File #:	**2630**
Date:	**December 20, 2024**

Town of Caledon
c/o MHBC
113 Collier Street
Barrie, ON, L4M 1H2

Re:	**Functional Servicing Report in Support of OPA** **Wildfield Village Secondary Plan** **Town of Caledon, Region of Peel**

The following analysis has been prepared to provide a summary of the existing and planned sanitary and water distribution systems and associated improvements located throughout the Region of Peel and Town of Caledon, that support the development of the Wildfield Village Secondary Plan (WVSP) area. It also includes a summary of the ongoing stormwater management (SWM) analysis that is current underway as part of the WVSP Local Subwatershed Study (LSS).

The WVSP area is part of the future development areas identified in the Region Official Plan (2022) and Town of Caledon Official Plan (2024). The WVSP area is approximately 358.1 hectares (ha) in size, and is bound by Centreville Creek Road to the west, Mayfield Road to the south, the planned Highway 413 Transportation Corridor to the north and the West Humber River to the east (refer to **Figure 1**).

Sanitary Sewer Servicing

Existing and Planned Sanitary Servicing

There are no existing sanitary sewers within the WVSP area or on the arterial roads immediately surrounding the WVSP area. An existing 1200 mm diameter sanitary sewer is located on The Gore Road approximately 615 m south of Mayfield Road. There is also an existing sanitary sewer (size to be confirmed) located on McVean Drive at the intersection with Countryside Drive approximately 1.25 km south of the WVSP area.

The planned sanitary servicing improvements in the Region of Peel and Town of Caledon have been determined through the Region of Peel Water and Wastewater Master Plan (2020), Region of Peel Settlement Boundary Expansion (SABE) Water and Wastewater Servicing Analysis (2022), and ongoing coordination with Region of Peel staff. The WVSP area is identified as Secondary Plan Area G2 in the Town of Caledon Official Plan (2024). Relevant figures from the Region documents and coordination noted above are provided in **Attachment A**. Through the documents and discussions outlined above, it has been confirmed that the WVSP has been accounted for by the Region with regard to wastewater servicing through the extension of existing services.

The Region of Peel Water and Wastewater Master Plan (2020) identifies the servicing needs of future development to 2041. The Master Plan projects proposed in this document include watermain and sanitary sewer projects throughout the Region, including the planned growth areas in Caledon north of Mayfield Road and in west Bolton, but do not include the development area surrounding the anticipated Bolton GO station. Several wastewater projects are noted in the immediate vicinity of the WVSP including: T-085 (The Gore Road from current termination to Mayfield Road) and ST-256 (McVean Drive from current termination to Mayfield Road).

The Region of Peel SABE Water and Wastewater Servicing Analysis (2022) identifies the servicing needs of the anticipated growth areas in Caledon from 2041 to 2051 including the development area surrounding the anticipated Bolton GO Station. The analysis focused on conveyance infrastructure and did not include a summary of water treatment plant and wastewater treatment plant improvements required beyond those identified in the Region of Peel Water and Wastewater Master Plan (2020). The WVSP area was identified as part of Sanitary Servicing Area 3. No additional wastewater projects were noted in the immediate vicinity of the WVSP beyond those identified in the Region of Peel Water and Wastewater Master Plan (2020).

Draft Development Charge (DC) Project Mapping (2024) was obtained from Region of Peel staff which illustrates preliminary sanitary projects to support the full buildout of the SABE including the WVSP. It should be noted that the projects and construction timing shown are preliminary only and subject to change. The Draft DC Project Mapping (2024) shows The Gore Road Trunk Sewer (T-085) extending north of Mayfield Road to King Street and the McVean Drive trunk sewer extending north of Mayfield Road on Centreville Creek Drive to immediately south of the planned Highway 413 (refer to **Attachment A**).

A first submission of the detailed design of project T-085 has been completed by Schaeffers and Associates Limited and reviewed by Region of Peel staff. The proposed 1200 mm diameter concrete sanitary sewer will extend north on The Gore Road from the current termination point approximately 80 m north of Beamish Court to immediately south of the planned Highway 413. The design drawings show individual plugs at the proposed maintenance hole structures to accept sanitary flows from the WVSP area at the anticipated collector road locations and at the intersection with Mayfield Road. The latest version of the design drawings has been provided in **Attachment B** for reference.

Proposed Sanitary Servicing

The Master Sanitary Drainage Plan (refer to **Figure 2**) shows local wastewater mains (i.e. sanitary trunk sewers) and drainage boundaries per the latest Region of Peel Draft DC Project Mapping (2024). As shown, the WVSP area will be serviced via several connections to the future wastewater main on The Gore Road (project T-085) at each of the proposed collector road intersections. The internal alignment and location of the stubs for the proposed sanitary sewers are preliminary only and subject to change

at the Draft Plan of Subdivision stage. No external drainage is proposed to be conveyed through the WVSP area in accordance with the latest Region of Peel Draft DC Project Mapping (2024).

The sanitary sewers within the WVSP area are anticipated to have slopes ranging between 0.5% and 2% (typically). Slopes of less than 0.5% may be required for trunk sanitary sewers to limit the depth of trunk infrastructure while meeting minimum velocity criteria. Preliminary grades and inverts will be provided as part of the Phase 2 LSS which is currently underway.

The sanitary sewer system will be designed in accordance with the Region of Peel and MECP criteria, including but not limited to:

- Residential Sanitary Generation Rate: 290 L/c/d,
- Commercial Sanitary Generation Rate: 270 L/emp/ha
- Population Density:
  - Single detached: 4.2 person/unit,
  - Semi-detached: 4.2 person/unit,
  - Townhouse: 3.4 person/unit,
  - Large Apartment (greater than 1 bedroom): 3.1 person/unit,
  - Small Apartment (less than or equal to 1 bedroom): 1.7 person/unit,
- Peaking Factor: Harmon (Max. 4.0),
- Infiltration Rate: 0.26 L/s/ha,
- Minimum Pipe Size: 200 mm diameter,
- Minimum Pipe Cover: 2.5 m below centerline road elevation,
- Minimum Actual Velocity: 0.75 m/s, and
- Maximum Velocity: 3.0 m/s.

A preliminary sanitary design sheet has been prepared based on the proposed Land Use Plan for the WVSP area and assumed land-use statistics. The sanitary design sheet and Land Use Plan are provided in **Attachment C**. The WVSP area sanitary drainage boundaries, defined by the preliminary limits of the Natural Heritage System (NHS) as determined in the Phase 1 LSS (SCS Consulting Group Ltd. and GEI, November 2024), will be refined through the Secondary Plan and Draft Plan approval processes. Therefore, the populations and design flows are preliminary only and are subject to change.

Based on the preliminary design flows to each of the outlet locations to The Gore Road wastewater main, the plug sizes shown on the first submission project T-085 detailed design drawings prepared by Schaeffers and Associates Ltd. will need to be increased.

Preliminary grading and servicing obvert design will be provided as part of the Phase 2 Local Subwatershed Study.

Water Supply and Distribution

Existing and Planned Water Servicing

There are existing watermains on several arterial roads surrounding the WVSP area including 200 mm diameter watermains on Centreville Creek Road, Healey Road, and The Gore Road; and, a 300 mm diameter watermain, 600 mm diameter watermain (Pressure Zone 5), and 750 mm diameter watermain (Pressure Zone 6) on Mayfield Road (refer to **Figure 3**). The WVSP area is located entirely within Pressure Zone 6 which has a serviceable elevation of 214.5 m to 259.1 m. The WVSP is located within the East Region of Peel transmission system. The system is fed from Lake Ontario and treated at the Arthur P. Kennedy Water Treatment Plant (HLP1C, HLP2C). Water storage and distribution for the WVSP area is provided by the Tullamore Reservoir (ES4) and Pumping Station (LLP5E, HLP6E) and the Bolton Elevated Tanks (BS6).

The planned water servicing improvements in the Region of Peel and Town of Caledon have been determined through the Region of Peel Water and Wastewater Master Plan (2020), and the Region of Peel SABE Water and Wastewater Servicing Analysis (2022). The WVSP area is identified as Secondary Plan Area G2 in the Town of Caledon Official Plan (OP, 2024). Relevant figures from the Region documents and Town OP are provided in **Attachment A**. Through the documents and discussions outlined above, it has been confirmed that the WVSP area has been accounted for by the Region with regard to water servicing through the extension of existing services and planned water servicing improvements.

The Region of Peel Water and Wastewater Master Plan (2020) identifies the servicing needs of future development to 2041. Several water projects are noted in the immediate vicinity of the Secondary Plan including: D-085 (Mayfield Road from Centreville Creek Road to the Gore Road), and D-184 (Centreville Creek Road from Mayfield Road to a mid-block connection). Per correspondence with Region of Peel staff, it is understood that project D-085 has been completed.

The Region of Peel SABE Water and Wastewater Servicing Analysis (2022) identifies the servicing needs of the anticipated growth areas in Caledon from 2041 to 2051 including the development area surrounding the anticipated Bolton GO Station. The WVSP Area was identified as part of water pressure subzone 6E. No additional water projects were noted in the immediate vicinity of the WVSP beyond those identified in the Region of Peel Water and Wastewater Master Plan (2020).

Draft DC Project Mapping (2024) was obtained from Region of Peel staff which illustrates preliminary watermain projects to support the full buildout of the SABE including the WVSP**.** It should be noted that the projects and construction timing shown are preliminary only and subject to change. The Draft DC Mapping shows a proposed 600 mm distribution main on The Gore Road extending north of Mayfield Road to Healey Road and a mid-block distribution main from Centreville Creek Drive to The Gore Road. A 400 mm diameter distribution main and 900 mm diameter transmission main are proposed on Healey Road; however, these projects are located outside of the WVSP Area (refer to **Attachment A**).

A first submission of the detailed design of the distribution mains on Centreville Creek Road and The Gore Road has been completed by Schaeffers and Associates Limited and reviewed by Region of Peel staff. The proposed 400 mm diameter PVC watermain on Centreville Creek Road will extend north from Mayfield Road to the future mid-block collector road. The proposed 600 mm diameter concrete pressure pipe watermain on The Gore Road will extend north from Mayfield Road to the future mid-block collector road. The design drawings show proposed chambers for future connections from the WVSP area at anticipated collector road locations. The latest version of the design drawings has been provided in **Attachment B** for reference.

Proposed Water Servicing

The Master Water Servicing Plan (**Figure 3**) shows proposed local distribution mains and future Regional distribution and transmission mains per the latest Region of Peel Draft DC Project Mapping (2024), and the approximate pressure zone boundaries. As noted above, the WVSP area is located in Pressure Zone 6.

Servicing for the WVSP area will be provided by the distribution mains planned by the Region with connections to the existing distribution mains on Mayfield Road and the future distribution mains on Centreville Creek Road and The Gore Road.

The watermain system will be designed in accordance with the Region of Peel and MECP criteria including:

- Residential water usage rate: 280 L/c/d,
- Commercial water usage rate: 300 L/emp/ha,
- Population Density:
  - Single detached: 4.2 person/unit,
  - Semi-detached: 4.2 person/unit,
  - Townhouse: 3.4 person/unit,
  - Large Apartment (greater than 1 bedroom): 3.1 person/unit,
  - Small Apartment (less than or equal to 1 bedroom): 1.7 person/unit,
- Minimum Pipe Size: 150 mm diameter,
- Minimum Pipe Depth: 1.7 m, and
- Maximum Hydrant Spacing: 150 m.

Preliminary population estimates for the development blocks of the WVSP area have been prepared based on the proposed Land Use Plan for the WVSP area and assumed land-use statistics. The Land Use Plan and preliminary population estimates are provided in **Attachment C,** noting that the estimates are to be incorporated into the Region of Peel water model. The WVSP area boundaries as defined by the preliminary limits of the NHS described in the Phase 1 LSS (SCS Consulting Group Ltd. and GEI,

November 2024), will be refined through the Secondary Plan and Draft Plan approval process. Therefore, the populations are preliminary only and are subject to change.

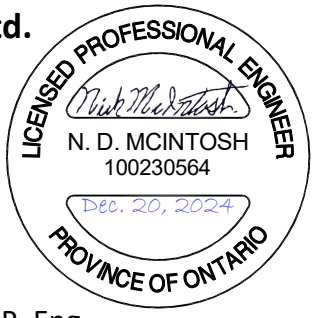
Storm Servicing and Stormwater Management

Storm servicing, including the establishment of stormwater management (SWM) criteria and preliminary SWM facility locations, will be determined through the ongoing LSS being prepared by SCS Consulting Group and GEI in support of the WVSP. The SWM design for the Secondary Plan will meet all relevant quantity, quality and erosion control, temperature mitigation, water balance, and conveyance criteria. SWM facilities will generally be located at the existing low points throughout the WVSP area adjacent to existing conveyance features and watercourses to provide a suitable outlet. Refer to the Wildfield Village Land Use Concept Plan provided in **Attachment C** for preliminary SWM facility locations.

Please contact the undersigned if you have any questions or require any additional information.

Sincerely,

SCS Consulting Group Ltd.



Nicholas McIntosh, M.A.Sc., P. Eng.
nmcintosh@scsconsultinggroup.com

Andrea Keeping, P.Eng.
akeeping@scsconsultinggroup.com

Attachments

Figure 1 – Site Location Plan
Figure 2 – Master Sanitary Drainage Plan
Figure 3 – Master Water Servicing Plan
Attachment A – Region of Peel Documents
Attachment B – Detailed Design Drawings
Attachment C – Preliminary Population Estimates and Sanitary Design Sheet

c. Mr. Glenn Pitura, Arutip Engineering Ltd.
Mr. Paul Lowes, SGL Planning & Design Inc.

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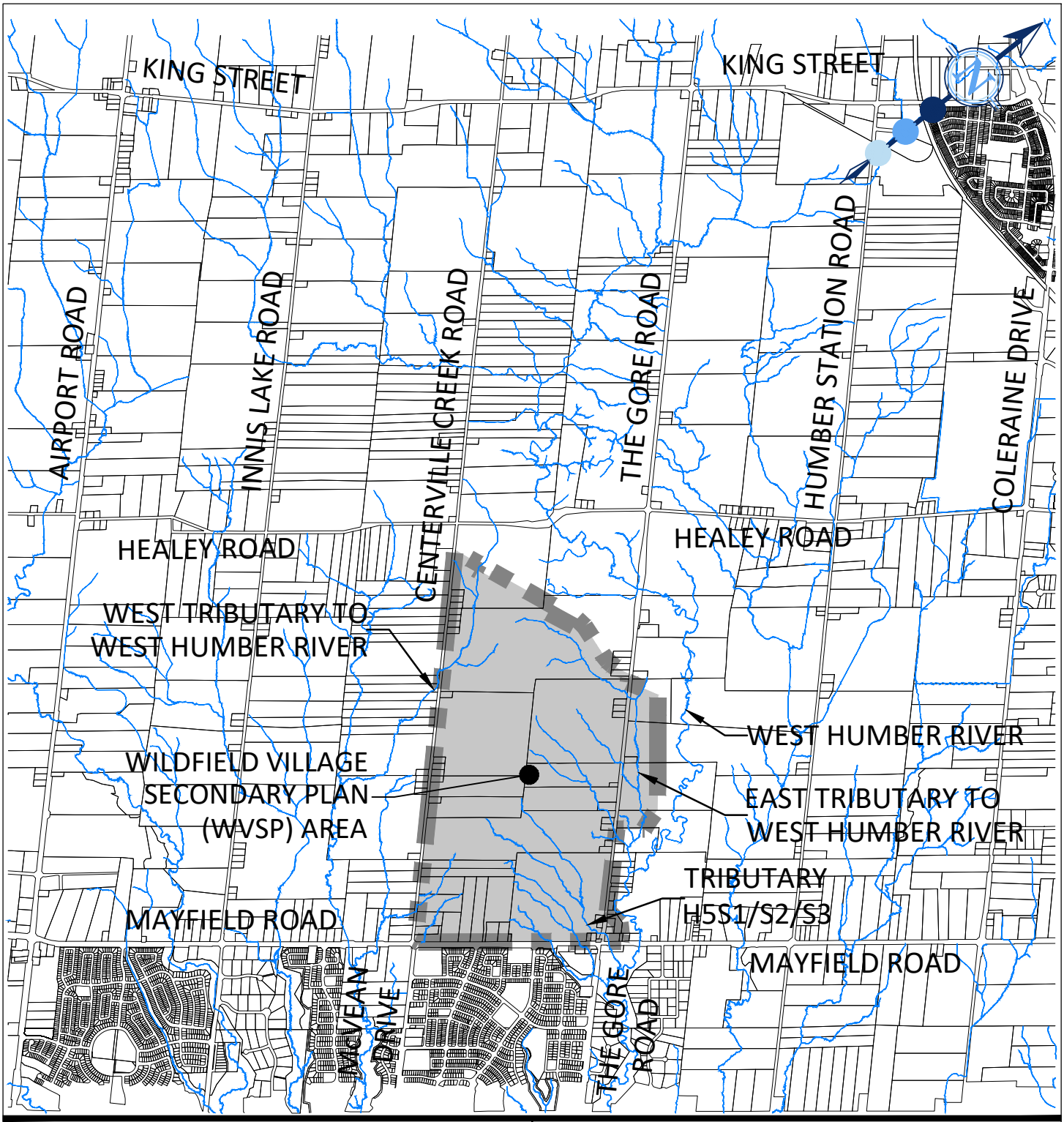

SCS consulting group ltd

30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

WILDFIELD VILLAGE

KEY PLAN

DESIGNED BY:	R.R.B.	CHECKED BY:	A.R.K.	PROJECT No:	FIGURE No:
SCALE:	N.T.S.	DATE:	DECEMBER 2024	2630	1

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HEALEY ROAD

GORD DENNIS

BURSTEIN FAMILY

TAMMAO
SIDHU
GIGLIOTTI
DHALIWAL
CIARALLO
MOHIL
SAHOTA

GLOBAL
PROPERTIES (2) INC.

154.88ha
17,456 | 101

PIERCY,
BROOK, EZARD

BADWAL
PESCITELLI
CHANA SINGH
ANTHONY

SAHOTA
GULLUSCI
GRECO

GLOBAL
PROPERTIES (1) INC.

GLOBAL
PROPERTIES INC.

7.75ha
945 | 102

OUTLET 1 - 600mm Ø
plug @0.30%

COLLURA
CALCE
COPETTI
FOSAROLLI

TONY &
GINA ABELLA

DOIRON

ONKAR
INVESTMENT INC.

50.87ha
9,008 | 103

12.47ha
1,520 | 104

OUTLET 2 - 525mm Ø
plug @0.30%

PIERCEY

CAVALLINO
ESTATES INC.

GLOBAL
PROPERTIES INC.

CAROZZA

ESHOO AZIZ
AMATO

THE GORE ROAD

CENTREVILLE CREEK ROAD

NOVAMARK
[illegible]GS LTD.

37.22ha
4,545 | 105

CAPPIELLO
LAVA KALOGERAKOS

OUTLET 3 - 375mm Ø
plug @0.30%

ONE VALUE LTD.
AVTAR & MANJIT KALKAT

GIOGIA &
TERESA VESCIO

CHARLES SPANO
GIUSEPPE SPANO

TRINITY FIELD INC.

BAGA
RANJIT KAUR RAI &
DALBAGH SINGH

GIGLIO

SUKHVINDER &
SARBJIT GILL

MIKE RASO

82.74ha
12,499 | 106

D'ALESSANDRO
COLAVITA

LESLIE
FARKAS

KALIRAO

7072A
HOLDINGS
LTD.

CHIODO

1.72ha
107 | 210

DIEGO
SPANO

BARBERI

NEW TIME
MOTORS LTD.
LE DONNE

GILL

OUTLET 4 - 525mm Ø
plug @0.30%

MAYFIELD ROAD

*NOTE: LAYOUT IS SCHEMATIC ONLY, DETAILS TO BE PROVIDED AT DETAILED DESIGN STAGE

LEGEND:

- WILDFIELD VILLAGE SECONDARY PLAN (WVSP) AREA LIMITS
- SANITARY DRAINAGE BOUNDARY
- PROPOSED SANITARY SEWER AND MAINTENANCE HOLE
- FUTURE 750mmØ SANITARY SEWER AND MAINTENANCE HOLE
- 82.71ha / 14,887 | 406 — DRAINAGE AREA (HECTARES) / CATCHMENT ID / POPULATION

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

WILDFIELD VILLAGE

PROPOSED SANITARY DRAINAGE PLAN

DESIGNED BY:	A.T.	CHECKED BY:	A.R.K.	PROJECT No:	FIGURE No:
SCALE:	1:4000	DATE:	DECEMBER 2024	2630	2

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HEALEY ROAD

EX. 200Ø PVC WATERMAIN
FUTURE. 900Ø PVC WATERMAIN
PROP. 400Ø PVC WATERMAIN

EX. 200Ø PVC WATERMAIN

GORD DENNIS

BURSTEIN FAMILY

HIGHWAY 413 PLANNED TRANSPORTATION COORIDOR

30.02ha | 3,659 | 8

TAMMAO
SIDHU
GIGLIOTTI
DHALIWAL
CIARALLO
MOHIL
SAHOTA

GLOBAL PROPERTIES (2) INC.

13.71ha | 1,671 | 1

15.03ha | 1,832 | 2

PIERCY, BROOK, EZARD

35.79ha | 4,362 | 9

BADWAL
PESCITELLI
CHANA SINGH
ANTHONY

SAHOTA
GULLUSCI
GRECO

16.00ha | 1,950 | 3

16.85ha | 2,054 | 4

GLOBAL PROPERTIES (1) INC.

GLOBAL PROPERTIES INC.

COLLURA
CALCE
COPETTI
FOSAROLLI

14.87ha | 2,491 | 5

15.05ha | 2,422 | 6

14.70ha | 2,329 | 7

20.22ha | 2,465 | 16

TONY & GINA ABELLA

DOIRON

ONKAR INVESTMENT INC.

MID-BLOCK LOCATION TO BE DETERMINED

PIERCEY

CAVALLINO ESTATES INC.

GLOBAL PROPERTIES INC.

CAROZZA

ESHOO AZIZ
AMATO

THE GORE ROAD

16.17ha | 2,937 | 10

15.20ha | 2,499 | 11

17.11ha | 2,802 | 12

NOVAMARK HOLDINGS LTD.

CENTREVILLE CREEK ROAD

CAPPIELLO
LAVA KALOGERAKOS

ONE VALUE LTD.
AVTAR & MANJIT KAUR AT

GIOGIA & TERESA VESCIO

CHARLES SPANO
GIUSEP

26.60ha | 5,235 | 13

24.53ha | 3,316 | 14

28.41ha | 3,947 | 15

TRINITY FIELD INC.

BAGA
RANJIT KAUR RAI &
DILBAGH SINGH

GIGLIO

SHILLINGFORD AVENUE

MIKE RASO

KALIRAO

CHIODO

BARBERI

LESLIE FARKAS

7072A HOLDINGS LTD.

