

# FUNCTIONAL SERVICING REPORT

Milton Link

Project #: 24-0647

Prepared for: Tribal Development Management Services Inc. (doing business as  
"Matthews")

Date: June 17, 2026

Report Version: 01



June 17, 2026

Tribal Development Management Services Inc. (doing business as "Matthews")  
201-2700 Steeles Avenue West  
Toronto, Ontario L4K 3C8

Attention: Michelle Lamothe, Director of Construction

**SUBJECT: FUNCTIONAL SERVICING REPORT, MILTON LINK**

EnVision Consultants Ltd. is pleased to present the enclosed Functional Servicing Report for the above-noted development. This report provides the conceptual framework for water distribution, sanitary drainage and storm servicing for this development.

We thank you for utilizing EnVision for this assignment. If there are any questions regarding the enclosed report, please do not hesitate to contact us.

Yours sincerely,

Alex Williams, P.Eng.  
Director – Land Development  
awilliams@envisionconsultants.ca





## QUALITY MANAGEMENT

| ISSUE             | FIRST ISSUE                                                                         | REVISION 1 | REVISION 2 |
|-------------------|-------------------------------------------------------------------------------------|------------|------------|
| PROJECT NUMBER    | 24-0647                                                                             |            |            |
| PROJECT REFERENCE | Functional Servicing Report, Milton Link                                            |            |            |
| VERSION NO.       | 01                                                                                  |            |            |
| REMARKS           | FINAL                                                                               |            |            |
| PREPARED BY       | Dabi Abikoye, P.Eng.                                                                |            |            |
| SIGNATURE         |    |            |            |
| REVIEWED BY       | Alex Williams, P.Eng.                                                               |            |            |
| SIGNATURE         |  |            |            |
| DATE              | June 17, 2026                                                                       |            |            |

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## 1. EXECUTIVE SUMMARY

The Proponent, Tribal Development Management Services Inc. (doing business as "Matthews"), is advancing the development of lands located adjacent to the CN Logistics Hub in the Town of Milton. Official Plan and Zoning By-law Amendments are being pursued to designate the subject lands as Industrial Area to be included within the Sustainable Halton Plan (SHP) Urban Area Boundary. The Site will seek the entitlements associated with the Employment Zone, with site-specific provisions to support the intended development. The area comprises several parcels generally bounded by Britannia Road to the north, Highway 25 to the east, Burnhamthorpe Road West to the south, and Tremaine Road to the west, within the Town of Milton. EnVision Consultants Ltd. (EnVision) was retained by Tribal Development Management Services Inc. (doing business as "Matthews" (the 'Client') to conduct a functional servicing assessment in support of an Official Plan Amendment (OPA) application and Zoning By-law Amendment (ZBA) application for Milton Link (the 'Site').

The Site is located south of Britannia Road West, east of Tremaine Road, west of Bronte Road (Regional Road 25) and north of Burnhamthorpe Road in the Town of Milton. The Site has a gross area of 238.7 ha and primarily consists of vacant agricultural land and a few agricultural and single family residential buildings. Excluding environmental setbacks, the net area available for development is approximately 200.7 ha. The project proposes four (4) development phases consisting of 11 industrial warehouse buildings with a total Gross Floor Area (GFA) of 812,112 m<sup>2</sup> (8,741,501 ft<sup>2</sup>) with associated driveways, parking and landscape areas.

The scope of this review includes site water distribution, sanitary drainage and stormwater drainage for the proposed development. A Stormwater Management Report outlining the proposed quality and quantity controls for stormwater on this Site has been prepared by EnVision under separate cover. EnVision has reviewed the Conceptual Site Plan prepared by WW+P Architects & Planners Inc. dated June 17, 2026, background information provided by the Client, Town of Milton, Halton Region, Conservation Authority and other publicly available materials.

Based on the functional servicing review, EnVision presents the following findings.

- Water Supply:
  - Municipal watermain upgrades are required to service Phases 2, 3 and 4 of the development. 400mm watermains are proposed on First Line, Lower Base Line W and Tremaine Road which will connect to the existing 400mm watermain (Zone M4L) on Britannia Road W and a future 400mm watermain (Zone M4L) on Tremaine Road (Halton Region capital project 6657). Coordination with the Region is required to confirm the timing and potential alternative project delivery for capital project 6657;
  - Phase 1 will be serviced by an existing 750mm CPP transmission watermain (Zone M4L) on Britannia Road, Phases 2 and 3 will be serviced by a proposed 400mm watermain on First Line and Phase 4 will be serviced by a proposed 400mm watermain on Lower Base Line W;
  - There is expected to be sufficient water supply in the existing watermain network on Britannia Road to service each development phase. The Region's watermain infrastructure model will need to be updated to validate the available water supply, confirm the watermain sizing and



- arrangement to adequately service the full build-out of the area within which the proposed development is located.
- Sanitary Drainage:
    - Municipal sanitary sewer upgrades are required on First Line and Lower Base Line W to service Phases 2, 3 and 4 of the development. Halton Region capital project 6554, 6555 and 6556 which propose sanitary infrastructure on Tremaine Road and Lower Base Line W capture a portion of the municipal sanitary infrastructure required to service Phases 3 and 4 of the development. Coordination with the Region is required to confirm the timing and potential alternative project delivery for the capital projects;
    - Phase 1 of the development will be serviced by the existing 1200mm sanitary sewer on Britannia Road W. Phase 2 will be serviced by a proposed sanitary sewer system, ranging in size from 375mm to 525mm in diameter, on First Line which will discharge to the existing 1200mm sanitary sewer on Britannia Road W. Phase 3 will be serviced by a proposed 525mm on First Line which will discharge to the existing 2400mm sanitary sewer on Regional Road 25 via a proposed 750mm sanitary sewer on Lower Base Line W (Halton Region Capital Project 6554). Phase 4 will be serviced by a proposed 300mm sanitary sewer on Lower Base Line W which will discharge to the planned sanitary pump station on Tremaine Road (Halton Region Capital Project 6555) which ultimately discharges to the existing 2400mm sanitary sewer on Regional Road 25 via a twinned 300mm sanitary forcemain system (Halton Region Capital Project 6556) and a proposed 750mm sanitary sewer on Lower Base Line W (Halton Region Capital Project 6554);
    - There is sufficient capacity in the existing sanitary sewer system to accommodate flows from the development. The Region's sanitary infrastructure model will need to be updated to validate the available sanitary sewer system capacity.
  - Storm Servicing:
    - Each development phase is proposed to have separate storm servicing system(s) which will direct runoff to the respective stormwater management facilities. The storm servicing systems and stormwater management facilities will be designed to ensure that runoff from events up to and including the 100-year storm event will be captured, treated and attenuated on-site and released at a controlled rate within the allowable post-development limits to approved outlet locations in accordance with the Town's control requirements.
  - The municipal infrastructure sizing and arrangement required to adequately service the ultimate build-out for the area within which the proposed development is located will be required to be completed at a later design stage; and
  - The stormwater management requirements and constraints for the portions of the Bronte Creek and Sixteen Mile Creek watersheds within which the development is located will need to be confirmed.



## 2. INTRODUCTION

EnVision Consultants Ltd. (EnVision) was retained by Tribal Development Management Services Inc. (doing business as “Matthews” (the ‘Client’) to conduct a functional servicing assessment for Milton Link (the ‘Site’) located in the Town of Milton, Ontario. It is our understanding that this assessment has been requested in support of an Official Plan Amendment (OPA) application and Zoning By-law Amendment (ZBA) application for the property.

### 2.1. SITE DESCRIPTION

The Milton Link project is located south of Britannia Road West, east of Tremaine Road, west of Bronte Road (Regional Road 25) and north of Burnhamthorpe Road in the Town of Milton. The project is comprised of four (4) phases with a gross area of approximately 238.7 ha. Under existing conditions, the development primarily consist of undeveloped agricultural lands with associated farmhouses and agricultural buildings as well as a few residential buildings. Tributaries of Sixteen Mile Creek and Bronte Creek also run through portions of the development. Due to the environmental setbacks identified in the Concept Plan provided in [Appendix A](#), the net area available for development is approximately 200.7 ha. Refer to [Figure 1](#) for the Site Location Plan and [Figure 2](#) for the Pre-Development Plan.

Based on the conceptual site plan prepared by WW+P Architects & Planners Inc. dated June 17, 2026, the proposed potential project will consist of four (4) phased developments. The project is proposed to consist of 11 industrial warehouse buildings with associated driveways, parking and landscape areas. Refer to [Table 1](#) for a summary of the project statistics. Refer to [Figure 3](#) for an illustration of the Proposed Development Plan.

*Table 1: Project Breakdown*

| PHASE   | GROSS AREA (HA) | NET DEVELOPABLE AREA (HA) | BUILDING NAME  | GFA (SQ. M) |
|---------|-----------------|---------------------------|----------------|-------------|
| PHASE 1 | 73.9            | 54.6                      | Building ‘1.A’ | 55,164      |
|         |                 |                           | Building ‘1.B’ | 94,804      |
|         |                 |                           | Building ‘1.C’ | 94,804      |
| PHASE 2 | 62.8            | 50.7                      | Building ‘2.A’ | 68,646      |
|         |                 |                           | Building ‘2.B’ | 67,420      |
|         |                 |                           | Building ‘2.C’ | 45,764      |
| PHASE 3 | 77.0            | 71.5                      | Building ‘3.A’ | 71,711      |
|         |                 |                           | Building ‘3.B’ | 50,667      |
|         |                 |                           | Building ‘3.C’ | 111,590     |
|         |                 |                           | Building ‘3.D’ | 78,452      |
| PHASE 4 | 25.0            | 23.9                      | Building ‘4.A’ | 73,090      |

The development phases will be serviced by existing and proposed local municipal sewers and watermain within the adjoining municipal rights-of-way. Any existing service connections to the development phases within the municipal road allowance will be decommissioned by the municipality at the Owner's cost. The



proposed service connections will be extended within each development phase to the proposed buildings and will be coordinated with the building design team in later design stages (SPA, BPA).

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## 2.2. OBJECTIVES, SCOPE AND BACKGROUND MATERIALS

### 2.2.1. OBJECTIVES

The objectives of the Functional Servicing Report are to:

- Determine the site specific water, sanitary and storm servicing requirements to ensure that the development proposal is in conformance with Town of Milton and Halton Region guidelines;
- Establish the proposed water and sanitary demands from the development;
- Demonstrate the impact of the proposed development on the capacity of the existing infrastructure in the area and identify necessary improvements to municipal servicing infrastructure if required;
- Develop a water, sanitary and stormwater servicing strategy for the development; and
- Determine the grading approach for the development and identify grading constraints.

### 2.2.2. SCOPE

The scope of this Functional Servicing Report includes the following components:

- Water Distribution
- Sanitary Drainage
- Storm Servicing
- Site Grading

A Stormwater Management (SWM) Report outlining the proposed stormwater quality and quantity controls has been prepared under a separate cover by EnVision Consultants Ltd., dated June 17, 2026.

### 2.2.3. BACKGROUND MATERIALS

In preparing this report, EnVision used the following information to evaluate the servicing and grading for the Site:

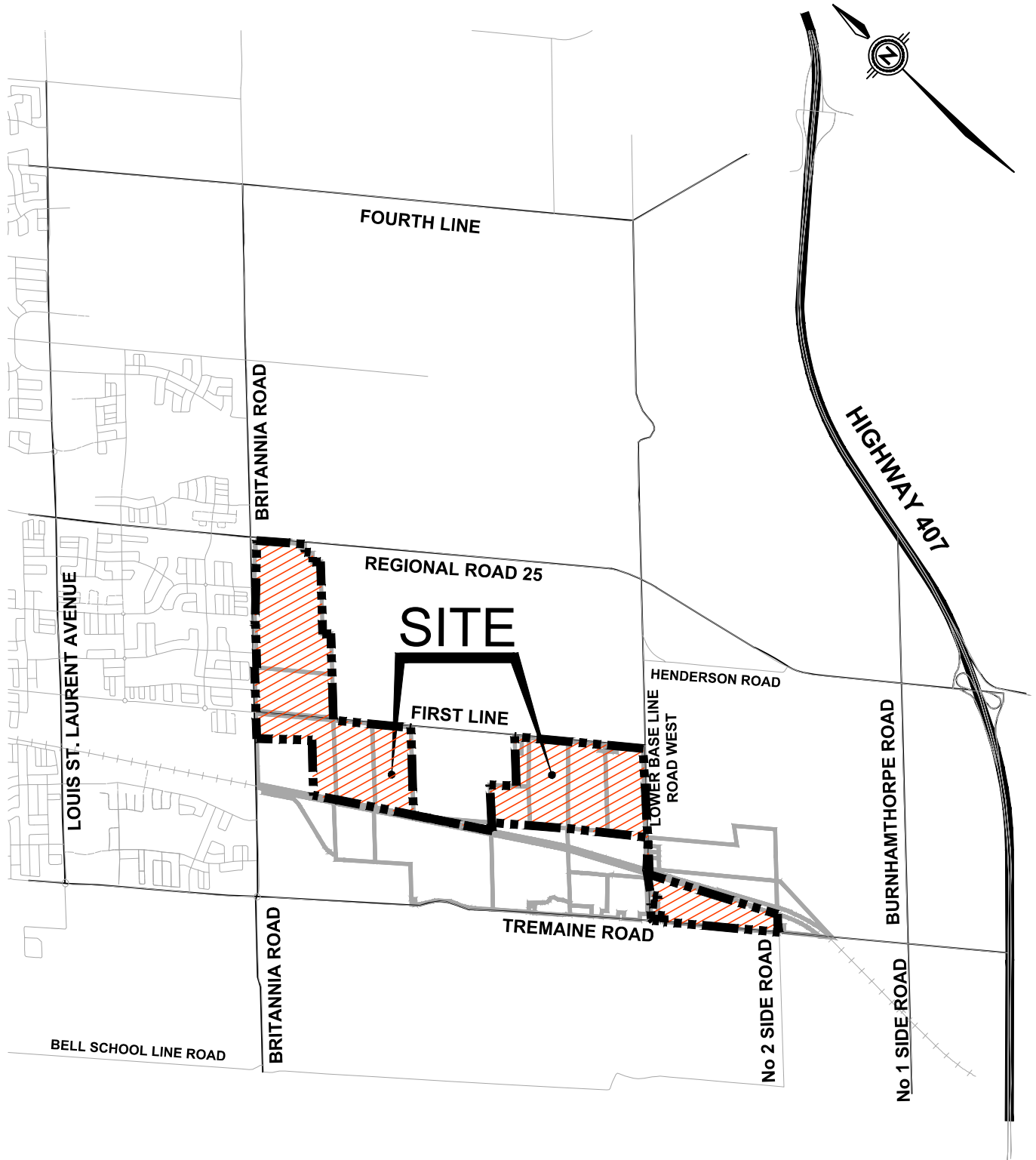
- Topographic and legal survey prepared by JD Barnes received on April 22, 2024;
- Conceptual Site Plan provided by WW+P Architects & Planners Inc. dated June 17, 2026;
- Town of Milton Engineering and Parks Standards Manual dated March 2019;
- Regional Municipality of Halton Water and Wastewater Linear Design Manual dated October 2019;
- Halton Region 2022 Development Charges Background Study for Water, Wastewater, Roads & General Services Development Charges dated December 15, 2021;
- Volume 1 Summary of Water and Wastewater Projects – Sustainable Halton Water and Wastewater Master Plan dated October 2011;
- Halton Region Budget and Business Plan Capital Report 2022;



- 
- Existing development applications for Main Sail Estates and Shadybrook & Stevenson Developments located adjacent to the potential development;
  - Boyne Neighbourhood Area Servicing Plan prepared by AMEC Environment & Infrastructure, a division of AMEC Americas Ltd dated June 2013;
  - Final Stormwater Management Design Report – CN Milton Logistics Hub prepared by AECOM dated November 2021; and
  - Halton Region Water and Sewer GIS Data.



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PLOTDATE: Jun 05, 2026 - 11:40am, AndreRocha



CLIENT

TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

TITLE

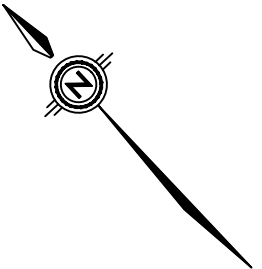
MILTON LINK

# LOCATION PLAN



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
| Checked | D.A.     | Drawn      | J.Z.    |
| Date    | JUN 2026 | Proj. No.  | 24-0647 |
| Scale   | NTS      | Figure No. | 1       |



# LEGEND

-  LIMIT OF PROPERTY
-  EX. CONTOUR

CLIENT  
TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

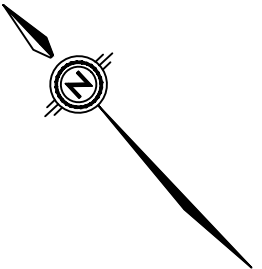
TITLE  
MILTON LINK

## PRE- DEVELOPMENT PLAN



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |           |            |         |
|---------|-----------|------------|---------|
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| Date    | JUN 2026  | Proj. No.  | 24-0647 |
| Scale   | 1: 16 000 | Figure No. | 2       |



## LEGEND



LIMIT OF PROPERTY

CLIENT  
TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

TITLE  
MILTON LINK

# PROPOSED DEVELOPMENT PLAN



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |           |            |         |
|---------|-----------|------------|---------|
| Checked | D.A.      | Drawn      | J.Z.    |
| Date    | JUN 2026  | Proj. No.  | 24-0647 |
| Scale   | 1: 16 000 | Figure No. | 3       |



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### 3. WATER SERVICING

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#### 3.1. EXISTING CONDITIONS

There is an existing 400mm CPP transmission watermain (Pressure Zone M4L) and a 750mm CPP transmission watermain (Pressure Zone M4L) on the north side of Britannia Road West as well as a 900mm CPP transmission watermain (Pressure Zone M4L) on the west side of Bronte Road in the vicinity of the development. There are no existing watermains on First Line, Tremaine Road or Lower Base Line W in the vicinity of the development.

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#### 3.2. MUNICIPAL WATER SERVICING UPGRADES

The Halton Region 2022 Development Charges Background Study for Water, Wastewater, Roads & General Services Development Charges (December 2021) identifies capital project 6657 which is proposed to extend a 400mm watermain (Pressure Zone M4L) south along Tremaine Road in the vicinity of the development. The project is scheduled to start in 2026 according to the Development Charges Background Study report (December 2021).

Municipal watermains are required adjacent to the development on First Line and Lower Base Line W in order for Phases 2, 3 and 4 to have direct connections to the municipal watermain network. A 400mm watermain is proposed to be installed on First Line, Lower Base Line W and Tremaine Road which will connect between the existing 400mm CPP watermain on Britannia Road W and the future 400mm watermain on Tremaine Road (capital project 6657). The timing and potential alternative project delivery for capital project 6657 is to be coordinated with the Region as part of the development application process. The watermain sizing and arrangement to adequately service the full build-out of the area within which the proposed development is located will be required in later design stages as part of the development application process. The Region's capital projects and the required municipal water servicing upgrades are shown on Drawings SS0 and SS5 – SS11 in [Appendix D](#).

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#### 3.3. WATER DEMANDS

##### 3.3.1. DOMESTIC WATER DEMAND

The proposed average day, maximum day and peak hour demands for the proposed buildings have been conservatively estimated based on the approximate development statistics provided by Tribal Development Management Services Inc. and the Halton Region design criteria. The results of the calculations are summarized in [Table 2](#). Refer to [Appendix B](#) for detailed domestic water demand calculations.



Table 2: Estimated Domestic Water Demand

| CRITERION                                         | PHASE 1                                       | PHASE 2                                      | PHASE 3                                        | PHASE 4                                      |
|---------------------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------------------------|----------------------------------------------|
| PROPOSED LAND USE                                 | Industrial                                    |                                              |                                                |                                              |
| GROSS SITE AREA                                   | 73.9 ha                                       | 62.8 ha                                      | 77.0 ha                                        | 25.0 ha                                      |
| NET DEVELOPABLE AREA                              | 54.6 ha                                       | 50.7 ha                                      | 71.5 ha                                        | 23.9 ha                                      |
| TOTAL GFA                                         | 244,772 m <sup>2</sup>                        | 181,830 m <sup>2</sup>                       | 312,420 m <sup>2</sup>                         | 73,090 m <sup>2</sup>                        |
| POPULATION DENSITY                                | 129 m <sup>2</sup> /employee                  |                                              |                                                |                                              |
| POPULATION                                        | 1,898 people                                  | 1,411 people                                 | 2,424 people                                   | 567 people                                   |
| AVERAGE DAY DEMAND RATE                           | 190 L/cap/day                                 |                                              |                                                |                                              |
| AVERAGE DAY DEMAND                                | 4.17 L/s                                      | 3.10 L/s                                     | 5.33 L/s                                       | 1.25 L/s                                     |
| MAX DAILY PEAKING FACTOR/PEAK HOUR PEAKING FACTOR | 1.9/3.0                                       |                                              |                                                |                                              |
| PEAK WATER DEMANDS FROM SITE                      | Maximum Day = 7.93 L/s, Peak Hour = 12.52 L/s | Maximum Day = 5.90 L/s, Peak Hour = 9.31 L/s | Maximum Day = 10.13 L/s, Peak Hour = 15.99 L/s | Maximum Day = 2.37 L/s, Peak Hour = 3.74 L/s |

### 3.3.2. FIRE FLOW DEMAND

The estimated fire flow for each development phase has been calculated using the recommendations of the 2020 Fire Underwriters Survey. Given that there are multiple buildings proposed within each development phase, the fire flow demand for each phase will be based on the requirements for the largest building within each development phase. The fire flow calculation indicates that the recommended fire flow is 550 L/s (8,707 USGPM) for Phase 1, 467 L/s (7,388 USGPM) for Phase 2, 517 L/s (8,179 USGPM) for Phase 3 and 417 L/s (6,596 USGPM) for Phase 4. The fire flow calculations have been prepared with the assumption that the buildings will be classified as non-combustible construction, combustible hazard occupancy and will be equipped with supervised sprinkler systems. These calculations are included in **Appendix B**.

There are two (2) existing hydrants on Britannia Road W adjacent to the development. Hydrants will be provided on First Line and Lower Base Line W as part of the proposed municipal watermain infrastructure. Additionally, hydrants will be provided in front of each proposed building. The Siamese connections to the buildings will be located so that they are a maximum of 45m away from a hydrant or new hydrant(s) will be installed on the existing watermain(s) as needed.



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### 3.4. PROPOSED WATER SERVICING

Municipal watermain upgrades are proposed on First Line, Lower Base Line W and Tremaine Road as discussed in [Section 3.2](#) and will be sized to service the full build-out of the area within which the proposed development is located. The on-site watermain, service connections and municipal watermain within the municipal rights-of-way will be designed to Halton Region standards and the water services within the proposed building will be designed by the Site mechanical consultant to meet Ontario Plumbing Code Standards.

#### 3.4.1.1 Phase 1

Each building within Phase 1 will have one (1) fire water service connection and one (1) domestic water service connection per Halton Region standards. The fire water services shall be 300mm diameter and the domestic water services shall be 200mm diameter. Internal 200mm domestic watermain networks and internal 300mm fire watermain networks are proposed to connect Phase 1 of the development to the existing 750mm CPP transmission watermain on Britannia Road via two (2) H-type connections (one for Building '1.A' and one for Buildings '1.B' and '1.C').

The service connections to the municipal watermain are proposed to include valve and boxes at the property line. The water service locations into each building will be coordinated with the mechanical consultant during detailed design. A water meter and backflow preventer will be provided for each domestic service line while a detector assembly will be provided for each fire service line within the mechanical room. The mechanical room will need to be accessible to the Region and provide remote readout locations for the Region's use. Details of the room layout will be provided by the mechanical consultant at detailed design.

There are two (2) existing hydrants on Britannia Road W adjacent to Phase 1 of the development. Hydrants will be provided in front of each proposed building for fire protection. The Siamese connections to the buildings will be located so that they are a maximum of 45m away from a hydrant. Prior to construction, it shall be confirmed with tenants whether they prefer to have their buildings entirely looped with fire watermain and hydrants. The proposed water servicing and the hydrant locations are shown on Drawings SS0 and SS1 in [Appendix D](#).

#### 3.4.1.2 Phase 2

Each building within Phase 2 will have one (1) fire water service connection and one (1) domestic water service connection per Halton Region standards. The fire water services shall be 300mm diameter and the domestic water services shall be 200mm diameter. Internal 200mm domestic watermain networks and internal 300mm fire watermain networks are proposed to connect Phase 2 of the development to the proposed 400mm municipal watermain on First Line via three (3) H-type connections (one for Building '2.A', one for 'Building '2.B' and one for Building '2.C').

The service connections to the municipal watermain are proposed to include valve and boxes at the property line. The water service locations into each building will be coordinated with the mechanical consultant during detailed design. A water meter and backflow preventer will be provided for each domestic service line while a detector assembly will be provided for each fire service line within the





mechanical room. The mechanical room will need to be accessible to the Region and provide remote readout locations for the Region's use. Details of the room layout will be provided by the mechanical consultant at detailed design.

There are no existing municipal hydrants on Britannia Road W and First Line adjacent to Phase 2 of the development. Hydrants will be proposed along First Line as part of the required municipal water servicing upgrades. Hydrants will also be provided in front of each proposed building for fire protection. The Siamese connections to the buildings will be located so that they are a maximum of 45m away from a hydrant. Prior to construction, it shall be confirmed with tenants whether they prefer to have their buildings entirely looped with fire watermain and hydrants. The proposed water servicing and the hydrant locations are shown on Drawings SS0 and SS2 in **Appendix D**.

#### 3.4.1.3 Phase 3

Each building within Phase 3 will have one (1) fire water service connection and one (1) domestic water service connection per Halton Region standards. The fire water services shall be 300mm diameter and the domestic water services shall be 200mm diameter. Internal 200mm domestic watermain networks and internal 300mm fire watermain networks are proposed to connect Phase 3 of the development to the proposed 400mm municipal watermain on First Line via two (2) H-type connections (one for Buildings '3.A', '3.B' and '3.C' and one for Building '3.D').

The service connections to the municipal watermain are proposed to include valve and boxes at the property line. The water service locations into each building will be coordinated with the mechanical consultant during detailed design. A water meter and backflow preventer will be provided for each domestic service line while a detector assembly will be provided for each fire service line within the mechanical room. The mechanical room will need to be accessible to the Region and provide remote readout locations for the Region's use. Details of the room layout will be provided by the mechanical consultant at detailed design.

There are no existing municipal hydrants on First Line and Lower Base Line W adjacent to Phase 3 of the development. Hydrants will be proposed along First Line and Lower Base Line W as part of the required municipal water servicing upgrades. Hydrants will also be provided in front of each proposed building for fire protection. The Siamese connections to the buildings will be located so that they are a maximum of 45m away from a hydrant. Prior to construction, it shall be confirmed with tenants whether they prefer to have their buildings entirely looped with fire watermain and hydrants. The proposed water servicing and the hydrant locations are shown on Drawings SS0 and SS3 in **Appendix D**.

#### 3.4.1.4 Phase 4

Building '4.A' will have one (1) fire water service connection and one (1) domestic water service connection per Halton Region standards. The fire water service shall be 300mm diameter and the domestic water service shall be 200mm diameter. An internal 200mm domestic watermain network and an internal 300mm fire watermain network are proposed to connect Phase 4 of the development to the proposed 400mm municipal watermain on Lower Base Line W via one (1) H-type connection.

