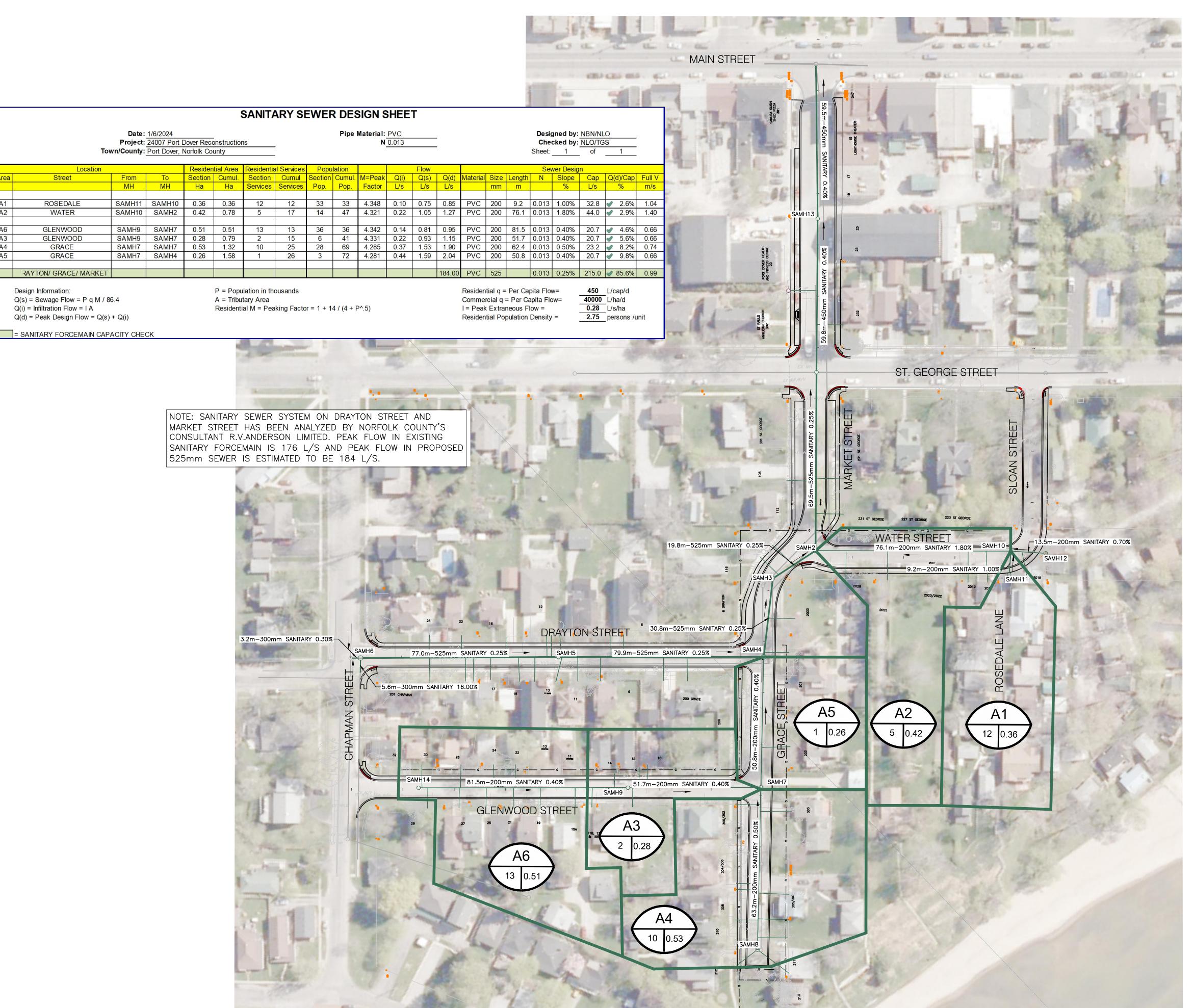
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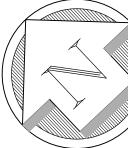
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Project No.

24-007

Drawing No.





	REV. No.	DATE	REVISION				
	0	04/23/24	ISSUED FOR COUNTY REVIEW				
		09/09/24	ISSUED FOR 60% REVIEW				
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...187.42m

.188.48m

.188.13m

..188.25m

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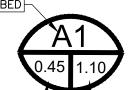
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BM7 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF MARKET STREET AND MAIN STREET.