DIEGO SPANO

GILL

NEW TIME MOTORS LTD.
LE DONNE

D'ALESSANDRO
COLAVITA

1.72ha | 210 | 17

EX. PD6 300Ø PVC WATERMAIN
EX. PD6 750Ø PVC WATERMAIN
EX. PD5 600Ø PVC WATERMAIN

EX. PD4 600Ø PVC WATERMAIN
EX. PD5 300Ø PVC WATERMAIN

MAYFIELD ROAD

McVEAN DRIVE

*NOTE: LAYOUT IS SCHEMATIC ONLY, DETAILS TO BE PROVIDED AT DETAILED DESIGN STAGE

LEGEND:

- WILDFIELD VILLAGE SECONDARY PLAN (WVSP) AREA LIMITS
- PROPOSED LOCAL DISTRIBUTION WATERMAIN
- 400Ø PROPOSED DISTRIBUTION WATERMAIN
- 600Ø FUTURE DISTRIBUTION WATERMAIN
- 900Ø FUTURE TRANSMISSION WATERMAIN
- 200Ø EXISTING WATERMAIN
- 300Ø EXISTING WATERMAIN
- 600Ø EXISTING WATERMAIN
- 750Ø EXISTING WATERMAIN
- APPROXIMATE EXTENT OF PRESSURE ZONE 5 (182.4 - 236.2m)
- APPROXIMATE EXTENT OF PRESSURE ZONE 6E (214.5 - 259.1m)
- 28.99ha | 3878 | 15 — DRAINAGE AREA (HECTARES); BLOCK NUMBER; POPULATION

SCS consulting group ltd
30 CENTURIAN DRIVE, SUITE 100
MARKHAM, ONTARIO L3R 8B8
TEL: (905) 475-1900
FAX: (905) 475-8335

WILDFIELD VILLAGE

MASTER WATER SERVICING PLAN

DESIGNED BY:	A.T.	CHECKED BY:	A.R.K.	PROJECT No:	FIGURE No:
SCALE:	1:4000	DATE:	DECEMBER 2024	2630	3

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ATTACHMENT A

REGION OF PEEL DOCUMENTS

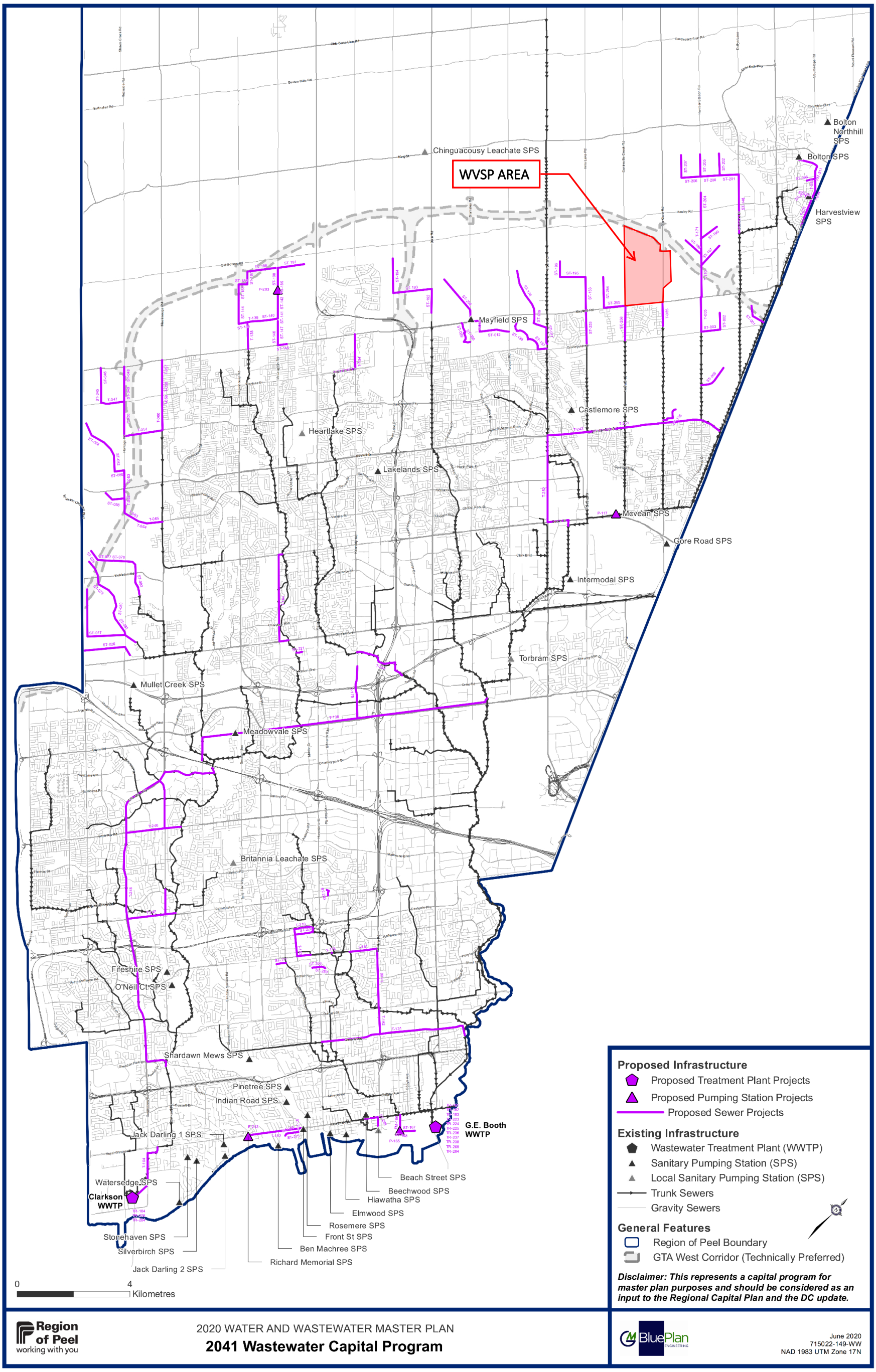

Figure 36 – Preferred wastewater servicing strategy capital program for the lake-based system.

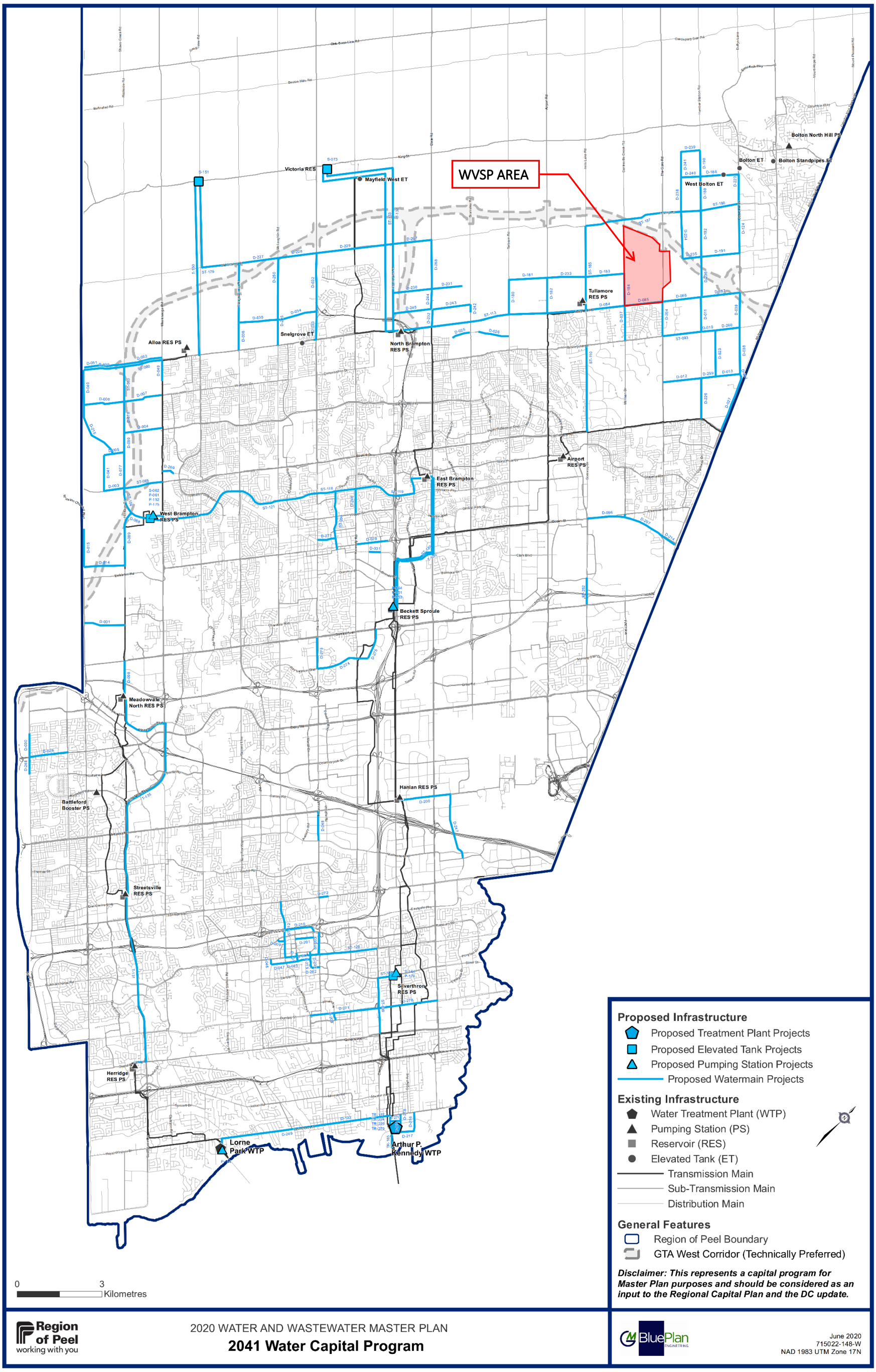

Figure 25 – Preferred water servicing strategy capital program for the lake-based system.

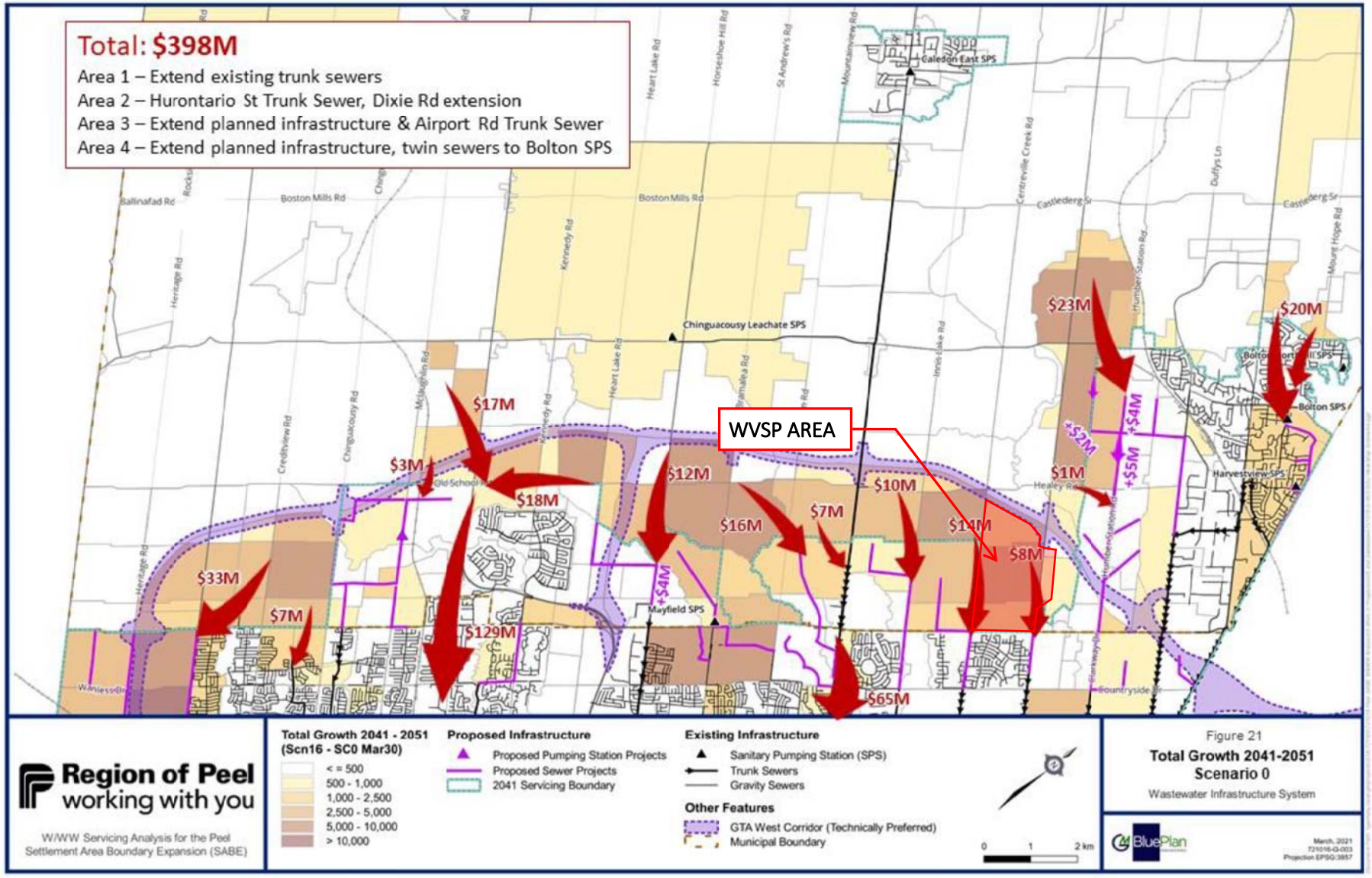

Figure 21 – Scenario 0 Wastewater Infrastructure Requirements

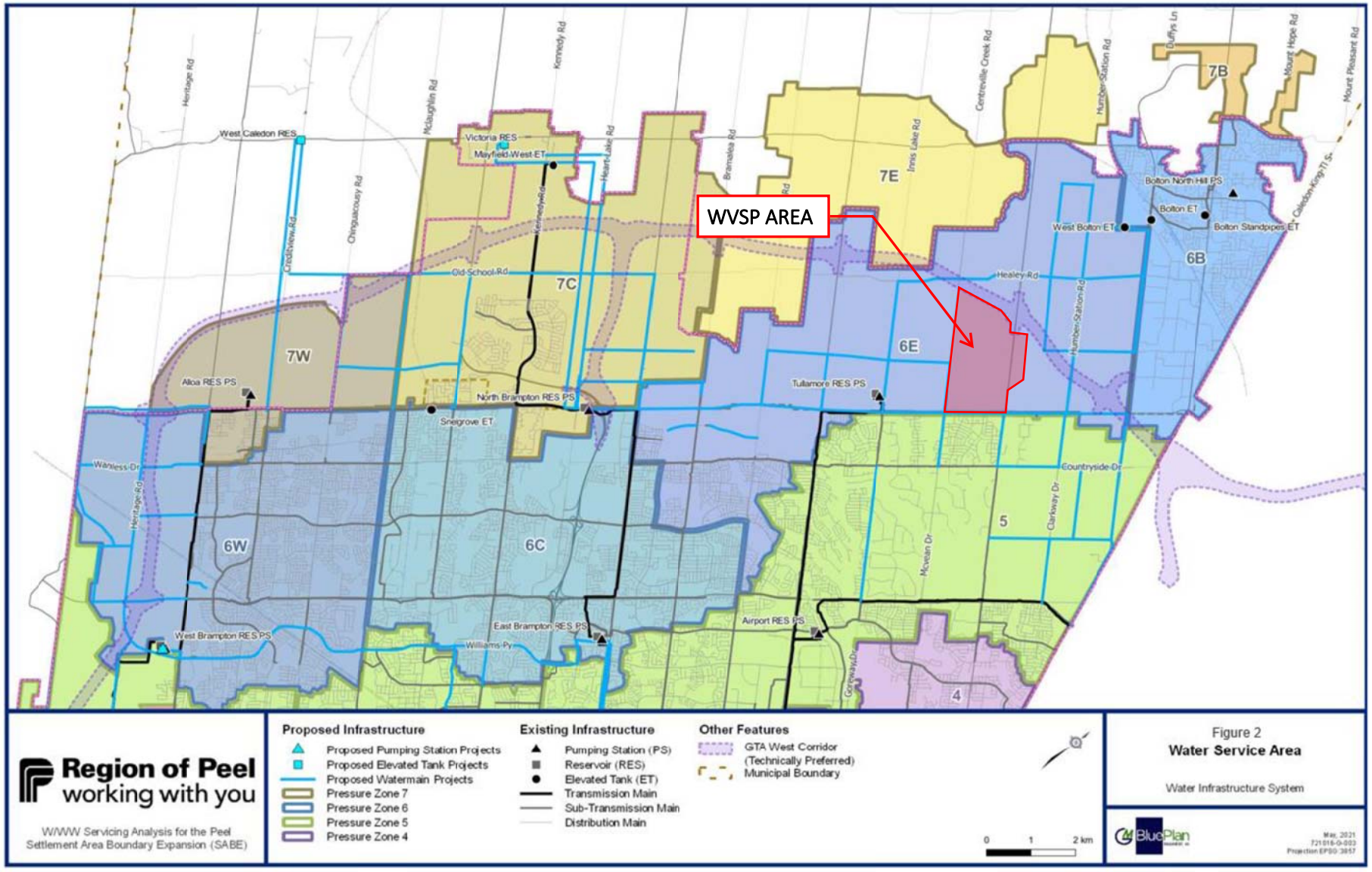

Figure 2 - SABE Water Service Areas and Pressure Zones

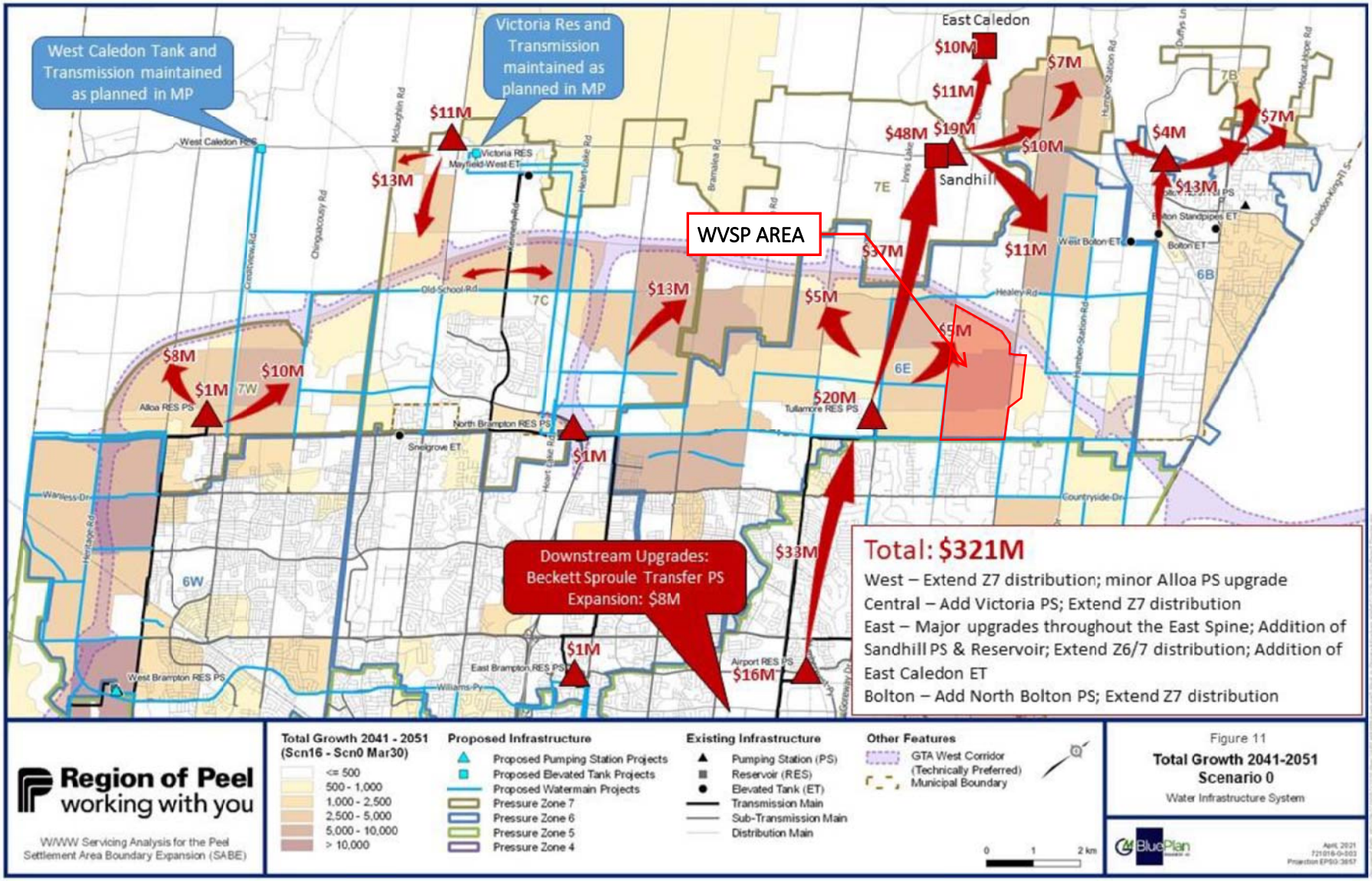

Figure 11 – Scenario 0 Water Infrastructure Requirements

Wastewater Development Charges 2024

Wastewater Servicing Infrastructure Treatment and Trunk Sewer System 2024-2041 Development Charges

Draft – Not Approved by Council

Humber	
New Sewage Pumping Station	C-2024 (56676)
	P-2024 (56677)
24-2984	C-2026 (56678)

McLaughlin	
New Sewage Pumping Station	D-2024 (57359)
24-2985	C-2026 (57360)

McVean	
Sewage Pumping Station Expansion	C-2024 (55680)
18-2976	C-2024 (56671)

Church Street	
New Facility	D-2029 (35358)
29-2960	P-2029 (35223)
	C-2030 (34286)

Streetsville	
New Facility	D-2029 (35364)
29-2960	P-2029 (35221)
	C-2030 (34285)

Various Dosing Stations	
New Dosing Stations	D-2029 (35383)
25-2960	P-2029 (35224)
	C-2030 (34287)

Clarkson Wastewater Treatment Plant	
Facility **20-2951**	C-2024 (56232)
Automation Consolidation **19-2934**	C-2024 (56108) C-2025 (56109)
Treatment Expansion **22-2950**	D-2025 (51956) C-2024 (51958) C-2025 (51959) C-2026 (53368)
Standby Power Expansion **29-2999**	D-2029 (52214) C-2031 (52215)
Biosolids Expansion **23-2952**	D-2024(56234) D-2025(56235) C-2026(54572) C-2028(56236) C2026(56237)
New Operations Building **26-2959**	C-2026(56884) D-2028(56885)
Treatment Expansion **25-2564**	EA-2025(57068)

Jack Darling 3 Sewer Pumping Station	
New Pumping Station	D-2024 (53565)
24-2980	C-2026 (53012)

Sanitary Pumping Stations	
Decommissioning	D-2026 (52841)
26-2978	C-2028 (52842)

Beach Street Sanitary Pumping Station	
Upgrades	D-2024 (52754)
24-2971	C-2026 (52755)

Lakeview Village	
New Sewage Pumping Station	D-2025 (27417)
25-2982	C-2027 (27418)

G.E. Booth Wastewater Treatment Plant	
Automation Consolidation **19-2924**	C-2024 (56106) C-2025 (56107)
Odour Control Improvements **20-2961**	C-2024 (38871)
Plant 2 Blower Replacement **22-2923**	C-2024 (53410)
New Outfall **22-2944**	D-2025 (56297) C-2027 (51949)
Ash Management Facility **24-2942**	D-2024 (52833) C-2026 (52834)
Administration Building **26-2943**	D-2026 (51946) C-2028 (51947)
Treatment Expansion **25-2945**	D-2025 (38620) D-2027 (38621) C-2027 (51944) C-2028 (51945) C-2029 (52838)
Biosolids Expansion **29-2599** **29-2999**	EA-2029 (38619) D-2032 (51950) D-2032 (51952) D-2036 (51951)
Standby Power Expansion **28-2999**	D-2028 (52214) C-2030 (52215)
Ash Management Facility **28-2999**	C-2032 (37812) C-2034 (37813)
Biosolids Expansion **29-2999**	C-2034 (51953) C-2036 (35964)
Ash Berm Relocation **29-2947**	D-2024 (56879) C-2025 (56880)
Capacity Restoration **19-2940**	D-2024 (56890) C-2024 (56891)
Digesters and Beneficial Gas Reuse **25-2941**	D-2025 (56886) C-2028 (56887)
Ultaviolet Disinfection **25-2949**	D-2025 (56888) C-2028 (56889)
Treatment Expansion **25-2563** **29-2999**	EA-2025 (57067) D-2033 (38620) D-2033 (38621) C-2036 (51944) C-2036 (51945) C-2036 (52838)

Approved Infrastructure 2024
- Sewer Pumping Station
- Odour Control Facility
- Wastewater Treatment Plant
- Approved Local Wastewater Main 2024
- Approved Primary Wastewater Main 2024

Proposed Infrastructure 2025-2041
- Sewer Pumping Station
- Odour Control Facility
- Wastewater Treatment Plant
- Proposed Local Wastewater Main > 2024
- Proposed Primary Wastewater Main > 2024
- Proposed Force Main

Existing Wastewater Infrastructure
- Sanitary Pumping Station
- Existing Wastewater Main
- Highway 413
- Watercourse
- Greenbelt Boundary
- Urban Boundary
- Municipal Boundary
- Ward Boundary

Label Legend
2031 - Construction Year
30713 - Component Number
25-2199 - Project Number

0 2 4 8 Kilometres

Region of Peel working with you

October 2023
Water & Wastewater Planning, Public Works
Map ID: 3871-WW-DC Wastewater Map 2024
Data Source: Region of Peel
Scale: 1:68,000 | NAD83 UTM zone 17N

DISCLAIMER
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Document Path: E:\Program_Planning\Team GIS Files and Maps\3871-WW-DC Wastewater Map 2024.mxd

Water Development Charges 2024

Water Servicing Infrastructure
Water Production, Transmission Systems and Distribution Systems
2024-2041 Development Charges

Draft – Not Approved by Council

Bram West (SPA40)
Northwest Brampton (SPA52, SPA53)

Inglewood	
New Groundwater Well	D-2025 (52801)
22-1831	C-2027 (52302)

South Albion	
New Reservoir and Pumping Station	EA-2029 (22574)
29-1599	D-2031 (35752)
29-1999	P-2031 (35753)
	C-2033 (35754)
	C-2033 (35755)
New Elevated Tank	EA-2033 (38092)
29-1599	D-2035 (35756)
29-1999	P-2035 (35757)
	C-2037 (35758)