The service connection to the municipal watermain is proposed to include valve and boxes at the property line. The water service locations into the building will be coordinated with the mechanical consultant



during detailed design. A water meter and backflow preventer will be provided for each domestic service line while a detector assembly will be provided for each fire service line within the mechanical room. The mechanical room will need to be accessible to the Region and provide remote readout locations for the Region's use. Details of the room layout will be provided by the mechanical consultant at detailed design.

There are no existing municipal hydrants on Lower Base Line W and Tremaine Road adjacent to Phase 4 of the development. Hydrants will be proposed along Lower Base Line W and Tremaine Road as part of the required municipal water servicing upgrades. Hydrants will also be provided in front of each proposed building for fire protection. The Siamese connections to the buildings will be located so that they are a maximum of 45m away from a hydrant. Prior to construction, it shall be confirmed with tenants whether they prefer to have their buildings entirely looped with fire watermains and hydrants. The proposed water servicing and the hydrant locations are shown on Drawings SS0 and SS4 in **Appendix D**.

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### 3.5. HYDRANT FLOW TEST

The required fire flow demand for the proposed development was calculated to be 550 L/s (8,707 USGPM) for Phase 1, 467 L/s (7,388 USGPM) for Phase 2, 517 L/s (8,179 USGPM) for Phase 3 and 417 L/s (6,596 USGPM) for Phase 4 as defined by the Fire Underwriters Survey (FUS). The maximum day demand for the proposed development is 7.93 L/s for Phase 1, 5.90 L/s for Phase 2, 10.13 L/s for Phase 3 and 2.37 L/s for Phase 4. Therefore, the total maximum day plus fire flow demand is 557.93 L/s for Phase 1, 472.90 L/s for Phase 2, 527.13 L/s for Phase 3 and 419.37 L/s for Phase 4 of the proposed development. Refer to **Appendix B** for FUS fire flow and detailed domestic demand calculations.

A hydrant flow test was performed on the existing 750mm CPP transmission watermain on Britannia Road on July 11, 2024 by L&D Waterworks Inc. to determine the available water supply for fire protection. Detailed results of the hydrant flow test are included in **Appendix B**. The flow test on the existing 750mm watermain indicates that a flow of 826 L/s (13,095 USGPM) could be achieved while maintaining a water pressure of 20psi (140kPa). Therefore, the existing watermain network on Britannia Road is expected to have sufficient capacity to provide the required fire protection for each phase of the proposed development. The Region's watermain infrastructure model will need to be updated to validate the available water supply, confirm the watermain sizing and arrangement to adequately service the full build-out of the area within which the proposed development is located.





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## 4. SANITARY SERVICING

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### 4.1. EXISTING CONDITIONS

There are existing 450mm and 1200mm concrete sanitary sewers on the north side of Britannia Road W adjacent to the development. Additionally, there are concrete sanitary sewers ranging from 1500mm to 2400mm on the east side of Bronte Road as well as a 1350mm concrete sanitary sewer and a 900mm sanitary forcemain on the west side of Bronte Road in the vicinity of the development. There are no existing sanitary sewers on First Line, Tremaine Road or Lower Base Line W in the vicinity of the development.

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### 4.2. MUNICIPAL SANITARY SERVICING UPGRADES

The Halton Region 2022 Development Charges Background Study for Water, Wastewater, Roads & General Services Development Charges (December 2021) identifies the following capital projects in the vicinity of the development:

- Projects 6557 and 6559 which propose a 600mm sanitary sewer and 450mm sanitary sewer on Tremaine Road respectively. Both projects are scheduled to start in 2026.
- Projects 6555 and 6556 which propose a sanitary pump station on Tremaine Road and a twinned 300mm sanitary forcemain system from the proposed sanitary pump station in Tremaine Road to Lower Base Line W, approximately 650m west of First Line respectively. Both projects are scheduled to start in 2026.
- Project 6554 which proposes a 600mm sanitary sewer on Lower Base Line W, approximately 650m west of First Line and is scheduled to start in 2026.

A municipal sanitary sewer system is required on First Line in order for Phase 2 of the development to connect to the municipal sewer system. This sanitary sewer system will connect to the existing 1200mm sanitary sewer on Britannia Road W.

Municipal sanitary sewers are also required on First Line, Tremaine Road and Lower Base Line W to provide service connections for Phases 3 and 4 of the development. These sanitary sewers will ultimately convey and discharge flows to the 2400mm sanitary sewer on Bronte Road. As Halton Region capital projects 6554, 6555 and 6556 capture a portion of the required municipal sanitary infrastructure, coordination with the Region regarding timing and potential alternative project delivery is required.

The sanitary sewer sizing and arrangement to adequately service the full build-out of the area within which the proposed development is located will be required in later design stages as part of the development application process. The Region's capital projects and the required municipal water servicing upgrades are shown on Drawings SS0 and SS5 – SS11 in **Appendix D**.

## 4.3. SANITARY FLOWS

### 4.3.1. DESIGN PARAMETERS

To calculate the peak sanitary flows, the following Halton Region design criteria have been utilized:

- 185 L/cap/day average daily flow for ICI use;
- Industrial population equivalent: 129 m<sup>2</sup>/employee;
- Peaking Factor for residential use: Harmon Formula  $M = 1 + (14/\sqrt{(4 + P/1000)})$
- Inflow/Infiltration Allowance: 0.28 L/s/ha

An estimate of the pre- and post-development sanitary sewage flows has been calculated and is included in **Appendix C**. The results of the calculations are discussed in **Sections 4.3.2 and 4.3.3**.

### 4.3.2. EXISTING SEWAGE FLOWS

Under existing conditions, the development primarily consists of undeveloped agricultural lands with associated farmhouses and agricultural buildings as well as a few residential buildings. There are no municipal sanitary sewers adjacent to the sanitary generating portions of the development under existing conditions. Therefore, there is no sewage flow contribution from the development to the municipal sanitary sewer system in the pre-development conditions.

### 4.3.3. POST-DEVELOPMENT SEWAGE FLOW

An estimate of the post-development sanitary sewage flows from the development to the downstream sanitary sewer system has been conservatively estimated based on the development statistics provided by Tribal Development Management Services Inc. and has been calculated using the Halton Region Design Criteria. The results are summarized in **Table 3** below. Refer to **Appendix C** for detailed sanitary generation calculations.

*Table 3: Sanitary Generation Summary*

| CRITERION                                | PHASE 1                      | PHASE 2                | PHASE 3                | PHASE 4               |
|------------------------------------------|------------------------------|------------------------|------------------------|-----------------------|
| PROPOSED LAND USE                        | Industrial Buildings         |                        |                        |                       |
| GROSS AREA                               | 73.9 ha                      | 62.8 ha                | 77.0 ha                | 25.0 ha               |
| NET DEVELOPEMENT AREA                    | 54.6 ha                      | 50.7 ha                | 71.5 ha                | 23.9 ha               |
| GROUND FLOOR AREA                        | 244,772 m <sup>2</sup>       | 181,830 m <sup>2</sup> | 312,420 m <sup>2</sup> | 73,090 m <sup>2</sup> |
| EQUIVALENT INDUSTRIAL POPULATION DENSITY | 129 m <sup>2</sup> /employee |                        |                        |                       |
| POPULATION                               | 1,898 people                 | 1,411 people           | 2,424 people           | 567 people            |



| CRITERION                              | PHASE 1       | PHASE 2   | PHASE 3   | PHASE 4   |
|----------------------------------------|---------------|-----------|-----------|-----------|
| AVERAGE DAY DEMAND RATE                | 185 L/cap/day |           |           |           |
| AVERAGE SANITARY FLOW                  | 4.06 L/s      | 3.02 L/s  | 5.19 L/s  | 1.21L/s   |
| PEAKING FACTOR (HARMON FORMULA)        | 3.60          | 3.70      | 3.52      | 3.95      |
| PEAK SANITARY FLOW                     | 14.64 L/s     | 11.17 L/s | 18.27 L/s | 4.79 L/s  |
| INFILTRATION                           | 15.28 L/s     | 14.21 L/s | 20.02 L/s | 6.70 L/s  |
| TOTAL SANITARY FLOW FROM SITE          | 29.92 L/s     | 25.38 L/s | 38.29 L/s | 11.49 L/s |
| NET INCREASE IN FLOW TO SANITARY SEWER | 29.92 L/s     | 25.38 L/s | 38.29 L/s | 11.49 L/s |

The approximate peak sanitary flow to the existing sanitary sewer system from the development for the pre- and post-development conditions are 0 L/s and 105.08 L/s, respectively. Consequently, the increase in peak sanitary design flow resulting from the development to the sanitary sewer system is 105.08 L/s.

#### 4.4. SANITARY SERVICING

Municipal sanitary sewer upgrades are proposed on First Line and Lower Base Line W as discussed in [Section 4.2](#) and will be sized to service the full build-out of the area within which the proposed development is located. The on-site sanitary sewers, service connections and municipal sanitary sewers within the municipal rights-of-way will be designed to Region of Peel standards and the sanitary services within the proposed building will be designed by the Site mechanical consultant to meet Ontario Plumbing Code Standards.

##### 4.4.1. PHASE 1

Each building within Phase 1 of the development will have one (1) sanitary service connection. The connections shall be 200mm diameter in size. The building service connections will connect to internal 250mm sanitary sewer networks. Two (2) municipal sanitary connections (one for Building '1.A' and one for Buildings '1.B' and '1.C') are proposed to discharge flows from Phase 1 to the existing 1200mm sanitary sewer on Britannia Road W. As per Halton Region requirements, control manholes are proposed to be placed immediately inside the property line for the service connections. The proposed sanitary servicing layout is shown on Drawings SS0 and SS1 in [Appendix D](#).

##### 4.4.2. PHASE 2

Each building within Phase 2 of the development will have one (1) sanitary service connection. The connections shall be 200mm diameter in size. The building service connections will connect to internal



250mm sanitary sewer networks. Three (3) municipal sanitary connections (one for Building '2.A', one for Building '2.B' and one for Building '2.C') are proposed to discharge flows from Phase 2 to a proposed sanitary sewer system on First Line with pipe sizes ranging from 375mm to 525mm in diameter, which will convey flows to the existing 1200mm sanitary sewer on Britannia Road W. As per Halton Region requirements, control manholes are proposed to be placed immediately inside the property line for the service connections. The proposed sanitary servicing layout is shown on Drawings SS0 and SS2 in **Appendix D**.

#### 4.4.3. PHASE 3

Each building within Phase 3 of the development will have one (1) sanitary service connection. The connections shall be 200mm diameter in size. The building service connections will connect to internal 250mm sanitary sewer networks. Two (2) municipal sanitary connections (one for Buildings '3.A', '3.B' and '3.C' and one for Building '3.D') are proposed to discharge flows from Phase 3 to a proposed 525mm sanitary sewer on First Line which will convey flows to the existing 2400mm sanitary sewer on Regional Road 25 via a proposed 750mm sanitary sewer on Lower Base Line W (Halton Region Capital Project 6554). As per Halton Region requirements, control manholes are proposed to be placed immediately inside the property line for the service connections. The proposed sanitary servicing layout is shown on Drawings SS0 and SS3 in **Appendix D**.

#### 4.4.4. PHASE 4

Building '4.A' will have one (1) sanitary service connection. The connection shall be 200mm diameter in size. The building service connection will connect to an internal 250mm sanitary sewer network. One (1) municipal sanitary connection is proposed to discharge flows to a proposed 300mm sanitary sewer on Lower Base Line W which will convey flows to the proposed sanitary pump station on Tremaine Road (Halton Region Capital Project 6555) which will discharge flows to the proposed 750mm sanitary sewer on Lower Base Line (Halton Region Capital Project 6554) via a twinned 300mm sanitary forcemain system (Halton Region Capital Project 6556) which then ultimately conveys flows to the existing 2400mm sanitary sewer on Regional Road 25. As per Halton Region requirements, a control manhole is proposed to be placed immediately inside the property line for the service connection. The proposed sanitary servicing layout is shown on Drawings SS0 and SS4 in **Appendix D**.

### 4.5. DOWNSTREAM SEWER CAPACITY ASSESSMENT

Post-development downstream sanitary analyses up to the 2400mm trunk sanitary sewer on Regional Road 25 were prepared for the interim and ultimate conditions based on the Halton Region design criteria. GIS data for the downstream sewer network was obtained from the Region and was used to confirm the size, slope, length and depth of the existing sewers. The overall drainage areas of the sanitary sewer network were reviewed in detail to estimate the contributing sanitary flows. The interim condition considers sanitary flows from existing developments and the proposed Site while the ultimate condition considers future industrial land uses for the currently undeveloped areas south of Britannia Road and west of Regional Road 25 in addition to the sanitary flows from existing developments and the proposed Site.



The analysis considers a discharge rate of 225 L/s from the planned Tremaine Road sanitary pumping station (Halton Region Capital Project 6555) based on Halton Region Budget and Business Plan Capital Report 2022 and a discharge rate of 1000 L/s from the existing Britannia Road sanitary pumping station based on the Ministry of Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA) Number 1355-AT6MUJ. The analysis does not account for overflow from the Boyne sanitary pumping station. See [Appendix C](#) for the sanitary design sheets and drainage figures prepared in support of the analysis.

It should be noted that based on the capacity analysis, portions of the 600mm sanitary sewer system proposed as part of Halton Region capital project 6554 are required to be upsized to 750mm in order to accommodate flows from the anticipated ultimate conditions and conform to the Region's design criteria which identifies a maximum utilized capacity of eighty percent (80%) for sewers greater than 450mm diameter. The sizing and configuration of the sanitary sewer system to adequately service the full build-out of the area within which the proposed development is located will be required in later design stages as part of the development application process and should be coordinated with the Region.

The analysis demonstrates that the existing municipal sewer system will have adequate capacity to support the additional 105.08 L/s from the proposed development without surcharging or exceeding the capacity threshold identified in the Halton Region design criteria. The proposed municipal sanitary sewers will be sized to meet the capacity guidelines identified in the Region's design criteria. Therefore, it is concluded that there will be no negative impacts to the downstream municipal sanitary sewer system as a result of the development. The Region's sanitary infrastructure model will need to be updated to validate the available sanitary sewer system capacity.

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## 5. STORM SERVICING

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### 5.1. STORMWATER MANAGEMENT REPORT

A Stormwater Management (SWM) Report outlining the proposed stormwater quality and quantity controls has been prepared under a separate cover by EnVision Consultants Ltd., dated June 17, 2026. The SWM Report is in compliance with the Town of Milton requirements and Conservation Halton Stormwater Management Guidelines, and identifies the stormwater quantity and quality controls under which the development will operate. A Subwatershed Impact Study (SIS) or Master Plan is required to confirm the stormwater management requirements and constraints for the portions of the Bronte Creek and Sixteen Mile Creek watersheds within which the development is located. An SIS or Master Plan has not been completed for the development area and will be required in later design stages as part of the development application process.

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### 5.2. EXISTING CONDITIONS

#### 5.2.1. PHASE 1

Phase 1 of the development is situated on the boundary of the Sixteen Mile Creek watershed and the Bronte Creek watershed. Phase 1 is bisected by two tributary branches of Sixteen Mile Creek and also includes a central woodlot which is approximately 4.9 ha in size. Additionally, a tributary of Bronte Creek (also known as Indian Creek) traverses through the southwest corner of the development. Majority of the Phase 1 drains eastward to a tributary of Sixteen Mile Creek and the remainder of the Phase 1 drains westward to the Bronte watershed. There are currently no existing storm sewers in the vicinity of Phase 1 of the development.

#### 5.2.2. PHASE 2

Phase 2 of the development is tributary to the Bronte Creek watershed. Phase 2 generally drains southward towards a tributary of Bronte Creek. A tributary branch of Bronte Creek also runs through the northeast portion of the development phase and the development also includes a central woodlot approximately 4.3ha in size. There are currently no existing storm sewers in the vicinity of Phase 2 of the development.

#### 5.2.3. PHASE 3

Phase 3 of the development is tributary to the Bronte Creek watershed. There is an existing ditch located at the western limits of the development phase, which runs adjacent to the existing railway corridor and directs drainage southward to Lower Base Line W as well as an existing ditch on the north side of Lower Base Line W which drains westward towards the rail corridor. A portion of Phase 3 drains westward towards the existing ditch within the rail corridor and the remainder of Phase 3 drains southward towards the existing ditch on Lower Base Line W. There are currently no existing storm sewers in the vicinity of Phase 3 of the development.



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#### 5.2.4. PHASE 4

Phase 4 of the development is tributary to the Bronte Creek watershed. Phase 4 generally drains west towards an existing ditch which drains north along Tremaine Road towards Lower Base Line W. There are currently no existing storm sewers in the vicinity of Phase 4 of the development.

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### 5.3. PROPOSED MINOR STORM DRAINAGE SYSTEM

#### 5.3.1. PHASE 1

As mentioned in **Section 5.2.1**, Phase 1 of the development is bisected by tributaries of Sixteen Mile Creek and Indian Creek. Therefore, for the purposes of stormwater management, Phase 1 will have three (3) stormwater management systems ("Phase 1-1", "Phase 1-2" and "Phase 1-3"). All storm flows within the development will be captured and directed to the respective stormwater management systems which will capture, treat and discharge flows such that for all storm flows up to the regulatory storm event, the storm outflow will be reduced to the corresponding unit discharge rates established for the Sixteen Mile Creek and Indian Creek watersheds through the studies for the recent developments north of Britannia Road. The proposed storm servicing layout is shown on Drawings SS0 and SS1 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

##### 5.3.1.1 Sixteen Mile Tributary Realignment

As part of Phase 1, one of the existing Sixteen Mile Creek tributaries within the development (TSMC(1)7-3c) is proposed to be relocated to a 69m wide naturalized watercourse corridor along the eastern limit of the development. The realigned drainage feature will continue to flow south to East Sixteen Mile Creek. Refer to the Fluvial Geomorphology Report prepared by GEO Morphix Ltd. under separate cover for further information regarding the realignment of the drainage feature.

##### 5.3.1.2 Phase 1-1 System

The proposed stormwater management strategy for the portion of the development situated between the existing western Sixteen Mile Creek Tributary and the realigned eastern Sixteen Mile Creek tributary, i.e. Building '1.A' and its associated parking and landscape areas, includes the use of a stormwater management (SWM) pond to provide quantity, quality and erosion control for all storm events up to the Regional storm event. The SWM pond is proposed to control the post-development release rates to the Sixteen Mile Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria.

The majority of the at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM pond located at the south of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the stormwater management pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.



The SWM Pond is designed with a total storage volume of approximately 21,921 m<sup>3</sup> of which 5,190 m<sup>3</sup> is permanent pool and 16,731 m<sup>3</sup> is active storage. The SWM facility is proposed to outlet to the realigned eastern Sixteen Mile Creek tributary in the south portion of the Site. Outflow from the pond will be controlled to allowable release rates such that for all storm flows up to the Regional storm event, the storm outflow will be reduced to the corresponding unit discharge targets in accordance with the Town's quantity control criteria.

To meet water quality criteria, the proposed SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.

Low-Impact Development (LID) system(s) which will retain, infiltrate and/or re-use storm flows on-site will be proposed to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond. If required, a portion of rooftop runoff from Building '1.A' may be proposed to be directed to the existing woodlot within Phase 1 to meet feature-based water balance requirements.

Since all storm flows up to the 100-year and Regional storm events will be reduced to the corresponding unit discharge targets, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS1 in [Appendix D](#). For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.1.3 Phase 1-2 System

The proposed stormwater management strategy for the portion of the development located west of the existing western Sixteen Mile Creek Tributary, excluding the car parking areas west of Building '1.C', proposes the use of a SWM pond to provide quantity, quality and erosion control for all storm events up to the Regional storm event. The SWM pond is proposed to control the post-development release rates to the corresponding unit discharge targets for the 2-year to 100-year return period events, in accordance with the Town's quantity control criteria.

The majority of the at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM pond located at the south of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the stormwater management pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.

The SWM Pond is designed with a total storage volume of approximately 105,754 m<sup>3</sup> of which 33,439 m<sup>3</sup> is permanent pool and 72,315 m<sup>3</sup> is active storage. The SWM facility is proposed to outlet to the existing western Sixteen Mile Creek tributary in the southeast portion of the Site. Outflow from the pond will be controlled to allowable release rates such that for all storm flows up to the Regional storm event, the storm outflow will be reduced to the corresponding unit discharge targets in accordance with the Town's quantity control criteria.

To meet water quality criteria, the proposed SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.





LID systems will be proposed to retain, infiltrate and/or re-use storm flows on-site to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond.

Since all storm flows up to the 100-year and Regional storm events will be reduced to the corresponding unit discharge targets, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS1 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.1.4 Phase 1-3 System

The proposed stormwater management strategy for the car parking areas west of Building '1.C' includes the use of on-site controls to generally preserve the pre-development runoff volumes and peak flow rates from the site to Indian Creek. Given the significant reduction in size of the area that will be tributary to Indian Creek in Phase 1 under the post-development conditions, it is expected that the post-development peak flow rates and runoff volumes will be comparable to the pre-development conditions. Additional quantity control may be provided in the form of surface ponding on the parking lot surface and/or underground storage facilities if required.

LID systems will be proposed to retain, infiltrate and/or re-use storm flows on-site to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond. The LID systems are also proposed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria. Additional quality treatment may be provided by Oil-Grit separators if required.

Since all storm flows up to the 100-year storm and Regional storm events will be reduced to the pre-development levels, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS1 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.2. PHASE 2

Phase 2 of the development is bifurcated by a high pressure oil pipeline easement. Therefore, for the purposes of stormwater management, Phase 2 will have two (2) stormwater management systems ("Phase 2-1" and "Phase 2-2") which will function in series. The Phase 2-1 system will attenuate and discharge flows to the Phase 2-2 system resulting in one (1) ultimate discharge location from the Site to the existing storm drainage system. All storm flows within the development will be captured and directed to the respective stormwater management systems which will capture, treat and discharge flows such that for all storm flows up to the regulatory storm event, the storm outflow will be reduced to the corresponding pre-development levels. The proposed storm servicing layout is shown on Drawings SS0 and SS2 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

##### 5.3.2.1 Phase 2-1 System



The proposed stormwater management strategy for the portion of the development located north of the high pressure oil pipeline easement includes the use of an underground SWM storage tank to attenuate the post-development peak flow rates from the area in order to optimize the required conveyance capacity of the drainage swale which will be proposed to convey flows across the pipeline easement to the SWM pond proposed as part of the 'Phase 2-2' system discussed further in [Section 5.3.2.2](#). Outflow from the 'Phase 2-2' SWM pond will be controlled to allowable release rates such that for all storm flows up to the Regional storm event, the storm outflow will be reduced to the corresponding pre-development levels in accordance with the Town's quantity control criteria.

The majority of the Site's at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM tank located on the west side of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the 'Phase 2-2' SWM pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.

To meet water quality criteria, the proposed downstream 'Phase 2-2' SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.

LID system(s) which will retain, infiltrate and/or re-use storm flows on-site will be proposed to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM tank which will ultimately discharge to the 'Phase 2-2' SWM pond.

Since all storm flows up to the 100-year and Regional storm events will be reduced to the corresponding unit discharge targets, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS2 in [Appendix D](#). For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.2.2 Phase 2-2 System

A SWM pond is proposed to provide quantity, quality and erosion control for all storm events up to the Regional storm event for the portion of the development located south of the high pressure oil pipeline easement, i.e. Buildings '2.B' and '2.C' and their associated parking and landscape areas as well as the attenuated storm flows discharged from the 'Phase 2-1' tank as discussed in [Section 5.3.2.1](#). The SWM pond is proposed to control the post-development release rates to the Indian Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria.

The majority of the at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM pond located at the southwest portion of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the stormwater management pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm



event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.

The SWM Pond is designed with a total storage volume of approximately 105,540 m<sup>3</sup> of which 32,910 m<sup>3</sup> is permanent pool and 72,630 m<sup>3</sup> is active storage. The SWM facility is proposed to outlet to a new or reconstructed drainage swale on the east side of the adjacent CN railway corridor, which will drain south to the Indian Creek culvert beneath the CN railway tracks, identified as 'Culvert 3' in the Final Stormwater Management Design Report – CN Milton Logistics Hub prepared by AECOM dated November 2021, before joining the main branch of Indian Creek just upstream of the crossing under Tremaine Road.. Outflow from the pond will be controlled to allowable release rates such that for all storm flows up to the 100-year and Regional storm events, the storm outflow will be reduced to the corresponding pre-development levels in accordance with the Town's quantity control criteria.

To meet water quality criteria, the proposed SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.

Low-Impact Development (LID) systems which will retain, infiltrate and/or re-use storm flows on-site will be proposed to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond. A portion of rooftop runoff from Building '2.B' may be proposed to be directed to the existing woodlot located between Buildings '2.B' and '2.C' and a portion of rooftop runoff from Building '2.C' may be proposed to be directed to the existing drainage feature south of the development (tributary to Indian Creek) to meet feature-based water balance requirements.

Since all storm flows up to the 100-year and Regional storm event will be reduced to the pre-development levels, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS2 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

### 5.3.3. PHASE 3

For the purposes of stormwater management, Phase 3 will have two (2) stormwater management systems ("Phase 3-1" and "Phase 3-2"). All storm flows within the development will be captured and directed to the respective stormwater management systems which will capture, treat and discharge flows such that for all storm flows up to the regulatory storm event, the storm outflow will be reduced to the corresponding pre-development levels. The proposed storm servicing layout is shown on Drawings SS0 and SS3 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.3.1 Phase 3-1 System

A SWM pond is proposed to provide quantity, quality and erosion control for all storm events up to the Regional storm event for Building '3.C' and a portion of the vehicular parking areas west of Buildings '3.A', '3.B' and '3.C'. The SWM pond is proposed to control the post-development release rates to the Indian Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria.



The majority of the at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM pond located at the northwest portion of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the stormwater management pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.

The SWM Pond is designed with a total storage volume of approximately 62,123 m<sup>3</sup> of which 18,658 m<sup>3</sup> is permanent pool and 43,465 m<sup>3</sup> is active storage. The SWM facility is proposed to outlet to the SWM pond proposed as part of the 'Phase 3-2' system discussed further in [Section 5.3.3.2](#) via a drainage swale. Outflow from the pond will be controlled to allowable release rates such that for all storm flows up to the 100-year and Regional storm events, the storm outflow will be reduced to the corresponding pre-development levels in accordance with the Town's quantity control criteria.

To meet water quality criteria, the proposed SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.

Low-Impact Development (LID) systems which will retain, infiltrate and/or re-use storm flows on-site will be proposed to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond. A portion of rooftop runoff from Building '3.B' may be proposed to be directed to the existing woodlot located in the northeast portion of the Site to meet feature-based water balance requirements.

Since all storm flows up to the 100-year and Regional storm event will be reduced to the pre-development levels, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS3 in [Appendix D](#). For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.3.2 Phase 3-2 System

A SWM pond is proposed to provide quantity, quality and erosion control for all storm events up to the Regional storm event for the remainder of Phase 3 as well as the attenuated storm flows discharged from the 'Phase 3-1' SWM pond as discussed in [Section 5.3.3.1](#). The SWM pond is proposed to control the post-development release rates to the Indian Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria

The majority of the at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM pond located at the southwest portion of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the stormwater management pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.