ELEV... AREA DESCRIBED



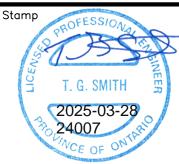
NUMBER OF SERVICES

AREA IN HECTARES



G. DOUGLAS VALLEE LIMITED 2 TALBOT STREET NORTH SIMCOE, ONTARIO N3Y 3W4

(519) 426-6270



EIS-ENG-25-35 PORT DOVER ROAD RECONSTRUCTIONS

PORT DOVER / NORFOLK COUNTY

SANITARY DRAINAGE AREA'S

Designed by : RCS/NB Checked by :

Orawing Scale :

24-007

REV. No.	DATE	REVISION
0	04/23/24	ISSUED FOR COUNTY REVIE
	04/23/24 09/09/24	ISSUED FOR 60% REVIEW

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THE CONTRACTOR IS CAUTIONED THAT ALL OF THE EXISTING UTILITIES ARE NOT INDICATED ON THIS DRAWING. THE CONTRACTOR MUST ARRANGE FOR LOCATES FROM EACH AREA UTILITY COMPANY PRIOR TO ANY CONSTRUCTION OR EXCAVATION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES INCLUDING THOSE NOT INDICATED ON THIS DRAWING. G. DOUGLAS VALLEE LTD. CAN NOT ACCEPT RESPONSIBILITY FOR DAMAGE TO ANY EXISTING UTILITY WHICH MAY OR MAY NOT BE INDICATED ON THIS DRAWING.

BENCHMARKS: ELEVATIONS PER CANADIAN GEODETIC DATUM

ELEV.....

BM 1: TOP, NORTHWEST CORNER OF BOTTOM CONCRETE STEP AT FRONT OF HOUSE #32

CGVD28:78, GEOID MODEL HTv2.0 (2010).

GLENWOOD. ..186.18m ELEV.....

BM 2: SPIKE IN SOUTH FACE OF HYDRO POLE 0.3M A/G, POLE IS ON NORTHEAST CORNER OF CHAPMAN STREET AND FIRST AVE. ELEV..... ...187.42m

BM 3: SPIKE IN NORTH FACE OF HYDRO POLE ON SOUTH SIDE OF GRACE STREET. POLE IS APPROX. 15m EAST OF GUARD RAIL AT WEST END OF GRACE STREET.

..186.22m

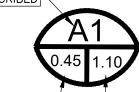
BM 4: SPIKE IN NORTH FACE OF HYDRO, 0.6m A/G.POLE IS AT SOUTHWEST CORNER OF GRACE STREET AND WATER STREET. ELEV..... ..188.48m

BM5 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND CHAPMAN STREET. .188.565m ELEV.....

BM6 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF ST GEORGE STREET AND SLOAN STREET. ELEV..... ..188.13m

BM7 TOP OF LARGE ARM OF FIRE HYDRANT AT NORTHWEST CORNER OF MARKET STREET AND MAIN STREET. ELEV....

AREA DESCRIBED



RUN-OFF COEFFICIENT AREA IN HECTARES

Consulting Engineers, Architects & Planners

G. DOUGLAS VALLEE LIMITED 2 TALBOT STREET NORTH SIMCOE, ONTARIO N3Y 3W4 (519) 426-6270



EIS-ENG-25-35 PORT DOVER ROAD RECONSTRUCTIONS

PORT DOVER / NORFOLK COUNTY

Drawing Title STORM DRAINAGE AREA'S

Designed by : RCS/NB Checked by :

Orawing Scale :