Macville	
New Elevate Tank	EA-2028 (22514)
28-1583	D-2030 (30682)
29-1999	P-2030 (32702)
	C-2032 (32010)

Castlederg	
New Elevated Tank	EA-2031 (22677)
25-1599	D-2033 (35614)
29-1999	P-2033 (35615)
	C-2035 (35616)

North Bolton	
Booster Pumping Station	D-2024 (30686)
24-1969	P-2024 (32574)
	C-2026 (32573)

Palgrave	
New Groundwater Well	C-2024 (52304)
22-1832	C-2025 (57301)

Caledon East	
New Groundwater Well	
23-1830	C-2026 (52300)

Victoria	
New Pumping Station	
26-1580	EA-2026 (22350)
28-1963	D-2028 (23447)
	C-2030 (23448)

Sandhill	
New Reservoir and Pumping Station	EA-2027 (35850)
27-1582	D-2029 (38087)
29-1999	P-2029 (38088)
	C-2031 (38089)
	C-2031 (38090)

Tullamore	
Pumping Station Expansion	D-2027 (56932)
27-1964	C-2029 (56933)

West Caledon	
New Elevated Tank	D-2024 (20692)
23-1941	C-2026 (20685)

Heritage Road	
New Elevated Tank	
29-1599	EA-2031 (34474)
29-1999	D-2033 (32972)
	P-2033 (32973)
	C-2035 (32974)

Snelgrove	
Decommissioning Elevated Tank	C-2024 (32270)
21-1951	
New Elevated Tank	
28-1581	EA-2028 (22428)
29-1999	D-2030 (37130)
	P-2030 (37131)
	C-2032 (37132)

North Brampton	
Transient Protection Expansion	D-2024 (54336)
22-1987	C-2026 (54337)

East Brampton	
Reservoir Improvements and Upgrades	C-2026 (32269)
26-1954	
Transients Protection Expansion	D-2024 (54302)
24-1985	C-2026 (54303)

Airport Road	
Transient Protection Expansion	C-2026 (54339)
22-1988	
Transient Protection Expansion	D-2028 (54294)
28-1995	C-2030 (54295)
Pumping Station Expansion	D-2027 (56934)
27-1965	C-2029 (56937)
	D-2027 (56938)
	C-2029 (56939)

West Brampton	
Reservoir Expansion	D-2031 (25259)
28-1999	C-2033 (26196)
Pumping Station Expansion	D-2026 (23391)
26-1962	C-2027 (23392)
Pumping Station Expansion	D-2029 (34485)
28-1999	C-2030 (16350)
Pumping Station Expansion	D-2034 (23389)
28-1999	C-2035 (23390)

Beckett Sproule	
Pumping Station Expansion	C-2024 (33336)
21-1974	
Improvements and Upgrades	C-2024 (54248)
21-1978	
Transient Protection Expansion	D-2028 (54296)
28-1995	C-2030 (54297)
Training and Logistics Facility	D-2024 (54083)
24-1980	C-2024 (54084)
Pumping Station Expansion	D-2029 (52045)
29-1999	C-2030 (52046)

Meadowvale North	
Transient Protection Expansion	C-2026 (54335)
22-1986	
Transient Protection Expansion	D-2028 (54300)
28-1995	C-2030 (54301)

Hanlan	
Transient Protection Expansion	D-2028 (54298)
28-1995	C-2030 (54299)
Pumping Station Expansion	D-2031 (23582)
29-1999	C-2033 (23585)

Hanlan West	
New Pumping Station	
22-1992	C-2025 (54315)
New Reservoir	EA-2031 (22673)
29-1599	D-2033 (35617)
29-1999	C-2035 (35618)

Silverthorn	
Transient Protection Expansion	C-2023 (54397)
23-1994	
Reservoir Expansion	D-2026 (54120)
26-1941	C-2027 (54121)

Arthur P. Kennedy	
Reservoir Expansion	D-2024 (23395)
21-1923	C-2026 (23396)
Lake Ontario Monitoring System	C-2024 (54097)
22-1924	
Standby Power Expansion	D-2027 (53560)
27-1982	C-2028 (53561)
	C-2029 (53562)
Waste Building Expansion	D-2031 (23404)
29-1997	C-2033 (23405)
New Intake	
29-1995	EA-2029 (23451)
29-1997	D-2037 (23452)
	C-2039 (23453)
Treatment Expansion	
25-1575	EA-2025 (50380)
28-1925	D-2028 (32975)
	P-2028 (32976)
	C-2030 (32977)

Lorne Park	
Lake Ontario Monitoring System	C-2024 (54099)
22-1934	
Transient Protection Expansion	C-2039 (54396)
24-1540	
Transients/Protection Expansion	D-2028 (54304)
28-1995	C-2030 (54305)
Treatment Expansion	
25-1575	EA-2025 (51085)
29-1997	D-2032 (32978)
	P-2032 (32979)
	C-2034 (32980)

WVSP AREA
31436
29-1299

Approved Infrastructure 2024
- Pumping Station
- Reservoir
- Elevated Tank
- Well
- Water Treatment Plant
- Approved Distribution Feeder Main 2024
- Approved Transmission Main 2024

Proposed Infrastructure 2025-2041
- Pumping Station
- Reservoir
- Elevated Tank
- Well
- Water Treatment Plant
- Proposed Distribution Feeder Main Post 2024
- Proposed Transmission Main Post 2024

Existing Water Infrastructure
- Reservoir
- Elevated Tank
- Standpipe
- Well
- Water Pumping Station
- Water Main
- Watercourse
- Highway 413
- Greenbelt Boundary
- Urban Boundary
- Municipal Boundary
- Ward Boundary

Label Legend
2031 - Construction Year
30713 - Component Number
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0 2 4 8 Kilometres

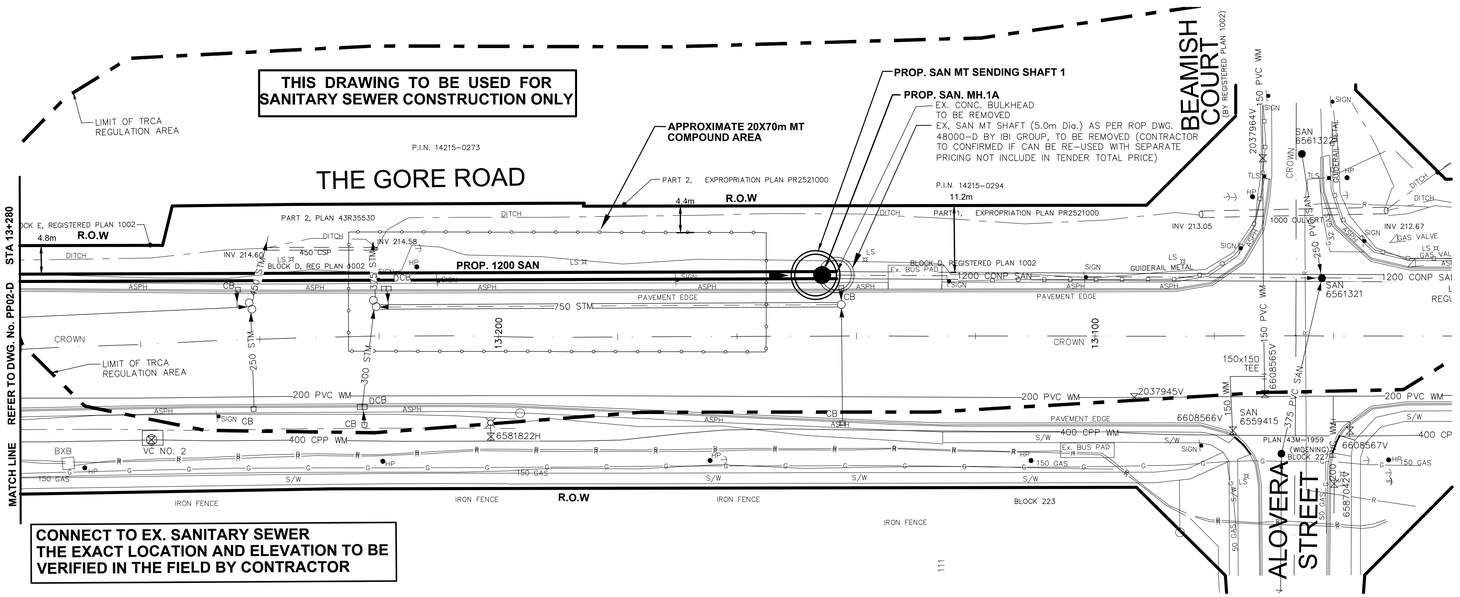
Region of Peel
working with you

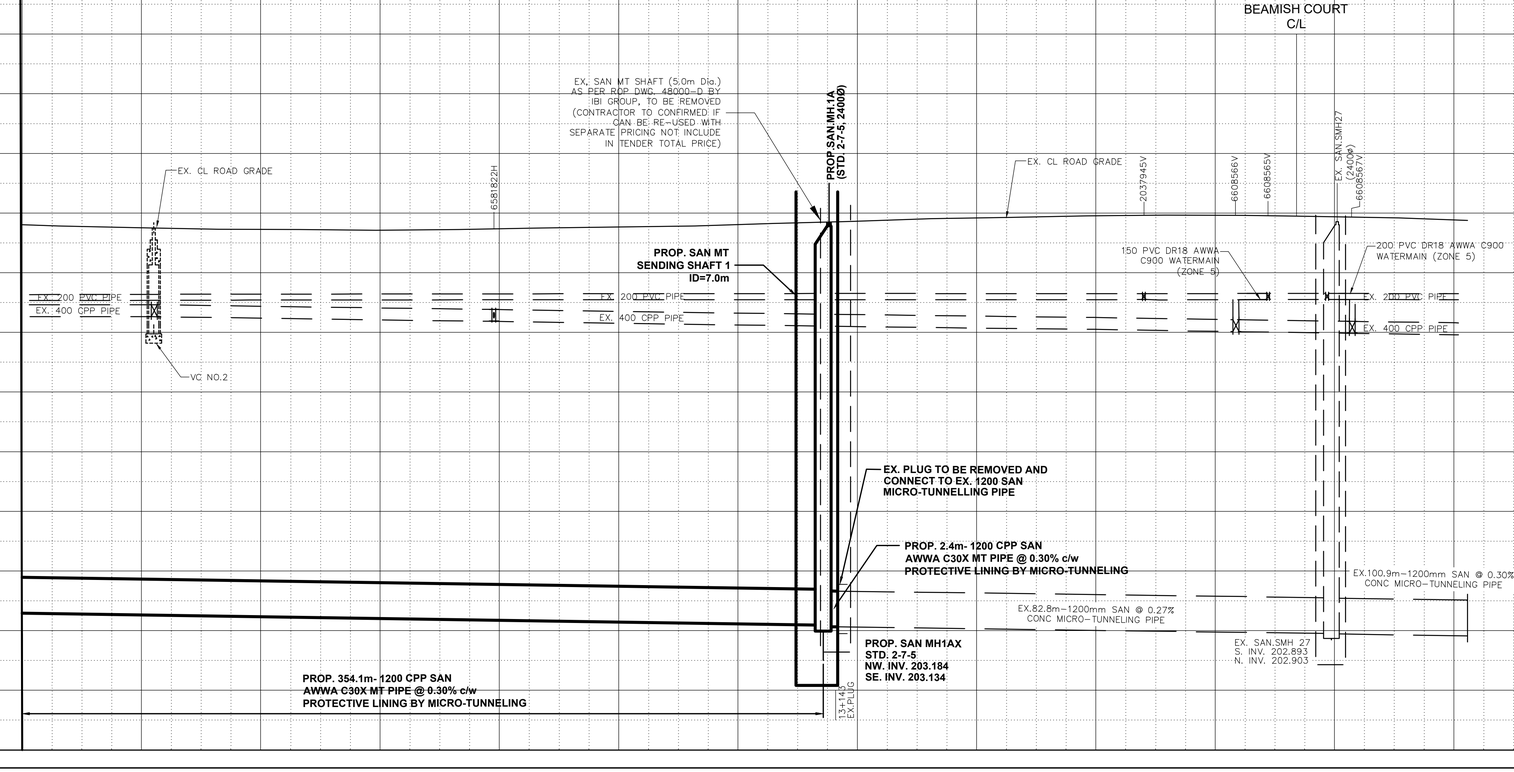
October 2023
Water & Wastewater Planning, Public Works
Map ID: 3870-W-DC Water Map 2024_2
Data Source: Region of Peel
Scale: 1:68,000 | NAD83 UTM zone 17N

ATTACHMENT B

DETAILED DESIGN DRAWINGS

SCS consulting group ltd





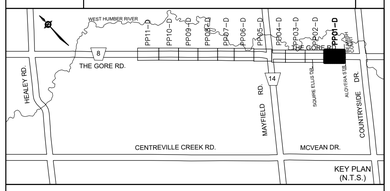
RESTRAINED JOINTS														
BOT.EL. OF WM.														
EX. ROAD ELEV.	216.61	216.51	216.45	216.43	216.48	216.54	216.62	216.73	216.84	216.91	216.93	216.87	216.77	
ROAD CHAINAGE	13+280	13+260	13+240	13+220	13+200	13+180	13+160	13+140	13+120	13+100	13+080	13+060	13+040	13+020

SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
SAN SEWERS			GAS MAINS		
STORM SEWERS			BELL U/G CABLE		
WATERMAINS			HYDRO U/G CABLE		
TRANSIT			HYDRO ONE		
PARKS & REC.			CTV		
ONT. CLEAN WATER			COMMUNIC. CABLES		

REVISIONS

DATE	DETAILS	INIT.
2024-09-16	ISSUED FOR 30% SUBMISSION	N.L.



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4. FOR RELOCATION OF THE EX. 200 WATERMAIN WITH LENGTH EXCEEDING 6.0m FLUSHING AND DISINFECTION IS REQUIRED.
5. ALL EX. DITCHES RELOCATED WITHIN COMPOUND AREA TO BE REINSTATED TO ORIGINAL ALIGNMENT.
6. FOR SHAFT COMPOUNDS DETAILS AND TEMPORARY WORK TO MAINTAIN LOCAL TRAFFIC ONLY, REFER TO DRAWINGS TC1-D TO TC6-D.
7. FOR TREE REMOVALS/PROTECTION REFER TO RM1-D TO RM4-D

LEGEND:

- DENOTES SANITARY MANHOLE
- DENOTES STORM MANHOLE
- DENOTES SINGLE/DOUBLE CATCHBASIN
- PROP. 1200 SAN — SANITARY SEWER PROPOSED
- 1200 CONP SAN — SANITARY SEWER EXISTING
- DENOTES PROPOSED WATERMAIN
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- R — DENOTES ROGERS
- G — DENOTES EXISTING GAS MAIN
- DENOTES EXISTING AERIAL CABLES
- DENOTES LIMIT OF TRCA REGULATION AREA

General Notes

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Agency:
B.M. No. 44
Elev. 227.660 (Geodetic)
Coordinate System: UTM NAD83 (Original)

The Contractor Is Responsible For Locating And Protecting All Existing Utilities Prior To And During Construction. Location Of Existing Utilities Approximate Only. To Be Verified In Field By Contractor.

REGISTERED PROFESSIONAL ENGINEER H. SARKISSIAN SEPT. 16, 2024 PROVINCE OF ONTARIO

Designed by — Chkd.

Approved by

NOTICE TO CONTRACTOR

48 HOURS PRIOR TO COMMENCING WORK NOTIFY THE FOLLOWING

THE REGIONAL MUNICIPALITY OF PEEL
CITY OF MISSISSAUGA WORKS DEPT.
CITY OF BRAMPTON WORKS DEPT.
TOWN OF CALEDON WORKS DEPT.
ENBRIDGE INCORPORATED-GAS DISTRIBUTION
ONTARIO MINISTRY OF TRANSPORTATION
ONTARIO CLEAN WATER AGENCY
HYDRO ONE NETWORKS
ALECTRA UTILITIES
TRANS NORTHERN PIPELINE
PEARSON INTERNATIONAL FUEL FACILITIES CORP.
UNION GAS

CABLE TELEVISION/FIBREOPTIC PROVIDERS:
BELL CANADA
ENERSOURCE TELECOM
HYDRO ONE TELECOM
ROGERS CABLE
ALLSTREAM (ZAYO)
PSN (PUBLIC SECTOR NETWORK)
FUTUREWAY (FCI BROADBAND)
GT FIBER/360 NETWORK INC.
TELUS COMMUNICATION

10m 0 10 20 30m — HORIZONTAL SCALE 1:500
2m 0 2 4 6m — VERTICAL SCALE 1:100

SCHAEFFERS CONSULTING ENGINEERS
SCHAEFFER & ASSOCIATES LTD.
6 Ronrose Drive, Concord, Ontario L4K 4R3
Tel: (905) 738-6100
Fax: (905) 738-6875
E-mail: design@schaeffers.com

Region of Peel working with you

THE GORE ROAD

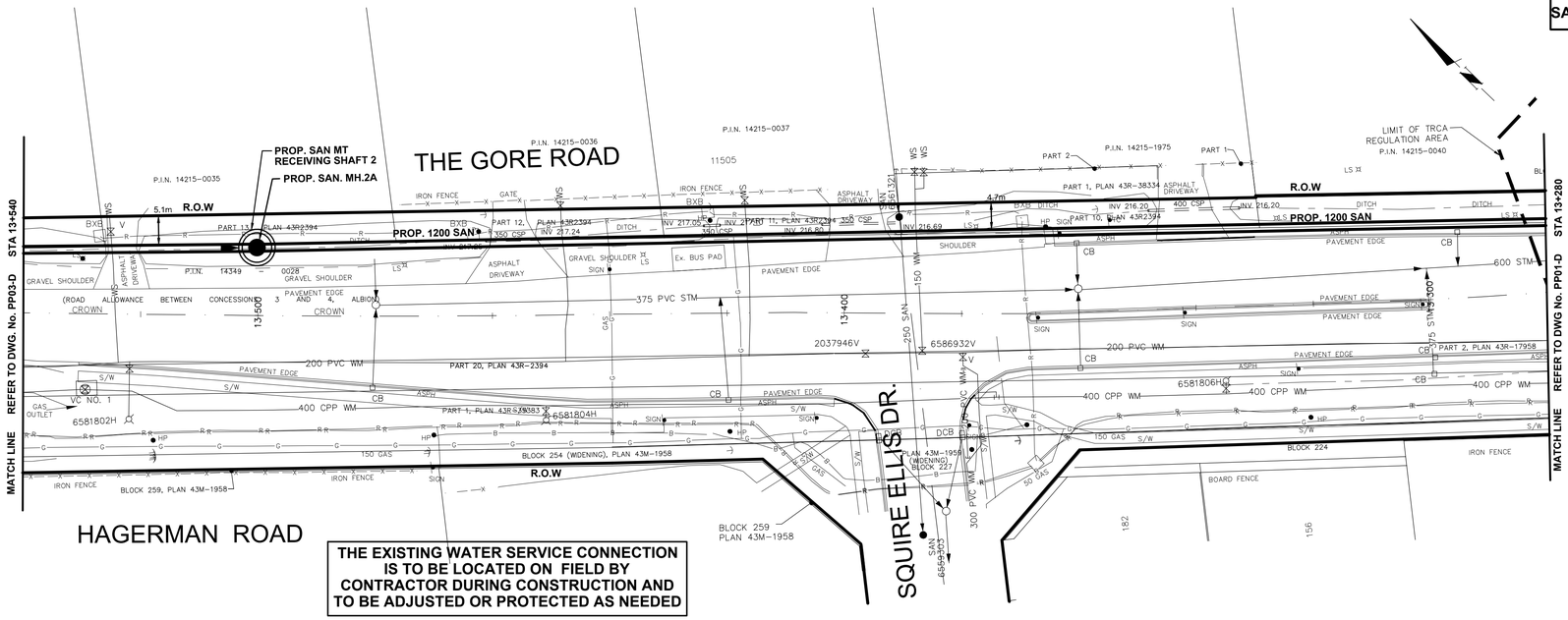
(FROM COUNTRYSIDE DRIVE TO MAYFIELD ROAD)

PROP. 1200mm SANITARY SEWER

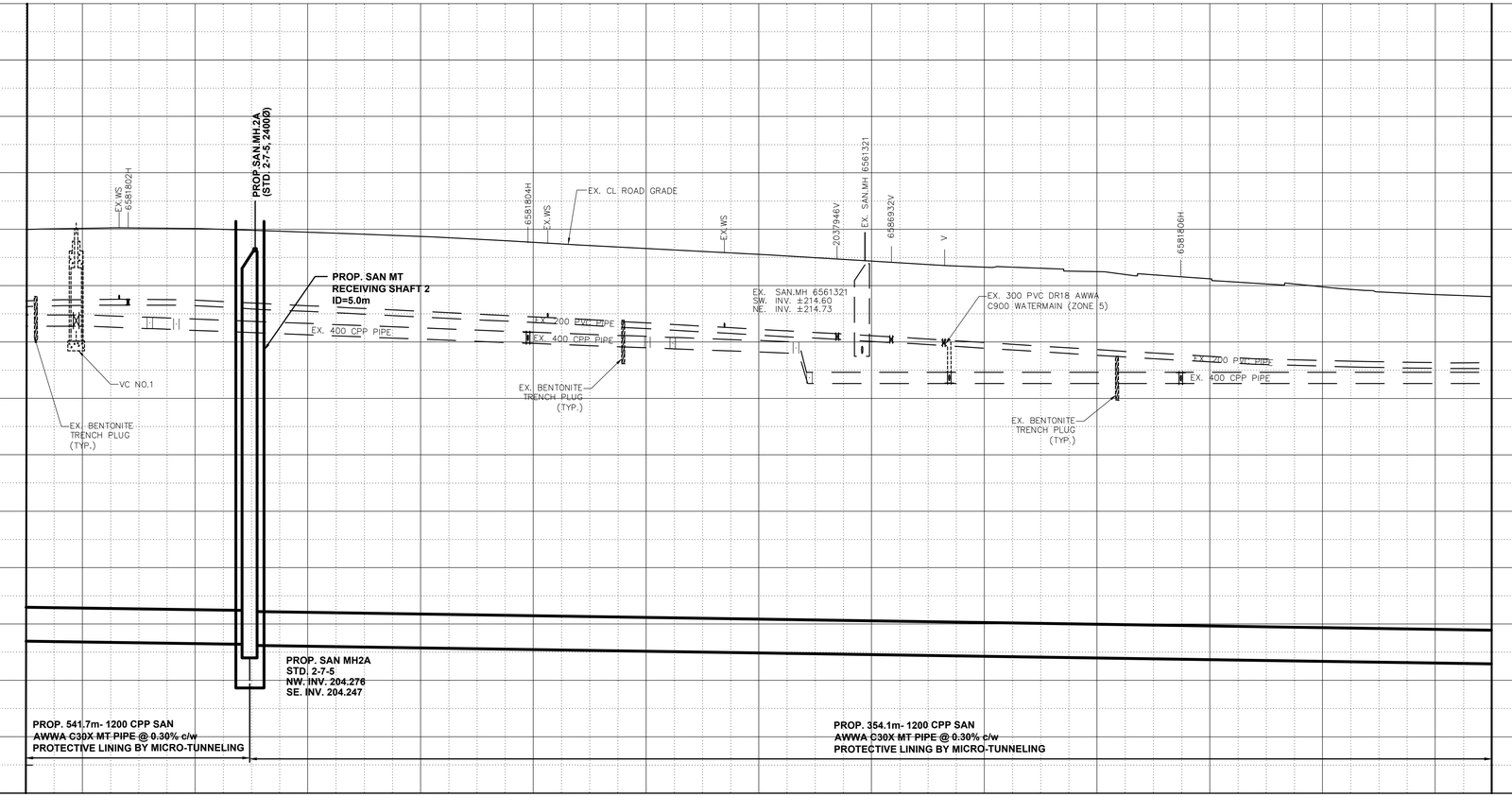
STA. 13+020 TO STA. 13+280

CAD Area	X-XX	Area	X-XX	Project No.	242273/ 241193
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	4 of 31	Plan No.	PP01-D

THIS DRAWING TO BE USED FOR SANITARY SEWER CONSTRUCTION ONLY



THE EXISTING WATER SERVICE CONNECTION IS TO BE LOCATED ON FIELD BY CONTRACTOR DURING CONSTRUCTION AND TO BE ADJUSTED OR PROTECTED AS NEEDED



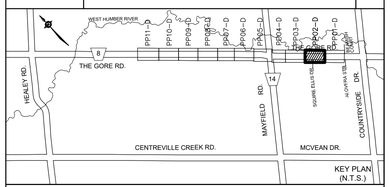
RESTRAINED JOINTS														
BOT.EL. OF WM.	218.99	219.04	218.96	218.82	218.65	218.42	218.22	217.99	217.75	217.62	217.38	217.06	216.78	216.61
EX. ROAD ELEV.														
ROAD CHAINAGE	13+540	13+520	13+500	13+480	13+460	13+440	13+420	13+400	13+380	13+360	13+340	13+320	13+300	13+280

SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
SAN SEWERS			GAS MAINS		
STORM SEWERS			BELL U/G CABLE		
WATERMAINS			HYDRO U/G CABLE		
TRANSIT			HYDRO ONE		
PARKS & REC.			CTV		
ONT. CLEAN WATER			COMMUNIC. CABLES		

REVISIONS

DATE	DETAILS	INIT.
2024-09-16	ISSUED FOR 30% SUBMISSION	N.L.