The SWM Pond is designed with a total storage volume of approximately 122,096 m<sup>3</sup> of which 38,293 m<sup>3</sup> is permanent pool and 83,803 m<sup>3</sup> is active storage. The SWM facility is proposed to outlet to a new storm sewer or swale on the east side of the adjacent CN railway corridor, which will drain south to the Indian Creek culvert beneath the CN railway tracks, identified as 'Culvert 3' in the Final Stormwater Management Design Report – CN Milton Logistics Hub prepared by AECOM dated November 2021, before joining the main branch of Indian Creek just upstream of the crossing under Tremaine Road. Outflow from the pond will be controlled to allowable release rates such that for all storm flows up to the 100-year and Regional storm events, the storm outflow will be reduced to the corresponding pre-development levels in accordance with the Town's quantity control criteria.

To meet water quality criteria, the proposed SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.

Low-Impact Development (LID) systems which will retain, infiltrate and/or re-use storm flows on-site will be proposed to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond.

Runoff from portions of the perimeter parking areas along the east and south sides of the site are to be captured, treated and attenuated by a combination of LID systems and/or Oil-Grit Separator units prior to discharging to the existing road-side ditch system continuing east of First Line and south of Lower Base Line in order to preserve hydrologic inputs to the downstream watercourses.

Since all storm flows up to the 100-year and Regional storm event will be reduced to the pre-development levels, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS3 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.4. PHASE 4

Phase 4 of the development is bifurcated by a high pressure oil pipeline easement. Therefore, for the purposes of stormwater management, Phase 4 will have two (2) stormwater management systems ("Phase 4-1" and "Phase 4-2"). All storm flows within the development will be captured and directed to the respective stormwater management systems which will capture, treat and discharge flows such that for all storm flows up to the regulatory storm event, the storm outflow will be reduced to the corresponding pre-development levels. The proposed storm servicing layout is shown on Drawings SS0 and SS2 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

##### 5.3.4.1 Phase 4-1 System

The proposed stormwater management strategy for the portion of the development located north of the pipeline easement proposes the use of a SWM pond to provide quantity, quality and erosion control for all storm events up to the Regional storm event. The SWM pond is proposed to control the post-development release rates to the Indian Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria.



The majority of the at-grade runoff will be captured by proposed catchbasins and conveyed through storm sewers to the proposed SWM pond located at the north portion of the Site. The on-site minor storm drainage system is proposed to be designed to capture and convey the runoff from the 5-year event. For portions of the Site where the overland flow can not be directed to the stormwater management pond, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. This will ensure runoff from the controlled areas of the Site for all storm events up to and including the Regional storm event will be conveyed to the proposed stormwater management pond.

The SWM Pond is designed with a total storage volume of approximately 38,709 m<sup>3</sup> of which 8,649 m<sup>3</sup> is permanent pool and 30,060 m<sup>3</sup> is active storage. The SWM facility is proposed to outlet to the existing ditch on Lower Base Line W which flows west towards Tremaine Road. Outflow from the pond will be controlled to allowable release rates such that for all storm flows up to the 100-year and Regional storm events, the storm outflow will be reduced to the corresponding pre-development levels in accordance with the Town's quantity control criteria.

To meet water quality criteria, the proposed SWM pond is designed to treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.

Low-Impact Development (LID) systems which will retain, infiltrate and/or re-use storm flows on-site will be proposed to meet the water balance requirements. Excess flows from the LID systems will be conveyed to the proposed SWM pond.

Since all storm flows up to the 100-year and Regional storm event will be reduced to the pre-development levels, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS4 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

#### 5.3.4.2 Phase 4-2 System

The proposed stormwater management strategy for the parking area south of the pipeline easement proposes the combination of surface ponding and LID system(s), such as bioretention or infiltration systems to provide quantity and quality control for all storm events up to the 100-year storm event. The system is proposed to control the post-development release rates to the Indian Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria.

The majority of the Site's at-grade runoff will drain overland towards the LID systems which will provide above-ground and below-ground storage as well as surface ponding in the parking areas to control flows to the established unit rate targets. The area will be graded to ensure that runoff from all storm events up to and including the Regional storm event will be directed to the SWM facilities prior to discharging to the Tremaine Road ditch in accordance with the Town's quantity control criteria.

The proposed LID systems will retain, infiltrate and/or re-use storm flows on-site to meet the water balance requirements and treat storm flows to achieve an 80% TSS removal rate in accordance with the Town's quality control criteria.



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Since all storm flows up to the 100-year and Regional storm event will be reduced to the pre-development levels, the existing storm drainage system will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development. The proposed storm servicing layout is shown on Drawings SS0 and SS4 in **Appendix D**. For detailed storage and storm flow calculations, refer to the separate Stormwater Management Report prepared by EnVision.

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#### 5.4. PROPOSED MAJOR STORM DRAINAGE SYSTEM

The major storm system is a conveyance system for flows in excess of the minor system flows. Stormwater runoff from events up to and including the 100-year storm event will be contained on-site and released at a controlled rate within the allowable post-development limits to approved outlet locations. For major storm events exceeding the 100-year storm event and the capacity of the stormwater management systems, overland flow routes will be designed to direct excess flows to the approved discharge locations. For the development of the Site, the grading design for each phase is such that the surface (i.e. parking lots, drive aisles, walkways and landscaped areas) grades will direct surface drainage away from the buildings to the approved outlet points such as the stormwater management facilities through overland flow routes. The proposed grading of the development phases will ensure that existing grade elevations will be met along the property limits.



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## 6. SITE GRADING

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### 6.1. EXISTING TOPOGRAPHY

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#### 6.1.1. PHASE 1

Phase 1 is bisected by two tributary branches of Sixteen Mile Creek and also includes a central woodlot which is approximately 4.9 ha in size. The phase generally slopes from northwest to southeast under current conditions, with existing elevations ranging from 186.0 masl to 179.0 masl. The development phase is tributary to both the Sixteen Mile Creek and Bronte Creek watersheds. Majority of the site drains eastward to a tributary of Sixteen Mile Creek and the remainder of the site drains westward to the Bronte watershed.

#### 6.1.2. PHASE 2

Phase 2 of the development is tributary to the Bronte Creek watershed and gently slopes from north to south with existing elevations ranging from 185.5 masl to 180.5 masl. A tributary branch of Bronte Creek runs through the northeast portion of the development phase. Additionally, there is a woodlot in the south portion of the phase which occupies an approximate area of 4.3 ha.

#### 6.1.3. PHASE 3

Phase 3 is tributary to the Bronte Creek watershed and generally slopes from northeast to southwest with existing elevations that range from 185.5 masl to 179.0 masl. Two forested woodlots exist at the northern corner of the phase, occupying approximately 2.4 ha of area. Additionally, there is an existing ditch located at the southwestern limits of the site, which runs adjacent to the existing railway corridor and directs drainage southward to Lower Base Line.

#### 6.1.4. PHASE 4

Phase 4 of the development generally slopes from east to west towards an existing ditch which drains north along Tremaine Road towards Lower Base Line and is tributary to the Bronte Creek water shed. Existing elevations within the phase range from 180.0 masl to 172.0 masl.

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### 6.2. PROPOSED GRADING

The grading design of the proposed development phases will direct storm runoff to the respective on-site collection points so that the drainage is self-contained within each development phase. The grading design will comply with the Town of Milton standards and will be designed to achieve the following:

- Maintain existing perimeter grades so that there is no impact to adjacent properties;
- Promote drainage into the minor storm sewer systems and accommodate stormwater management requirements;
- Minimize disruption to existing municipal rights-of-way containing existing utilities and services;
- Provide adequate cover for underground services;





- Provide safe overland conveyance of flows exceeding the capacity of the minor storm sewer system through ponding;
- Satisfy the Town's requirement for maximum of 0.30m of stormwater ponding;
- Building floor levels will be set to avoid building / property damage during all design storms; and
- Optimize earthworks i.e. minimize the quantity of deficit materials to be imported.

The grading for the proposed development will, where possible, generally follow the existing grades to maintain drainage patterns and match boundary grades. Minor storm drainage will be conveyed towards catchbasins that convey flows to the internal storm sewer networks which then discharge to the respective stormwater management systems. Overland flow routes will be provided to direct major storm drainage away from proposed and existing structures to the approved outlet points.

Maximum 3:1 sloping will be proposed where feasible and retaining walls / toe walls will be proposed where required within the development phases to ensure that drainage is self-contained. Retaining walls above 1.0m in height will be designed by a Structural Engineer in accordance with Town standards.

The grading design for drive aisles and parking areas will be saw-toothed to maintain constant finished floor elevations for the warehouse buildings. The maximum ponding of the saw-tooth design is limited to 0.30m. Drive aisles will be designed with a minimum grade of 1.0%.

Coordination with the stormwater management consultant, landscape consultant and mechanical consultant will be necessary to ensure grading initiatives support stormwater management and landscape objectives and provided sufficient cover above the sewers within the development. The proposed grading strategy is shown on Figures 11a – 11d in [Appendix E](#).

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## 7. UTILITIES

In addition to the municipal services described in the previous sections, the following other utilities are available in the vicinity of the development:

- Hydro poles and power lines on Britannia Road W, First Line and Lower Base Line W and Tremaine Road;
- Telecommunications and communications infrastructure on Bronte Road, First Line and Lower Base Line W and Tremaine Road; and
- High pressure oil/petroleum pipelines on First Line, Tremaine Road and within Phases 2 and 4 of the development.

Since the development is located within an urban centre, the desired utility connections should be readily available for the end user and will be coordinated on a case-by-case basis in later design stages (SPA).

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## 8. CLOSING

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### 8.1. CONCLUSIONS AND RECOMMENDATIONS

Based on the information obtained through functional servicing assessment, EnVision presents the following conclusions and recommendations.

The sizing and arrangement of proposed municipal watermain and sanitary sewers required to adequately service the area within which the development is located will be required at later design stages as part of the development application process. Similarly, the stormwater management requirements and constraints for the portions of the Bronte Creek and Sixteen Mile Creek watersheds within which the development is located will also need to be confirmed.

#### 8.1.1. WATER SERVICING

Municipal watermain upgrades are required to service Phases 2, 3 and 4 of the development. 400mm watermain are proposed on First Line, Lower Base Line W and Tremaine Road which will connect to the existing 400mm watermain (Zone M4L) on Britannia Road W and a future 400mm watermain (Zone M4L) on Tremaine Road (Halton Region capital project 6657). The timing and potential alternative project delivery for capital project 6657 will be coordinated with the Region. No municipal watermain upgrades are required to service Phase 1 of the development.

Phase 1 will be serviced by an existing 750mm CPP transmission watermain (Zone M4L) on Britannia Road, Phases 2 and 3 will be serviced by a proposed 400mm watermain on First Line and Phase 4 will be serviced by a proposed 400mm watermain on Lower Base Line W.

The result of the hydrant flow test completed by L&D Waterworks Inc. in July 2024 indicates that there is expected to be sufficient water supply available in the existing watermain network on Britannia Road to service each development phase. The Region's watermain infrastructure model will need to be updated to validate the available water supply, confirm the watermain sizing and arrangement to adequately service the full build-out of the area within which the proposed development is located.

The proposed municipal watermain, water service connections within the municipal rights-of-way and the on-site watermain will be designed to Halton Region standards while the water services within the proposed buildings are to be designed by the Site mechanical consultant per OBC, and coordinated with EnVision.

#### 8.1.2. SANITARY SERVICING

Municipal sanitary sewer upgrades are proposed on First Line, Lower Base Line W and Tremaine Road to service Phases 2, 3 and 4 of the development. Halton Region capital project 6554 which proposes a sanitary sewer system on Lower Base Line W captures a portion of the municipal sanitary sewers required to service Phases 3 and 4 of the development. Halton Region capital projects 6555 and 6556 which propose a sanitary pumping station on Tremaine Road and a sanitary forcemain system on Tremaine Road and Lower Base Line W capture municipal sanitary infrastructure required to service Phase 4 of the development. Coordination with the Region is required to confirm the timing and potential alternative



project delivery for the capital projects. No upgrades of existing municipal sanitary infrastructure are required to service Phase 1 of the development.

Phase 1 will be serviced by the existing 1200mm sanitary sewer on Britannia Road W. Phase 2 will be serviced by a proposed sanitary sewer system ranging in size from 375mm to 525mm in diameter on First Line which will discharge to the existing 1200mm sanitary sewer on Britannia Road W. Phase 3 will be serviced by a proposed 525mm sanitary sewer on First Line which will discharge to the existing 2400mm sanitary sewer on Regional Road 25 via a proposed 750mm sanitary sewer on Lower Base Line W (Halton Region Capital Project 6554). Phase 4 will be serviced by a proposed 300mm sanitary sewer on Lower Base Line W and Tremaine Road which will convey flows to the planned sanitary pump station on Tremaine Road (Halton Region Capital Project 6555) which will discharge flows to the proposed 750mm sanitary sewer on Lower Base Line (Halton Region Capital Project 6554) via a twinned 300mm sanitary forcemain system (Halton Region Capital Project 6556) which then ultimately conveys flows to the existing 2400mm sanitary sewer on Regional Road 25.

The results of the downstream sanitary sewer capacity analysis prepared by EnVision demonstrates that the downstream sewer system will have capacity to accommodate from the proposed development. Therefore, there will be no negative impacts to the existing municipal sanitary system as a result of the development. The Region's sanitary infrastructure model will need to be updated to validate the available sanitary sewer system capacity.

The proposed municipal sanitary sewers, sanitary service connections within the municipal rights-of-way and the on-site sanitary sewers will be designed to Halton Region standards while the sanitary services within the proposed buildings are to be designed by the Site mechanical consultant per OBC, and coordinated with EnVision.

### *8.1.3. STORM SERVICING*

Storm runoff from each development phase will be captured by the minor storm drainage system and conveyed to the respective stormwater management facilities for quality, quantity and erosion control. The minor storm sewer systems will be sized for the 5-year storm event. The grading design for each phase is such that the surface grades will direct surface drainage away from the buildings to the approved outlet points such as the stormwater management facilities through overland flow routes. For areas where overland flow can not be directed to the respective stormwater management facilities, the minor storm drainage system will be designed to capture and convey the runoff for the 100-year storm event. Low-Impact Development (LID) systems will be proposed within each development phase to retain, infiltrate and/or re-use storm flows on-site to meet the water balance requirements. The stormwater management facilities will be designed to discharge flows at an allowable release rate such that the post-development flows will be controlled to the Sixteen Mile Creek and Indian Creek unit discharge targets for the 2-year to 100-year return period events and Regional storm events, in accordance with the Town's quantity control criteria.

Since all storm flows up to the Regional storm event will be reduced to the pre-development levels for each development phase, the existing storm drainage systems will not be adversely affected under the post-development condition and will have adequate capacity to support flows from the development.

The on-site storm sewers will be designed to Town of Milton standards while the storm services within the proposed buildings are to be designed by the Site mechanical consultant per OBC, and coordinated with EnVision.

A separate Stormwater Management Report has been prepared by EnVision under a separate cover to address requirements concerning stormwater management.

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## 8.2. CERTIFICATION AND SIGNATURES

Prepared by



Dabi Abikoye, P.Eng.  
Senior Project Engineer – Land Development  
dabikoye@envisionconsultants.ca

Reviewed by

Alex Williams, P.Eng.  
Manager – Land Development  
awilliams@envisionconsultants.ca

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## 8.3. QUALIFIER

EnVision prepared this report solely for the use of the intended recipient in accordance with the professional services agreement. In the event a contract has not been executed, the parties agree that the EnVision General Terms and Conditions, which were provided prior to the preparation of this report, shall govern their business relationship.

The report is intended to be used in its entirety. No excerpts may be taken to be representative of the findings in the assessment. The conclusions presented in this report are based on work performed by trained, professional and technical staff, in accordance with their reasonable interpretation of current and accepted engineering and scientific practices at the time the work was performed.

The content and opinions contained in the report are based on the observations and/or information available to EnVision at the time of preparation, using investigation techniques and engineering analysis methods consistent with those ordinarily exercised by EnVision and other engineering/scientific practitioners working under similar conditions, and subject to the same time, financial and physical constraints applicable to this project.

EnVision disclaims any obligation to update this report if, after the date of this report, any conditions appear to differ significantly from those presented in this report; however, EnVision reserves the right to amend or supplement this report based on additional information, documentation or evidence.



EnVision makes no other representations whatsoever concerning the legal significance of its findings. The intended recipient is solely responsible for the disclosure of any information contained in this report. If a third party makes use of, relies on, or makes decisions in accordance with this report, said third party is solely responsible for such use, reliance or decisions. EnVision does not accept responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken by said third party based on this report.

EnVision has provided services to the intended recipient in accordance with the professional services agreement between the parties and in a manner consistent with that degree of care, skill and diligence normally provided by members of the same profession performing the same or comparable services in respect of projects of a similar nature in similar circumstances. It is understood and agreed by EnVision and the recipient of this report that EnVision provides no warranty, express or implied, of any kind. Without limiting the generality of the foregoing, it is agreed and understood by EnVision and the recipient of this report that EnVision makes no representation or warranty whatsoever as to the sufficiency of its scope of work for the purpose sought by the recipient of this report.

In preparing this report, EnVision has relied in good faith on information provided by others, as noted in the report. EnVision has reasonably assumed that the information provided is correct and EnVision is not responsible for the accuracy or completeness of such information.

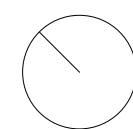
Unless otherwise agreed in writing by EnVision, the Report shall not be used to express or imply warranty as to the suitability of the site for a particular purpose. EnVision disclaims any responsibility for consequential financial effects on transactions or property values, or requirements for follow-up actions /or costs.

This limitations statement is considered an integral part of this report.



# **APPENDIX A:** *Concept Plan*





0 100 200 400





## **APPENDIX B:**

*Domestic Water Demand, Fire  
Flow Calculations & Hydrant  
Flow Test Results*

## Domestic Water Demand

### Halton Region

#### Proposed Flows

| Land Use             | Site Area<br>(ha) | Net<br>Developable<br>Area<br>(ha) | Gross Floor Area<br>(m2) | Population Density |             | Equivalent<br>Population<br>(persons) | Unitary<br>Demand Rate<br>(L/emp/day) | Average Daily<br>Demand<br>(L/s) | Max Day<br>Peaking<br>Factor | Max Day<br>Demand<br>(L/s) | Max Hour<br>Peaking<br>Factor | Max Hour<br>Demand<br>(L/s) |
|----------------------|-------------------|------------------------------------|--------------------------|--------------------|-------------|---------------------------------------|---------------------------------------|----------------------------------|------------------------------|----------------------------|-------------------------------|-----------------------------|
|                      |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| PHASE 1              |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| Building 1.A         | 73.92             | 54.56                              | 55164                    | 129                | m²/employee | 428                                   | 190                                   | 0.94                             | 1.9                          | 1.79                       | 3                             | 2.82                        |
| Building 1.B         |                   |                                    | 94804                    | 129                | m²/employee | 735                                   | 190                                   | 1.62                             | 1.9                          | 3.07                       | 3                             | 4.85                        |
| Building 1.C         |                   |                                    | 94804                    | 129                | m²/employee | 735                                   | 190                                   | 1.62                             | 1.9                          | 3.07                       | 3                             | 4.85                        |
| Phase 1 - Industrial | 73.92             | 54.56                              | 244,772                  | 129                | m²/employee | 1898                                  | 190                                   | 4.17                             | 1.9                          | 7.93                       | 3                             | 12.52                       |
|                      |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| PHASE 2              |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| Building 2.A         | 62.78             | 50.74                              | 68646                    | 129                | m²/employee | 533                                   | 190                                   | 1.17                             | 1.9                          | 2.23                       | 3                             | 3.52                        |
| Building 2.B         |                   |                                    | 67420                    | 129                | m²/employee | 523                                   | 190                                   | 1.15                             | 1.9                          | 2.19                       | 3                             | 3.45                        |
| Building 2.C         |                   |                                    | 45764                    | 129                | m²/employee | 355                                   | 190                                   | 0.78                             | 1.9                          | 1.48                       | 3                             | 2.34                        |
| Phase 2 - Industrial | 62.78             | 50.74                              | 181,830                  | 129                | m²/employee | 1411                                  | 190                                   | 3.10                             | 1.9                          | 5.90                       | 3                             | 9.31                        |
|                      |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| PHASE 3              |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| Building 3.A         | 77.03             | 71.5                               | 71711                    | 129                | m²/employee | 556                                   | 190                                   | 1.22                             | 1.9                          | 2.32                       | 3                             | 3.67                        |
| Building 3.B         |                   |                                    | 50667                    | 129                | m²/employee | 393                                   | 190                                   | 0.86                             | 1.9                          | 1.64                       | 3                             | 2.59                        |
| Building 3.C         |                   |                                    | 111590                   | 129                | m²/employee | 866                                   | 190                                   | 1.90                             | 1.9                          | 3.62                       | 3                             | 5.71                        |
| Building 3.D         |                   |                                    | 78452                    | 129                | m²/employee | 609                                   | 190                                   | 1.34                             | 1.9                          | 2.54                       | 3                             | 4.02                        |
| Phase 3 - Industrial | 77.03             | 71.50                              | 312,420                  | 129                | m²/employee | 2424                                  | 190                                   | 5.33                             | 1.9                          | 10.13                      | 3                             | 15.99                       |
|                      |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| PHASE 4              |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| Building 4.A         | 25.01             | 23.92                              | 73090                    | 129                | m²/employee | 567                                   | 190                                   | 1.25                             | 1.9                          | 2.37                       | 3                             | 3.74                        |
| Phase 4 - Industrial | 25.01             | 23.92                              | 73,090                   | 129                | m²/employee | 567                                   | 190                                   | 1.25                             | 1.9                          | 2.37                       | 3                             | 3.74                        |
|                      |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |
| Total All Phases     | 238.74            | 200.72                             | 812,112                  | 129                | m²/employee | 6,300                                 | 190                                   | 13.85                            | 1.9                          | 26.32                      | 3                             | 41.56                       |
|                      |                   |                                    |                          |                    |             |                                       |                                       |                                  |                              |                            |                               |                             |

Notes:

1. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.
2. Population densities and unitary demand rates are based on the guidelines found in the Regional Municipality of Halton Water and Wastewater Linear Design Manual, dated October 2019.
3. Max day and max hour peaking factors per Region standards.

## Fire Flow Demand - Building 1.A

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 55164 + 0.25(0 + 0)

= 55164 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{55164}$

= 41337 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 100 m

East exposure distance = 100 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 0%

Total RFF Adjustment = -50%

= -0.5 x 41337 Lpm

= -20669 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 20669 Lpm

≈ 21000 Lpm (rounded to the nearest 1000 Lpm)

= 5541 US GPM

= 350 L/s

#### Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 1.B

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 94804 + 0.25(0 + 0)

= 94804 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{94804}$

= 54191 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 28 m

East exposure distance = 100 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 10%

Total RFF Adjustment = -40%

= -0.4 x 54191 Lpm

= -21676 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 32515 Lpm

≈ 33000 Lpm (rounded to the nearest 1000 Lpm)

= 8707 US GPM

= 550 L/s

#### Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand Building 1.C

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 94804 + 0.25(0 + 0)

= 94804 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{94804}$

= 54191 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 28 m

South exposure distance = 100 m

East exposure distance = 100 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 10%

Total RFF Adjustment = -40%

= -0.4 x 54191 Lpm

= -21676 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 32515 Lpm

≈ 33000 Lpm (rounded to the nearest 1000 Lpm)

= 8707 US GPM

= 550 L/s

#### Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 2.A

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 71021 + 0.25(0 + 0)

= 71021 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{71021}$

= 46904 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 100 m

East exposure distance = 28 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 10%

Total RFF Adjustment = -40%

= -0.4 x 46904 Lpm

= -18762 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 28142 Lpm

≈ 28000 Lpm (rounded to the nearest 1000 Lpm)

= 7388 US GPM

= 466.67 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 2.B

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 59841 + 0.25(0 + 0)

= 59841 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{59841}$

= 43054 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 100 m

East exposure distance = 100 m

West exposure distance = 28 m

RFF Adjustment for Building Exposure = 10%

Total RFF Adjustment = -40%

= -0.4 x 43054 Lpm

= -17222 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 25832 Lpm

≈ 26000 Lpm (rounded to the nearest 1000 Lpm)

= 6860 US GPM

= 433.33 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.



## Fire Flow Demand - Building 2.C

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 45816 + 0.25(0 + 0)

= 45816 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{45816}$

= 37672 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 100 m

East exposure distance = 100 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 0%

Total RFF Adjustment = -50%

= -0.5 x 37672 Lpm

= -18836 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 18836 Lpm

≈ 19000 Lpm (rounded to the nearest 1000 Lpm)

= 5013 US GPM

= 316.67 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 3.A

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 71711 + 0.25(0 + 0)

= 71711 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{71711}$

= 47131 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 20 m

East exposure distance = 42 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 15%

Total RFF Adjustment = -35%

= -0.35 x 47131 Lpm

= -16496 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 30635 Lpm

≈ 31000 Lpm (rounded to the nearest 1000 Lpm)

= 8179 US GPM

= 516.67 L/s

#### Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 3.B

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 50667 + 0.25(0 + 0)

= 50667 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{50667}$

= 39616 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 20 m

South exposure distance = 40 m

East exposure distance = 42 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 15%

Total RFF Adjustment = -35%

= -0.35 x 39616 Lpm

= -13866 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 25750 Lpm

≈ 26000 Lpm (rounded to the nearest 1000 Lpm)

= 6860 US GPM

= 433.33 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 3.C

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 111590 + 0.25(0 + 0)

= 111590 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{111590}$

= 58793 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 40 m

South exposure distance = 100 m

East exposure distance = 42 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 0%

Total RFF Adjustment = -50%

= -0.5 x 58793 Lpm

= -29397 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 29397 Lpm

≈ 29000 Lpm (rounded to the nearest 1000 Lpm)

= 7652 US GPM

= 483.33 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 3.D

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 80795 + 0.25(0 + 0)

= 80795 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{80795}$

= 50027 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 100 m

East exposure distance = 100 m

West exposure distance = 42 m

RFF Adjustment for Building Exposure = 0%

Total RFF Adjustment = -50%

= -0.5 x 50027 Lpm

= -25014 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 25014 Lpm

≈ 25000 Lpm (rounded to the nearest 1000 Lpm)

= 6596 US GPM

= 416.67 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

## Fire Flow Demand - Building 4.A

Halton Region

2026-06-05  
Designed: J.Z.  
Checked: D.A.

$$RFF = 220C\sqrt{A}$$

where RFF = Required Fire Flow (Lpm)

C = Construction Coefficient

A = Total Effective Floor Area (m<sup>2</sup>)

### Section A - Building Construction Type

Construction Type = Type II Noncombustible Construction

Therefore Construction Coefficient, C = 0.8

### Section B - Total Effective Floor Area

For structures with a Construction Coefficient value below 1.0 and protected vertical openings;

A = Total Effective Floor Area

= Largest Floor Area + 25% of Adjoining Floor Areas

= 80795 + 0.25(0 + 0)

= 80795 m<sup>2</sup>

### Section C - Building Height in Storeys

1 storey

### Section D - Base Required Fire Flow

RFF = Required Fire Flow

= 220 x C x  $\sqrt{A}$

= 220 x 0.8 x  $\sqrt{80795}$

= 50027 Lpm

### Section E - Additions and Reductions to Required Fire Flow

Building Contents = Combustible

RFF Adjustment for Building Contents = 0%

Sprinkler System = Automatic Sprinkler System per NFPA 13

RFF Adjustment for Sprinkler System = -50%

North exposure distance = 100 m

South exposure distance = 100 m

East exposure distance = 100 m

West exposure distance = 100 m

RFF Adjustment for Building Exposure = 0%

Total RFF Adjustment = -50%

= -0.5 x 50027 Lpm

= -25014 Lpm

### Section F - Required Fire Flow Calculation

RFF = Base RFF + Total RFF Adjustments

= 25014 Lpm

≈ 25000 Lpm (rounded to the nearest 1000 Lpm)

= 6596 US GPM

= 416.67 L/s

Notes:

1. Fire Flow Calculations per Water Supply for Public Fire Protection, 2020 by Fire Underwriters Survey.
2. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.