STM 24-007

AND THE SECOND S

7.2m-250mm

ST. GEORGE STREET

STORM 0.41%

Date: 12/16/2024 Storm: 5-Year Pipe Material: PVC<=450, Concrete >450 Designed by: NLO Project: 24-007 Port Dover Roads A= 583.017 **n** 0.013 Checked by: TGS B= 3.007 Town/County: Waterford, Norfolk County Sheet: 1 of 1 Individual Cumulative Time of Rainfall Flow Location Area Sewer Design C*A На На На 2.78*I*A*C Size Slope Capacity (Full) Vel (Full) Length Time Cap From min mm % L/s m/s m min % 0.87 | 40.1 | 0.77 | 53% SLOAN CBMH2 CBMH1 0.27 0.12 10.00 96.03 32.4 300 0.40% 61.16 SLOAN CBMH1 **EX STORM** 0.12 10.77 92.21 31.1 300 0.40% 0.87 | 15.8 | 0.30 | 51% MARKET CBMH4 0.18 0.08 0.08 10.00 96.03 300 0.50% 0.97 | 27.3 | 0.47 | 32% 0.97 28.2 0.49 🚀 86% 0.23 10.47 93.66 58.6 300 0.50% A3 MARKET CBMH3 0.32 0.14 0.00 0.23 57.1 **EXSTHM** 10.96 91.36 300 0.50% 68.38 0.97 | 18.4 | 0.32 | 84% MARKET CBMH3 CBMH7 DRAYTON STMH1 0.16 0.07 0.07 10.00 96.03 19.2 300 0.40% 0.87 31.0 0.60 🗳 31% 0.10 DRAYTON CBMH7 CBMH6 0.22 0.10 10.60 93.05 25.6 300 0.40% 0.87 73.9 1.42 🗳 42% 86.76 DRAYTON CBMH6 CBMH5 0.62 0.28 0.35 12.02 300 1.35% 1.59 37.1 0.39 🗳 75% **EXSTHM** 0.18 0.08 0.43 12.41 85.22 102.3 300 6.50% 246.54 3.49 | 14.5 | 0.07 | 42% DRAYTON CBMH5 CBMH8 CBMH12 0.34 0.15 10.00 96.03 300 0.50% 68.38 0.97 | 78.0 | 1.34 | 60% A8 GLENWOOD 0.15 40.8 0.27 11.34 300 1.50% 1.68 47.0 0.47 🗳 58% **GLENWOOD** CBMH12 CBMH13 0.12 89.62 118.43 87.62 **EXSTHM** 0.41 99.7 300 8.00% 273.51 3.87 | 18.9 | 0.08 🗳 36% A10 GLENWOOD CBMH13 0.30 0.14 11.81 **GRACE** CBMH11 CBMH10 0.78 0.35 0.35 10.00 96.03 300 1.50% 118.43 1.68 | 78.9 | 0.78 | 79% **GRACE** CBMH9 0.00 0.35 10.78 92.16 89.9 300 1.20% 1.50 3.5 0.04 4 85% CBMH10 0.00 GRACE CBMH9 EX CB 0.35 10.82 91.97 89.7 300 | 12.45% | 4.83 | 24.4 | 0.08 | 26% 341.20 OUTLET 0.00 0.35 10.91 91.58 300 | 32.00% | 547.02 | 7.74 | 16.3 | 0.04 | 16% GRACE EX CB 89.4 A12 MARKET CB16 **EX STORM** 0.22 0.20 0.20 10.00 96.03 52.9 300 | 1.00% | 96.70 | 1.37 | 7.2 | 0.09 | 55%

10.00

10.52

96.03

93.43

48.1

93.5

300 | 1.50% | 118.43 | 1.68 | 52.2 | 0.52 | 41%

300 | 1.50% | 118.43 | 1.68 | 9.1 | 0.09 | 79%

STORM SEWER DESIGN SHEET

Existing Storm Sewer Proposed Storm Sewer

MARKET

MARKET

A13

CB17

EX CB

EX CB

EX STORM

0.20

0.20

0.18

0.36

0.18

0.18

		28.2m-300mm 0-260 STORM 0.50%	40.1m-300mm STORM 0.40% 0-040
A7 0.45 0.18 A6 0.45 0 14.5m-300mm STORM 1.35%	0.62 12 31.0m-300mm	DCB1 37.7m STORM	CB19 19.8m-250mm 0.40% STORM 0.40% ER STREET 2019 2017 2020/2022
CBMH5 CBMH6 CBS CB6 CB5 CB6 CB7 CB5 CB6 CB7 CB5 CB6 CB7	DRAYLONSIREFI	A11 0.45 0.78	A1
CBMH13 CBMH12 CBMH12 A10 CBMH12	A8 68.0m-300mm STORM 0.50% 0.45 0.45 CBMH8 WOOD STREET 11A 15A 111 13 88	CB14 CBMH11 0 120 CB12 %	
0.45 0.30	5 0.27	CB11 CB10 CB10	
		3.5m-300mm STORM 1.20% CBMH10 CBMH9	

CEPCES ON CALL SALE SELECTION

52.2m-300mm

STORM 1.50%

STORM 0.50% 0 280

2/5/25

AS SHOWN