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- DENOTES LIMIT OF TRCA REGULATION AREA

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REGISTERED PROFESSIONAL ENGINEER H. SARKISSIAN SEPT. 16, 2024 PROVINCE OF ONTARIO

Designed by _____ Chkd _____ Approved by _____

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Region of Peel working with you

THE GORE ROAD

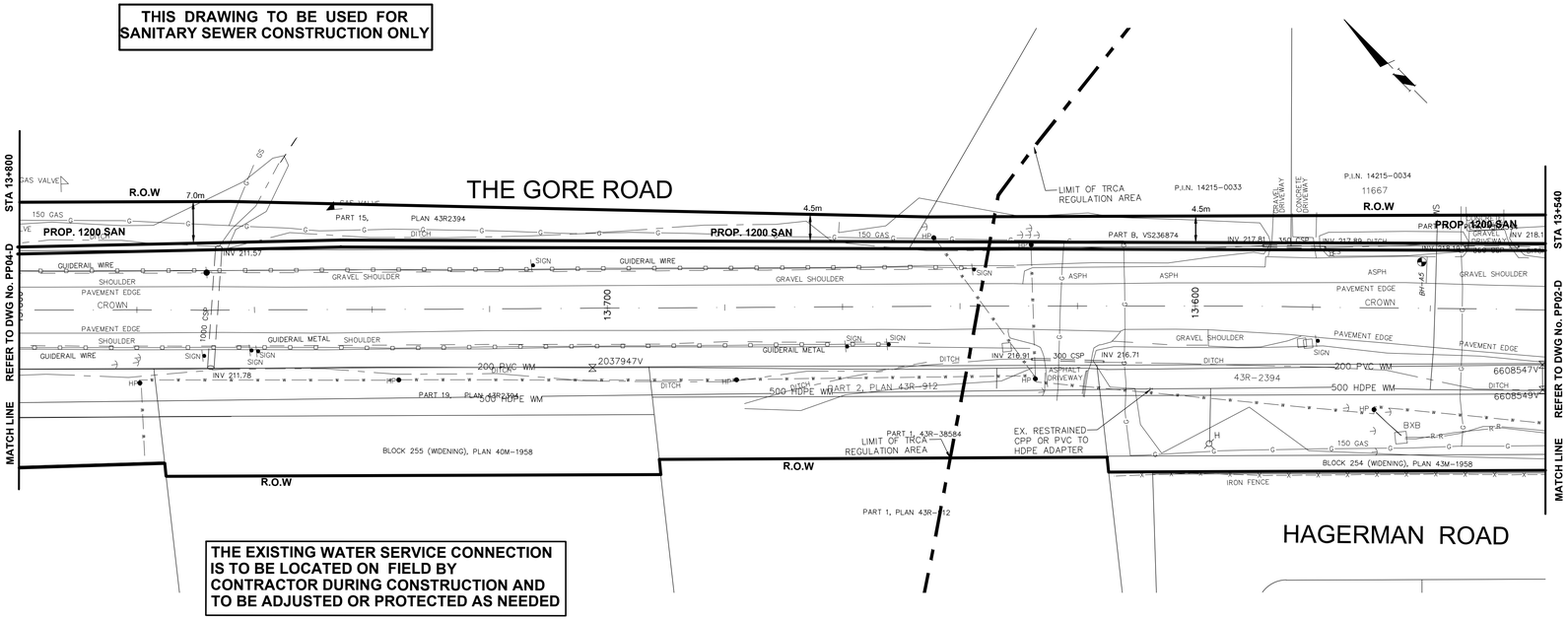
(FROM COUNTRYSIDE DRIVE TO MAYFIELD ROAD)

PROP. 1200mm SANITARY SEWER

STA. 13+280 TO STA. 13+540

CAD Area	X-XX	Area	X-XX	Project No.	242273/ 241193
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	5 of 31	Plan No.	PP02-D

THIS DRAWING TO BE USED FOR SANITARY SEWER CONSTRUCTION ONLY



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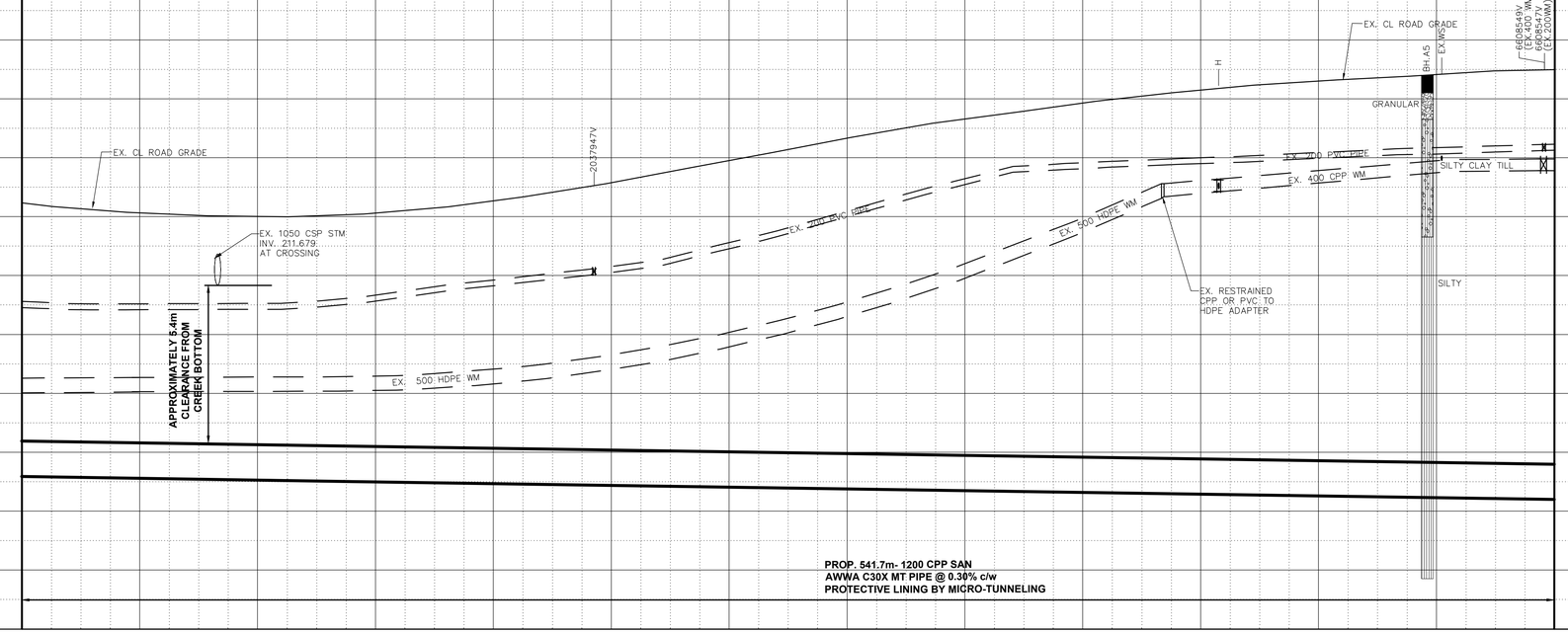

RESTRAINED JOINTS														
BOT.EL. OF WM.	214.47	214.13	214.01	214.12	214.54	215.15	215.90	216.66	217.32	217.85	218.30	218.60	218.82	218.99
EX. ROAD ELEV.														
ROAD CHAINAGE	13+800	13+780	13+760	13+740	13+720	13+700	13+680	13+660	13+640	13+620	13+600	13+580	13+560	13+540

SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
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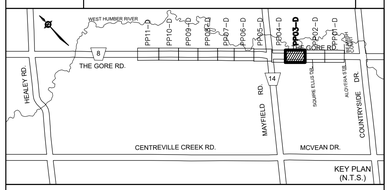
STORM SEWERS			BELL U/G CABLE		
WATERMAINS			HYDRO U/G CABLE		
TRANSIT			HYDRO ONE		
PARKS & REC.			CTV		
ONT. CLEAN WATER			COMMUNIC. CABLES		

REVISIONS

DATE	DETAILS	INIT.
2024-09-16	ISSUED FOR 30% SUBMISSION	N.L.



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REGISTERED PROFESSIONAL ENGINEER — H. SARKISSIAN — SEPT. 16, 2024 — PROVINCE OF ONTARIO

Designed by — Chkd — Approved by

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HYDRO ONE NETWORKS
ALECTRA UTILITIES
TRANS NORTHERN PIPELINE
PEARSON INTERNATIONAL FUEL FACILITIES CORP.
UNION GAS

CABLE TELEVISION/FIBREOPTIC PROVIDERS:
BELL CANADA
ENERSOURCE TELECOM
HYDRO ONE TELECOM
ROGERS CABLE
ALLSTREAM (ZAYO)
PSN (PUBLIC SECTOR NETWORK)
FUTUREWAY (FCI BROADBAND)
GT FIBER/360 NETWORK INC.
TELUS COMMUNICATION

10m 0 10 20 30m — HORIZONTAL SCALE 1:500
2m 0 2 4 6m — VERTICAL SCALE 1:100

SCHAEFFERS CONSULTING ENGINEERS
SCHAEFFER & ASSOCIATES LTD.
6 Ronrose Drive, Concord, Ontario L4K 4R3
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Fax: (905) 738-6875
E-mail: design@schaeffers.com

Region of Peel working with you

THE GORE ROAD

(FROM COUNTRYSIDE DRIVE TO MAYFIELD ROAD)

PROP. 1200mm SANITARY SEWER

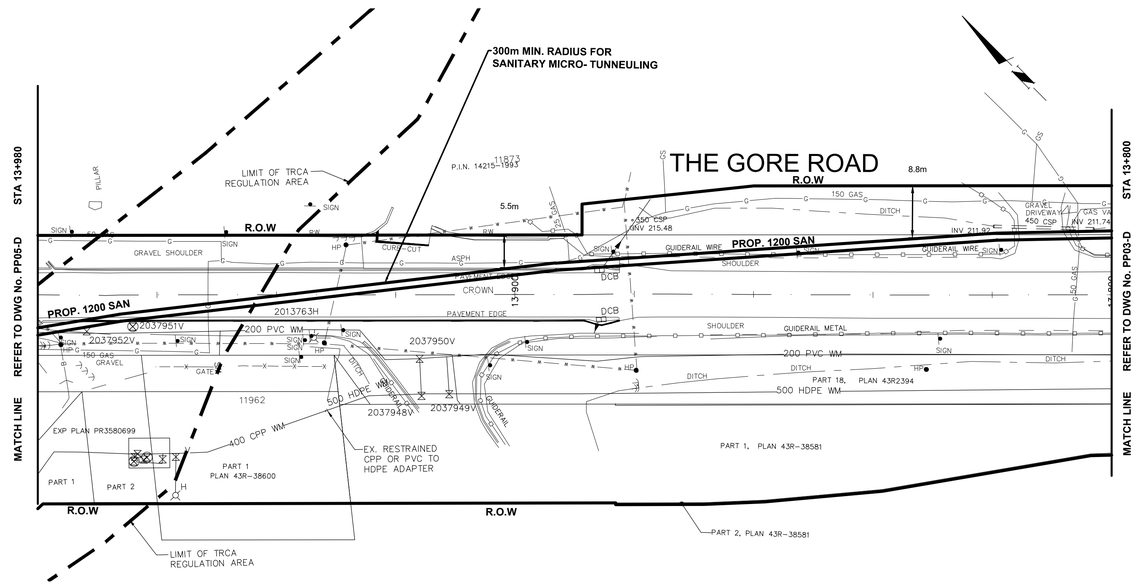
STA. 13+540 TO STA. 13+800

CAD Area	X-XX	Area	X-XX
Checked by	N.L.	Drawn by	A.L.
Date	JULY 2024	Sheet	6 of 31

Project No. 242273/ 241193

Plan No. PP03-D

THIS DRAWING TO BE USED FOR SANITARY SEWER CONSTRUCTION ONLY



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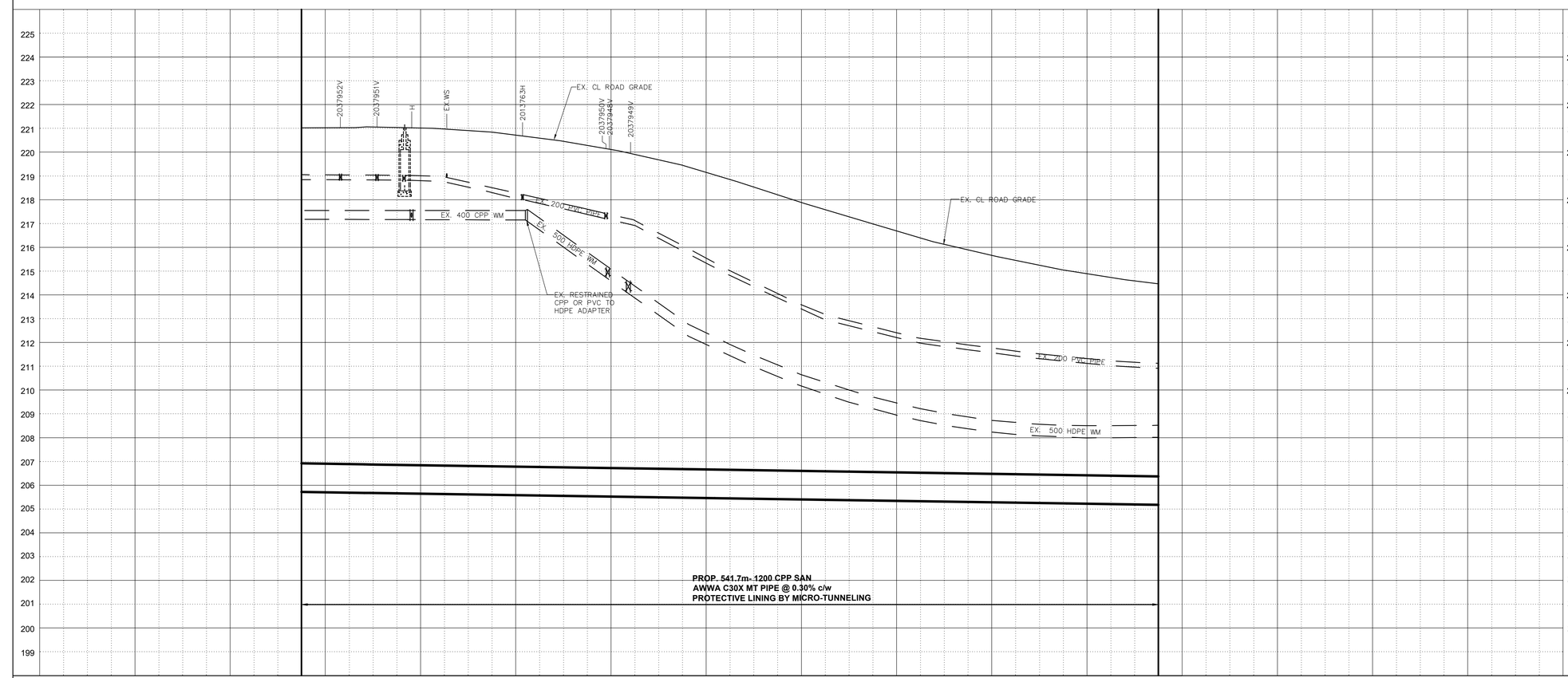

RESTRAINED JOINTS										
BOT.EL. OF WM.										
EX. ROAD ELEV.	221.02	221.03	220.85	220.29	219.45	218.21	216.99	215.90	215.05	214.47
ROAD CHAINAGE	13+980	13+960	13+940	13+920	13+900	13+880	13+860	13+840	13+820	13+800

SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
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WATERMAINS			HYDRO U/G CABLE		
TRANSIT			HYDRO ONE		
PARKS & REC.			CTV		
ONT. CLEAN WATER			COMMUNIC. CABLES		

REVISIONS

DATE	DETAILS	INIT.
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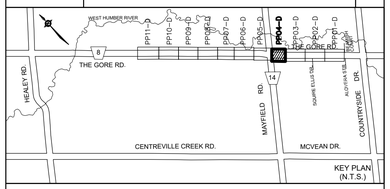

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LEGEND:

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REGISTERED PROFESSIONAL ENGINEER
H.SARKISSIAN
SEPT. 16, 2024
PROVINCE OF ONTARIO

Designed by _____ Chkd _____ Approved by _____

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CAD Area	X-XX	Area	X-XX	Project No.	242273/ 241193
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	7 of 31	Plan No.	PP04-D

THE GORE ROAD

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THE EXISTING WATER SERVICE CONNECTION IS TO BE LOCATED ON FIELD BY CONTRACTOR DURING CONSTRUCTION AND TO BE ADJUSTED OR PROTECTED AS NEEDED

REFER TO DWG. SEC1-D FOR THE DETAIL OF SECTION A-A

PROP. CONNECTION TO EX. 300 PVC WATERMAIN WITH 600x300 REDUCER AND 300x300 CUT-IN TEE

PROP. 300mm WM

PROP. 600x300 REDUCER

PROP. 600mm CPP WM

PROP. 45° VERT. BEND

PROP. 18° HORIZ./ 45° VERT. BEND

300m MIN. RADIUS FOR SANITARY MICRO- TUNNELING

MAYFIELD ROAD (REGIONAL ROAD No. 14)

STA 14+220

STA 13+980

MATCH LINE

REFER TO DWG No. PP06-D

REFER TO DWG No. PP04-D

PROP. 1200 SAN

R.O.W

LIMIT OF TRCA REGULATION AREA

EX. ROGERS AND BELL TO BE SUPPORTED (BY OTHERS)

EX. DITCH LINE TO BE REALIGNED TEMPORARILY FOR DURATION OF CONSTRUCTION TIME

PROP. 600 CPP WM

LINE VALVE CHAMBER VC01-D c/w DOUBLE DRAIN VALVE (STD. 1-3-21)

PROP. 28° HORIZ. BEND

LAND OUTSIDE OF R.O.W. OWNED BY THE REGIONAL MUNICIPALITY OF PEEL. PERMISSION REQUIRED FOR WORK.

EX. HYDRANT TO BE SUPPORTED DURING THE CONSTRUCTION

DEDICATED AS A PUBLIC HIGHWAY BY BY-LAW 178-80.

PROP. SAN MT SENDING SHAFT 3

PROP. SAN. MH.3A

PROP. SAN. VORTEX DROP STRUCTURE

PROP. 300 SAN

PROP. SAN. MH.3AX

PROP. 300 SAN

PROP. SAN. PLUG

APPROXIMATE 20X70m MT COMPOUND AREA

PROP. 1200 SAN

PROP. 600 AWWA C30X CPP WM

PROP. WM TO BE INSULATED REFER TO STD. 1-5-8 ON D1-D FOR THE DETAIL

PROP. SAN MT SENDING SHAFT 3 ID=7.0m

PROP. 6.4m- 300 PVC SAN @ 0.50%

PROP. 1.6m- 300 PVC SAN @ 1.00%

VORTEX DROP STRUCTURE REFER TO DETAIL ON DWG. D1-D

PROP. SAN MH3A STD. 2-7-5 NW. INV. 205.951 SE. INV. 205.901

PROP. 284.6m- 1200 CPP SAN AWWA C30X MT PIPE @ 0.30% c/w PROTECTIVE LINING BY MICRO-TUNNELING

PROP. 541.7m- 1200 CPP SAN AWWA C30X MT PIPE @ 0.30% c/w PROTECTIVE LINING BY MICRO-TUNNELING

14+123.0 PROP. 28° HORIZ. BEND

14+091.9 PROP. 28° HORIZ. BEND

14+066.6 PROP. 18° HORIZ./ 45° VERT. BEND

14+054.6 45° VERT. BEND

14+023.6 600x300 REDUCER

	218.44	218.22	218.09	217.66	216.42	215.74	215.88	216.01	216.14	218.33			
	222.29	222.25	222.12	221.82	221.29	220.86	220.67	220.65	220.72	220.91	220.98	221.12	221.02
	14+220	14+200	14+180	14+160	14+140	14+120	14+100	14+080	14+060	14+040	14+020	14+000	13+980

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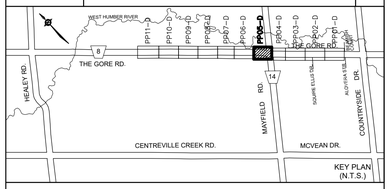

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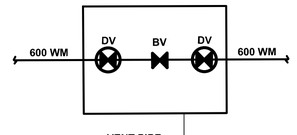

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REGISTERED PROFESSIONAL ENGINEER — H. SARKISSIAN — SEPT. 16, 2024 — PROVINCE OF ONTARIO

Designed by _____ Chkd. _____ Approved by _____

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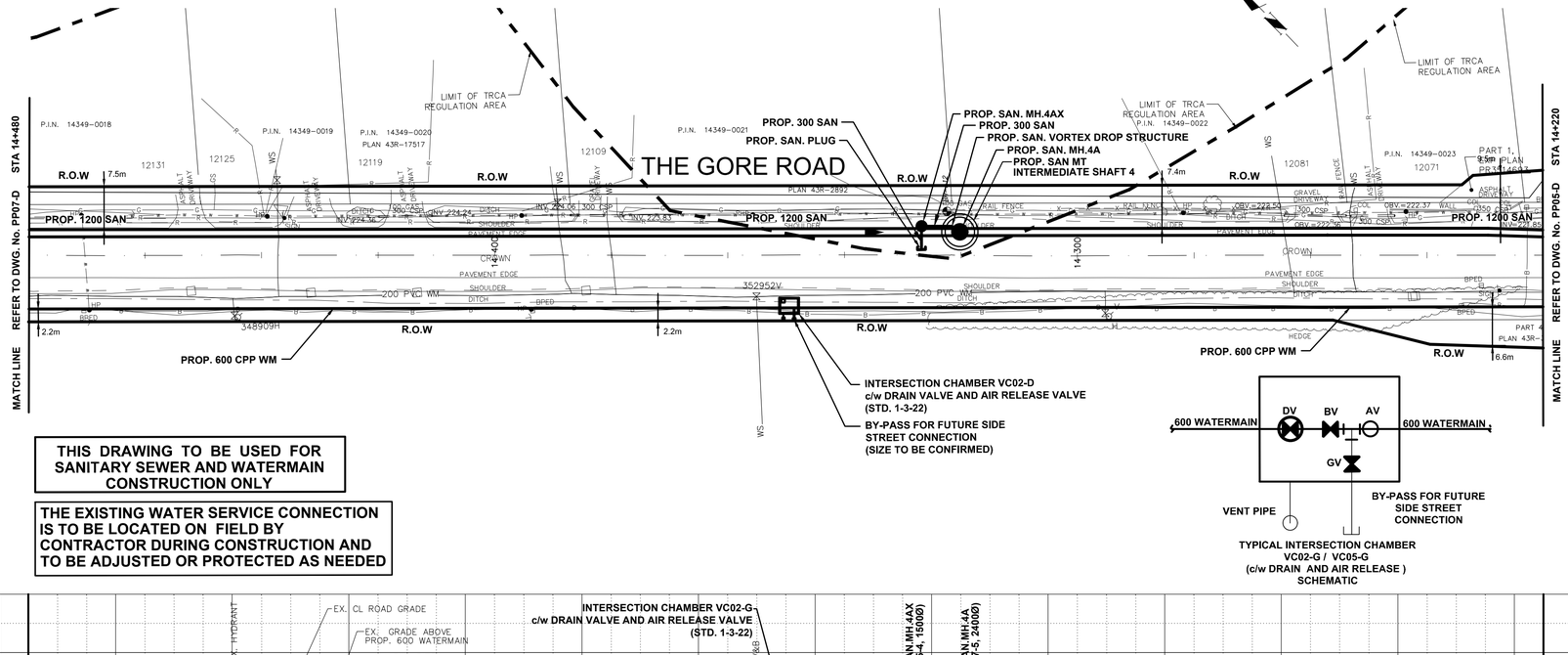
Date	JULY 2024	Sheet	8 of 31