# Hydrant Flow Test Report

SITE NAME: \_\_\_\_\_  
SITE ADDRESS / MUNICIPALITY: 5761 First Line Milton, ON  
TEST HYDRANT LOCATION : 1st Fire Hydrant West of Regional Road 25 on Britannia Road (Municipal ID: H191521 )  
BASE HYDRANT LOCATION: 1st Fire Hydrant East of Regional Road 25 on Britannia Road (Municipal ID: H191520 )  
TEST BY: Luzia Wood

TEST DATE:  
July 11 2024

TEST TIME:  
12:43PM

## TEST DATA

FLOW HYDRANT Pipe Diam. (in / mm) 750mm CPP

|                        | PITOT 1 | PITOT 2 |
|------------------------|---------|---------|
| SIZE OPENING (inches): | 2.5     | 2.5     |
| COEFFICIENT (note 1):  | 0.90    | 0.90    |
| PITOT READING (psi):   | 66      | 45 / 45 |
| FLOW (usgpm):          | 1363    | 2251    |

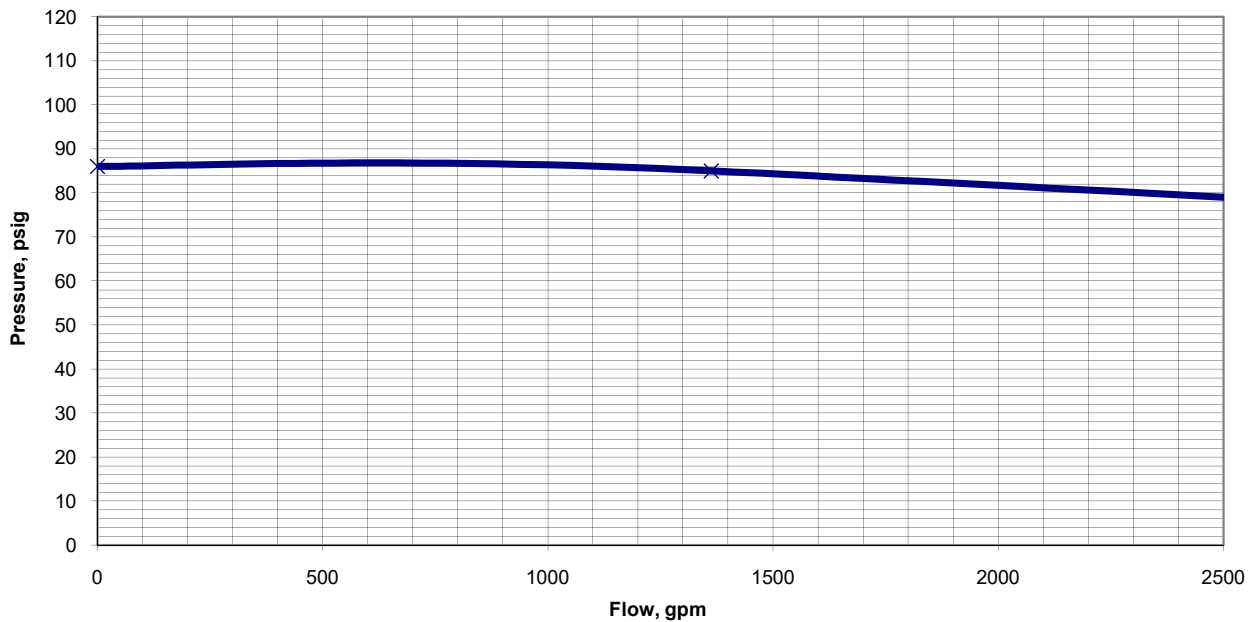
THEORETICAL FLOW @ 20 PSI 13095

BASE HYDRANT Pipe Diam. (in / mm) Unknown

STATIC READING (psi): 86 RESIDUAL 1 (psi): 85 RESIDUAL 2 (psi): 83

REMARKS: \_\_\_\_\_

**NOTE 1:** Conversion factor of .90 used for flow calculation based on rounded and flush internal nozzle configuration. No appreciable difference in pipe invert between flow and base hydrants.



*L & D Waterworks Inc.*

491 Port Maitland Rd  
Dunnville, ON N1A 2W6  
Ph: 289.684.6747



*L & D Waterworks Inc.*

491 Port Maitland Rd  
Dunnville, ON N1A 2W6  
Ph: 289.684.6747  
Email: ldwaterworks2005@gmail.com



**To: EnVision Consultants Ltd.**

L & D Waterworks has recently completed fire hydrant flow test for 5761 First Line Milton, On. Hydrant flow test was completed on the existing 750mm watermain on Britannia Road near the intersection of Britannia Road and Regional Road 25. We define the Test Hydrant as the one being flowed, and the Base Hydrant as the one where static and residual pressures are recorded. Wherever possible, we inspect the secondary valve for the Test Hydrant to make sure it is in the fully open position. Likewise, we count the number of turns needed to open the Test Hydrant to make sure it is opening completely. The secondary valve for the Test Hydrant on Britannia Road, was fully open at the time of the test. Testing was completed in accordance with NFPA 291 guidelines. There were no irregularities to report.

Your truly,

A handwritten signature in blue ink, appearing to read 'Arbeal', located below the text 'Your truly,'.

L&D Waterworks Inc.





## **APPENDIX C:**

*Sanitary Demand Calculations  
& Sanitary Design Sheet*

## Sanitary Flow Generation

Halton Region

### Proposed Flows

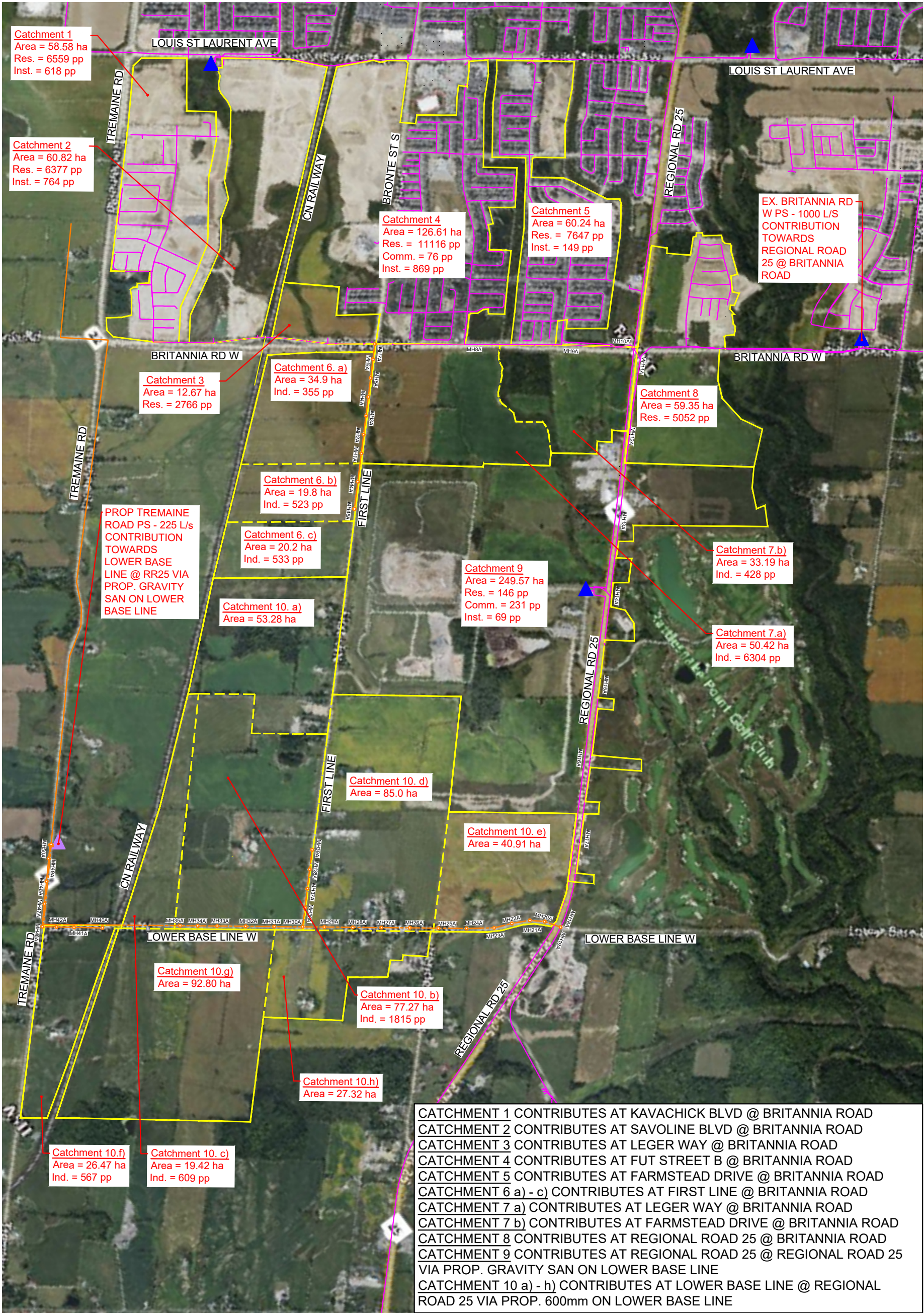
| Land Use                     | Site Area<br>(ha) | Net<br>Developable<br>Area<br>(ha) | Gross Floor Area<br>(m2) | Population Density | Equivalent<br>Population<br>(persons) | Unitary Flow<br>Rate<br>(L/emp/day) | Average<br>Daily Flow<br>(L/s) | Peaking<br>Factor | Peak Flow<br>(L/s) | I&I<br>Allowance<br>(L/s) | Total Design<br>Flow<br>(L/s) |       |
|------------------------------|-------------------|------------------------------------|--------------------------|--------------------|---------------------------------------|-------------------------------------|--------------------------------|-------------------|--------------------|---------------------------|-------------------------------|-------|
|                              |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| PHASE 1                      |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| Building 1.A                 | 73.92             | 54.56                              | 55164                    | 129                | m <sup>2</sup> /employee              | 428                                 | 185                            | 0.92              | 4.01               | 3.67                      | 15.28                         | 18.95 |
| Building 1.B                 |                   |                                    | 94804                    | 129                | m <sup>2</sup> /employee              | 735                                 | 185                            | 1.57              | 3.88               | 6.11                      | 0.00                          | 6.11  |
| Building 1.C                 |                   |                                    | 94804                    | 129                | m <sup>2</sup> /employee              | 735                                 | 185                            | 1.57              | 3.88               | 6.11                      | 0.00                          | 6.11  |
| Total - Phase 1 - Industrial | 73.92             | 54.56                              | 244,772                  | 129                | m <sup>2</sup> /employee              | 1898                                | 185                            | 4.06              | 3.60               | 14.64                     | 15.28                         | 29.92 |
|                              |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| PHASE 2                      |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| Building 2.A                 | 62.78             | 50.74                              | 68646                    | 129                | m <sup>2</sup> /employee              | 533                                 | 185                            | 1.14              | 3.96               | 4.52                      | 14.21                         | 18.73 |
| Building 2.B                 |                   |                                    | 67420                    | 129                | m <sup>2</sup> /employee              | 523                                 | 185                            | 1.12              | 3.96               | 4.44                      | 0.00                          | 4.44  |
| Building 2.C                 |                   |                                    | 45764                    | 129                | m <sup>2</sup> /employee              | 355                                 | 185                            | 0.76              | 4.05               | 3.08                      | 0.00                          | 3.08  |
| Phase 2 - Industrial         | 62.78             | 50.74                              | 181,830                  | 129                | m <sup>2</sup> /employee              | 1411                                | 185                            | 3.02              | 3.70               | 11.17                     | 14.21                         | 25.38 |
|                              |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| PHASE 3                      |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| Building 3.A                 | 77.03             | 71.5                               | 71711                    | 129                | m <sup>2</sup> /employee              | 556                                 | 185                            | 1.19              | 3.95               | 4.70                      | 20.02                         | 24.72 |
| Building 3.B                 |                   |                                    | 50667                    | 129                | m <sup>2</sup> /employee              | 393                                 | 185                            | 0.84              | 4.03               | 3.39                      | 0.00                          | 3.39  |
| Building 3.C                 |                   |                                    | 111590                   | 129                | m <sup>2</sup> /employee              | 866                                 | 185                            | 1.85              | 3.84               | 7.12                      | 0.00                          | 7.12  |
| Building 3.D                 |                   |                                    | 78452                    | 129                | m <sup>2</sup> /employee              | 609                                 | 185                            | 1.30              | 3.93               | 5.12                      | 0.00                          | 5.12  |
| Phase 3 - Industrial         | 77.03             | 71.50                              | 312,420                  | 129                | m <sup>2</sup> /employee              | 2424                                | 185                            | 5.19              | 3.52               | 18.27                     | 20.02                         | 38.29 |
|                              |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| PHASE 4                      |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| Building 4.A                 | 25.01             | 23.92                              | 73090                    | 129                | m <sup>2</sup> /employee              | 567                                 | 185                            | 1.21              | 3.95               | 4.79                      | 6.70                          | 11.49 |
| Phase 4 - Industrial         | 25.01             | 23.92                              | 73,090                   | 129                | m <sup>2</sup> /employee              | 567                                 | 185                            | 1.21              | 3.95               | 4.79                      | 6.70                          | 11.49 |
|                              |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |
| Total All Phases             | 238.74            | 200.72                             | 812,112                  | 129                | m <sup>2</sup> /employee              | 6,300                               | 185                            | 13.49             | 3.15               | 42.50                     | 56.20                         | 98.70 |
|                              |                   |                                    |                          |                    |                                       |                                     |                                |                   |                    |                           |                               |       |

Notes:

1. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.
2. Population densities and unitary flow rates are based on the guidelines found in the Regional Municipality of Halton Water and Wastewater Linear Design Manual, dated October 2019.
3. Infiltration and inflow allowance is 0.28 L/s/ha, per Region standards.
4. Peaking factor determined by modified Harmon formula, per Region standards.



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LEGEND

- CATCHMENT BOUNDARY
- SUBCATCHMENT BOUNDARY
- EXISTING SAN SEWER
- PROPOSED SAN SEWER
- PROPOSED FORCEMAIN
- EXISTING PUMP STATION
- PROPOSED PUMP STATION

CLIENT  
TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

TITLE  
MILTON LINK - MILTON  
**SANITARY DRAINAGE FIGURE**  
OVERALL PLAN - CATCHMENTS TRIBUTARY TO EX.  
2400Ø RR 25 TRUNK SAN (RR 25 @ LOWER BASE LINE)



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envirovisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
| Checked | D.A.     | Drawn      | J.Z.    |
| Date    | JUN 2026 | Proj. No.  | 24-0647 |
| Scale   | 1:20,000 | Figure No. | SA-INT  |



Sanitary Sewer Design Sheet - Interim  
Halton Region

| Population Density |     |            |
|--------------------|-----|------------|
| Singles            | 95  | persons/ha |
| Semis              | 165 | persons/ha |
| Towns              | 260 | persons/ha |
| Apartments         | 600 | persons/ha |

| Population Density |                |
|--------------------|----------------|
| Commerc            | 105 persons/ha |
| Industrial         | 145 persons/ha |
| School             | 50 persons/ha  |
| Park               | persons/ha     |

$$M = 1 + \frac{14}{4 + \sqrt{P/1000}}$$

where M = peaking factor  
P = population

Manning's n = 0.013  
Infiltration Allowance = 0.280 L/s/ha

Average Daily Flow = 275 L/cap/day

| Street Name         | From MH | To MH | Incremental Area (ha) |       |       |             |             |            |        |       | Incremental Population (persons) | Total Population (persons) | Average Flow (L/s) | M     | Peak Flow (L/s) | Incremental Area (ha) | Total Area (ha) | I&I Allowance (L/s) | Incremental Pumped Flow (L/s) | Total Pumped Flow (L/s) | Total Design Flow (L/s) | Sewer Information |           |           |                     |                     |        |                       |  |
|---------------------|---------|-------|-----------------------|-------|-------|-------------|-------------|------------|--------|-------|----------------------------------|----------------------------|--------------------|-------|-----------------|-----------------------|-----------------|---------------------|-------------------------------|-------------------------|-------------------------|-------------------|-----------|-----------|---------------------|---------------------|--------|-----------------------|--|
|                     |         |       | Singles               | Semis | Towns | Apartment s | Commercia l | Industrial | School | Park  |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         | Length (m)        | Dia. (mm) | Slope (%) | Full Capacity (L/s) | Full Velocity (m/s) | % Full | Actual Velocity (m/s) |  |
| First Line          | CA6c    | 52A   |                       |       |       |             |             |            | 20.20  |       |                                  | 355                        | 355                | 1.13  | 4.046           | 4.572                 | 18              | 18.00               | 5.040                         |                         | 0.00                    | 9.612             |           |           |                     |                     |        |                       |  |
|                     | 52A     | 51A   |                       |       |       |             |             |            |        |       | 0                                | 355                        | 1.13               | 4.046 | 4.572           | 0                     | 18.00           | 5.040               |                               | 0.00                    | 9.612                   | 100               | 300       | 0.35%     | 57.5349             | 0.8140              | 16.7%  | 0.60                  |  |
|                     | 51A     | 45A   |                       |       |       |             |             |            |        |       | 0                                | 355                        | 1.13               | 4.046 | 4.572           | 0                     | 18.00           | 5.040               |                               | 0.00                    | 9.612                   | 100               | 300       | 0.35%     | 57.5349             | 0.8140              | 16.7%  | 0.60                  |  |
|                     | 45A     | 44A   |                       |       |       |             |             |            |        |       | 0                                | 355                        | 1.13               | 4.046 | 4.572           | 0                     | 18.00           | 5.040               |                               | 0.00                    | 9.612                   | 100               | 300       | 0.35%     | 57.5349             | 0.8140              | 16.7%  | 0.60                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
|                     | CA6b    | 44A   |                       |       |       |             |             |            | 19.83  |       |                                  | 523                        | 523                | 1.66  | 3.964           | 6.599                 | 16.72           | 16.72               | 4.682                         |                         | 0.00                    | 11.280            |           |           |                     |                     |        |                       |  |
|                     | 44A     | 1A    |                       |       |       |             |             |            |        |       | 0                                | 878                        | 2.79               | 3.836 | 10.719          | 0                     | 34.72           | 9.722               |                               | 0.00                    | 20.441                  | 100               | 450       | 0.21%     | 130.6520            | 0.8215              | 15.6%  | 0.60                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
|                     | CA6a    | 1A    |                       |       |       |             |             |            | 34.85  |       |                                  | 533                        | 533                | 1.70  | 3.960           | 6.718                 | 15.85           | 15.85               | 4.438                         |                         | 0.00                    | 11.156            |           |           |                     |                     |        |                       |  |
|                     | 1A      | 2A    |                       |       |       |             |             |            |        |       | 0                                | 1411                       | 4.49               | 3.699 | 16.611          | 0                     | 50.57           | 14.160              |                               | 0.00                    | 30.770                  | 100               | 375       | 1.00%     | 175.3301            | 1.5875              | 17.5%  | 1.19                  |  |
|                     | 2A      | 3A    |                       |       |       |             |             |            |        |       | 0                                | 1411                       | 4.49               | 3.699 | 16.611          | 0                     | 50.57           | 14.160              |                               | 0.00                    | 30.770                  | 100               | 375       | 1.00%     | 175.3301            | 1.5875              | 17.5%  | 1.19                  |  |
|                     | 3A      | 4A    |                       |       |       |             |             |            |        |       | 0                                | 1411                       | 4.49               | 3.699 | 16.611          | 0                     | 50.57           | 14.160              |                               | 0.00                    | 30.770                  | 100               | 375       | 1.00%     | 175.3301            | 1.5875              | 17.5%  | 1.19                  |  |
|                     | 4A      | 5A    |                       |       |       |             |             |            |        |       | 0                                | 1411                       | 4.49               | 3.699 | 16.611          | 0                     | 50.57           | 14.160              |                               | 0.00                    | 30.770                  | 100               | 375       | 1.00%     | 175.3301            | 1.5875              | 17.5%  | 1.19                  |  |
|                     | 5A      | 6A    |                       |       |       |             |             |            |        |       | 0                                | 1411                       | 4.49               | 3.699 | 16.611          | 0                     | 50.57           | 14.160              |                               | 0.00                    | 30.770                  | 100               | 375       | 1.00%     | 175.3301            | 1.5875              | 17.5%  | 1.19                  |  |
|                     | 6A      | 7A    |                       |       |       |             |             |            |        |       | 0                                | 1411                       | 4.49               | 3.699 | 16.611          | 0                     | 50.57           | 14.160              |                               | 0.00                    | 30.770                  | 80.71             | 375       | 1.00%     | 175.3301            | 1.5875              | 17.5%  | 1.19                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
| Brittania Road West | CA1     | 7A    | 16.04                 | 18.60 | 7.56  |             |             |            |        | 12.36 | 7177                             | 7177                       | 22.84              | 3.096 | 70.726          | 58.57                 | 58.57           | 16.400              |                               | 0.00                    | 87.126                  |                   |           |           |                     |                     |        |                       |  |
|                     | CA2     | 7A    | 26.45                 | 3.97  | 12.34 |             |             |            |        | 15.27 | 7140                             | 7140                       | 22.73              | 3.098 | 70.411          | 60.82                 | 60.82           | 17.030              |                               | 0.00                    | 87.441                  |                   |           |           |                     |                     |        |                       |  |
|                     | CA3     | 7A    | 4.00                  |       | 0.66  | 3.69        |             |            |        |       | 2766                             | 2766                       | 8.80               | 3.472 | 30.568          | 12.67                 | 12.67           | 3.548               |                               | 0.00                    | 34.116                  |                   |           |           |                     |                     |        |                       |  |
|                     | 7A      | 8A    |                       |       |       |             |             |            |        |       | 0                                | 18494                      | 58.86              | 2.687 | 158.147         | 0                     | 182.63          | 51.136              |                               | 0.00                    | 209.284                 | 486.56            | 1200      | 0.15%     | 1509.9717           | 1.3351              | 13.9%  | 0.94                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
|                     | CA4     | 8A    | 40.11                 | 5.67  | 24.50 |             |             | 0.72       |        | 17.37 | 12061                            | 12061                      | 38.39              | 2.873 | 110.307         | 126.61                | 126.61          | 35.451              |                               | 0.00                    | 145.758                 |                   |           |           |                     |                     |        |                       |  |
|                     | CA7a    | 8A    |                       |       |       |             |             |            |        |       | 1470                             | 1470                       | 4.68               | 3.686 | 17.246          | 50.42                 | 50.42           | 14.118              |                               | 0.00                    | 31.363                  |                   |           |           |                     |                     |        |                       |  |
|                     | 8A      | 9A    |                       |       |       |             |             |            |        |       | 0                                | 32025                      | 101.93             | 2.449 | 249.672         | 0                     | 359.66          | 100.705             |                               | 0.00                    | 350.377                 | 513.54            | 1200      | 0.13%     | 1405.7072           | 1.2429              | 24.9%  | 1.03                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
|                     | CA5     | 9A    | 42.30                 | 2.56  | 12.33 |             |             |            |        | 2.97  | 7796                             | 7796                       | 24.81              | 3.061 | 75.960          | 60.24                 | 60.24           | 16.867              |                               | 0.00                    | 92.827                  |                   |           |           |                     |                     |        |                       |  |
|                     | CA7b    | 9A    |                       |       |       |             |             |            |        |       | 428                              | 428                        | 1.36               | 4.008 | 5.460           | 33.2                  | 33.20           | 9.296               |                               | 0.00                    | 14.756                  |                   |           |           |                     |                     |        |                       |  |
|                     | 9A      | 10A   |                       |       |       |             |             |            |        |       | 0                                | 40249                      | 128.11             | 2.353 | 301.490         | 0                     | 453.10          | 126.868             |                               | 0.00                    | 428.358                 | 368.72            | 1200      | 0.13%     | 1405.7072           | 1.2429              | 30.5%  | 1.09                  |  |
|                     | 10A     | 11A   |                       |       |       |             |             |            |        |       | 0                                | 40249                      | 128.11             | 2.353 | 301.490         | 0                     | 453.10          | 126.868             |                               | 0.00                    | 428.358                 | 86.19             | 1200      | 0.15%     | 1509.9717           | 1.3351              | 28.4%  | 1.15                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
| Regional Road 25    | CA8     | 11A   | 6.16                  | 11.49 | 5.18  | 2.04        |             |            |        |       | 5052                             | 5052                       | 16.08              | 3.241 | 52.112          | 59.35                 | 59.35           | 16.618              |                               | 0.00                    | 68.730                  |                   |           |           |                     |                     |        |                       |  |
|                     | BR PS   | 11A   |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     | 1000.00                       | 1000.00                 | 1000.000                |                   |           |           |                     |                     |        |                       |  |
|                     | 11A     | 12A   |                       |       |       |             |             |            |        |       | 0                                | 45301                      | 144.19             | 2.305 | 332.305         | 0                     | 512.45          | 143.486             |                               | 1000.00                 | 1475.791                | 399.44            | 1500      | 0.18%     | 2999.0668           | 1.6971              | 49.2%  | 1.69                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
|                     | CA9     | 12A   | 1.53                  |       |       |             |             | 2.20       |        | 1.38  | 446                              | 446                        | 1.42               | 3.999 | 5.677           | 249.65                | 249.65          | 69.902              |                               | 0.00                    | 75.579                  |                   |           |           |                     |                     |        |                       |  |
|                     | 12A     | 13A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 430.15            | 1500      | 0.18%     | 2999.0668           | 1.6971              | 51.6%  | 1.71                  |  |
|                     | 13A     | 14A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 326.27            | 1500      | 0.18%     | 2999.0668           | 1.6971              | 51.6%  | 1.71                  |  |
|                     | 14A     | 15A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 435.78            | 2100      | 0.38%     | #####               | 3.0656              | 14.6%  | 2.18                  |  |
|                     | 15A     | 16A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 428.21            | 2100      | 0.38%     | #####               | 3.0900              | 14.5%  | 2.20                  |  |
|                     | 16A     | 17A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 441.27            | 2400      | 0.36%     | #####               | 3.2833              | 10.4%  | 2.11                  |  |
|                     | 17A     | 18A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 422.51            | 2400      | 0.36%     | #####               | 3.2833              | 10.4%  | 2.11                  |  |
|                     | 18A     | 19A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301 | 334.994         | 0                     | 762.10          | 213.388             |                               | 1000.00                 | 1548.382                | 16.19             | 2400      | 0.25%     | #####               | 2.7361              | 12.5%  | 1.86                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |       |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |        |                       |  |
| Lower Base Line W   | CA10f   | 40A   |                       |       |       |             |             |            | 26.47  |       | 567                              | 567                        | 1.80               | 3.946 | 7.120           | 26.28                 | 26.28           | 7.358               |                               | 0.00                    | 14.479                  |                   |           |           |                     |                     |        |                       |  |
|                     | 40A     | 41A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946 | 7.120           | 0                     | 26.28           | 7.358               |                               | 0.00                    | 14.479                  | 399.67            | 300       | 1.00%     | 96.7008             | 1.3680              | 15.0%  | 0.98                  |  |
|                     | 41A     | 42A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946 | 7.120           | 0                     | 26.28           | 7.358               |                               | 0.00                    | 14.479                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.0%  | 0.98                  |  |
|                     | 42A     | 46A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946 | 7.120           | 0                     | 26.28           | 7.358               |                               | 0.00                    | 14.479                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.0%  | 0.98                  |  |
| Tremaine Road       | 46A     | 47A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946 | 7.120           | 0                     | 26.28           | 7.358               |                               | 0.00                    | 14.479                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.0%  | 0.98                  |  |
|                     | 47A     | 48A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946 | 7.120           | 0                     | 26.28           | 7.358               |                               | 0.00                    | 14.479                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.0%  | 0.98                  |  |
|                     | 48A     | 49A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946 | 7.120           | 0                     | 26.28           | 7.358               |                               | 0.00                    | 14.479                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.0%  | 0.98                  |  |