Project No. 242273/ 242274/ 241193

Plan No. PP05-D



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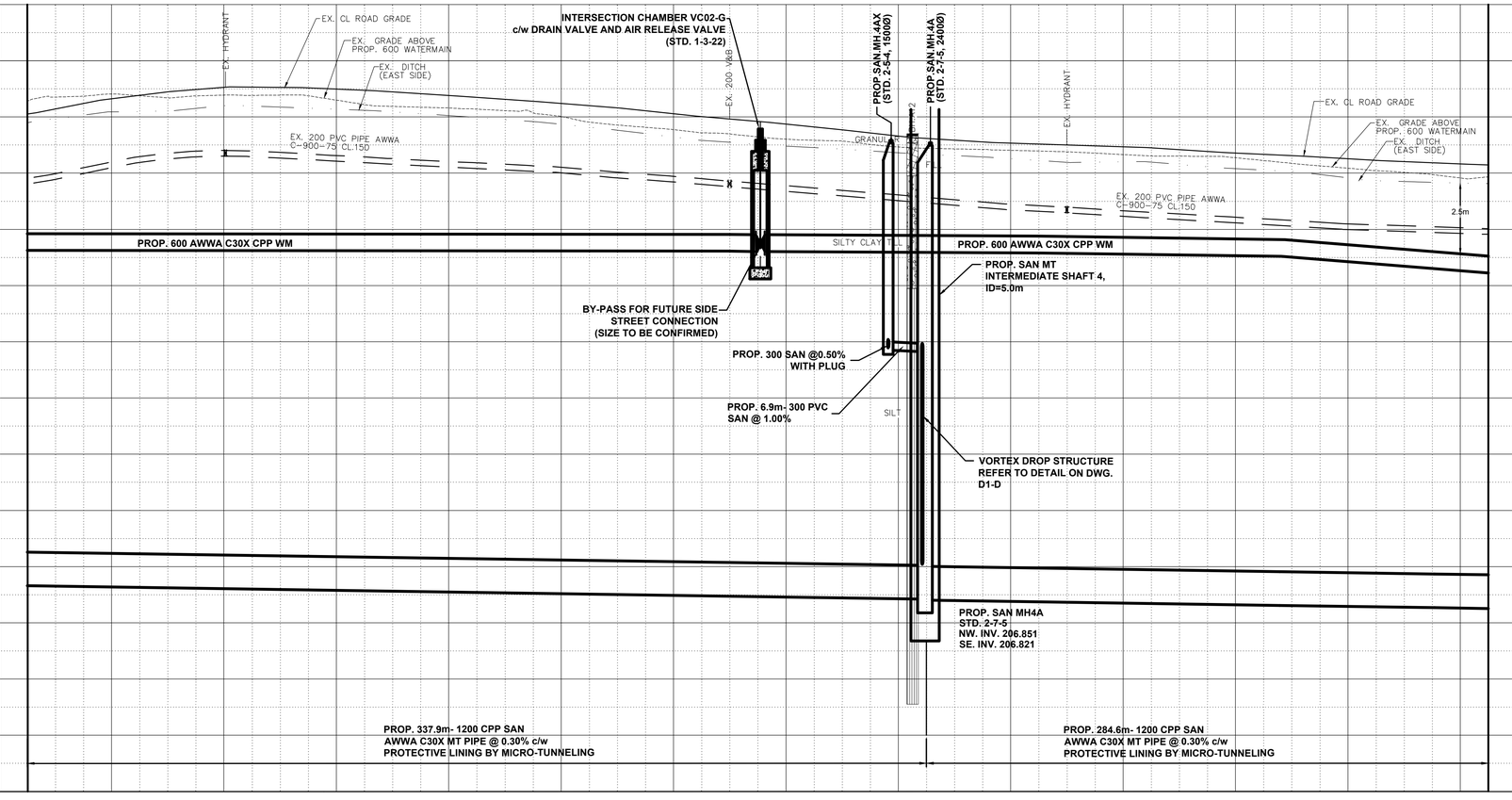

RESTRAINED JOINTS														
BOT.EL. OF WM.	219.17	219.18	219.19	219.20	219.21	219.21	219.22	219.20	219.18	219.16	219.10	219.04	218.76	218.44
EX. ROAD ELEV.	224.11	224.77	225.06	224.94	224.70	224.40	224.01	223.64	223.23	223.03	222.90	222.67	222.45	222.29
ROAD CHAINAGE	14+480	14+460	14+440	14+420	14+400	14+380	14+360	14+340	14+320	14+300	14+280	14+260	14+240	14+220

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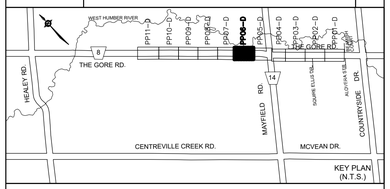

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Approved by

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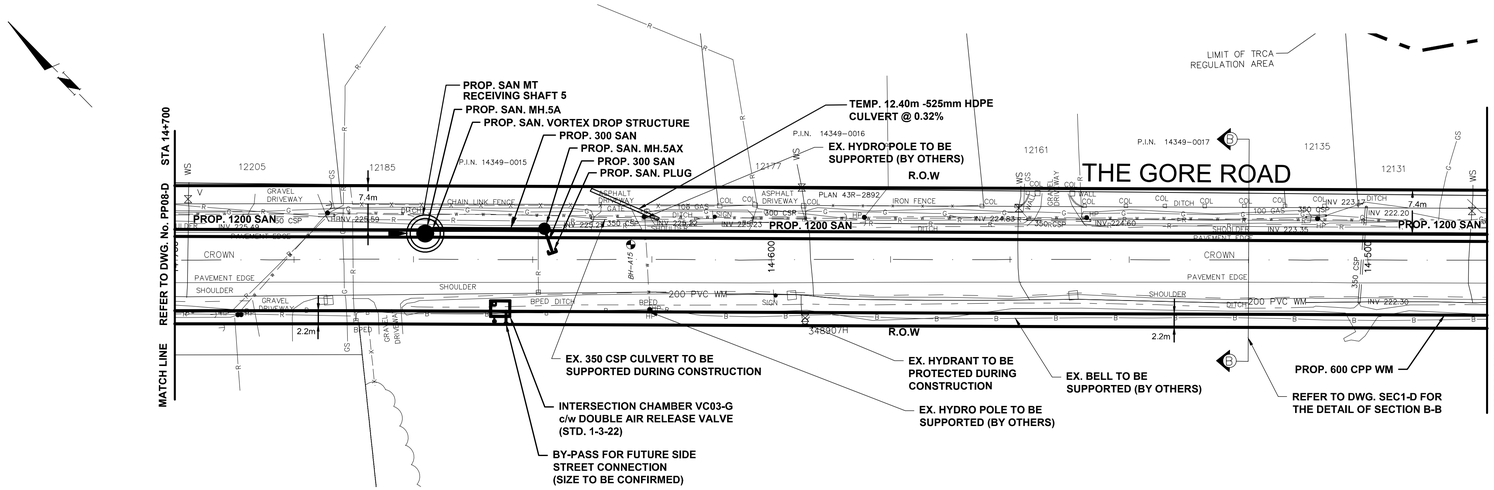

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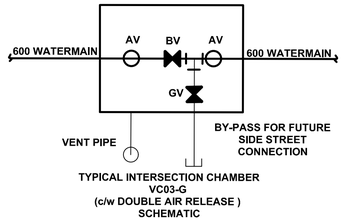
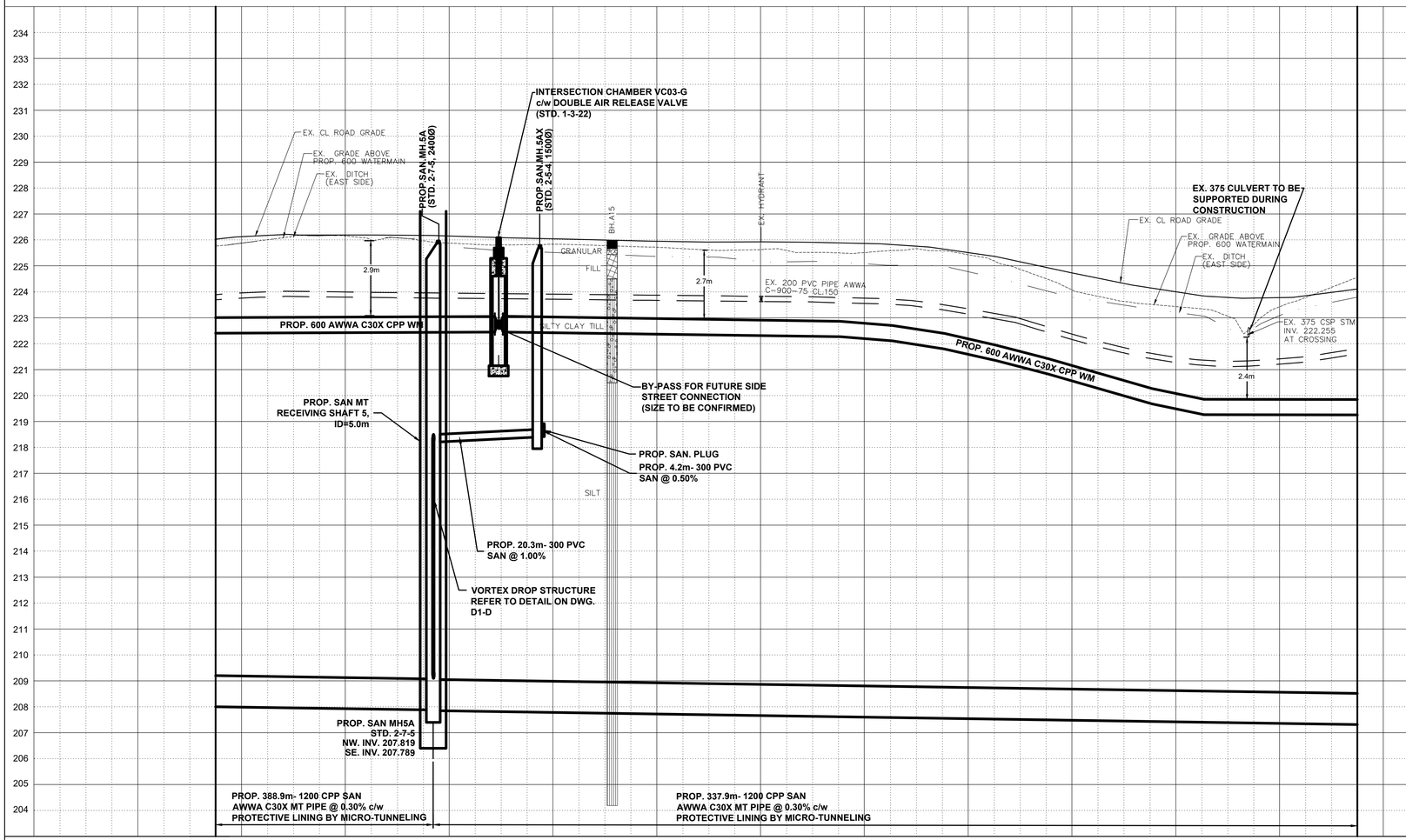


TYPICAL INTERSECTION CHAMBER VC03-G (c/w DOUBLE AIR RELEASE) SCHEMATIC



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222.40	222.42	222.44	222.44	222.38	222.33	222.27	221.81	220.85	219.70	219.16	219.17	BOT.EL. OF WM.
226.03	226.19	226.18	226.07	225.97	225.92	225.89	225.66	224.95	224.16	223.76	224.11	EX. ROAD ELEV.
14+700	14+680	14+660	14+640	14+620	14+600	14+580	14+560	14+540	14+520	14+500	14+480	ROAD CHAINAGE

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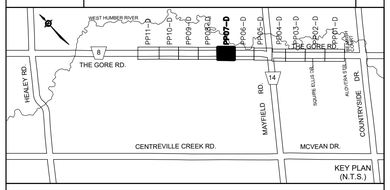

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REGISTERED PROFESSIONAL ENGINEER — H. SARKISIAN — SEPT. 16, 2024 — PROVINCE OF ONTARIO

Designed by | Chkd. | Approved by

NOTICE TO CONTRACTOR

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ALECTRA UTILITIES
TRANS NORTHERN PIPELINE
PEARSON INTERNATIONAL FUEL FACILITIES CORP.
UNION GAS

CABLE TELEVISION/FIBREOPTIC PROVIDERS:
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ENERSOURCE TELECOM
HYDRO ONE TELECOM
ROGERS CABLE
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FUTUREWAY (FCI BROADBAND)
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10m 0 10 20 30m — HORIZONTAL SCALE 1:500
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Region of Peel working with you

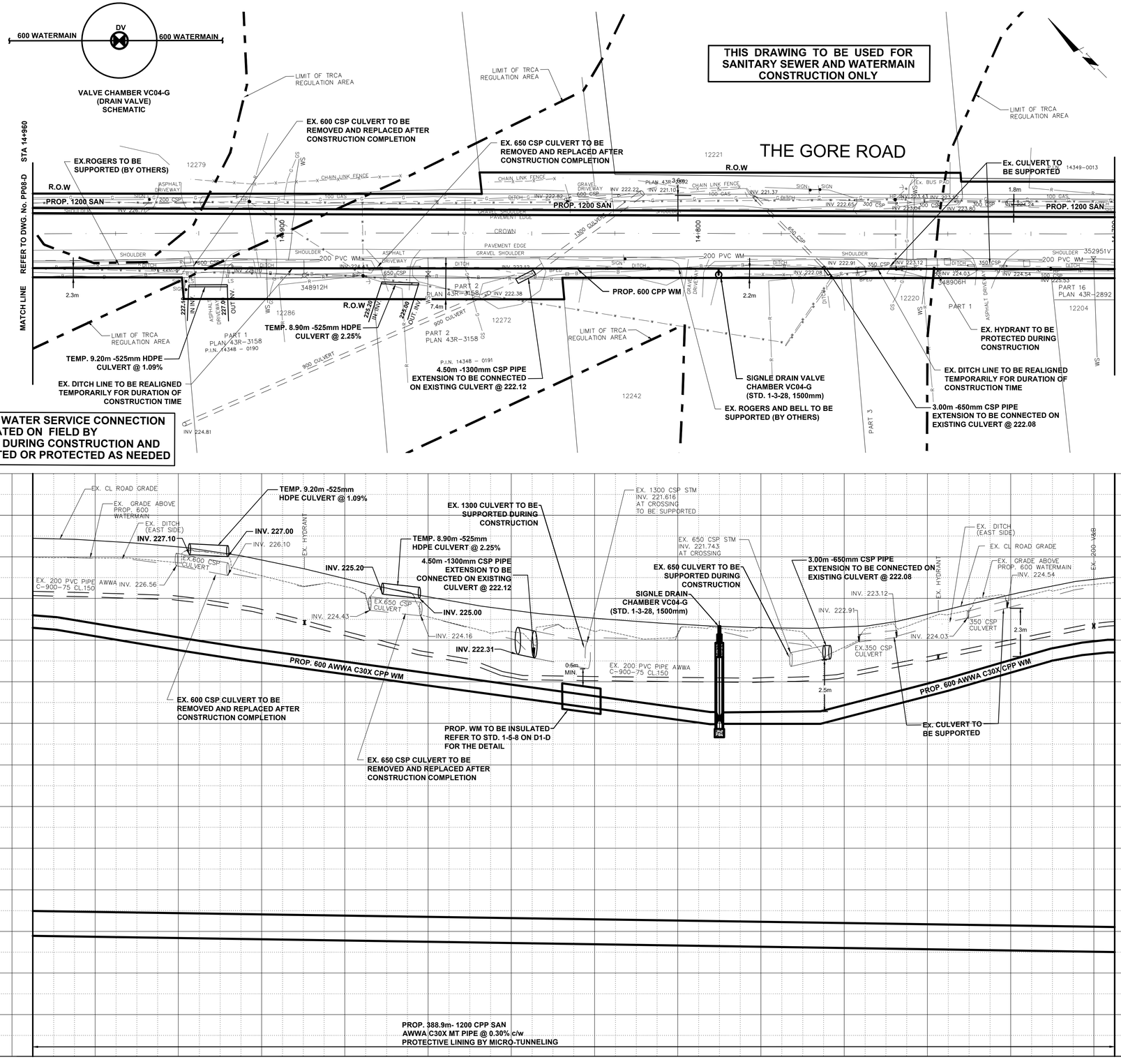
THE GORE ROAD

(FROM MAYFIELD ROAD TO HEALEY ROAD)

PROP. 1200mm SANITARY SEWER
PROP. 600mm WATERMAIN
STA. 14+480 TO STA. 14+700

CAD Area	X-XX	Area	X-XX
Checked by	N.L.	Drawn by	A.L.
Date	JULY 2024	Sheet	10 of 31

Project No. 242274/ 241193
Plan No. PP07-D



SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
SAN SEWERS			GAS MAINS		
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DATE	DETAILS	INIT.
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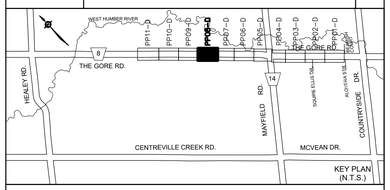

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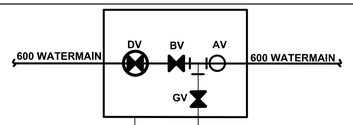
CAD Area	X-XX	Area	X-XX	Project No.	242274/ 241193
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	11 of 31	Plan No.	PP08-D



TYPICAL INTERSECTION CHAMBER VC02-G / VC05-G (c/w DRAIN AND AIR RELEASE) SCHEMATIC

THIS DRAWING TO BE USED FOR SANITARY SEWER AND WATERMAIN CONSTRUCTION ONLY

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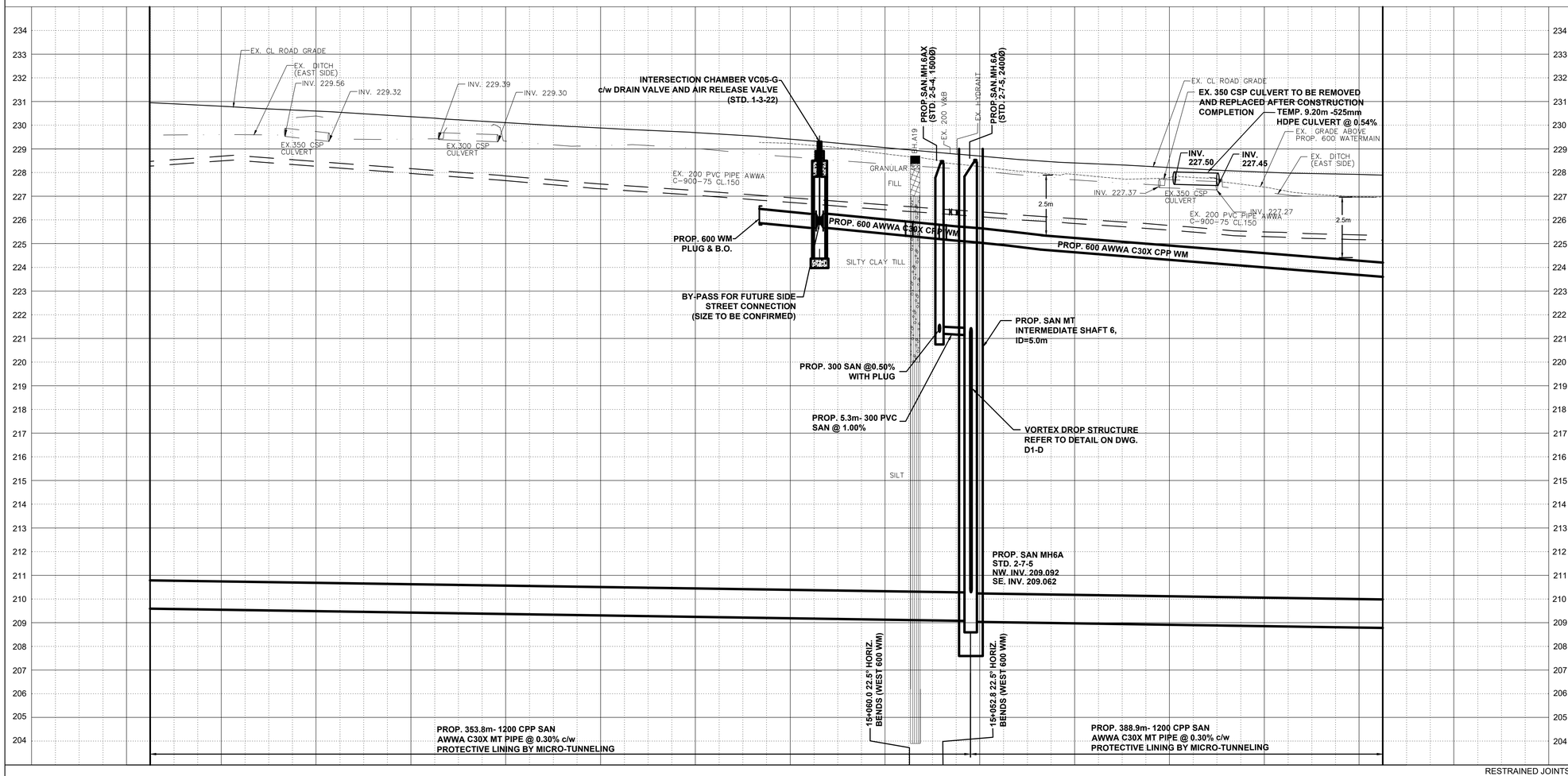

RESTRAINED JOINTS															
BOT.EL. OF WM.								225.67	225.30	224.90	224.55	224.23	223.91	223.59	
EX. ROAD ELEV.	230.95	230.75	230.54	230.30	230.05	229.83	229.63	229.33	228.96	228.61	228.36	228.15	227.98	227.89	
ROAD CHAINAGE	15+220	15+200	15+180	15+160	15+140	15+120	15+100	15+080	15+060	15+040	15+020	15+000	14+980	14+960	

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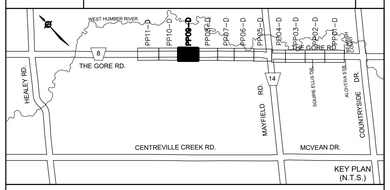

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THE GORE ROAD

(FROM MAYFIELD ROAD TO HEALEY ROAD)

PROP. 1200mm SANITARY SEWER
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CAD Area	X-XX	Area	X-XX
Checked by	N.L.	Drawn by	A.L.
Date	JULY 2024	Sheet	12 of 31
		Project No.	242274/ 241193
		Plan No.	PP09-D

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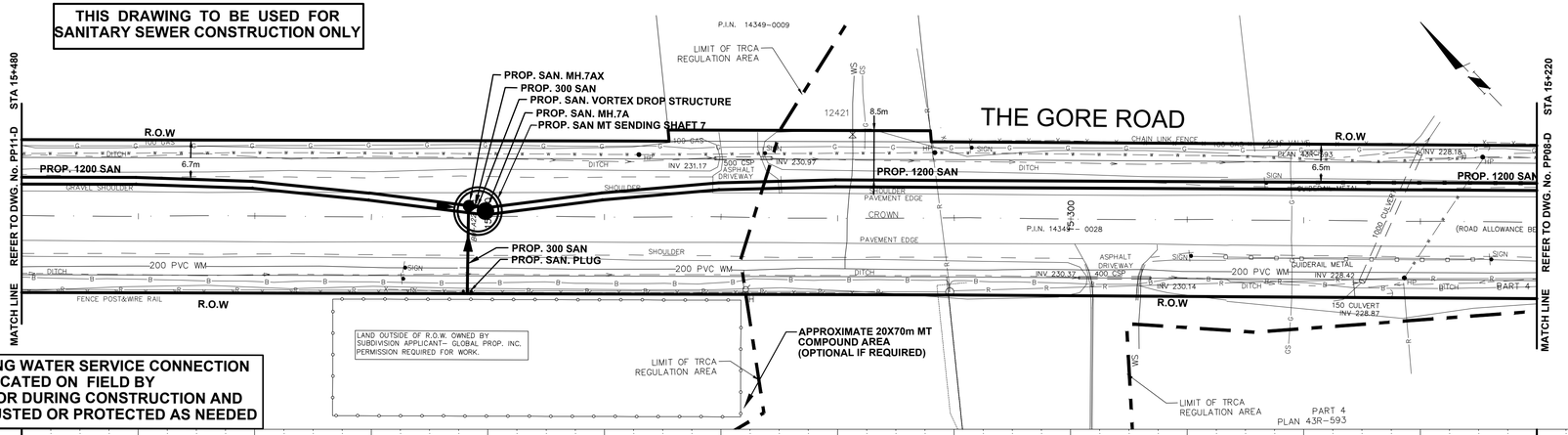