|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
|-------------------|-------|-------|--|--|--|--|--|-------|--|------|-------|--------|-------|---------|-------|---------|---------|--------|---------|----------|---------|------|-------|----------|--------|-------|------|
|                   | 49A   | 50A   |  |  |  |  |  |       |  | 0    | 567   | 1.80   | 3.946 | 7.120   | 0     | 26.28   | 7.358   |        | 0.00    | 14.479   | 186.5   | 300  | 1.00% | 96.7008  | 1.3680 | 15.0% | 0.98 |
|                   | 50A   | TR PS |  |  |  |  |  |       |  | 0    | 567   | 1.80   | 3.946 | 7.120   | 0     | 26.28   | 7.358   |        | 0.00    | 14.479   | 287.28  | 300  | 1.00% | 96.7008  | 1.3680 | 15.0% | 0.98 |
|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
| Lower Base Line W | TR PS | 35A   |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         | 225.00 | 225.00  | 225.000  |         |      |       |          |        |       |      |
|                   | CA10g | 35A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 92.8  | 92.80   | 25.984  |        | 0.00    | 25.984   |         |      |       |          |        |       |      |
|                   | 35A   | 34A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 0     | 92.80   | 25.984  |        | 225.00  | 250.984  | 287.28  | 600  | 0.90% | 582.5025 | 2.0602 | 43.1% | 1.98 |
|                   | 34A   | 33A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 0     | 92.80   | 25.984  |        | 225.00  | 250.984  | 171.96  | 600  | 0.90% | 582.5025 | 2.0602 | 43.1% | 1.98 |
|                   | 33A   | 32A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 0     | 92.80   | 25.984  |        | 225.00  | 250.984  | 186.5   | 600  | 0.90% | 582.5025 | 2.0602 | 43.1% | 1.98 |
|                   | 32A   | 31A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 0     | 92.80   | 25.984  |        | 225.00  | 250.984  | 192.64  | 600  | 0.90% | 582.5025 | 2.0602 | 43.1% | 1.98 |
|                   | 31A   | 30A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 0     | 92.80   | 25.984  |        | 225.00  | 250.984  | 219.94  | 600  | 0.90% | 582.5025 | 2.0602 | 43.1% | 1.98 |
|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
| First Line        | CA10a | 38A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 53.28 | 53.28   | 14.918  |        | 0.00    | 14.918   |         |      |       |          |        |       |      |
|                   | CA10b | 38A   |  |  |  |  |  | 77.27 |  | 1815 | 1815  | 5.78   | 3.618 | 20.902  | 64.93 | 64.93   | 18.180  |        | 0.00    | 39.082   |         |      |       |          |        |       |      |
|                   | CA10d | 38A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 85    | 85.00   | 23.800  |        | 0.00    | 23.800   |         |      |       |          |        |       |      |
|                   | 38A   | 37A   |  |  |  |  |  |       |  | 0    | 1815  | 5.78   | 3.618 | 20.902  | 0     | 203.21  | 56.899  |        | 0.00    | 77.801   | 267.87  | 600  | 0.40% | 388.3350 | 1.3735 | 20.0% | 1.07 |
|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
|                   | CA10c | 37A   |  |  |  |  |  | 19.42 |  | 609  | 609   | 1.94   | 3.929 | 7.615   | 31.84 | 31.84   | 8.915   |        | 0.00    | 16.530   |         |      |       |          |        |       |      |
|                   | 37A   | 36A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 235.05  | 65.814  |        | 0.00    | 92.967   | 263.24  | 600  | 0.50% | 434.1717 | 1.5356 | 21.4% | 1.22 |
|                   | 36A   | 30A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 235.05  | 65.814  |        | 0.00    | 92.967   | 171.96  | 600  | 0.50% | 434.1717 | 1.5356 | 21.4% | 1.22 |
|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
| Lower Base Line W | CA10h | 30A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 37.32 | 37.32   | 10.450  |        | 0.00    | 10.450   |         |      |       |          |        |       |      |
|                   | 30A   | 29A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 365.17  | 102.248 |        | 225.00  | 354.401  | 186.5   | 750  | 0.70% | 931.4344 | 2.1083 | 38.0% | 1.96 |
|                   | 29A   | 28A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 365.17  | 102.248 |        | 225.00  | 354.401  | 171.96  | 750  | 0.70% | 931.4344 | 2.1083 | 38.0% | 1.96 |
|                   | 28A   | 27A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 365.17  | 102.248 |        | 225.00  | 354.401  | 186.5   | 750  | 0.70% | 931.4344 | 2.1083 | 38.0% | 1.96 |
|                   | 27A   | 26A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 365.17  | 102.248 |        | 225.00  | 354.401  | 192.64  | 750  | 0.70% | 931.4344 | 2.1083 | 38.0% | 1.96 |
|                   | 26A   | 25A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 365.17  | 102.248 |        | 225.00  | 354.401  | 171.96  | 750  | 0.70% | 931.4344 | 2.1083 | 38.0% | 1.96 |
|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
|                   | CA10e | 25A   |  |  |  |  |  |       |  | 0    | 0     | 0.00   | 4.500 | 0.000   | 40.91 | 40.91   | 11.455  |        | 0.00    | 11.455   |         |      |       |          |        |       |      |
|                   | 25A   | 24A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 406.08  | 113.702 |        | 225.00  | 365.855  | 186.5   | 750  | 0.80% | 995.7452 | 2.2539 | 36.7% | 2.08 |
|                   | 24A   | 23A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 406.08  | 113.702 |        | 225.00  | 365.855  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 36.7% | 2.08 |
|                   | 23A   | 22A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 406.08  | 113.702 |        | 225.00  | 365.855  | 186.5   | 750  | 0.80% | 995.7452 | 2.2539 | 36.7% | 2.08 |
|                   | 22A   | 21A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 406.08  | 113.702 |        | 225.00  | 365.855  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 36.7% | 2.08 |
|                   | 21A   | 20A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 406.08  | 113.702 |        | 225.00  | 365.855  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 36.7% | 2.08 |
|                   | 20A   | 19A   |  |  |  |  |  |       |  | 0    | 2424  | 7.72   | 3.519 | 27.153  | 0     | 406.08  | 113.702 |        | 225.00  | 365.855  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 36.7% | 2.08 |
|                   |       |       |  |  |  |  |  |       |  |      |       |        |       |         |       |         |         |        |         |          |         |      |       |          |        |       |      |
| Regional Road 25  | 19A   | 43A   |  |  |  |  |  |       |  | 0    | 48171 | 153.32 | 2.280 | 349.520 | 0     | 1168.18 | 327.090 |        | 1225.00 | 1901.610 | 1031.41 | 2400 | 0.25% | #####    | 2.7361 | 15.4% | 1.98 |

- Notes:
1. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.
  2. Population densities and unitary flow rates are based on the guidelines found in the Regional Municipality of Halton Water and Wastewater Linear Design Manual, dated October 2019.
  3. Infiltration and inflow allowance is 0.286 L/s/ha, per Region standards.
  4. Peaking factor determined by modified Harmon formula, per Region standards.
  5. Discharge rate of 1000 L/s assumed for the existing Britannia Road sanitary pumping station based on the Ministry of Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA) Number 1355-AT6MUJ.
  6. Discharge rate of 225 L/s assumed for the planned Tremaine Road sanitary pumping station (Halton Region Capital Project 6555) based on Halton Region Budget and Business Plan Capital Report 2022.
  7. All flows from the Boyne pumping station are assumed to be directed to a 900mm CPP forcemain on Britannia Road and overflow from the pumping station is not accounted for in this analysis.
  8. The community population density established in the Regional Municipality of Halton Water and Wastewater Linear Design Manual is used for institutional land uses.
  9. The analysis assumes that Catchments 10a, 10d, 10e, 10g and 10h are not fully developed and contribute no sanitary flows to the municipal system under interim conditions. Under ultimate conditions, it is assumed that these catchments will be future industrial developments which will contribute sanitary flows to the municipal system.



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PLOT DATE: Jun 05, 2026 - 1:04pm, Andre Rocha



LEGEND

- CATCHMENT BOUNDARY
- SUBCATCHMENT BOUNDARY
- EXISTING SAN SEWER
- PROPOSED SAN SEWER
- PROPOSED FORCEMAIN
- EXISTING PUMP STATION
- PROPOSED PUMP STATION

CLIENT  
TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

TITLE  
MILTON LINK - MILTON  
**SANITARY DRAINAGE FIGURE**  
OVERALL PLAN - CATCHMENTS TRIBUTARY TO EX.  
2400Ø RR 25 TRUNK SAN (RR 25 @ LOWER BASE LINE)



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
| Checked | D.A.     | Drawn      | J.Z.    |
| Date    | JUN 2026 | Proj. No.  | 24-0647 |
| Scale   | 1:20,000 | Figure No. | SA-ULT  |



Sanitary Sewer Design Sheet - Ultimate  
Halton Region

| Population Density |     |            |
|--------------------|-----|------------|
| Singles            | 95  | persons/ha |
| Semis              | 165 | persons/ha |
| Towns              | 260 | persons/ha |
| Apartments         | 600 | persons/ha |

| Population Density |                |
|--------------------|----------------|
| Commerc            | 105 persons/ha |
| Industrial         | 145 persons/ha |
| School             | 50 persons/ha  |
| Park               | persons/ha     |

$$M = 1 + \frac{14}{4 + \sqrt{P/1000}}$$

where      M = peaking factor  
              P = population

Manning's n =      0.013  
Infiltration Allowance =      0.286      L/s/ha

Average Daily Flow =      275      L/cap/day

| Street Name         | From MH | To MH | Incremental Area (ha) |       |       |             |             |            |        |       | Incremental Population (persons) | Total Population (persons) | Average Flow (L/s) | M       | Peak Flow (L/s) | Incremental Area (ha) | Total Area (ha) | I&I Allowance (L/s) | Incremental Pumped Flow (L/s) | Total Pumped Flow (L/s) | Total Design Flow (L/s) | Sewer Information |           |           |                     |                     |         |                       |  |
|---------------------|---------|-------|-----------------------|-------|-------|-------------|-------------|------------|--------|-------|----------------------------------|----------------------------|--------------------|---------|-----------------|-----------------------|-----------------|---------------------|-------------------------------|-------------------------|-------------------------|-------------------|-----------|-----------|---------------------|---------------------|---------|-----------------------|--|
|                     |         |       | Singles               | Semis | Towns | Apartment s | Commercia l | Industrial | School | Park  |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         | Length (m)        | Dia. (mm) | Slope (%) | Full Capacity (L/s) | Full Velocity (m/s) | % Full  | Actual Velocity (m/s) |  |
| First Line          | CA6c    | 52A   |                       |       |       |             |             |            | 20.20  |       | 355                              | 355                        | 1.13               | 4.046   | 4.572           | 18                    | 18.00           | 5.148               |                               | 0.00                    | 9.720                   |                   |           |           |                     |                     |         |                       |  |
|                     | 52A     | 51A   |                       |       |       |             |             |            |        | 0     | 355                              |                            | 4.046              | #VALUE! | 0               | 18.00                 | 5.148           |                     | 0.00                          | #VALUE!                 | 100                     | 300               | 0.35%     | 57.5349   | 0.8140              | #VALUE!             | #VALUE! |                       |  |
|                     | 51A     | 45A   |                       |       |       |             |             |            |        | 0     | 355                              | 1.13                       | 4.046              | 4.572   | 0               | 18.00                 | 5.148           |                     | 0.00                          | 9.720                   | 100                     | 300               | 0.35%     | 57.5349   | 0.8140              | 16.9%               | 0.60    |                       |  |
|                     | 45A     | 44A   |                       |       |       |             |             |            |        | 0     | 355                              | 1.13                       | 4.046              | 4.572   | 0               | 18.00                 | 5.148           |                     | 0.00                          | 9.720                   | 100                     | 300               | 0.35%     | 57.5349   | 0.8140              | 16.9%               | 0.60    |                       |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
|                     | CA6b    | 44A   |                       |       |       |             |             |            | 19.83  |       | 523                              | 523                        | 1.66               | 3.964   | 6.599           | 16.72                 | 16.72           | 4.782               |                               | 0.00                    | 11.381                  |                   |           |           |                     |                     |         |                       |  |
|                     | 44A     | 1A    |                       |       |       |             |             |            |        | 0     | 878                              | 2.79                       | 3.836              | 10.719  | 0               | 34.72                 | 9.930           |                     | 0.00                          | 20.649                  | 100                     | 450               | 0.21%     | 131.8905  | 0.8293              | 15.7%               | 0.60    |                       |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
|                     | CA6a    | 1A    |                       |       |       |             |             |            | 34.85  |       | 533                              | 533                        | 1.70               | 3.960   | 6.718           | 15.85                 | 15.85           | 4.533               |                               | 0.00                    | 11.251                  |                   |           |           |                     |                     |         |                       |  |
|                     | 1A      | 2A    |                       |       |       |             |             |            |        | 0     | 1411                             | 4.49                       | 3.699              | 16.611  | 0               | 50.57                 | 14.463          |                     | 0.00                          | 31.074                  | 100                     | 525               | 0.20%     | 192.3297  | 0.8885              | 16.2%               | 0.65    |                       |  |
|                     | 2A      | 3A    |                       |       |       |             |             |            |        | 0     | 1411                             | 4.49                       | 3.699              | 16.611  | 0               | 50.57                 | 14.463          |                     | 0.00                          | 31.074                  | 100                     | 525               | 0.20%     | 192.3297  | 0.8885              | 16.2%               | 0.65    |                       |  |
|                     | 3A      | 4A    |                       |       |       |             |             |            |        | 0     | 1411                             | 4.49                       | 3.699              | 16.611  | 0               | 50.57                 | 14.463          |                     | 0.00                          | 31.074                  | 100                     | 525               | 0.20%     | 192.3297  | 0.8885              | 16.2%               | 0.65    |                       |  |
|                     | 4A      | 5A    |                       |       |       |             |             |            |        | 0     | 1411                             | 4.49                       | 3.699              | 16.611  | 0               | 50.57                 | 14.463          |                     | 0.00                          | 31.074                  | 100                     | 525               | 0.20%     | 192.3297  | 0.8885              | 16.2%               | 0.65    |                       |  |
|                     | 5A      | 6A    |                       |       |       |             |             |            |        | 0     | 1411                             | 4.49                       | 3.699              | 16.611  | 0               | 50.57                 | 14.463          |                     | 0.00                          | 31.074                  | 100                     | 525               | 0.20%     | 192.3297  | 0.8885              | 16.2%               | 0.65    |                       |  |
|                     | 6A      | 7A    |                       |       |       |             |             |            |        | 0     | 1411                             | 4.49                       | 3.699              | 16.611  | 0               | 50.57                 | 14.463          |                     | 0.00                          | 31.074                  | 80.71                   | 525               | 0.20%     | 192.3297  | 0.8885              | 16.2%               | 0.65    |                       |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
| Brittania Road West | CA1     | 7A    | 16.04                 | 18.60 | 7.56  |             |             |            | 12.36  |       | 7177                             | 7177                       | 22.84              | 3.096   | 70.726          | 58.57                 | 58.57           | 16.751              |                               | 0.00                    | 87.477                  |                   |           |           |                     |                     |         |                       |  |
|                     | CA2     | 7A    | 26.45                 | 3.97  | 12.34 |             |             |            | 15.27  |       | 7140                             | 7140                       | 22.73              | 3.098   | 70.411          | 60.82                 | 60.82           | 17.395              |                               | 0.00                    | 87.805                  |                   |           |           |                     |                     |         |                       |  |
|                     | CA3     | 7A    | 4.00                  |       | 0.66  | 3.69        |             |            |        |       | 2766                             | 2766                       | 8.80               | 3.472   | 30.568          | 12.67                 | 12.67           | 3.624               |                               | 0.00                    | 34.192                  |                   |           |           |                     |                     |         |                       |  |
|                     | 7A      | 8A    |                       |       |       |             |             |            |        |       | 0                                | 18494                      | 58.86              | 2.687   | 158.147         | 0                     | 182.63          | 52.232              |                               | 0.00                    | 210.379                 | 486.56            | 1200      | 0.15%     | 1509.9717           | 1.3351              | 13.9%   | 0.94                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
|                     | CA4     | 8A    | 40.11                 | 5.67  | 24.50 |             |             | 0.72       |        | 17.37 |                                  | 12061                      | 12061              | 38.39   | 2.873           | 110.307               | 126.61          | 126.61              | 36.210                        |                         | 0.00                    | 146.518           |           |           |                     |                     |         |                       |  |
|                     | CA7a    | 8A    |                       |       |       |             |             |            | 50.42  |       |                                  | 1470                       | 1470               | 4.68    | 3.686           | 17.246                | 50.42           | 50.42               | 14.420                        |                         | 0.00                    | 31.666            |           |           |                     |                     |         |                       |  |
|                     | 8A      | 9A    |                       |       |       |             |             |            |        |       | 0                                | 32025                      | 101.93             | 2.449   | 249.672         | 0                     | 359.66          | 102.863             |                               | 0.00                    | 352.535                 | 513.54            | 1200      | 0.13%     | 1405.7072           | 1.2429              | 25.1%   | 1.03                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
|                     | CA5     | 9A    | 42.30                 | 2.56  | 12.33 |             |             |            | 2.97   |       |                                  | 7796                       | 7796               | 24.81   | 3.061           | 75.960                | 60.24           | 60.24               | 17.229                        |                         | 0.00                    | 93.188            |           |           |                     |                     |         |                       |  |
|                     | CA7b    | 9A    |                       |       |       |             |             |            | 33.20  |       |                                  | 428                        | 428                | 1.36    | 4.008           | 5.460                 | 33.2            | 33.20               | 9.495                         |                         | 0.00                    | 14.955            |           |           |                     |                     |         |                       |  |
|                     | 9A      | 10A   |                       |       |       |             |             |            |        |       | 0                                | 40249                      | 128.11             | 2.353   | 301.490         | 0                     | 453.10          | 129.587             |                               | 0.00                    | 431.076                 | 368.72            | 1200      | 0.13%     | 1405.7072           | 1.2429              | 30.7%   | 1.09                  |  |
|                     | 10A     | 11A   |                       |       |       |             |             |            |        |       | 0                                | 40249                      | 128.11             | 2.353   | 301.490         | 0                     | 453.10          | 129.587             |                               | 0.00                    | 431.076                 | 86.19             | 1200      | 0.15%     | 1509.9717           | 1.3351              | 28.5%   | 1.15                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
| Regional Road 25    | CA8     | 11A   | 6.16                  | 11.49 | 5.18  | 2.04        |             |            |        |       | 5052                             | 5052                       | 16.08              | 3.241   | 52.112          | 59.35                 | 59.35           | 16.974              |                               | 0.00                    | 69.086                  |                   |           |           |                     |                     |         |                       |  |
|                     | BR PS   | 11A   |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     | 1000.00                       | 1000.00                 | 1000.000                |                   |           |           |                     |                     |         |                       |  |
|                     | 11A     | 12A   |                       |       |       |             |             |            |        |       | 0                                | 45301                      | 144.19             | 2.305   | 332.305         | 0                     | 512.45          | 146.561             |                               | 1000.00                 | 1478.866                | 399.44            | 1500      | 0.18%     | 2999.0668           | 1.6971              | 49.3%   | 1.69                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
|                     | CA9     | 12A   | 1.53                  |       |       |             | 2.20        |            | 1.38   |       | 446                              | 446                        | 1.42               | 3.999   | 5.677           | 249.65                | 249.65          | 71.400              |                               | 0.00                    | 77.077                  |                   |           |           |                     |                     |         |                       |  |
|                     | 12A     | 13A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 430.15            | 1500      | 0.18%     | 2999.0668           | 1.6971              | 51.8%   | 1.71                  |  |
|                     | 13A     | 14A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 326.27            | 1500      | 0.18%     | 2999.0668           | 1.6971              | 51.8%   | 1.71                  |  |
|                     | 14A     | 15A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 435.78            | 2100      | 0.38%     | #####               | 3.0656              | 14.6%   | 2.18                  |  |
|                     | 15A     | 16A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 428.21            | 2100      | 0.38%     | #####               | 3.0900              | 14.5%   | 2.20                  |  |
|                     | 16A     | 17A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 441.27            | 2400      | 0.36%     | #####               | 3.2833              | 10.5%   | 2.12                  |  |
|                     | 17A     | 18A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 422.51            | 2400      | 0.36%     | #####               | 3.2833              | 10.5%   | 2.12                  |  |
|                     | 18A     | 19A   |                       |       |       |             |             |            |        |       | 0                                | 45747                      | 145.61             | 2.301   | 334.994         | 0                     | 762.10          | 217.961             |                               | 1000.00                 | 1552.954                | 16.19             | 2400      | 0.25%     | #####               | 2.7361              | 12.5%   | 1.86                  |  |
|                     |         |       |                       |       |       |             |             |            |        |       |                                  |                            |                    |         |                 |                       |                 |                     |                               |                         |                         |                   |           |           |                     |                     |         |                       |  |
| Lower Base Line W   | CA10f   | 40A   |                       |       |       |             |             |            | 26.47  |       | 567                              | 567                        | 1.80               | 3.946   | 7.120           | 26.28                 | 26.28           | 7.516               |                               | 0.00                    | 14.636                  |                   |           |           |                     |                     |         |                       |  |
|                     | 40A     | 41A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946   | 7.120           | 0                     | 26.28           | 7.516               |                               | 0.00                    | 14.636                  | 399.67            | 300       | 1.00%     | 96.7008             | 1.3680              | 15.1%   | 0.98                  |  |
|                     | 41A     | 42A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946   | 7.120           | 0                     | 26.28           | 7.516               |                               | 0.00                    | 14.636                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.1%   | 0.98                  |  |
|                     | 42A     | 46A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946   | 7.120           | 0                     | 26.28           | 7.516               |                               | 0.00                    | 14.636                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.1%   | 0.98                  |  |
| Tremaine Road       | 46A     | 47A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946   | 7.120           | 0                     | 26.28           | 7.516               |                               | 0.00                    | 14.636                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.1%   | 0.98                  |  |
|                     | 47A     | 48A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946   | 7.120           | 0                     | 26.28           | 7.516               |                               | 0.00                    | 14.636                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.1%   | 0.98                  |  |
|                     | 48A     | 49A   |                       |       |       |             |             |            |        |       | 0                                | 567                        | 1.80               | 3.946   | 7.120           | 0                     | 26.28           | 7.516               |                               | 0.00                    | 14.636                  | 186.5             | 300       | 1.00%     | 96.7008             | 1.3680              | 15.1%   | 0.98                  |  |

|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
|-------------------|-------|-------|--|--|--|--|--|-------|--|---|-------|--------|-------|---------|---------|---------|---------|--------|---------|----------|---------|------|-------|----------|--------|-------|------|
|                   | 49A   | 50A   |  |  |  |  |  |       |  | 0 | 567   | 1.80   | 3.946 | 7.120   | 0       | 26.28   | 7.516   |        | 0.00    | 14.636   | 186.5   | 300  | 1.00% | 96.7008  | 1.3680 | 15.1% | 0.98 |
|                   | 50A   | TR PS |  |  |  |  |  |       |  | 0 | 567   | 1.80   | 3.946 | 7.120   | 0       | 26.28   | 7.516   |        | 0.00    | 14.636   | 287.28  | 300  | 1.00% | 96.7008  | 1.3680 | 15.1% | 0.98 |
|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
| Lower Base Line W | TR PS | 35A   |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         | 225.00 | 225.00  | 225.000  |         |      |       |          |        |       |      |
|                   | CA10g | 35A   |  |  |  |  |  | 92.80 |  |   | 13456 | 13456  | 42.83 | 2.826   | 121.022 | 92.8    | 92.80   | 26.541 |         | 0.00     | 147.562 |      |       |          |        |       |      |
|                   | 35A   | 34A   |  |  |  |  |  |       |  | 0 | 13456 | 42.83  | 2.826 | 121.022 | 0       | 92.80   | 26.541  |        | 225.00  | 372.562  | 287.28  | 600  | 0.90% | 582.5025 | 2.0602 | 64.0% | 2.18 |
|                   | 34A   | 33A   |  |  |  |  |  |       |  | 0 | 13456 | 42.83  | 2.826 | 121.022 | 0       | 92.80   | 26.541  |        | 225.00  | 372.562  | 171.96  | 600  | 0.90% | 582.5025 | 2.0602 | 64.0% | 2.18 |
|                   | 33A   | 32A   |  |  |  |  |  |       |  | 0 | 13456 | 42.83  | 2.826 | 121.022 | 0       | 92.80   | 26.541  |        | 225.00  | 372.562  | 186.5   | 600  | 0.90% | 582.5025 | 2.0602 | 64.0% | 2.18 |
|                   | 32A   | 31A   |  |  |  |  |  |       |  | 0 | 13456 | 42.83  | 2.826 | 121.022 | 0       | 92.80   | 26.541  |        | 225.00  | 372.562  | 192.64  | 600  | 0.90% | 582.5025 | 2.0602 | 64.0% | 2.18 |
|                   | 31A   | 30A   |  |  |  |  |  |       |  | 0 | 13456 | 42.83  | 2.826 | 121.022 | 0       | 92.80   | 26.541  |        | 225.00  | 372.562  | 219.94  | 600  | 0.90% | 582.5025 | 2.0602 | 64.0% | 2.18 |
|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
| First Line        | CA10a | 38A   |  |  |  |  |  | 53.28 |  |   | 7726  | 7726   | 24.59 | 3.065   | 75.372  | 53.28   | 53.28   | 15.238 |         | 0.00     | 90.610  |      |       |          |        |       |      |
|                   | CA10b | 38A   |  |  |  |  |  | 77.27 |  |   | 1815  | 1815   | 5.78  | 3.618   | 20.902  | 62.29   | 62.29   | 17.815 |         | 0.00     | 38.717  |      |       |          |        |       |      |
|                   | CA10d | 38A   |  |  |  |  |  | 85.00 |  |   | 12325 | 12325  | 39.23 | 2.864   | 112.352 | 85      | 85.00   | 24.310 |         | 0.00     | 136.662 |      |       |          |        |       |      |
|                   | 38A   | 37A   |  |  |  |  |  |       |  | 0 | 21866 | 69.60  | 2.614 | 181.900 | 0       | 200.57  | 57.363  |        | 0.00    | 239.263  | 267.87  | 600  | 0.40% | 388.3350 | 1.3735 | 61.6% | 1.44 |
|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
|                   | CA10c | 37A   |  |  |  |  |  | 19.42 |  |   | 609   | 609    | 1.94  | 3.929   | 7.615   | 34.47   | 34.47   | 9.858  |         | 0.00     | 17.474  |      |       |          |        |       |      |
|                   | 37A   | 36A   |  |  |  |  |  |       |  | 0 | 22475 | 71.54  | 2.602 | 186.112 | 0       | 235.04  | 67.221  |        | 0.00    | 253.333  | 263.24  | 600  | 0.50% | 434.1717 | 1.5356 | 58.3% | 1.59 |
|                   | 36A   | 30A   |  |  |  |  |  |       |  | 0 | 22475 | 71.54  | 2.602 | 186.112 | 0       | 235.04  | 67.221  |        | 0.00    | 253.333  | 171.96  | 600  | 0.50% | 434.1717 | 1.5356 | 58.3% | 1.59 |
|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
| Lower Base Line W | CA10h | 30A   |  |  |  |  |  | 27.32 |  |   | 3962  | 3962   | 12.61 | 3.337   | 42.082  | 27.32   | 27.32   | 7.814  |         | 0.00     | 49.895  |      |       |          |        |       |      |
|                   | 30A   | 29A   |  |  |  |  |  |       |  | 0 | 39893 | 126.97 | 2.357 | 299.291 | 0       | 355.16  | 101.576 |        | 225.00  | 625.867  | 186.5   | 750  | 0.70% | 931.4344 | 2.1083 | 67.2% | 2.26 |
|                   | 29A   | 28A   |  |  |  |  |  |       |  | 0 | 39893 | 126.97 | 2.357 | 299.291 | 0       | 355.16  | 101.576 |        | 225.00  | 625.867  | 171.96  | 750  | 0.70% | 931.4344 | 2.1083 | 67.2% | 2.26 |
|                   | 28A   | 27A   |  |  |  |  |  |       |  | 0 | 39893 | 126.97 | 2.357 | 299.291 | 0       | 355.16  | 101.576 |        | 225.00  | 625.867  | 186.5   | 750  | 0.70% | 931.4344 | 2.1083 | 67.2% | 2.26 |
|                   | 27A   | 26A   |  |  |  |  |  |       |  | 0 | 39893 | 126.97 | 2.357 | 299.291 | 0       | 355.16  | 101.576 |        | 225.00  | 625.867  | 192.64  | 750  | 0.70% | 931.4344 | 2.1083 | 67.2% | 2.26 |
|                   | 26A   | 25A   |  |  |  |  |  |       |  | 0 | 39893 | 126.97 | 2.357 | 299.291 | 0       | 355.16  | 101.576 |        | 225.00  | 625.867  | 171.96  | 750  | 0.70% | 931.4344 | 2.1083 | 67.2% | 2.26 |
|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
|                   | CA10e | 25A   |  |  |  |  |  | 40.91 |  |   | 5932  | 5932   | 18.88 | 3.175   | 59.954  | 40.91   | 40.91   | 11.700 |         | 0.00     | 71.654  |      |       |          |        |       |      |
|                   | 25A   | 24A   |  |  |  |  |  |       |  | 0 | 45825 | 145.86 | 2.300 | 335.463 | 0       | 396.07  | 113.276 |        | 225.00  | 673.739  | 186.5   | 750  | 0.80% | 995.7452 | 2.2539 | 67.7% | 2.42 |
|                   | 24A   | 23A   |  |  |  |  |  |       |  | 0 | 45825 | 145.86 | 2.300 | 335.463 | 0       | 396.07  | 113.276 |        | 225.00  | 673.739  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 67.7% | 2.42 |
|                   | 23A   | 22A   |  |  |  |  |  |       |  | 0 | 45825 | 145.86 | 2.300 | 335.463 | 0       | 396.07  | 113.276 |        | 225.00  | 673.739  | 186.5   | 750  | 0.80% | 995.7452 | 2.2539 | 67.7% | 2.42 |
|                   | 22A   | 21A   |  |  |  |  |  |       |  | 0 | 45825 | 145.86 | 2.300 | 335.463 | 0       | 396.07  | 113.276 |        | 225.00  | 673.739  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 67.7% | 2.42 |
|                   | 21A   | 20A   |  |  |  |  |  |       |  | 0 | 45825 | 145.86 | 2.300 | 335.463 | 0       | 396.07  | 113.276 |        | 225.00  | 673.739  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 67.7% | 2.42 |
|                   | 20A   | 19A   |  |  |  |  |  |       |  | 0 | 45825 | 145.86 | 2.300 | 335.463 | 0       | 396.07  | 113.276 |        | 225.00  | 673.739  | 192.64  | 750  | 0.80% | 995.7452 | 2.2539 | 67.7% | 2.42 |
|                   |       |       |  |  |  |  |  |       |  |   |       |        |       |         |         |         |         |        |         |          |         |      |       |          |        |       |      |
| Regional Road 25  | 19A   | 43A   |  |  |  |  |  |       |  | 0 | 91572 | 291.46 | 2.032 | 592.174 | 0       | 1158.17 | 331.237 |        | 1225.00 | 2148.411 | 1031.41 | 2400 | 0.25% | #####    | 2.7361 | 17.4% | 2.05 |

- Notes:
1. Site statistics are based on the Concept Plan provided by WW+P Architects & Planners Inc., dated June 17, 2026.
  2. Population densities and unitary flow rates are based on the guidelines found in the Regional Municipality of Halton Water and Wastewater Linear Design Manual, dated October 2019.
  3. Infiltration and inflow allowance is 0.286 L/s/ha, per Region standards.
  4. Peaking factor determined by modified Harmon formula, per Region standards.
  5. Discharge rate of 1000 L/s assumed for the existing Britannia Road sanitary pumping station based on the Ministry of Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA) Number 1355-AT6MUJ.
  6. Discharge rate of 225 L/s assumed for the planned Tremaine Road sanitary pumping station (Halton Region Capital Project 6555) based on Halton Region Budget and Business Plan Capital Report 2022.
  7. All flows from the Boyne pumping station are assumed to be directed to a 900mm CPP forcemain on Britannia Road and overflow from the pumping station is not accounted for in this analysis.
  8. The community population density established in the Regional Municipality of Halton Water and Wastewater Linear Design Manual is used for institutional land uses.
  9. The analysis assumes that Catchments 10a, 10d, 10e, 10g and 10h are not fully developed and contribute no sanitary flows to the municipal system under interim conditions. Under ultimate conditions, it is assumed that these catchments will be future industrial developments which will contribute sanitary flows to the municipal system.





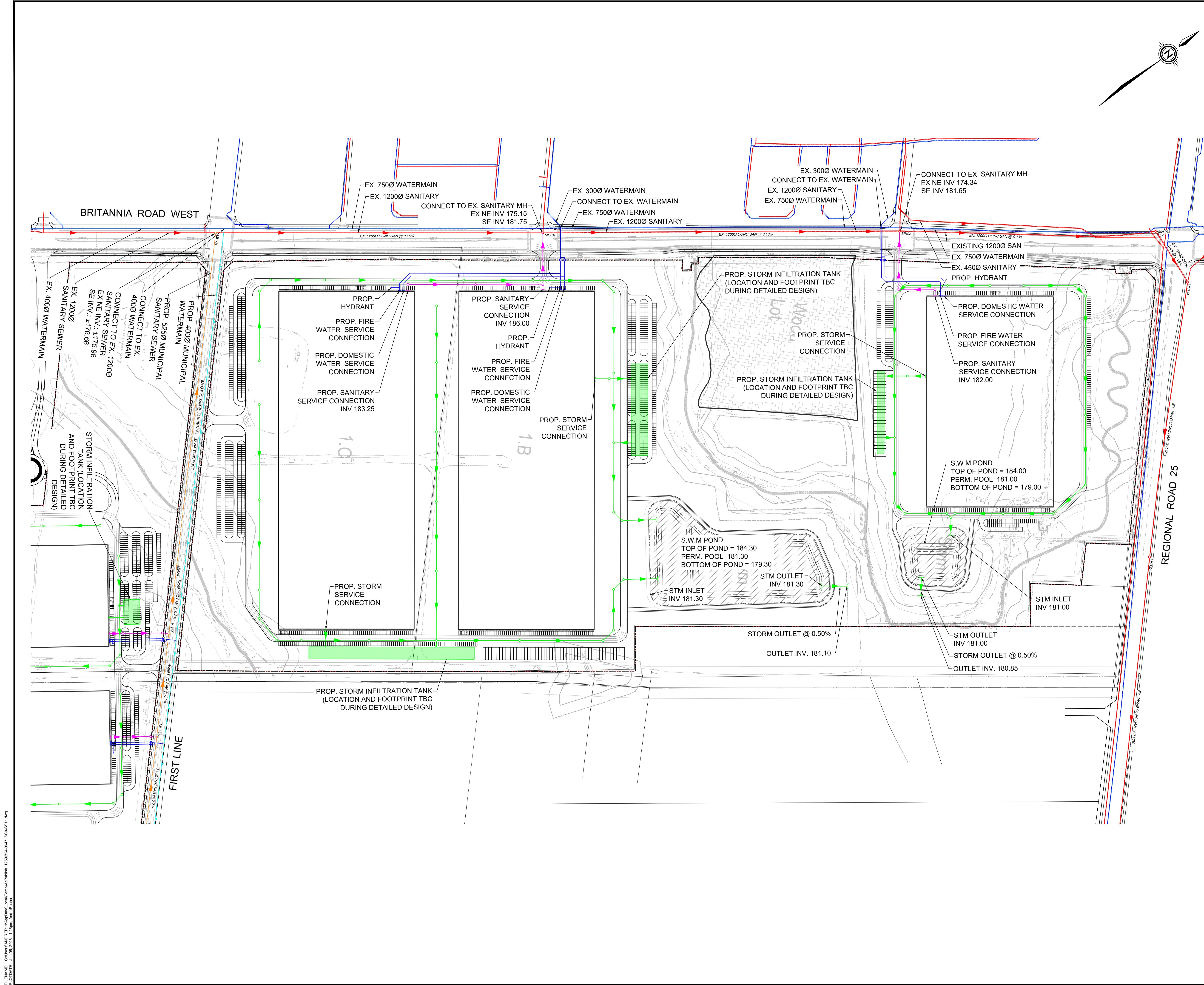
## **APPENDIX D:**

### *Conceptual Engineering Drawings*







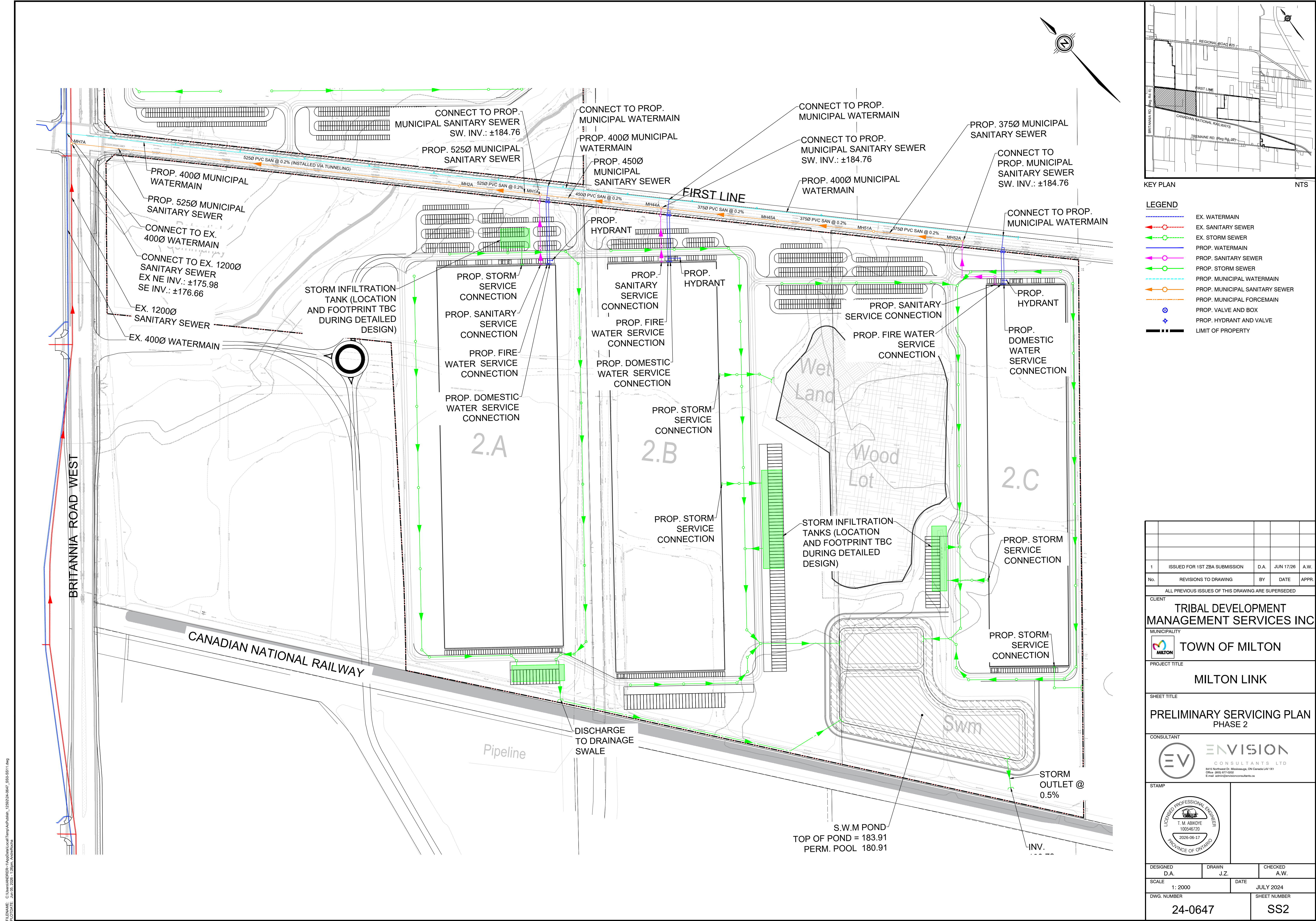


KEY PLAN NTS

- LEGEND**
- EX. WATERMAIN
  - EX. SANITARY SEWER
  - EX. STORM SEWER
  - PROP. WATERMAIN
  - PROP. SANITARY SEWER
  - PROP. STORM SEWER
  - PROP. MUNICIPAL WATERMAIN
  - PROP. MUNICIPAL SANITARY SEWER
  - PROP. MUNICIPAL FORCEMAIN
  - PROP. VALVE AND BOX
  - PROP. HYDRANT AND VALVE
  - LIMIT OF PROPERTY

|                                                                                                                                                                                                                                          |                               |                   |      |                     |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------|------|---------------------|-------|
|                                                                                                                                                                                                                                          |                               |                   |      |                     |       |
|                                                                                                                                                                                                                                          |                               |                   |      |                     |       |
| 1                                                                                                                                                                                                                                        | ISSUED FOR 1ST ZBA SUBMISSION |                   | D.A. | JUN 17/26           | A.W.  |
| No.                                                                                                                                                                                                                                      | REVISIONS TO DRAWING          |                   | BY   | DATE                | APPR. |
| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                       |                               |                   |      |                     |       |
| CLIENT                                                                                                                                                                                                                                   |                               |                   |      |                     |       |
| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                            |                               |                   |      |                     |       |
| MUNICIPALITY                                                                                                                                                                                                                             |                               |                   |      |                     |       |
|  TOWN OF MILTON                                                                                                                                     |                               |                   |      |                     |       |
| PROJECT TITLE                                                                                                                                                                                                                            |                               |                   |      |                     |       |
| MILTON LINK                                                                                                                                                                                                                              |                               |                   |      |                     |       |
| SHEET TITLE                                                                                                                                                                                                                              |                               |                   |      |                     |       |
| PRELIMINARY SERVICING PLAN<br>PHASE 1                                                                                                                                                                                                    |                               |                   |      |                     |       |
| CONSULTANT                                                                                                                                                                                                                               |                               |                   |      |                     |       |
|  ENVISION<br>CONSULTANTS LTD<br>6415 Northport Dr. Mississauga, ON Canada L4V 1X1<br>Office: (905) 677-0202<br>E-mail: admin@envisionconsultants.ca |                               |                   |      |                     |       |
| STAMP                                                                                                                                                                                                                                    |                               |                   |      |                     |       |
|                                                                                                                                                     |                               |                   |      |                     |       |
| DESIGNED<br>D.A.                                                                                                                                                                                                                         |                               | DRAWN<br>J.Z.     |      | CHECKED<br>A.W.     |       |
| SCALE<br>1: 2000                                                                                                                                                                                                                         |                               | DATE<br>JULY 2024 |      |                     |       |
| DWG. NUMBER<br>24-0647                                                                                                                                                                                                                   |                               |                   |      | SHEET NUMBER<br>SS1 |       |





KEY PLAN

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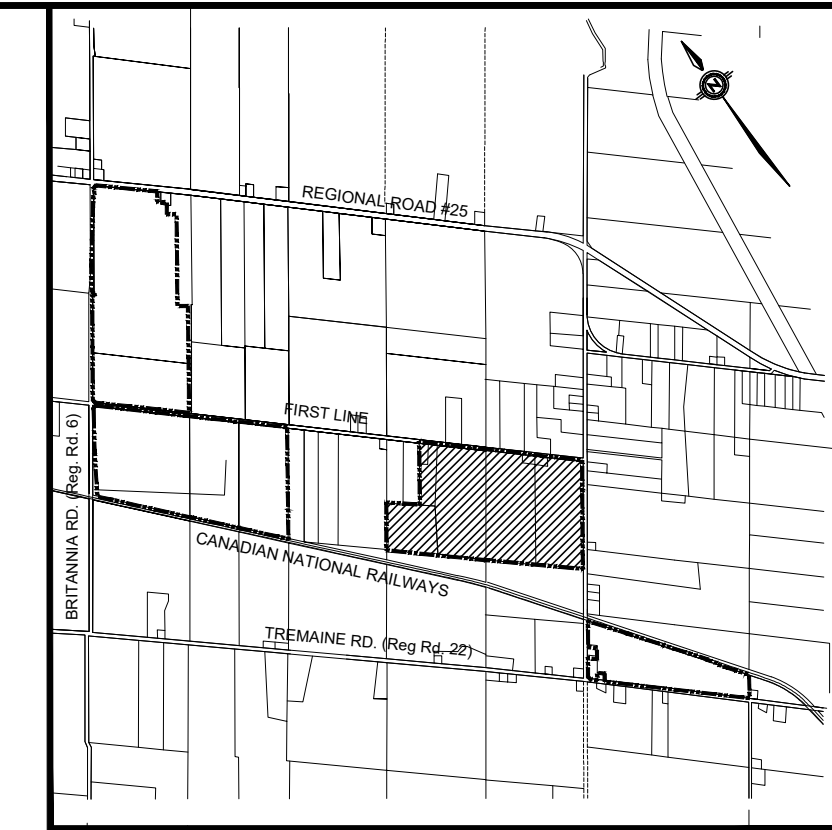
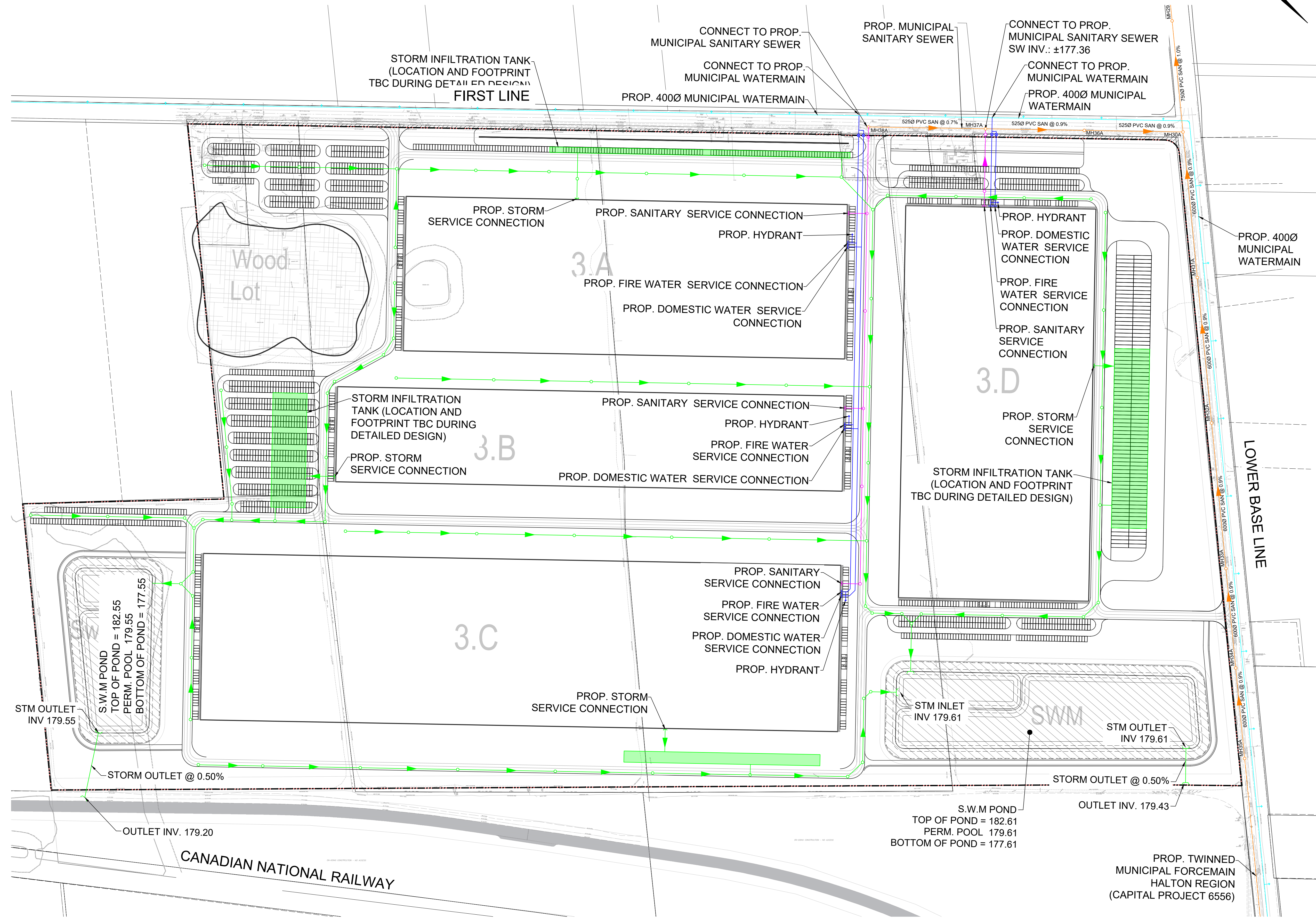
LEGEND

- EX. WATERMAIN
- EX. SANITARY SEWER
- EX. STORM SEWER
- PROP. WATERMAIN
- PROP. SANITARY SEWER
- PROP. STORM SEWER
- PROP. MUNICIPAL WATERMAIN
- PROP. MUNICIPAL SANITARY SEWER
- PROP. MUNICIPAL FORCEMAIN
- PROP. VALVE AND BOX
- PROP. HYDRANT AND VALVE
- LIMIT OF PROPERTY

|                                                                                       |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
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|                                                                                       |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| 1                                                                                     | ISSUED FOR 1ST ZBA SUBMISSION |                                                                                                                                                                                                                               |                   |  |  | D.A.                | JUN 17/26 |  | A.W.  |
| No.                                                                                   | REVISIONS TO DRAWING          |                                                                                                                                                                                                                               |                   |  |  | BY                  | DATE      |  | APPR. |
| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                    |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| CLIENT                                                                                |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                         |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| MUNICIPALITY                                                                          |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
|  |                               | TOWN OF MILTON                                                                                                                                                                                                                |                   |  |  |                     |           |  |       |
| PROJECT TITLE                                                                         |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| MILTON LINK                                                                           |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| SHEET TITLE                                                                           |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| PRELIMINARY SERVICING PLAN<br>PHASE 2                                                 |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| CONSULTANT                                                                            |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
|  |                               | <br>CONSULTANTS LTD<br>6415 Northview Dr. Mississauga, ON Canada L4V 1X1<br>Office: 905.677.0202<br>E-mail: admin@envisionconsultants.ca |                   |  |  |                     |           |  |       |
| STAMP                                                                                 |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
|  |                               |                                                                                                                                                                                                                               |                   |  |  |                     |           |  |       |
| DESIGNED<br>D.A.                                                                      |                               |                                                                                                                                                                                                                               | DRAWN<br>J.Z.     |  |  | CHECKED<br>A.W.     |           |  |       |
| SCALE<br>1: 2000                                                                      |                               |                                                                                                                                                                                                                               | DATE<br>JULY 2024 |  |  |                     |           |  |       |
| DWG. NUMBER<br>24-0647                                                                |                               |                                                                                                                                                                                                                               |                   |  |  | SHEET NUMBER<br>SS2 |           |  |       |



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DATE: 2024-06-17 10:00:00  
USER: A



KEY PLAN NTS

LEGEND

|  |                                |
|--|--------------------------------|
|  | EX. WATERMAIN                  |
|  | EX. SANITARY SEWER             |
|  | EX. STORM SEWER                |
|  | PROP. WATERMAIN                |
|  | PROP. SANITARY SEWER           |
|  | PROP. STORM SEWER              |
|  | PROP. MUNICIPAL WATERMAIN      |
|  | PROP. MUNICIPAL SANITARY SEWER |
|  | PROP. MUNICIPAL FORCEMAIN      |
|  | PROP. VALVE AND BOX            |
|  | PROP. HYDRANT AND VALVE        |
|  | LIMIT OF PROPERTY              |

|                                                                                                                                                                                                                                         |                               |                   |           |                     |  |
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|                                                                                                                                                                                                                                         |                               |                   |           |                     |  |
|                                                                                                                                                                                                                                         |                               |                   |           |                     |  |
|                                                                                                                                                                                                                                         |                               |                   |           |                     |  |
| 1                                                                                                                                                                                                                                       | ISSUED FOR 1ST ZBA SUBMISSION | D.A.              | JUN 17/26 | A.W.                |  |
| No.                                                                                                                                                                                                                                     | REVISIONS TO DRAWING          | BY                | DATE      | APPR                |  |
| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                      |                               |                   |           |                     |  |
| CLIENT                                                                                                                                                                                                                                  |                               |                   |           |                     |  |
| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                           |                               |                   |           |                     |  |
| MUNICIPALITY                                                                                                                                                                                                                            |                               |                   |           |                     |  |
|  TOWN OF MILTON                                                                                                                                    |                               |                   |           |                     |  |
| PROJECT TITLE                                                                                                                                                                                                                           |                               |                   |           |                     |  |
| MILTON LINK                                                                                                                                                                                                                             |                               |                   |           |                     |  |
| SHEET TITLE                                                                                                                                                                                                                             |                               |                   |           |                     |  |
| PRELIMINARY SERVICING PLAN<br>PHASE 3                                                                                                                                                                                                   |                               |                   |           |                     |  |
| CONSULTANT                                                                                                                                                                                                                              |                               |                   |           |                     |  |
|  ENVISION<br>CONSULTANTS LTD<br>6415 Northport Dr. Mississauga, ON Canada L4V 1X1<br>Office (905) 677-0202<br>E-mail: sales@envisionconsultants.ca |                               |                   |           |                     |  |
| STAMP                                                                                                                                                                                                                                   |                               |                   |           |                     |  |
|                                                                                                                                                    |                               |                   |           |                     |  |
| DESIGNED<br>D.A.                                                                                                                                                                                                                        |                               | DRAWN<br>J.Z.     |           | CHECKED<br>A.W.     |  |
| SCALE<br>1: 2000                                                                                                                                                                                                                        |                               | DATE<br>JULY 2024 |           |                     |  |
| DWG. NUMBER<br>24-0647                                                                                                                                                                                                                  |                               |                   |           | SHEET NUMBER<br>SS3 |  |