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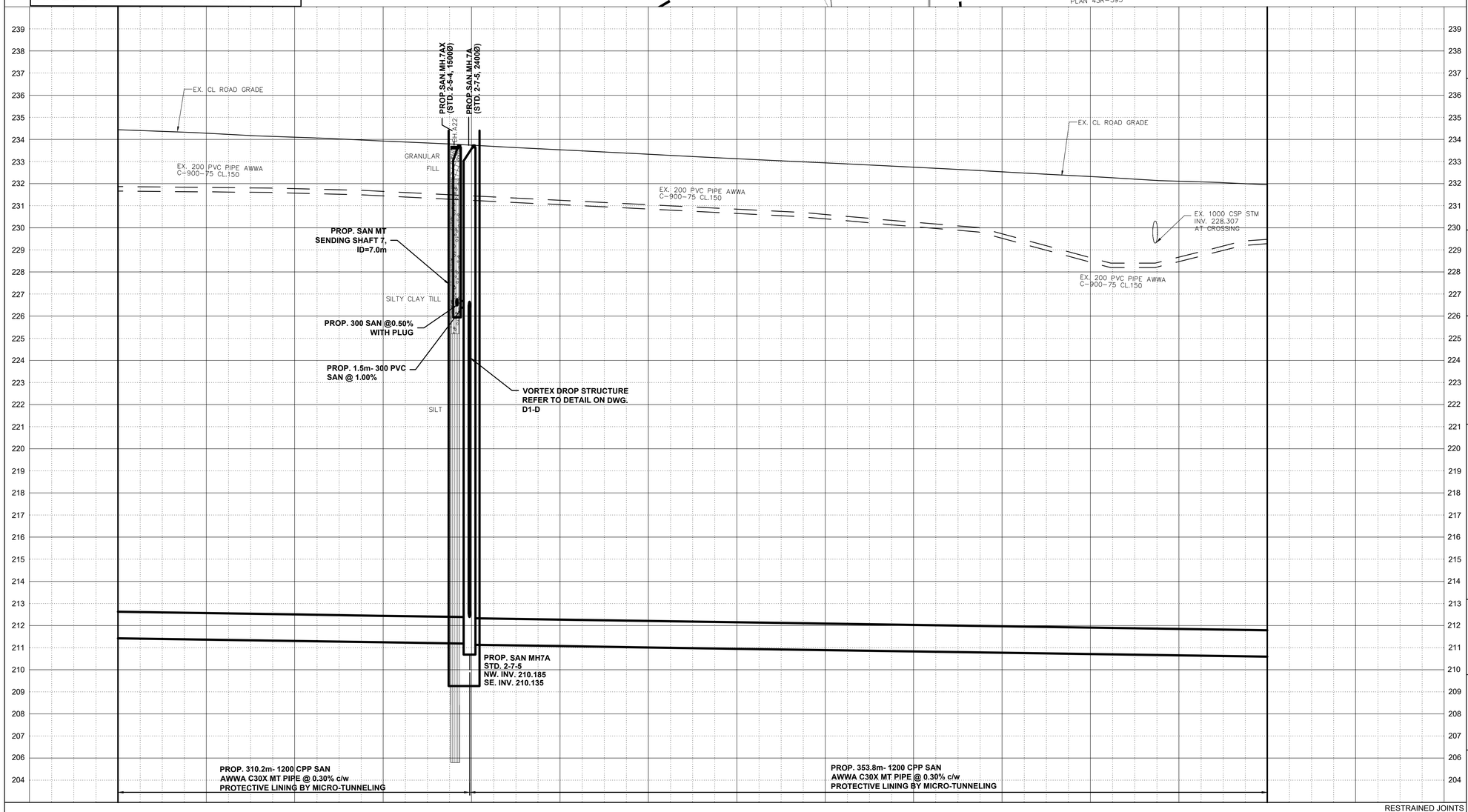

RESTRAINED JOINTS														
BOT.EL. OF WM.														
233.44	233.28	233.10	232.93	232.74	232.53	232.33	232.13	231.94	231.75	231.53	231.32	231.11	230.95	EX. ROAD ELEV.
15+480	15+460	15+440	15+420	15+400	15+380	15+360	15+340	15+320	15+300	15+280	15+260	15+240	15+220	ROAD CHAINAGE

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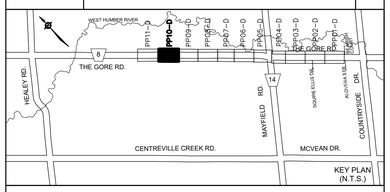

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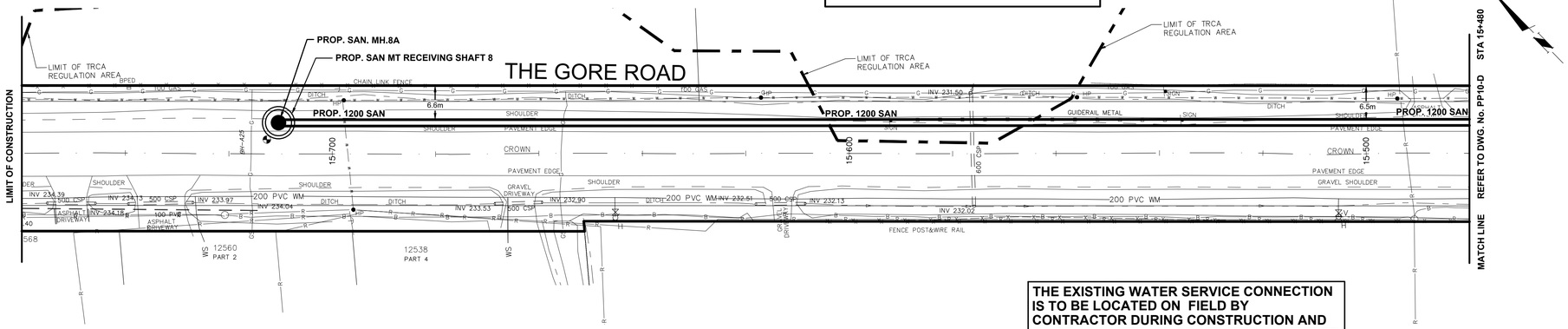

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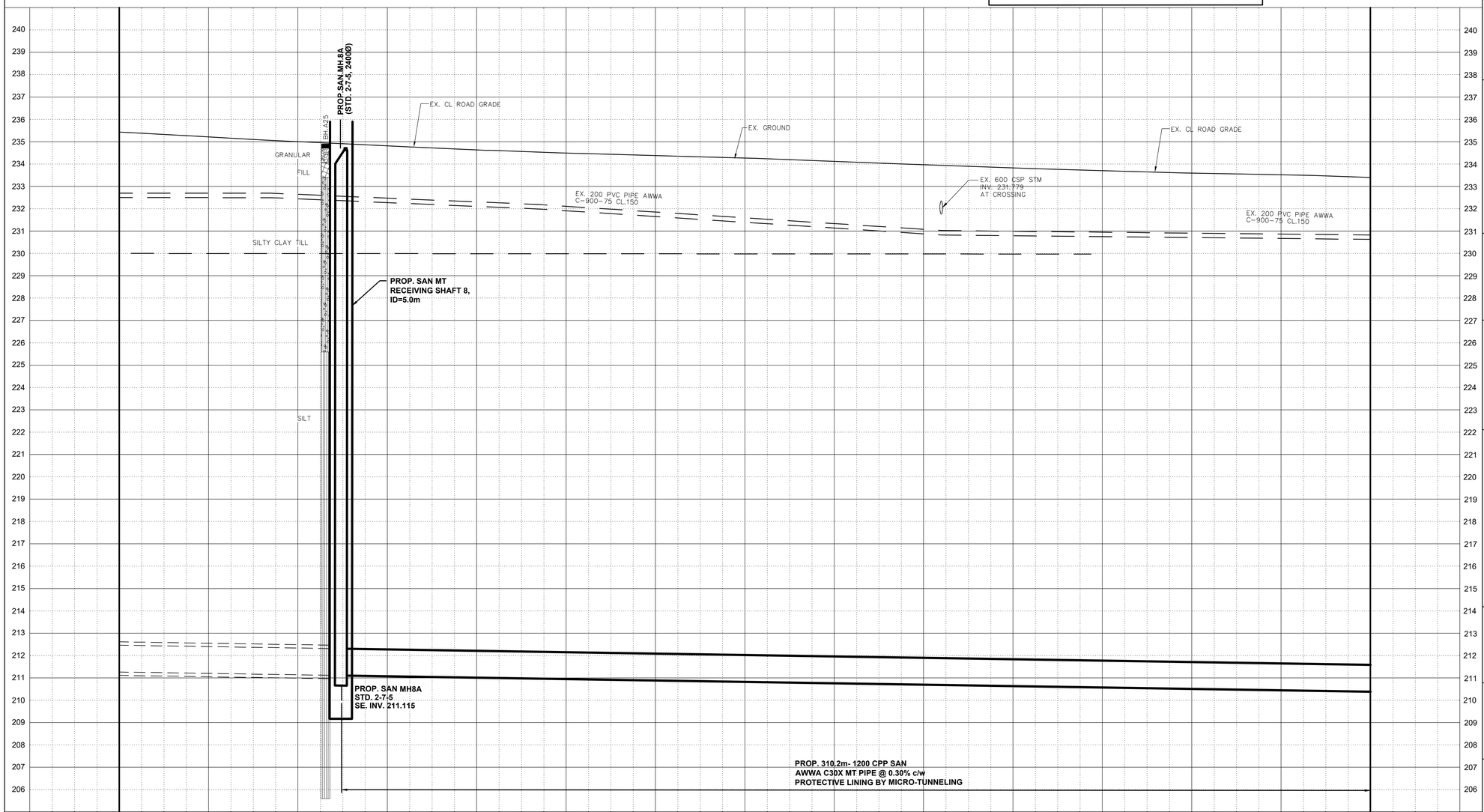

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ROAD CHAINAGE	15+760	15+740	15+720	15+700	15+680	15+660	15+640	15+620	15+600	15+580	15+560	15+540	15+520	15+500	15+480	

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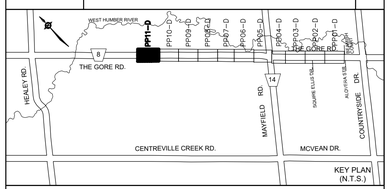

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Approved by

NOTICE TO CONTRACTOR

48 HOURS PRIOR TO COMMENCING WORK NOTIFY THE FOLLOWING

THE REGIONAL MUNICIPALITY OF PEEL
CITY OF MISSISSAUGA WORKS DEPT.
CITY OF BRAMPTON WORKS DEPT.
TOWN OF CALEDON WORKS DEPT.
ENBRIDGE INCORPORATED-GAS DISTRIBUTION
ONTARIO MINISTRY OF TRANSPORTATION
ONTARIO CLEAN WATER AGENCY
HYDRO ONE NETWORKS
ALECTRA UTILITIES
TRANS NORTHERN PIPELINE
PEARSON INTERNATIONAL FUEL FACILITIES CORP.
UNION GAS

CABLE TELEVISION/FIBREOPTIC PROVIDERS:
BELL CANADA
ENERSOURCE TELECOM
HYDRO ONE TELECOM
ROGERS CABLE
ALLSTREAM (ZAYO)
PSN (PUBLIC SECTOR NETWORK)
FUTUREWAY (FCI BROADBAND)
GT FIBER/360 NETWORK INC.
TELUS COMMUNICATION

10m 0 10 20 30m — HORIZONTAL SCALE 1:500

2m 0 2 4 6m — VERTICAL SCALE 1:100

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CONSULTING ENGINEERS
SCHAEFFER & ASSOCIATES LTD.
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Fax: (905) 738-6875
E-mail: design@schaeffers.com

Region of Peel
working with you

THE GORE ROAD

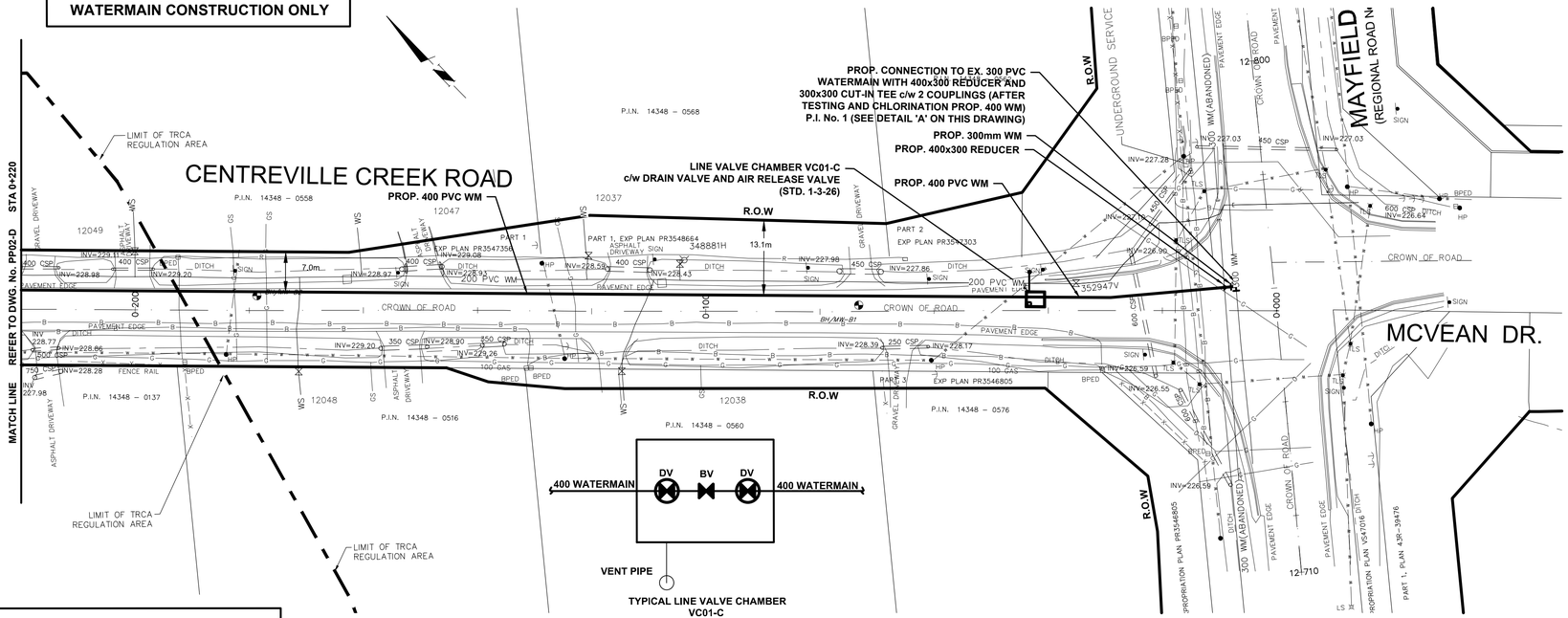
(FROM MAYFIELD ROAD TO HEALEY ROAD)

PROP. 1200mm SANITARY SEWER

STA. 15+480 TO STA. 15+760

CAD Area	X-XX	Area	X-XX	Project No.	242274/ 241193
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	14 of 31	Plan No.	PP11-D

THIS DRAWING TO BE USED FOR WATERMAIN CONSTRUCTION ONLY



THE EXISTING WATER SERVICE CONNECTION IS TO BE LOCATED ON FIELD BY CONTRACTOR DURING CONSTRUCTION AND TO BE ADJUSTED OR PROTECTED AS NEEDED

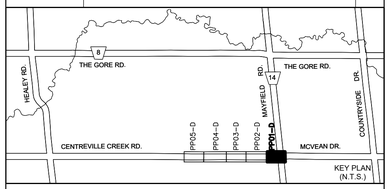
RESTRAINED JOINTS																						
BOT.EL. OF WM.	226.90	226.86	226.82	226.77	226.72	226.68	226.63	226.58	226.54	226.49	226.40	226.29	226.19	226.08	225.97	225.87	225.76	225.65	225.59	225.67	225.75	225.83
EX. ROAD ELEV.	229.91	229.94	229.97	230.00	229.99	229.92	229.88	229.86	229.81	229.76	229.71	229.61	229.46	229.31	229.15	228.90	228.71	228.52	228.38	228.25	228.10	228.19
ROAD CHAINAGE	0+220	0+210	0+200	0+190	0+180	0+170	0+160	0+150	0+140	0+130	0+120	0+110	0+100	0+090	0+080	0+070	0+060	0+050	0+040	0+030	0+020	0+010	0+000

SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
SAN SEWERS			GAS MAINS		
STORM SEWERS			BELL U/G CABLE		
WATERMAINS			HYDRO U/G CABLE		
TRANSIT			HYDRO ONE		
PARKS & REC.			CTV		
ONT. CLEAN WATER			COMMUNIC. CABLES		

REVISIONS

DATE	DETAILS	INIT.
2024-09-16	ISSUED FOR 30% SUBMISSION	C.Z.



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B.M. No.
Elev. XXX.XXX (Geodetic)
Coordinate System: UTM NAD83 (Original)

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REGISTERED PROFESSIONAL ENGINEER H. SARKISSIAN SEPT. 16, 2024 PROVINCE OF ONTARIO

Designed by _____ Chkd. _____

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THE CENTREVILLE CREEK
(FROM MAYFIELD ROAD TO HEALEY ROAD)
PROP. 400mm WATERMAIN
STA. 0+000 TO STA. 0+220

CAD Area	X-XX	Area	X-XX	Project No.	291199
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	4 of 14	Plan No.	PP01-D

f:\5375\5375-PLAN-PROFILES\The Centreville Creek Road\5375-Centreville-PP-1.dwg, 2024-09-16 4:11:00 PM, AutoCAD PDF (General Documentation).pc3

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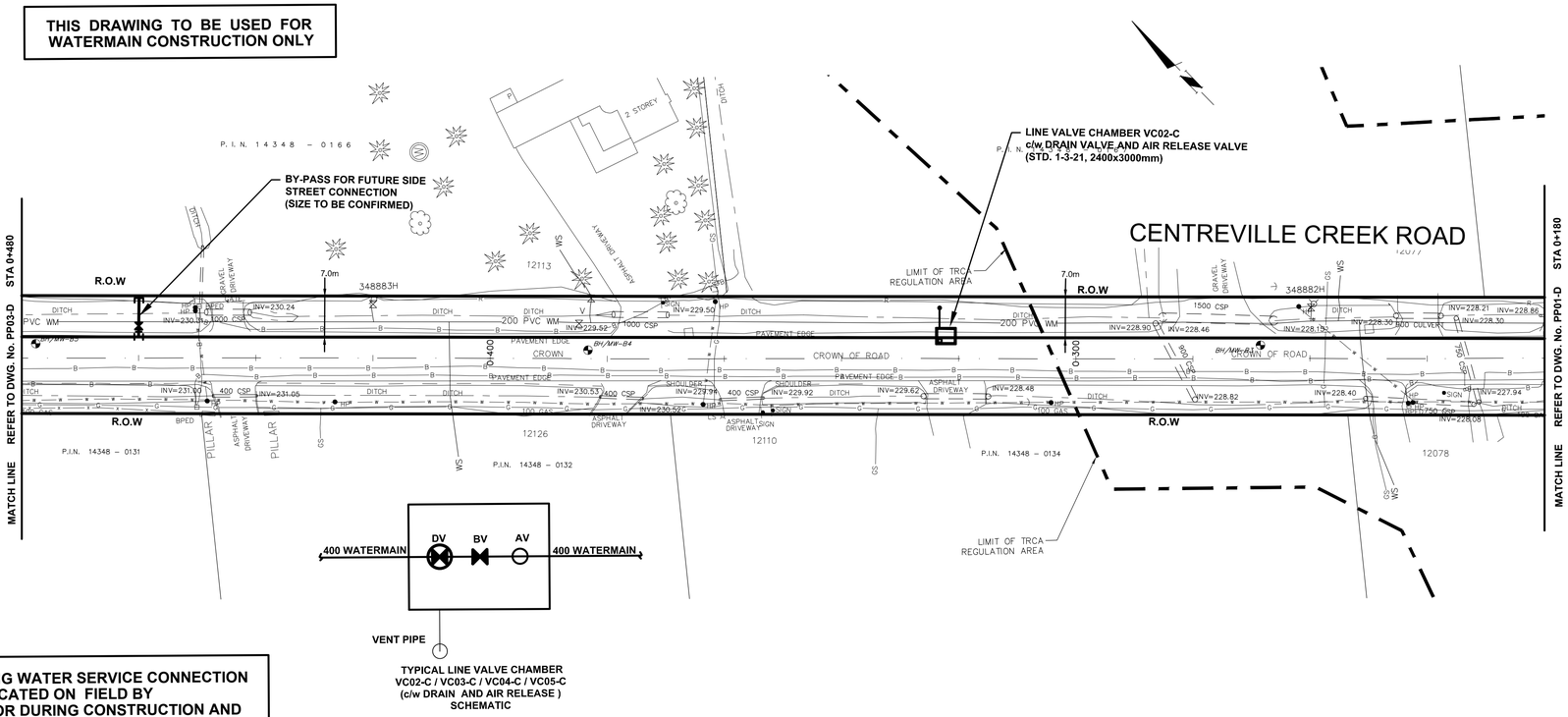

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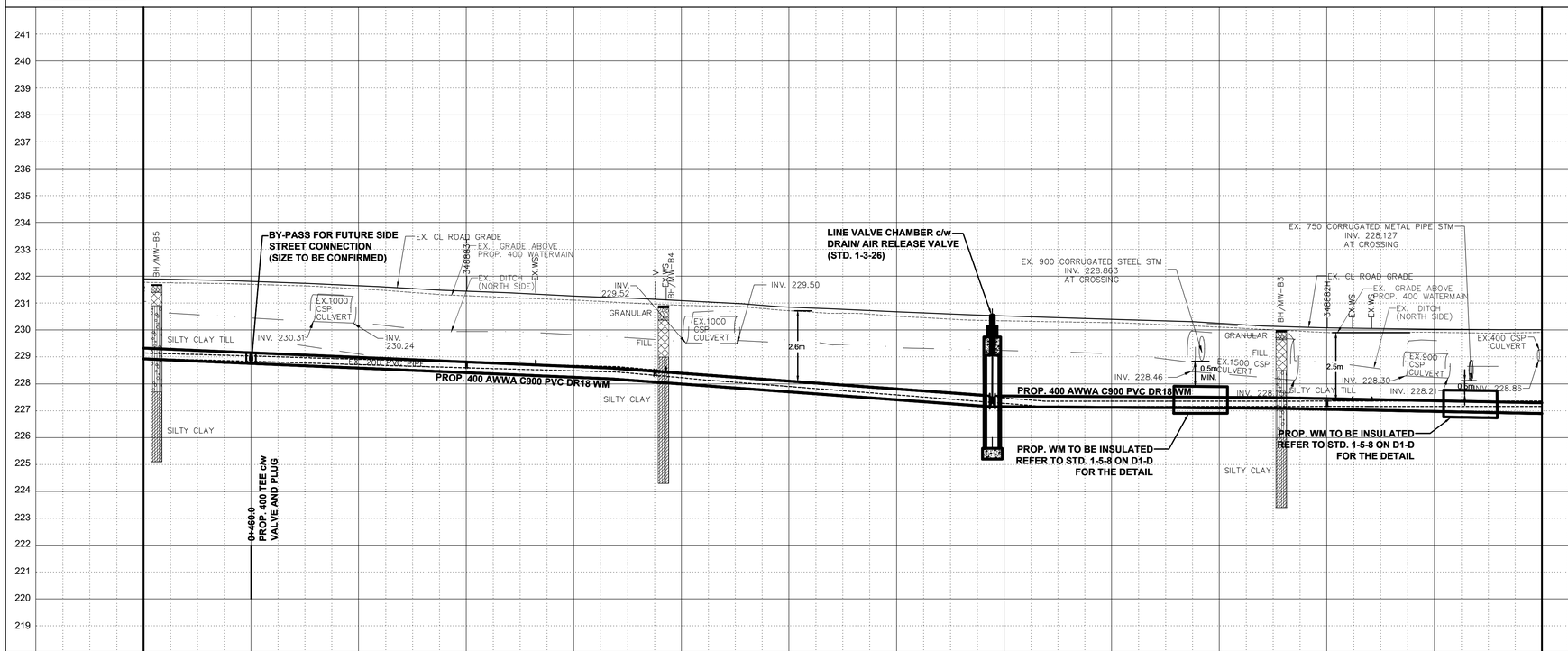

RESTRAINED JOINTS																										
BOT.EL. OF WM.	228.93	228.84	228.76	228.67	228.59	228.50	228.41	228.33	228.24	228.14	227.99	227.85	227.70	227.55	227.41	227.26	227.14	227.13	227.12	227.11	227.10	227.09	227.05	227.01	226.98	226.94	226.90
EX. ROAD ELEV.	231.77	231.74	231.70	231.64	231.53	231.40	231.27	231.19	231.11	231.01	230.92	230.88	230.72	230.62	230.51	230.40	230.34	230.30	230.27	230.20	230.11	230.01	229.91	229.91	229.91	229.88	229.91
ROAD CHAINAGE	0+480	0+470	0+460	0+450	0+440	0+430	0+420	0+410	0+400	0+390	0+380	0+370	0+360	0+350	0+340	0+330	0+320	0+310	0+300	0+290	0+280	0+270	0+260	0+250	0+240	0+230	0+220