NTS

|                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
|  | EX. WATERMAIN                  |
|  | EX. SANITARY SEWER             |
|  | EX. STORM SEWER                |
|  | PROP. WATERMAIN                |
|  | PROP. SANITARY SEWER           |
|  | PROP. STORM SEWER              |
|  | PROP. MUNICIPAL WATERMAIN      |
|  | PROP. MUNICIPAL SANITARY SEWER |
|  | PROP. MUNICIPAL FORCEMAIN      |
|  | PROP. VALVE AND BOX            |
|  | PROP. HYDRANT AND VALVE        |
|  | LIMIT OF PROPERTY              |

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

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| CLIENT |  |
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MUNICIPALITY  
 TOWN OF MILTON

SHEET TITLE

CONSULTANT



**ENVISION**  
CONSULTANTS LTD

6415 Northward Dr. Mississauga, ON Canada L4V 1X1  
 Office (905) 677-0292  
 E-mail: [admin@envisionconsultants.ca](mailto:admin@envisionconsultants.ca)

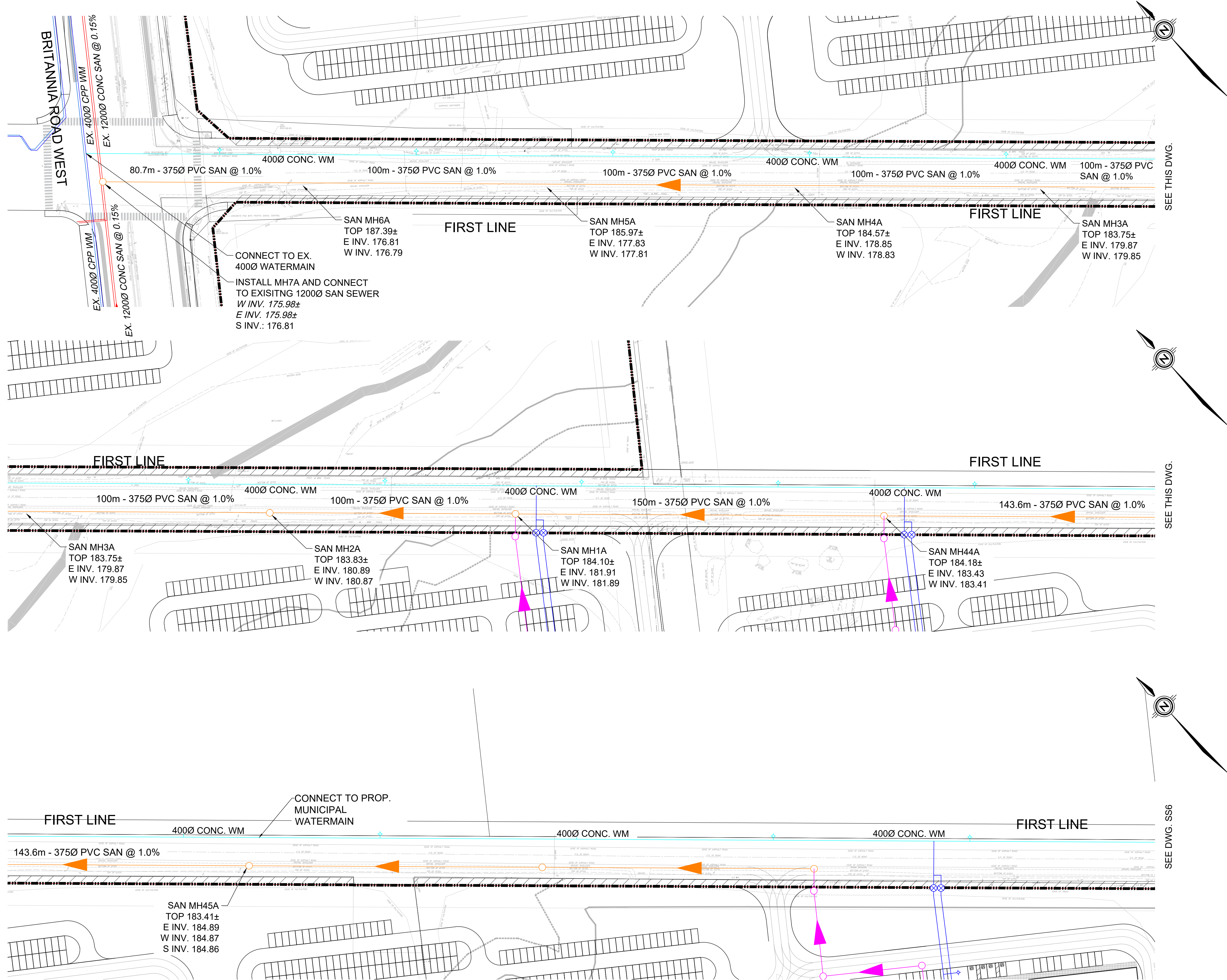
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| DESIGNED<br>D.A. | DRAWN<br>J.Z. | CHECKED<br>A.W. |
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KEY PLAN

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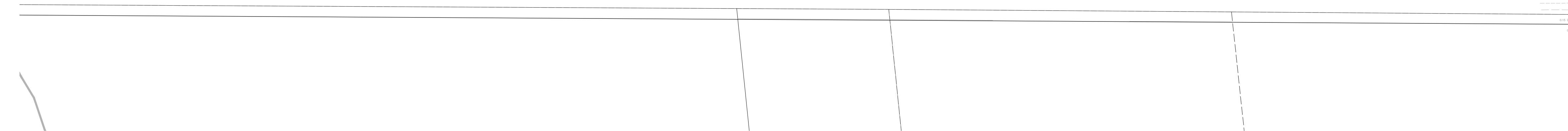
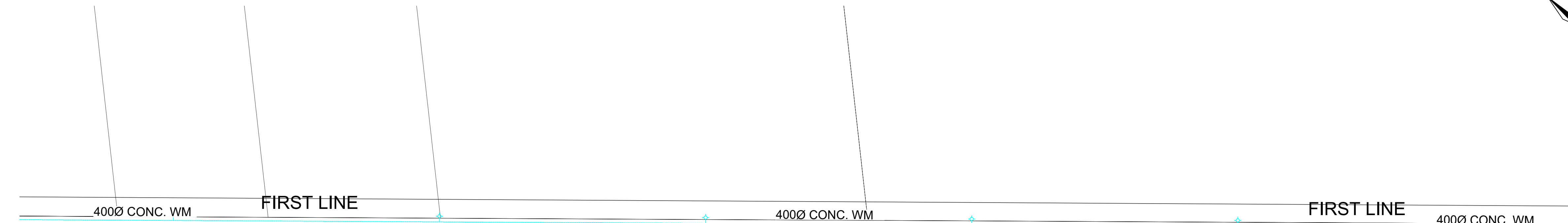
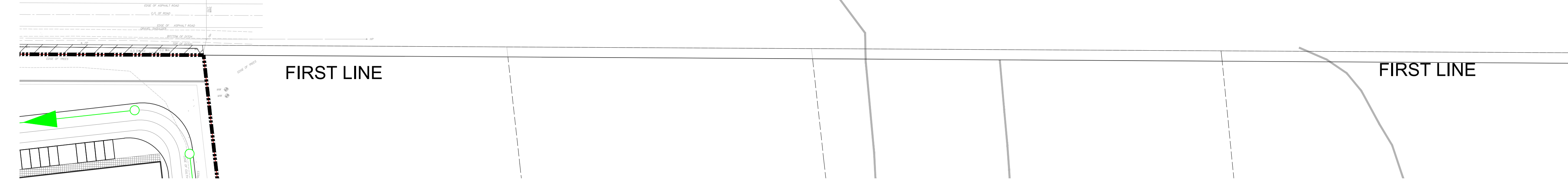
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- EX. SANITARY SEWER
- EX. STORM SEWER
- PROP. WATERMAIN
- PROP. SANITARY SEWER
- PROP. STORM SEWER
- PROP. MUNICIPAL WATERMAIN
- PROP. MUNICIPAL SANITARY SEWER
- PROP. MUNICIPAL FORCEMAIN
- PROP. VALVE AND BOX
- PROP. HYDRANT AND VALVE
- LIMIT OF PROPERTY

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| No.                                                                                                                                               | REVISIONS TO DRAWING          | BY                | DATE      | APPR.               |  |
| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                |                               |                   |           |                     |  |
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| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                     |                               |                   |           |                     |  |
| MUNICIPALITY                                                                                                                                      |                               |                   |           |                     |  |
| TOWN OF MILTON                                                                                                                                    |                               |                   |           |                     |  |
| PROJECT TITLE                                                                                                                                     |                               |                   |           |                     |  |
| MILTON LINK                                                                                                                                       |                               |                   |           |                     |  |
| SHEET TITLE                                                                                                                                       |                               |                   |           |                     |  |
| PRELIMINARY SERVICING PLAN<br>FIRST LINE                                                                                                          |                               |                   |           |                     |  |
| CONSULTANT                                                                                                                                        |                               |                   |           |                     |  |
| ENVISION<br>CONSULTANTS LTD<br>6415 Northside Dr. Mississauga, ON Canada L4Y 1X1<br>Office (905) 677-0202<br>E-mail: admin@envisionconsultants.ca |                               |                   |           |                     |  |
| STAMP                                                                                                                                             |                               |                   |           |                     |  |
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| DESIGNED<br>D.A.                                                                                                                                  |                               | DRAWN<br>J.Z.     |           | CHECKED<br>A.W.     |  |
| SCALE<br>1: 750                                                                                                                                   |                               | DATE<br>JULY 2024 |           | SHEET NUMBER<br>SS5 |  |
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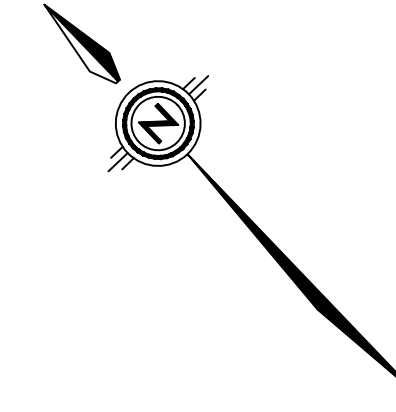
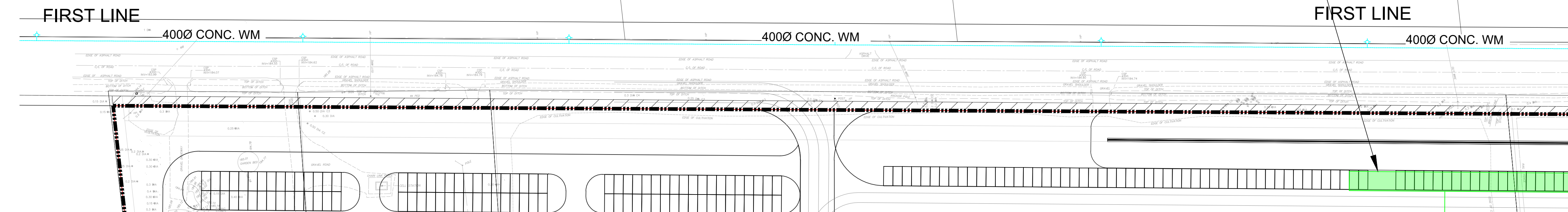


CT TO PROP.  
PAL WATERMAIN

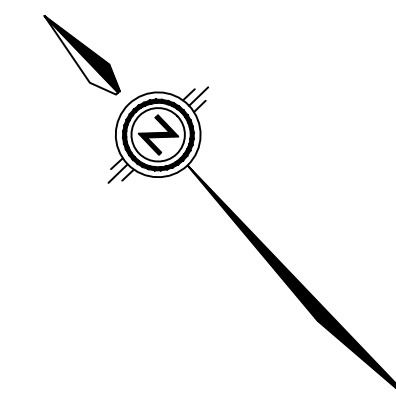
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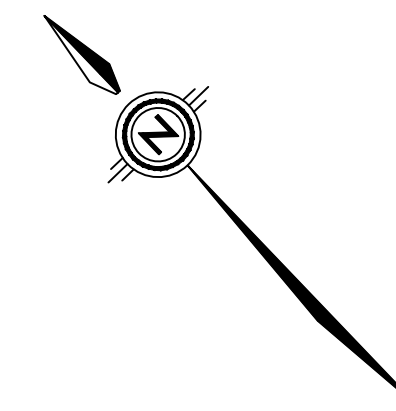
STORM INFILTRATION TANK  
(LOCATION AND FOOTPRINT  
TBC DURING DETAILED DESIGN)



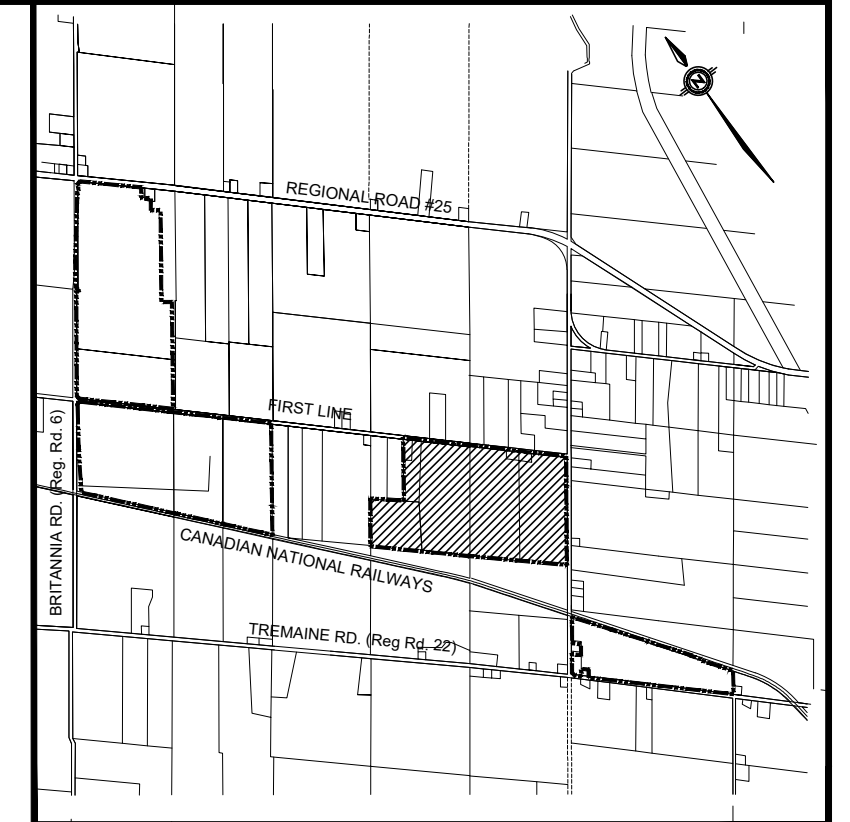
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SEE THIS DWG.



SEE DWG. SS7



KEY PLAN

NTS

#### LEGEND

- EX. WATERMAIN
- EX. SANITARY SEWER
- EX. STORM SEWER
- PROP. WATERMAIN
- PROP. SANITARY SEWER
- PROP. STORM SEWER
- PROP. MUNICIPAL WATERMAIN
- PROP. MUNICIPAL SANITARY SEWER
- PROP. MUNICIPAL FORCEMAIN
- PROP. VALVE AND BOX
- PROP. HYDRANT AND VALVE
- LIMIT OF PROPERTY

|                                                                                                                                                                                                                                                         |                               |                   |           |                     |  |
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| No.                                                                                                                                                                                                                                                     | REVISIONS TO DRAWING          | BY                | DATE      | APPR.               |  |
| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                                      |                               |                   |           |                     |  |
| CLIENT                                                                                                                                                                                                                                                  |                               |                   |           |                     |  |
| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                                           |                               |                   |           |                     |  |
| MUNICIPALITY                                                                                                                                                                                                                                            |                               |                   |           |                     |  |
|  TOWN OF MILTON                                                                                                                                                    |                               |                   |           |                     |  |
| PROJECT TITLE                                                                                                                                                                                                                                           |                               |                   |           |                     |  |
| MILTON LINK                                                                                                                                                                                                                                             |                               |                   |           |                     |  |
| SHEET TITLE                                                                                                                                                                                                                                             |                               |                   |           |                     |  |
| PRELIMINARY SERVICING PLAN<br>FIRST LINE                                                                                                                                                                                                                |                               |                   |           |                     |  |
| CONSULTANT                                                                                                                                                                                                                                              |                               |                   |           |                     |  |
|  <div>ENVISION<br/>CONSULTANTS LTD<br/>6415 Northland Dr. Mississauga, ON Canada L4Y 1X1<br/>Office (905) 677-0202<br/>E-mail: sales@envisionconsultants.com</div> |                               |                   |           |                     |  |
| STAMP                                                                                                                                                                                                                                                   |                               |                   |           |                     |  |
|                                                                                                                                                                    |                               |                   |           |                     |  |
| DESIGNED<br>D.A.                                                                                                                                                                                                                                        |                               | DRAWN<br>J.Z.     |           | CHECKED<br>A.W.     |  |
| SCALE<br>1: 750                                                                                                                                                                                                                                         |                               | DATE<br>JULY 2024 |           | SHEET NUMBER<br>SS6 |  |
| DWG. NUMBER<br>24-0647                                                                                                                                                                                                                                  |                               |                   |           |                     |  |





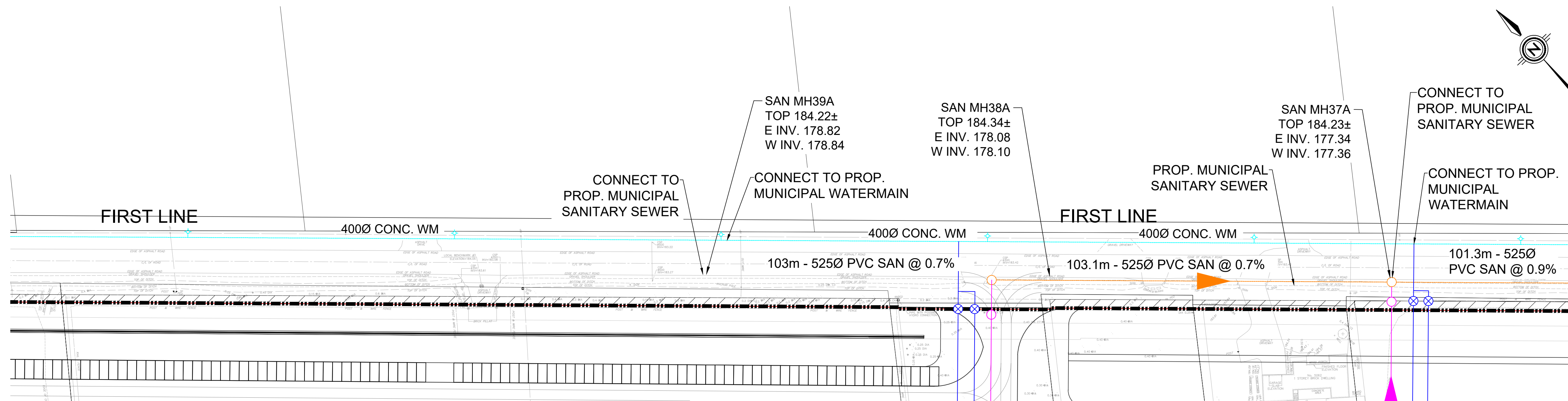
KEY PLAN

NTS

LEGEND

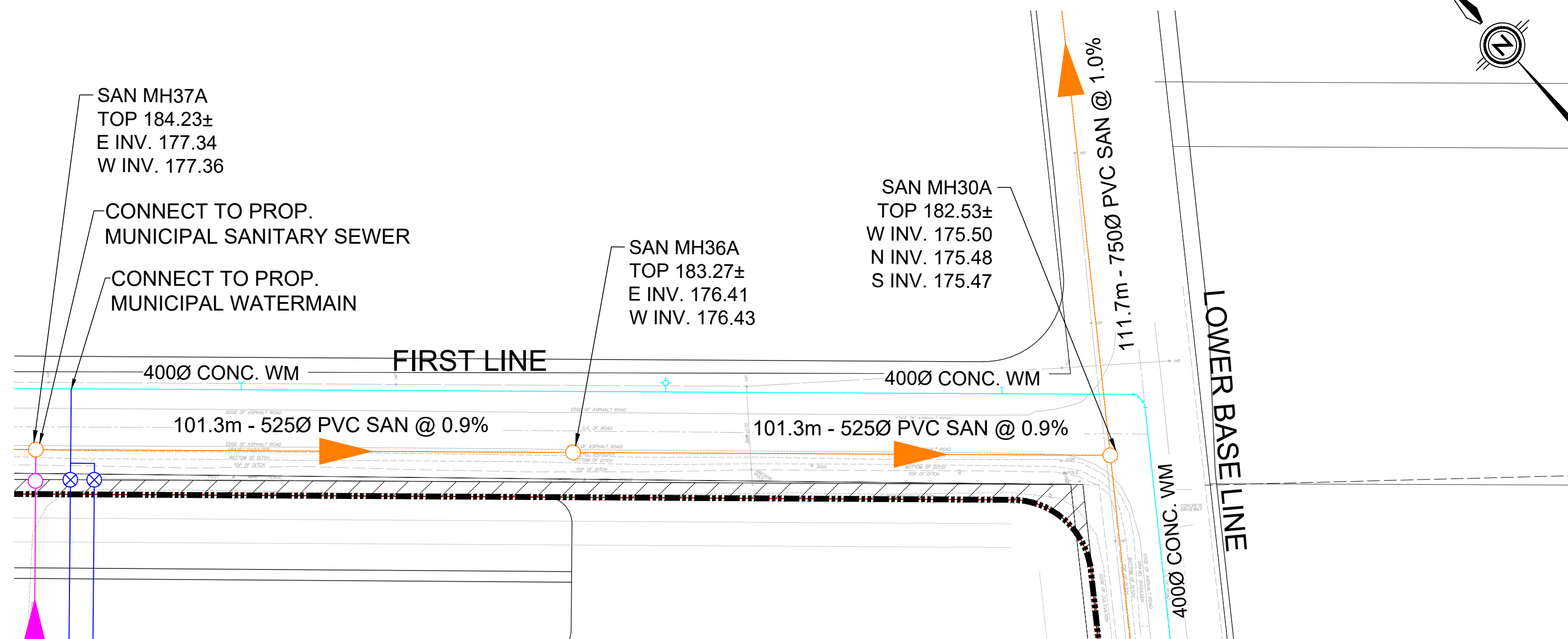
- EX. WATERMAIN
- EX. SANITARY SEWER
- EX. STORM SEWER
- PROP. WATERMAIN
- PROP. SANITARY SEWER
- PROP. STORM SEWER
- PROP. MUNICIPAL WATERMAIN
- PROP. MUNICIPAL SANITARY SEWER
- PROP. MUNICIPAL FORCEMAIN
- PROP. VALVE AND BOX
- PROP. HYDRANT AND VALVE
- LIMIT OF PROPERTY

|                                                                                                                                                                                                                                            |                               |               |              |                 |       |
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| 1                                                                                                                                                                                                                                          | ISSUED FOR 1ST ZBA SUBMISSION |               | D.A.         | JUN 17/26       | A.W.  |
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| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                         |                               |               |              |                 |       |
| CLIENT                                                                                                                                                                                                                                     |                               |               |              |                 |       |
| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                              |                               |               |              |                 |       |
| MUNICIPALITY                                                                                                                                                                                                                               |                               |               |              |                 |       |
|  TOWN OF MILTON                                                                                                                                       |                               |               |              |                 |       |
| PROJECT TITLE                                                                                                                                                                                                                              |                               |               |              |                 |       |
| MILTON LINK                                                                                                                                                                                                                                |                               |               |              |                 |       |
| SHEET TITLE                                                                                                                                                                                                                                |                               |               |              |                 |       |
| PRELIMINARY SERVICING PLAN<br>FIRST LINE                                                                                                                                                                                                   |                               |               |              |                 |       |
| CONSULTANT                                                                                                                                                                                                                                 |                               |               |              |                 |       |
| <br>ENVISION<br>CONSULTANTS LTD<br>6415 Northport Dr. Mississauga, ON Canada L4V 1X1<br>Office (905) 677-0202<br>E-mail: admin@envisionconsultants.ca |                               |               |              |                 |       |
| STAMP                                                                                                                                                                                                                                      |                               |               |              |                 |       |
|                                                                                                                                                       |                               |               |              |                 |       |
| DESIGNED<br>D.A.                                                                                                                                                                                                                           |                               | DRAWN<br>J.Z. |              | CHECKED<br>A.W. |       |
| SCALE<br>1: 750                                                                                                                                                                                                                            |                               | DATE          |              | JULY 2024       |       |
| DWG. NUMBER                                                                                                                                                                                                                                |                               |               | SHEET NUMBER |                 |       |
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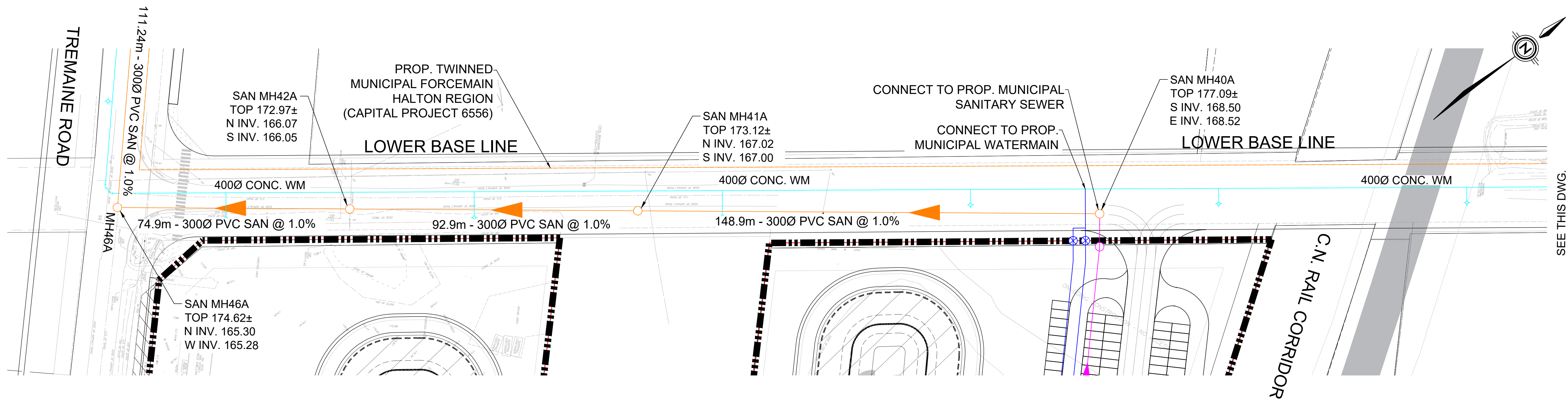