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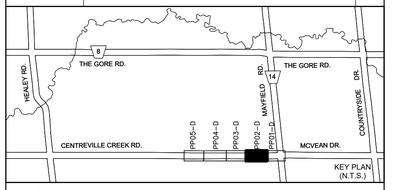

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REGISTERED PROFESSIONAL ENGINEER H. SARKISSIAN SEPT 16, 2024 PROVINCE OF ONTARIO

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Region of Peel working with you

THE CENTREVILLE CREEK ROAD

(FROM MAYFIELD ROAD TO HEALEY ROAD)

PROP. 400mm WATERMAIN

STA. 0+220 TO STA. 0+480

CAD Area	X-XX	Area	X-XX
Checked by	N.L.	Drawn by	A.L.
Date	JULY 2024	Sheet	5 of 14

Project No. 291199

Plan No. PP02-D

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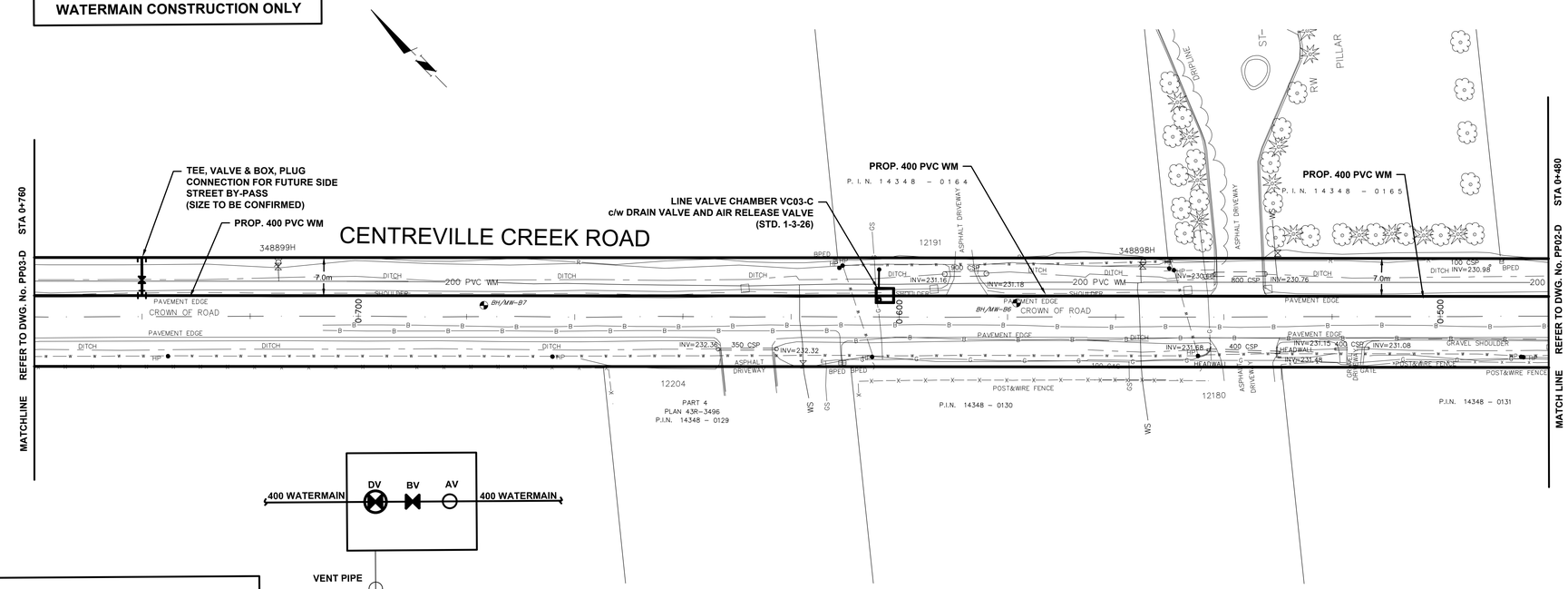

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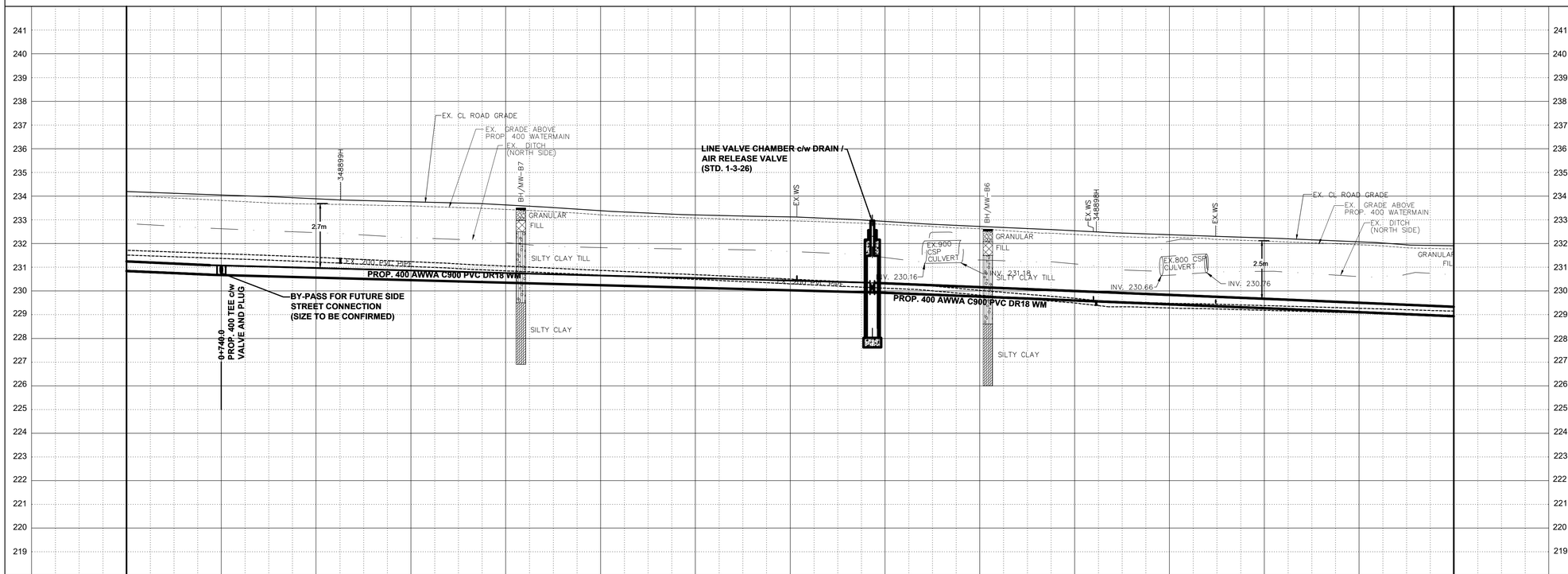

RESTRAINED JOINTS																													
230.84	230.75	230.67	230.62	230.56	230.51	230.46	230.40	230.35	230.30	230.24	230.19	230.14	230.08	230.03	229.98	229.92	229.84	229.76	229.68	229.60	229.52	229.44	229.35	229.27	229.19	229.10	229.02	228.93	BOT.EL. OF WM.
234.01	233.92	233.82	233.71	233.66	233.63	233.59	233.52	233.44	233.34	233.21	233.14	233.08	233.00	232.96	232.90	232.81	232.72	232.62	232.48	232.38	232.29	232.26	232.17	232.10	232.03	231.95	231.82	231.77	EX. ROAD ELEV.
0+760	0+750	0+740	0+730	0+720	0+710	0+700	0+690	0+680	0+670	0+660	0+650	0+640	0+630	0+620	0+610	0+600	0+590	0+580	0+570	0+560	0+550	0+540	0+530	0+520	0+510	0+500	0+490	0+480	ROAD CHAINAGE

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SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
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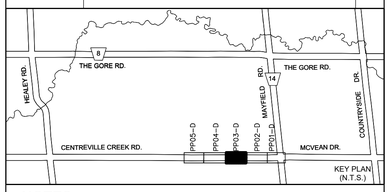

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CAD Area	X-XX	Area	X-XX
Checked by	N.L.	Drawn by	A.L.
Date	JULY 2024	Sheet	6 of 14

Project No. 291199

Plan No. PP03-D

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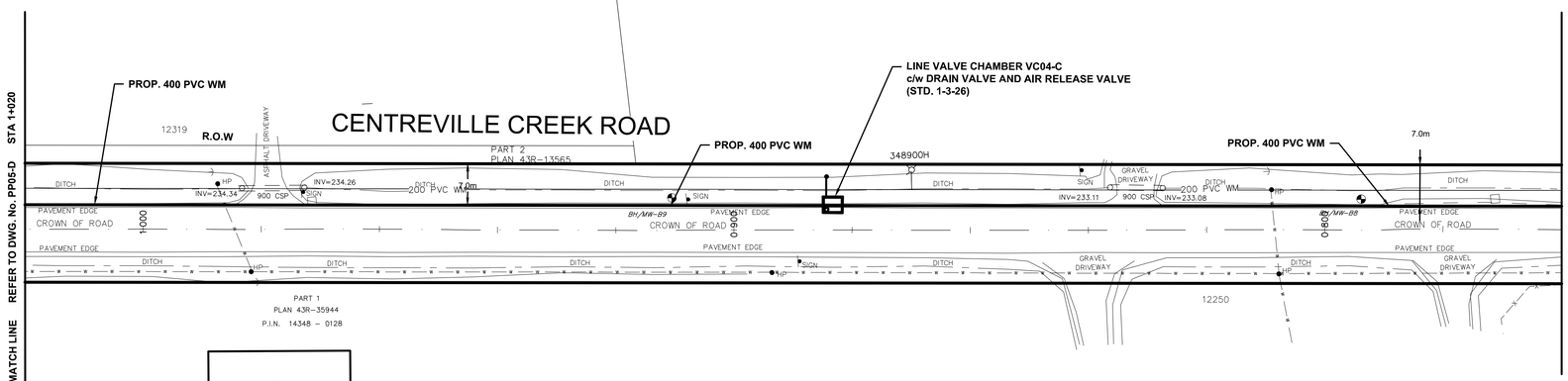

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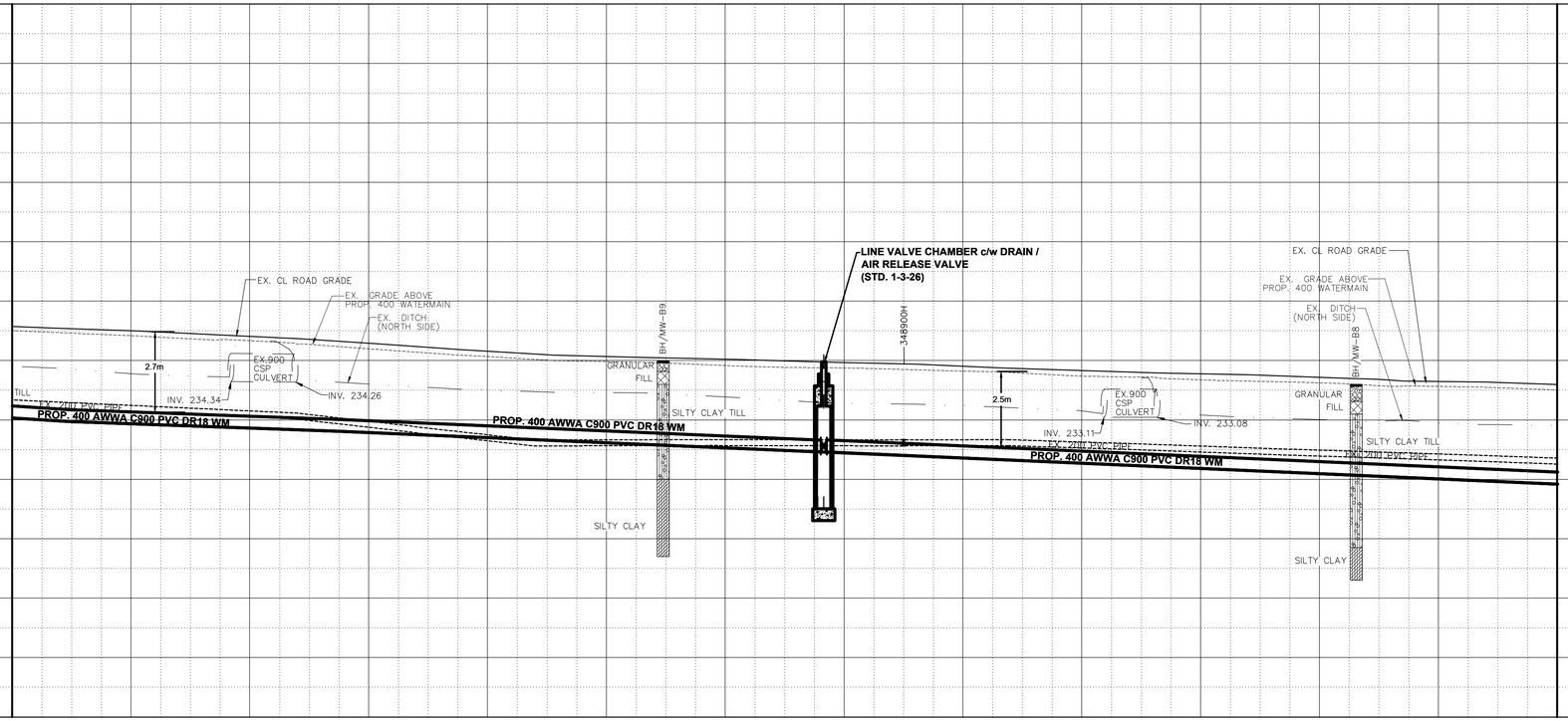

	233.07	232.94	232.87	232.80	232.73	232.65	232.58	232.49	232.40	232.32	232.23	232.15	232.06	231.97	231.89	231.80	231.72	231.63	231.54	231.46	231.37	231.28	231.19	231.10	231.02	230.93	230.84
	236.00	235.92	235.84	235.73	235.67	235.54	235.39	235.25	235.14	235.01	234.97	234.91	234.83	234.77	234.75	234.70	234.64	234.57	234.47	234.44	234.35	234.30	234.25	234.15	234.13	234.08	234.01
	1+020	1+010	1+000	0+990	0+980	0+970	0+960	0+950	0+940	0+930	0+920	0+910	0+900	0+890	0+880	0+870	0+860	0+850	0+840	0+830	0+820	0+810	0+800	0+790	0+780	0+770	0+760

RESTRAINED JOINTS
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EX. ROAD ELEV.
ROAD CHAINAGE

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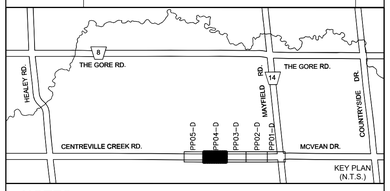

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B.M. No.
Elev. XXX.XXX (Geodetic)
Coordinate System: UTM NAD83 (Original)

The Contractor Is Responsible For Locating And Protecting All Existing Utilities Prior To And During Construction. Location Of Existing Utilities Approximate Only, To Be Verified In Field By Contractor.

REGISTERED PROFESSIONAL ENGINEER
H. SARKISSIAN
SEPT. 16, 2024
PROVINCE OF ONTARIO

Designed by ____ Chkd. ____

Approved by

NOTICE TO CONTRACTOR

48 HOURS PRIOR TO COMMENCING WORK NOTIFY THE FOLLOWING

THE REGIONAL MUNICIPALITY OF PEEL
CITY OF MISSISSAUGA WORKS DEPT.
CITY OF BRAMPTON WORKS DEPT.
TOWN OF CALEDON WORKS DEPT.
ENBRIDGE INCORPORATED-GAS DISTRIBUTION
ONTARIO MINISTRY OF TRANSPORTATION
ONTARIO CLEAN WATER AGENCY
HYDRO ONE NETWORKS
ALECTRA UTILITIES
TRANS NORTHERN PIPELINE
PEARSON INTERNATIONAL FUEL FACILITIES CORP.
UNION GAS

CABLE TELEVISION/FIBREOPTIC PROVIDERS:
BELL CANADA
ENERSOURCE TELECOM
HYDRO ONE TELECOM
ROGERS CABLE
ALLSTREAM (ZAYO)
PSN (PUBLIC SECTOR NETWORK)
FUTUREWAY (FCI BROADBAND)
GT FIBER/360 NETWORK INC.
TELUS COMMUNICATION

10m 0 10 20 30m — HORIZONTAL SCALE 1:500
2m 0 2 4 6m — VERTICAL SCALE 1:100

SCHAEFFERS CONSULTING ENGINEERS
SCHAEFFER & ASSOCIATES LTD.
6 Ronrose Drive, Concord, Ontario L4K 4R3
Tel: (905) 738-6100
Fax: (905) 738-6875
E-mail: design@schaeffers.com

Region of Peel
working with you

THE CENTREVILLE CREEK

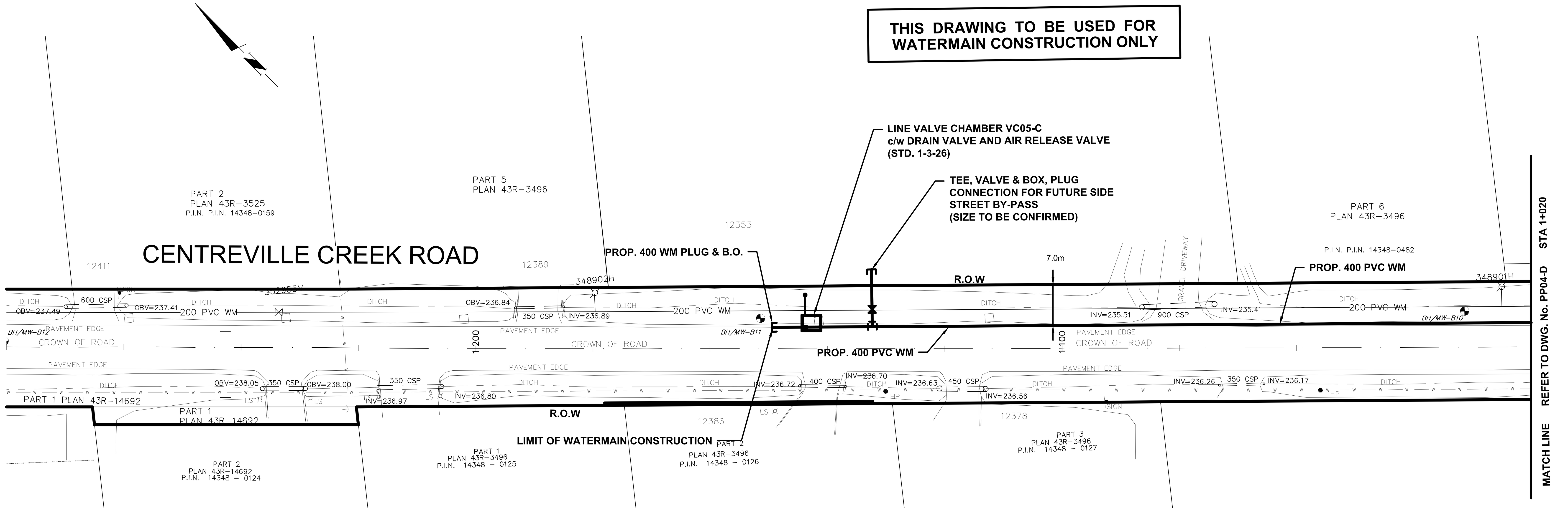
(FROM MAYFIELD ROAD TO HEALEY ROAD)

PROP. 400mm WATERMAIN

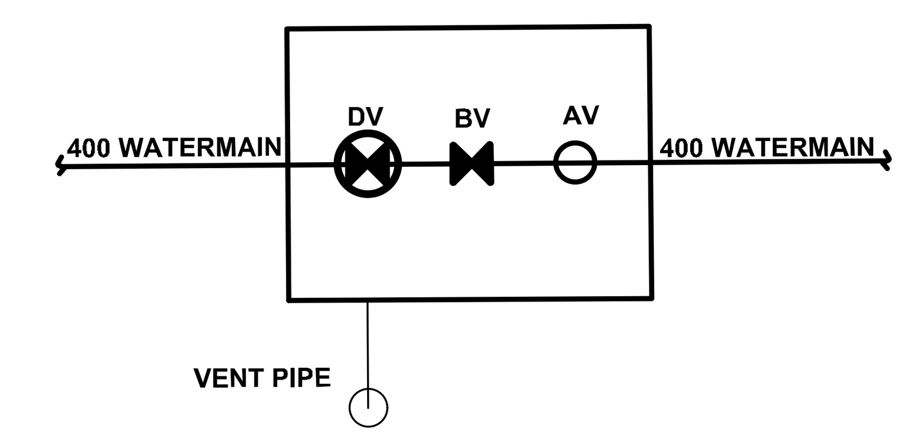
STA. 0+720 TO STA. 1+020

CAD Area	X-XX	Area	X-XX
Checked by	N.L.	Drawn by	A.L.
Date	JULY 2024	Sheet	7 of 14

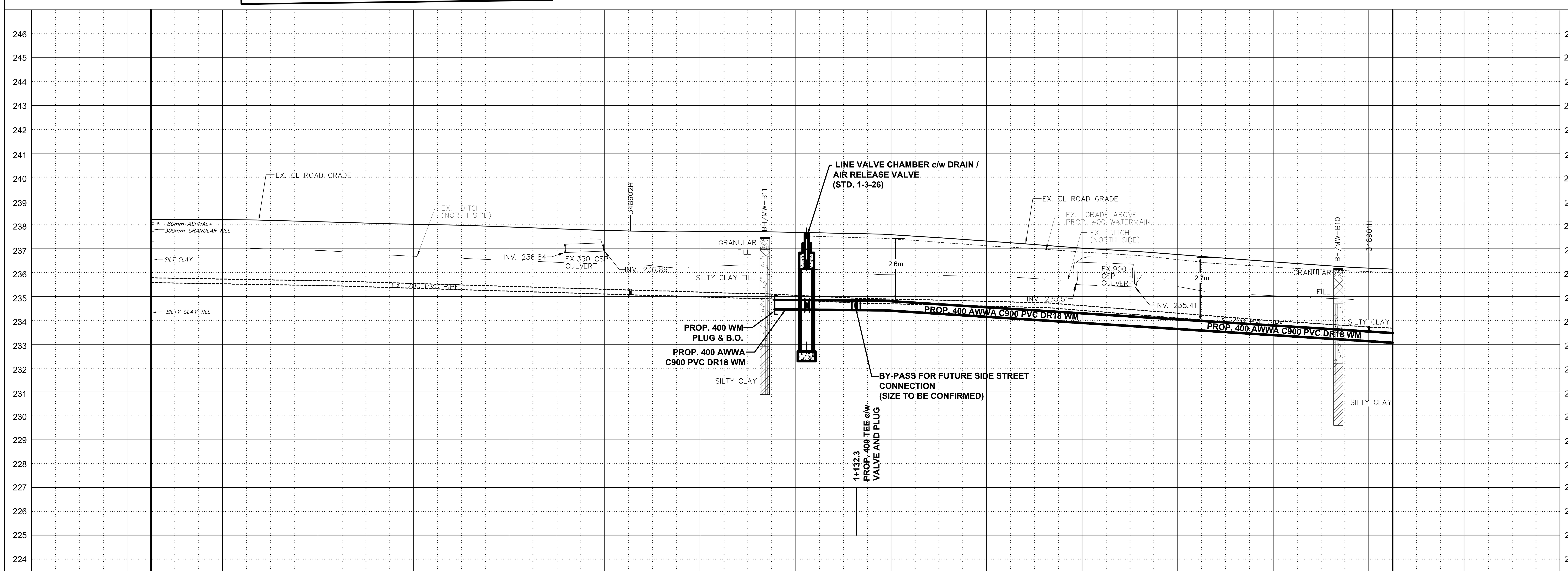
Project No. 291199
Plan No. PP04-D



THE EXISTING WATER SERVICE CONNECTION IS TO BE LOCATED ON FIELD BY CONTRACTOR DURING CONSTRUCTION AND TO BE ADJUSTED OR PROTECTED AS NEEDED



TYPICAL LINE VALVE CHAMBER
VC02-C / VC03-C / VC04-C / VC05-C
(c/w DRAIN AND AIR RELEASE)
SCHEMATIC



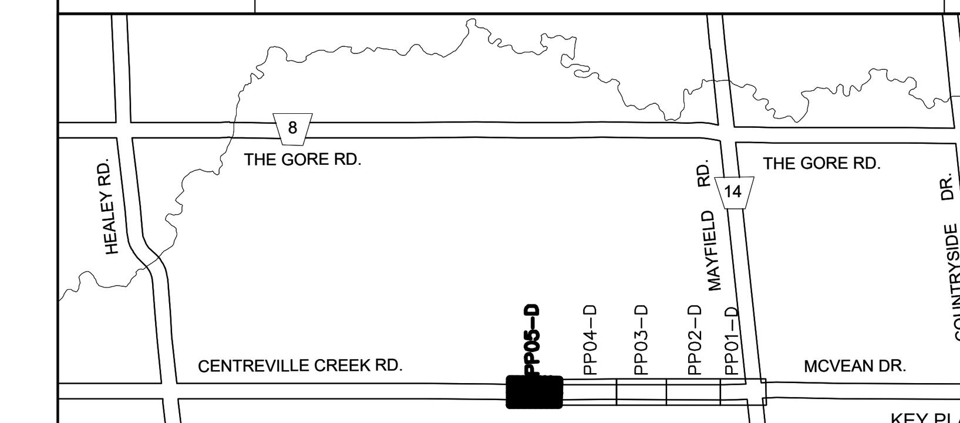
RESTRAINED JOINTS																										
BOT.EL. OF WM.														234.45	234.43	234.34	234.21	234.08	233.96	233.83	233.70	233.58	233.45	233.32	233.19	233.07
EX. ROAD ELEV.														237.51	237.46	237.35	237.20	237.06	236.94	236.80	236.65	236.44	236.30	236.17	236.08	236.00
ROAD CHAINAGE	1+280	1+270	1+260	1+250	1+240	1+230	1+220	1+210	1+200	1+190	1+180	1+170	1+160	1+150	1+140	1+130	1+120	1+110	1+100	1+090	1+080	1+070	1+060	1+050	1+040	1+030	1+020

SERVICE DATA

SERVICE	DATE	INIT.	SERVICE	DATE	INIT.
SAN SEWERS			GAS MAINS		
STORM SEWERS			BELL U/G CABLE		
WATERMAINS			HYDRO U/G CABLE		
TRANSIT			HYDRO ONE		
PARKS & REC.			CTV		
ONT. CLEAN WATER			COMMUNIC. CABLES		

REVISIONS

DATE	DETAILS	INIT.
2024-09-16	ISSUED FOR 30% SUBMISSION	C.Z.



KEY PLAN
(N.T.S.)

NOTES:

1. INVERTS, SIZE AND LOCATION FOR ALL SERVICES AND UTILITIES TO BE VERIFIED BY CONTRACTOR PRIOR TO EXCAVATION AND PROTECTED/SUPPORTED ACCORDINGLY DURING CONSTRUCTION.
2. LOCAL ACCESS TO RESIDENTS IS TO BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
3. THE VALVE CHAMBER SCHEMATICS SHOWN IN THE PLAN AND PROFILE DRAWINGS. REFER TO THE REGION OF PEEL STANDARD DRAWINGS TO DETERMINE THE NECESSARY VALVING TYPE/CONFIGURATION DETAILS.
4. FOR RELOCATION OF THE EX. 200 WATERMAIN WITH LENGTH EXCEEDING 6.0m FLUSHING AND DISINFECTION IS REQUIRED.
5. ALL EX. DITCHES RELOCATED WITHIN COMPOUND AREA TO BE REINSTATED TO ORIGINAL ALIGNMENT.
6. FOR TREE REMOVALS/PROTECTION REFER TO RM1-D TO RM2-D

LEGEND:

- DENOTES PROPOSED WATERMAIN
- 200 PVC WM — DENOTES EXISTING WATERMAIN
- 300 STM — DENOTES EXISTING STORM SEWER
- R — DENOTES ROGERS
- G — DENOTES EXISTING GAS MAIN
- W — DENOTES EXISTING AERIAL CABLES
- DENOTES LIMIT OF TRCA REGULATION AREA
- DENOTES SINGLE/DOUBLE CATCHBASIN

General Notes

All Measurements Are In Meters(m) Unless Otherwise Noted
All Driveways Are ASPHALT Unless Otherwise Noted
All Water And Sanitary Service Locations Are Approximate And Must Be Located Accurately In The Field
All Horizontal And Vertical Bends Are In Degrees

Agency:
B.M. No.
Elev. XXX.XXX (Geodetic)
Coordinate System: UTM NAD83 (Original)
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REGISTERED PROFESSIONAL ENGINEER
H.SARKISSIAN
SEPT. 16, 2024
PROVINCE OF ONTARIO

Designed by
Chkd.
Approved by

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10m 0 10 20 30m
HORIZONTAL SCALE 1:500

2m 0 2 4 6m
VERTICAL SCALE 1:100

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6 Ronrose Drive, Concord,
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design@schaeffers.com

Region of Peel
working with you

THE CENTREVILLE CREEK

(FROM MAYFIELD ROAD TO HEALEY ROAD)

PROP. 400mm WATERMAIN

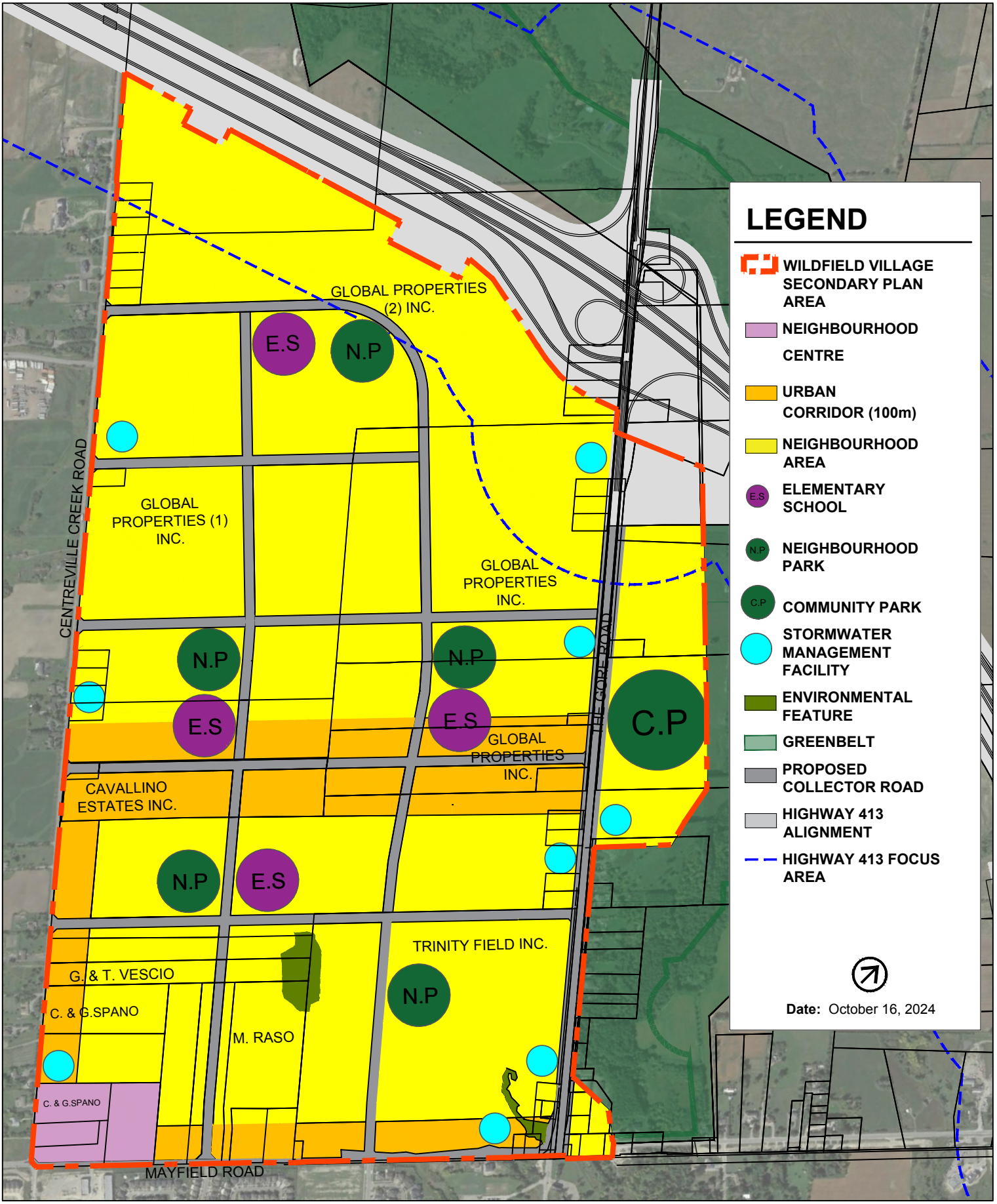
STA. 1+020 TO STA. 1+280

CAD Area	X-XX	Area	X-XX	Project No.	291199
Checked by	N.L.	Drawn by	A.L.		
Date	JULY 2024	Sheet	8 of 14	Plan No.	PP05-D

ATTACHMENT C

PRELIMINARY POPULATION ESTIMATES AND SANITARY DESIGN SHEET

SCS consulting group ltd



WILDFIELD VILLAGE | LAND USE CONCEPT PLAN

Sanitary Design Sheet
Wildfield Village
Phase 1
Town of Caledon, Region of Peel

Minimum Sewer Diameter (mm) =	**200**	**Avg. Domestic Flow (l/cap/day) =**	**290**
Mannings n =	**0.013**	**Infiltration Rate (l/s/ha) =**	**0.26**
Minimum Velocity (m/s) =	**0.75**	**Max. Harmon Peaking Factor =**	**4.0**
Maximum Velocity (m/s) =	**3**	**Min. Harmon Peaking Factor =**	**2.0**
Minimum Pipe Slope (%) =	**0.50**	**NOMINAL PIPE SIZE USED**	

Note: Population density per sanitary population calculations in this appendix.

Project: Wildfield Village
Project No. 2630
Date: 20-Dec-24
Designed By: D.V.
Reviewed By: N.D.M.

P:\2630 Wildfield Village\Design\Pipe Design\Sanitary\[2630 - Sanitary Sheet Design - External Trunk Sanitary Sizing.xlsm]Design

LOCATION			RESIDENTIAL							INDUSTRIAL/COMMERCIAL/INSTITUTIONAL					FLOW CALCULATIONS								PIPE DATA				
STREET	MANHOLE		AREA	ACCUM. AREA	UNITS	DENSITY		RESIDENTIAL POPULATION	ACCUM. RESIDENTIAL POPULATION	AREA	ACCUM. AREA	POPULATION DENSITY	FLOW RATE	ACCUM. EQUIV. POPULATION	INFILTRATION	TOTAL ACCUM. POPULATION	AVG. DOMESTIC FLOW	ACCUM. AVG. DOMESTIC FLOW	PEAKING FACTOR	PEAKED RESIDENTIAL FLOW	ICI FLOW	TOTAL FLOW	LENGTH	PIPE DIAMETER	SLOPE	FULL FLOW CAPACITY	FULL FLOW VELOCITY
	FROM	TO	(ha)	(ha)	(#)	PER UNIT (p/unit)	PER HA (p/ha)			(ha)	(ha)	(p/ha)	(l/s/ha)		(L/s)		(L/s)	(L/s)		(L/s)	(L/s)	(L/s)	(m)	(mm)	(%)	(L/s)	(m/s)
Catchment 101	101	MH1	154.88	154.88	0		112.7	17456	17456	0	0	0	0	0	40.3	17456	58.6	58.6	2.71	158.9	0.0	199.2	100.0	525	0.50	303.9	1.40
Catchment 102	102	MH1	7.75	7.75	0		121.9	945	945	0	0	0	0	0	2.0	945	3.2	3.2	3.82	12.1	0.0	14.1	100.0	200	0.50	23.2	UNDER
The Gore Road	MH1	Plug 1	0	162.63	0			0	18401	0	0	0	0	0	42.3	18401	0.0	61.8	2.69	166.1	0.0	208.4	100.0	600	0.30	336.1	1.19
Catchment 103	103	MH2	50.87	50.87	0		177.1	9008	9008	0	0	0	0	0	13.2	9008	30.2	30.2	3.00	90.7	0.0	103.9	100.0	450	0.50	201.5	1.27
Catchment 104	104	MH2	12.47	12.47	0		121.9	1520	1520	0	0	0	0	0	3.2	1520	5.1	5.1	3.68	18.8	0.0	22.0	100.0	250	0.50	42.0	0.86
The Gore Road	MH2	Plug 2	0	63.34	0			0	10528	0	0	0	0	0	16.5	10528	0.0	35.3	2.93	103.6	0.0	120.1	100.0	525	0.30	235.4	1.09
Catchment 105	105	MH3	37.22	37.22	0		122.1	4545	4545	0	0	0	0	0	9.7	4545	15.3	15.3	3.28	50.1	0.0	59.8	100.0	375	0.50	123.9	1.12
The Gore Road	MH3	Plug 3	0	37.22	0			0	4545	0	0	0	0	0	9.7	4545	0.0	15.3	3.28	50.1	0.0	59.8	100.0	375	0.30	96.0	0.87
Catchment 106	106	MH4	82.74	82.74	0		151.1	12499	12499	0	0	0	0	0	21.5	12499	42.0	42.0	2.86	119.9	0.0	141.4	100.0	450	0.50	201.5	1.27
Catchment 107	107	MH4	1.72	1.72	0		122.1	210	210	0	0	0	0	0	0.4	210	0.7	0.7	4.00	2.8	0.0	3.3	100.0	200	0.50	23.2	UNDER
The Gore Road	MH4	Plug 4	0	84.46	0			0	12709	0	0	0	0	0	22.0	12709	0.0	42.7	2.85	121.6	0.0	143.6	100.0	525	0.30	235.4	1.09

Sanitary Population Calculations

Wildfield Village
Project Number: 2630
Date: December 2024
Designer Initials: D.V.

Catchments draining to Outlet 1:

Catchment 101

Land Use	*Area (ha)*
Neighbourhood Area	143.21

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	121.73	27	4.2	13804
Towns	15%	21.48	50	3.4	3652
				Total Equivalent Population	**17456**

Land Use	*Area (ha)*
Collector Road	11.67

Catchment 102

Land Use	*Area (ha)*
Neighbourhood Area	7.75

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	6.59	27	4.2	747
Towns	15%	1.16	50	3.4	198
				Total Equivalent Population	**945**
Total Population to Outlet 1 =					**18401**

Catchments draining to Outlet 2:

Catchment 103

Land Use	*Area (ha)*
Neighbourhood Area	12.08

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	10.27	27	4.2	1164
Towns	15%	1.81	50	3.4	308
				Total Equivalent Population	**1472**

Land Use	*Area (ha)*
Urban Corridor	30.41

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	18.25	50	3.4	3102
Stacked Towns	30%	9.12	90	3.4	2792
Apartments	10%	3.04	225	2.4	1642
				Total Equivalent Population	**7536**

Land Use	*Area (ha)*
Collector Road	8.38

Catchment 104

Land Use	*Area (ha)*
Neighbourhood Area	12.47

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	10.5995	27	4.2	1202
Towns	15%	1.87	50	3.4	318
				Total Equivalent Population	**1520**
Total Population to Outlet 2 =					**10528**

Sanitary Population Calculations

Wildfield Village
Project Number: 2630
Date: December 2024
Designer Initials: D.V.

Catchments draining to Outlet 3:

Catchment 105

Land Use	*Area (ha)*
Neighbourhood Area	32.39

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	27.53	27	4.2	3122
Towns	15%	4.86	50	3.4	826
				Total Equivalent Population	**3948**

Land Use	*Area (ha)*
Collector Road	2.42

Land Use	*Area (ha)*
Urban Corridor	2.41

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	1.45	50	3.4	246
Stacked Towns	30%	0.72	90	3.4	221
Apartments	10%	0.24	225	2.4	130
				Total Equivalent Population	**597**
Total Population to Outlet 3 =					**4545**

Catchments draining to Outlet 4:

Catchment 106

Land Use	*Area (ha)*
Neighbourhood Area	57.11

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	48.54	27	4.2	5505
Towns	15%	8.57	50	3.4	1456
				Total Equivalent Population	**6961**

Land Use	*Area (ha)*
Neighbourhood Centre	6.66

Unit Type Mix	*Unit Mix*	*Area (ha)*	*P/ha*	*Units/ha*	*Population/Unit*	*Population*
Apartments	50%	3.33	-	250	2.4	1998
Retail	50%	3.33	50	-	0	167
					Total Equivalent Population	**2165**

Land Use	*Area (ha)*
Urban Corridor	13.61

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	8.17	50	3.4	1388
Stacked Towns	30%	4.08	90	3.4	1249
Apartments	10%	1.36	225	2.4	735
				Total Equivalent Population	**3373**

Land Use	*Area (ha)*
Collector Road	3.22

Land Use	*Area (ha)*
Environmental Feature	2.16

Catchment 107

Land Use	*Area (ha)*
Neighbourhood Area	1.72

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	1.46	27	4.2	166
Towns	15%	0.26	50	3.4	44
				Total Equivalent Population	**210**
Total Population to Outlet 4 =					**12708**

Sanitary Population Calculations

Wildfield Village
Project Number: 2630
Date: December 2024
Designer Initials: D.V.

SUBJECT LANDS SUMMARY

Land Use	*Area (ha)*	*Population*
Neighbourhood Area	266.73	32512
Neighbourhood Centre	6.66	2165
Urban Corridor	46.43	11505
Total Area (ha)	**319.82**	**46182**

Land Use	*Area (ha)*	*Population*
Collector Road	25.69	0

Note: Land Use Population Densities per Population counts provided by Arutip in April 2024
Note: Sanitary Populations do not include park or school blocks to be conservative while not having up to date areas for the blocks.

Watermain Demand Calculations

Wildfield Village
Project Number: 2630
Date: December 2024
Designer Initials: D.V.

Block 1

Land Use	*Area (ha)*
Neighbourhood Area	13.71

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	11.65	27	4.2	1322
Towns	15%	2.06	50	3.4	350
Total Equivalent Population					**1671**
Total Population Block 1 =					**1671**

Block 2

Land Use	*Area (ha)*
Neighbourhood Area	15.03

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	12.78	27	4.2	1449
Towns	15%	2.25	50	3.4	383
Total Equivalent Population					**1832**
Total Population Block 2 =					**1832**

Block 3

Land Use	*Area (ha)*
Neighbourhood Area	16.00

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	13.60	27	4.2	1542
Towns	15%	2.40	50	3.4	408
Total Equivalent Population					**1950**
Total Population Block 3 =					**1950**

Block 4

Land Use	*Area (ha)*
Neighbourhood Area	16.85

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	14.32	27	4.2	1624
Towns	15%	2.53	50	3.4	430
Total Equivalent Population					**2054**
Total Population Block 4 =					**2054**

Block 5

Land Use	*Area (ha)*
Neighbourhood Area	9.48

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	8.06	27	4.2	914
Towns	15%	1.42	50	3.4	242
Total Equivalent Population					**1156**

Land Use	*Area (ha)*
Urban Corridor	5.39

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	3.23	50	3.4	550
Stacked Towns	30%	1.62	90	3.4	495
Apartments	10%	0.54	225	2.4	291
				Total Equivalent Population	**1336**
Total Population Block 5 =					**2491**

Watermain Demand Calculations

Wildfield Village
Project Number: 2630
Date: December 2024
Designer Initials: D.V.

Block 6

Land Use	*Area (ha)*
Neighbourhood Area	10.38

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	8.82	27	4.2	1001
Towns	15%	1.56	50	3.4	265
Total Equivalent Population					**1265**

Land Use	*Area (ha)*
Urban Corridor	4.67

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	2.80	50	3.4	476
Stacked Towns	30%	1.40	90	3.4	429
Apartments	10%	0.47	225	2.4	252
				Total Equivalent Population	**1157**
Total Population Block 6 =					**2422**

Block 7

Land Use	*Area (ha)*
Neighbourhood Area	10.43

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	8.87	27	4.2	1005
Towns	15%	1.56	50	3.4	266
Total Equivalent Population					**1271**

Land Use	*Area (ha)*
Urban Corridor	4.27

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	2.56	50	3.4	436
Stacked Towns	30%	1.28	90	3.4	392
Apartments	10%	0.43	225	2.4	231
				Total Equivalent Population	**1058**
Total Population Block 7 =					**2329**

Block 8

Land Use	*Area (ha)*
Neighbourhood Area	30.02

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	25.52	27	4.2	2894
Towns	15%	4.50	50	3.4	766
Total Equivalent Population					**3659**
Total Population Block 8 =					**3659**

Block 9

Land Use	*Area (ha)*
Neighbourhood Area	35.79

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	30.42	27	4.2	3450
Towns	15%	5.37	50	3.4	913
Total Equivalent Population					**4362**
Total Population Block 9 =					**4362**

Watermain Demand Calculations

Wildfield Village
Project Number: 2630
Date: December 2024
Designer Initials: D.V.

Block 10

Land Use	*Area (ha)*
Neighbourhood Area	8.50

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	7.23	27	4.2	819
Towns	15%	1.28	50	3.4	217
Total Equivalent Population					**1036**

Land Use	*Area (ha)*
Urban Corridor	7.67

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	4.60	50	3.4	782
Stacked Towns	30%	2.30	90	3.4	704
Apartments	10%	0.77	225	2.4	414
				Total Equivalent Population	**1901**
Total Population Block 10 =					**2937**

Block 11

Land Use	*Area (ha)*
Neighbourhood Area	10.07

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	8.56	27	4.2	971
Towns	15%	1.51	50	3.4	257
Total Equivalent Population					**1227**

Land Use	*Area (ha)*
Urban Corridor	5.13

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	3.08	50	3.4	523
Stacked Towns	30%	1.54	90	3.4	471
Apartments	10%	0.51	225	2.4	277
				Total Equivalent Population	**1271**
Total Population Block 11 =					**2499**

Block 12

Land Use	*Area (ha)*
Neighbourhood Area	11.42

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	9.71	27	4.2	1101
Towns	15%	1.71	50	3.4	291
Total Equivalent Population					**1392**

Land Use	*Area (ha)*
Urban Corridor	5.69

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	3.41	50	3.4	580
Stacked Towns	30%	1.71	90	3.4	522
Apartments	10%	0.57	225	2.4	307
				Total Equivalent Population	**1410**
Total Population Block 10 =					**2802**

Watermain Demand Calculations

Wildfield Village
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Date: December 2024
Designer Initials: D.V.

Block 13

Land Use	*Area (ha)*
Neighbourhood Area	14.86

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	12.63	27	4.2	1432
Towns	15%	2.23	50	3.4	379
Total Equivalent Population					**1811**

Land Use	*Area (ha)*
Urban Corridor	5.08

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	3.05	50	3.4	518
Stacked Towns	30%	1.52	90	3.4	466
Apartments	10%	0.51	225	2.4	274
				Total Equivalent Population	**1259**

Land Use	*Area (ha)*
Neighboorhood Centre	6.66

Unit Type Mix	*Unit Mix*	*Area (ha)*	*P/ha*	*Units/ha*	*Population/Unit*	*Population*
Apartments	50%	3.33	-	250	2.4	1998
Retail	50%	3.33	50	-	0	167
					Total Equivalent Population	**2165**
Total Population Block 13 =						**5235**

Block 14

Land Use	*Area (ha)*
Neighbourhood Area	18.71

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	15.90	27	4.2	1803
Towns	15%	2.81	50	3.4	477
Total Equivalent Population					**2281**

Land Use	*Area (ha)*
Urban Corridor	4.18

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	2.51	50	3.4	426
Stacked Towns	30%	1.25	90	3.4	384
Apartments	10%	0.42	225	2.4	226
				Total Equivalent Population	**1036**

Land Use	*Area (ha)*
Environmental Feature	1.64
Total Population Block 14 =	**3316**

Watermain Demand Calculations

Wildfield Village
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Date: December 2024
Designer Initials: D.V.

Block 15

Land Use	*Area (ha)*
Neighbourhood Area	23.54

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	20.01	27	4.2	2269
Towns	15%	3.53	50	3.4	600
Total Equivalent Population					**2869**

Land Use	*Area (ha)*
Urban Corridor	4.35

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Townhouses	60%	2.61	50	3.4	444
Stacked Towns	30%	1.31	90	3.4	399
Apartments	10%	0.44	225	2.4	235
				Total Equivalent Population	**1078**

Land Use	*Area (ha)*
Environmental Feature	0.52

Total Population Block 15 = 3947

Block 16

Land Use	*Area (ha)*
Neighbourhood Area	20.22

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	17.19	27	4.2	1949
Towns	15%	3.03	50	3.4	516
Total Equivalent Population					**2465**

Total Population Block 16 = 2465

Block 17

Land Use	*Area (ha)*
Neighbourhood Area	1.72

Unit Type Mix	*Unit Mix*	*Area (ha)*	*Units/ha*	*Population/Unit*	*Population*
Singles	85%	1.46	27	4.2	166
Towns	15%	0.26	50	3.4	44
Total Equivalent Population					**210**

Total Population Block 17 = 210

SUBJECT LANDS SUMMARY

Land Use	*Area (ha)*	*Population*
Neighbourhood Area	266.73	32512
Neighbourhood Centre	6.66	2165
Urban Corridor	46.43	11505
Total Area (ha)	**319.82**	**46182**

Note: Land Use Population Densities per Population counts provided by Arutip in April 2024
Note: Watermain Populations do not include park or school blocks to be conservative while not having up to date areas for the blocks.