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SEE DWG. SS9

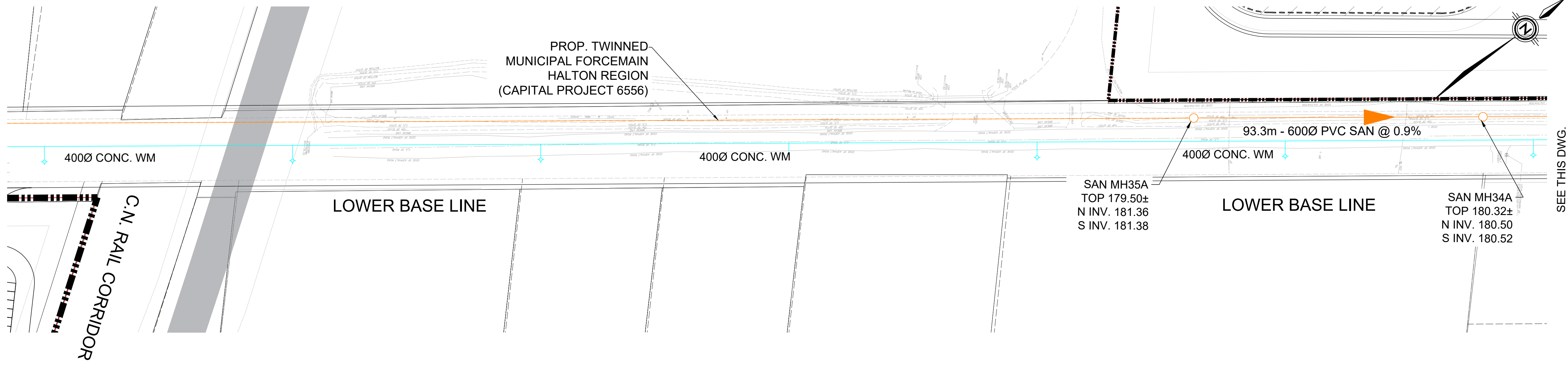




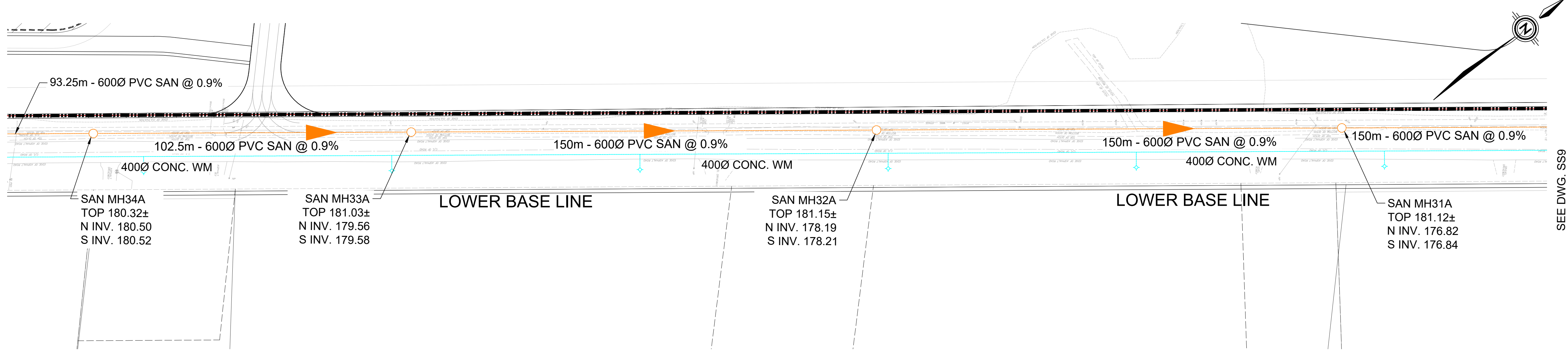


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- LEGEND**
- EX. WATERMAIN
  - EX. SANITARY SEWER
  - EX. STORM SEWER
  - PROP. WATERMAIN
  - PROP. SANITARY SEWER
  - PROP. STORM SEWER
  - PROP. MUNICIPAL WATERMAIN
  - PROP. MUNICIPAL SANITARY SEWER
  - PROP. MUNICIPAL FORCEMAIN
  - PROP. VALVE AND BOX
  - PROP. HYDRANT AND VALVE
  - LIMIT OF PROPERTY



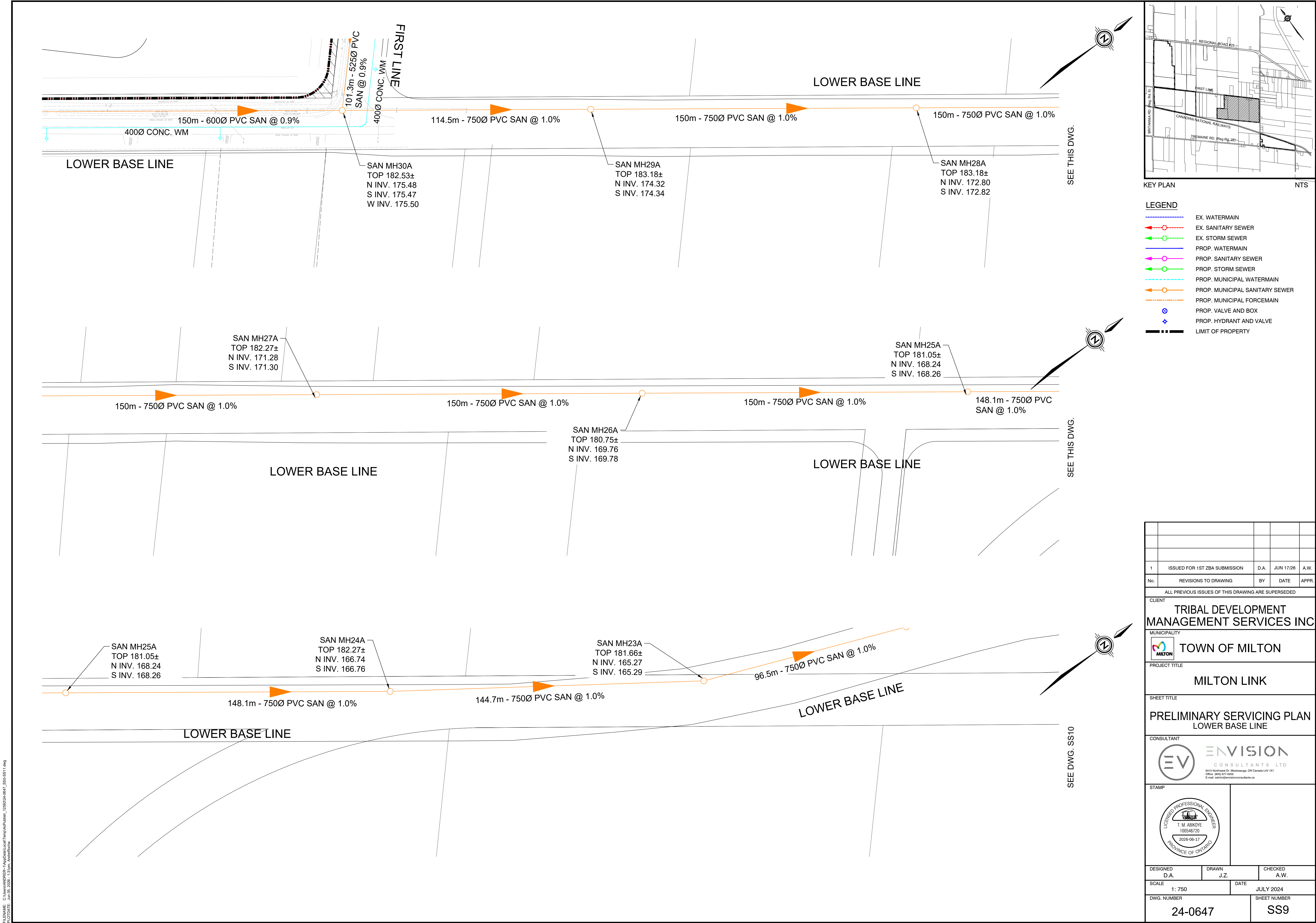
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| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                                               |                               |                   |           |                     |  |
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| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                                                    |                               |                   |           |                     |  |
| MUNICIPALITY                                                                                                                                                                                                                                                     |                               |                   |           |                     |  |
| TOWN OF MILTON                                                                                                                                                                                                                                                   |                               |                   |           |                     |  |
| PROJECT TITLE                                                                                                                                                                                                                                                    |                               |                   |           |                     |  |
| MILTON LINK                                                                                                                                                                                                                                                      |                               |                   |           |                     |  |
| SHEET TITLE                                                                                                                                                                                                                                                      |                               |                   |           |                     |  |
| PRELIMINARY SERVICING PLAN<br>LOWER BASE LINE                                                                                                                                                                                                                    |                               |                   |           |                     |  |
| CONSULTANT                                                                                                                                                                                                                                                       |                               |                   |           |                     |  |
| <div><div>ENVISION<br/>CONSULTANTS LTD<br/>6415 Northview Dr. Mississauga, ON Canada L4V 1X1<br/>Office (905) 677-0202<br/>E-mail: sales@envisionconsultants.ca</div></div> |                               |                   |           |                     |  |
| STAMP                                                                                                                                                                                                                                                            |                               |                   |           |                     |  |
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| DESIGNED<br>D.A.                                                                                                                                                                                                                                                 |                               | DRAWN<br>J.Z.     |           | CHECKED<br>A.W.     |  |
| SCALE<br>1: 750                                                                                                                                                                                                                                                  |                               | DATE<br>JULY 2024 |           |                     |  |
| DWG. NUMBER<br>24-0647                                                                                                                                                                                                                                           |                               |                   |           | SHEET NUMBER<br>SS8 |  |



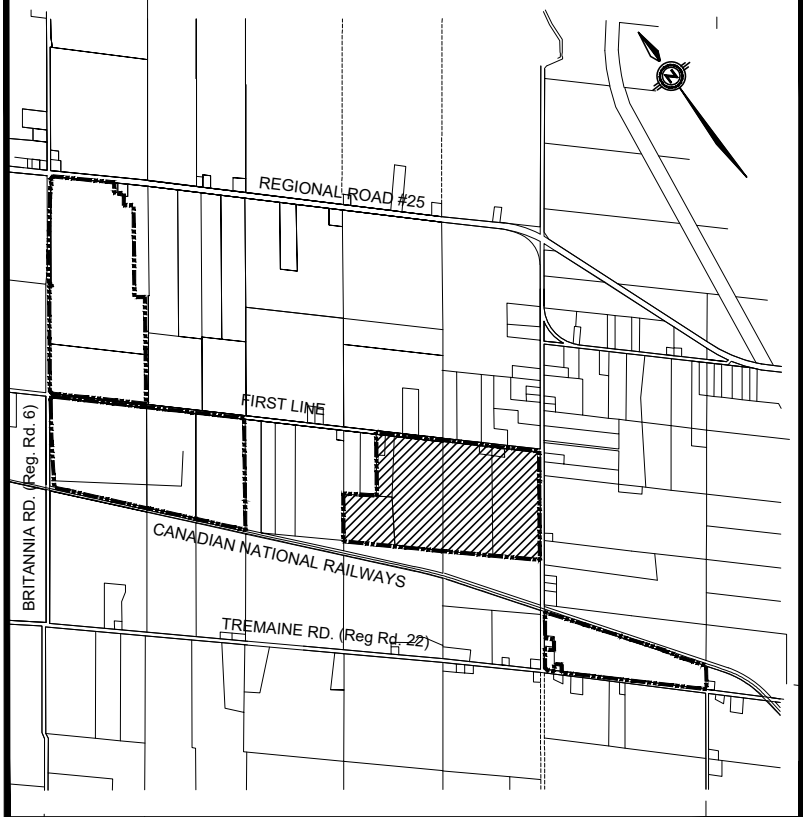
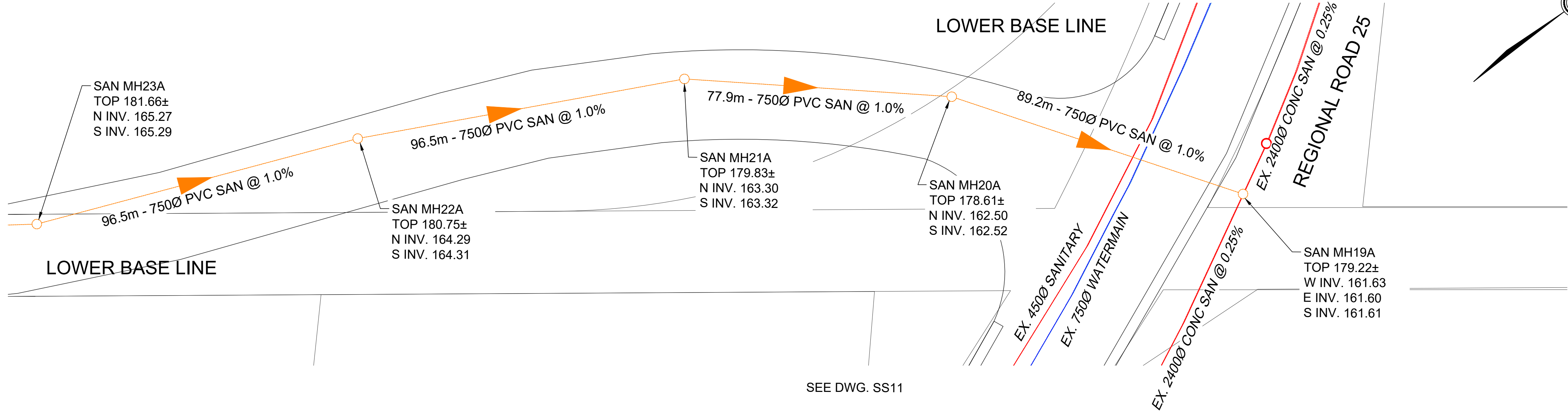


| LEGEND |                                |
|--------|--------------------------------|
|        | EX. WATERMAIN                  |
|        | EX. SANITARY SEWER             |
|        | EX. STORM SEWER                |
|        | PROP. WATERMAIN                |
|        | PROP. SANITARY SEWER           |
|        | PROP. STORM SEWER              |
|        | PROP. MUNICIPAL WATERMAIN      |
|        | PROP. MUNICIPAL SANITARY SEWER |
|        | PROP. MUNICIPAL FORCEMAIN      |
|        | PROP. VALVE AND BOX            |
|        | PROP. HYDRANT AND VALVE        |
|        | LIMIT OF PROPERTY              |

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| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                       |                               |                   |      |                     |       |
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| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                            |                               |                   |      |                     |       |
| MUNICIPALITY                                                                                                                                                                                                                             |                               |                   |      |                     |       |
|  TOWN OF MILTON                                                                                                                                     |                               |                   |      |                     |       |
| PROJECT TITLE                                                                                                                                                                                                                            |                               |                   |      |                     |       |
| MILTON LINK                                                                                                                                                                                                                              |                               |                   |      |                     |       |
| SHEET TITLE                                                                                                                                                                                                                              |                               |                   |      |                     |       |
| PRELIMINARY SERVICING PLAN<br>LOWER BASE LINE                                                                                                                                                                                            |                               |                   |      |                     |       |
| CONSULTANT                                                                                                                                                                                                                               |                               |                   |      |                     |       |
|  ENVISION<br>CONSULTANTS LTD<br>6415 Northwood Dr. Mississauga, ON Canada L4Y 1X1<br>Office: (905) 677-0202<br>E-mail: admin@envisionconsultants.ca |                               |                   |      |                     |       |
| STAMP                                                                                                                                                                                                                                    |                               |                   |      |                     |       |
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| DESIGNED<br>D.A.                                                                                                                                                                                                                         |                               | DRAWN<br>J.Z.     |      | CHECKED<br>A.W.     |       |
| SCALE<br>1: 750                                                                                                                                                                                                                          |                               | DATE<br>JULY 2024 |      | SHEET NUMBER<br>SS9 |       |
| DWG. NUMBER<br>24-0647                                                                                                                                                                                                                   |                               |                   |      |                     |       |

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KEY PLAN NTS

| LEGEND |                                |
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|        | EX. WATERMAIN                  |
|        | EX. SANITARY SEWER             |
|        | EX. STORM SEWER                |
|        | PROP. WATERMAIN                |
|        | PROP. SANITARY SEWER           |
|        | PROP. STORM SEWER              |
|        | PROP. MUNICIPAL WATERMAIN      |
|        | PROP. MUNICIPAL SANITARY SEWER |
|        | PROP. MUNICIPAL FORCEMAIN      |
|        | PROP. VALVE AND BOX            |
|        | PROP. HYDRANT AND VALVE        |
|        | LIMIT OF PROPERTY              |

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| ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED                                                                                                                                                                                         |                               |                      |           |                 |  |
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| TRIBAL DEVELOPMENT<br>MANAGEMENT SERVICES INC                                                                                                                                                                                              |                               |                      |           |                 |  |
| MUNICIPALITY                                                                                                                                                                                                                               |                               |                      |           |                 |  |
|  TOWN OF MILTON                                                                                                                                       |                               |                      |           |                 |  |
| PROJECT TITLE                                                                                                                                                                                                                              |                               |                      |           |                 |  |
| MILTON LINK                                                                                                                                                                                                                                |                               |                      |           |                 |  |
| SHEET TITLE                                                                                                                                                                                                                                |                               |                      |           |                 |  |
| PRELIMINARY SERVICING PLAN<br>LOWER BASE LINE                                                                                                                                                                                              |                               |                      |           |                 |  |
| CONSULTANT                                                                                                                                                                                                                                 |                               |                      |           |                 |  |
| <br>ENVISION<br>CONSULTANTS LTD<br>6415 Northwood Dr. Mississauga, ON Canada L4V 1X1<br>Office (905) 677-0202<br>E-mail: admin@envisionconsultants.ca |                               |                      |           |                 |  |
| STAMP                                                                                                                                                                                                                                      |                               |                      |           |                 |  |
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| DESIGNED<br>D.A.                                                                                                                                                                                                                           |                               | DRAWN<br>J.Z.        |           | CHECKED<br>A.W. |  |
| SCALE<br>1: 750                                                                                                                                                                                                                            |                               | DATE<br>JULY 2024    |           |                 |  |
| DWG. NUMBER<br>24-0647                                                                                                                                                                                                                     |                               | SHEET NUMBER<br>SS10 |           |                 |  |



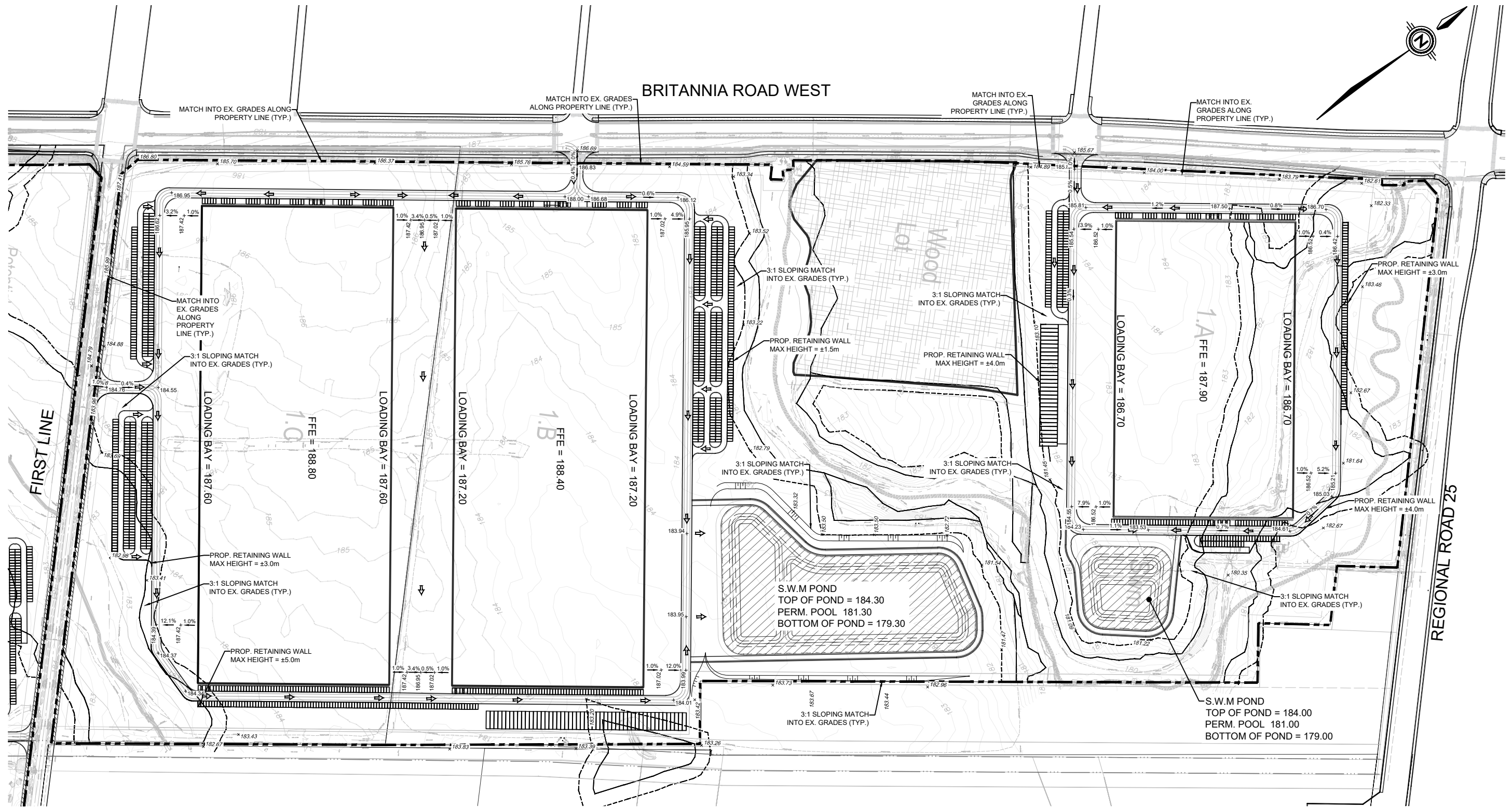




## **APPENDIX E:**

### *Conceptual Grading Figures*





## LEGEND

|  |                   |
|--|-------------------|
|  | LIMIT OF PROPERTY |
|  | EX. ELEVATION     |
|  | PROP. ELEVATION   |
|  | PROP. GRADE       |
|  | EX. CONTOUR       |
|  | PROP. SLOPING     |

CLIENT  
TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

TITLE  
MILTON LINK

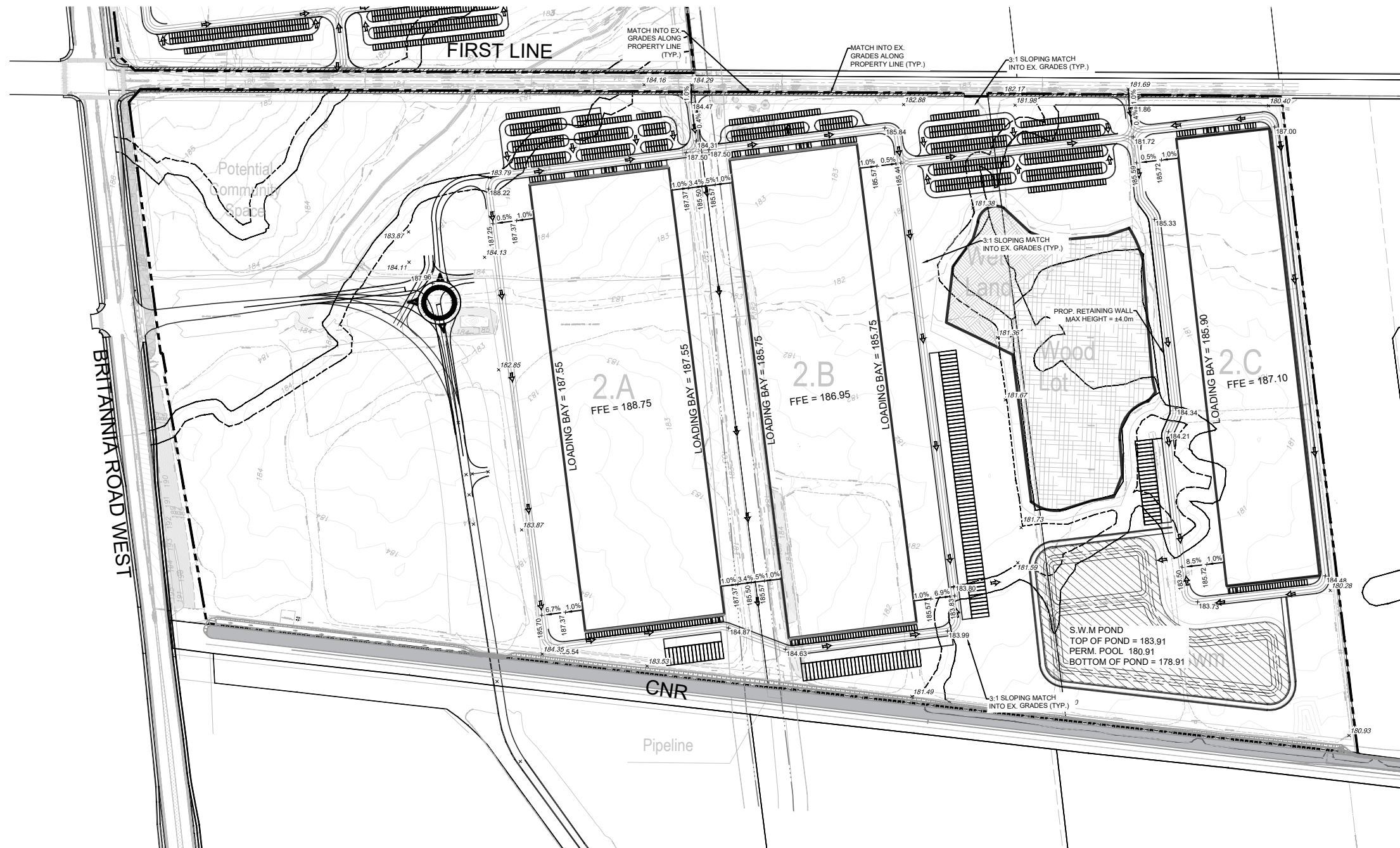
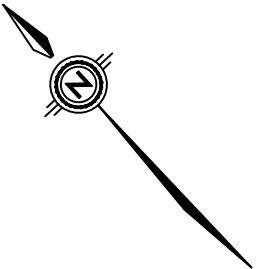
# CONCEPTUAL GRADING PLAN PHASE 1



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
| Checked | D.A.     | Drawn      | J.Z.    |
| Date    | JUN 2026 | Proj. No.  | 24-0647 |
| Scale   | 1: 4 000 | Figure No. | 11a     |





## LEGEND

|  |                   |
|--|-------------------|
|  | LIMIT OF PROPERTY |
|  | EX. ELEVATION     |
|  | PROP. ELEVATION   |
|  | PROP. GRADE       |
|  | EX. CONTOUR       |
|  | PROP. SLOPING     |

CLIENT  
TRIBAL DEVELOPMENT MANAGEMENT SERVICES INC.

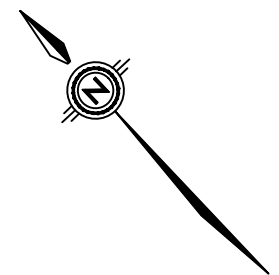
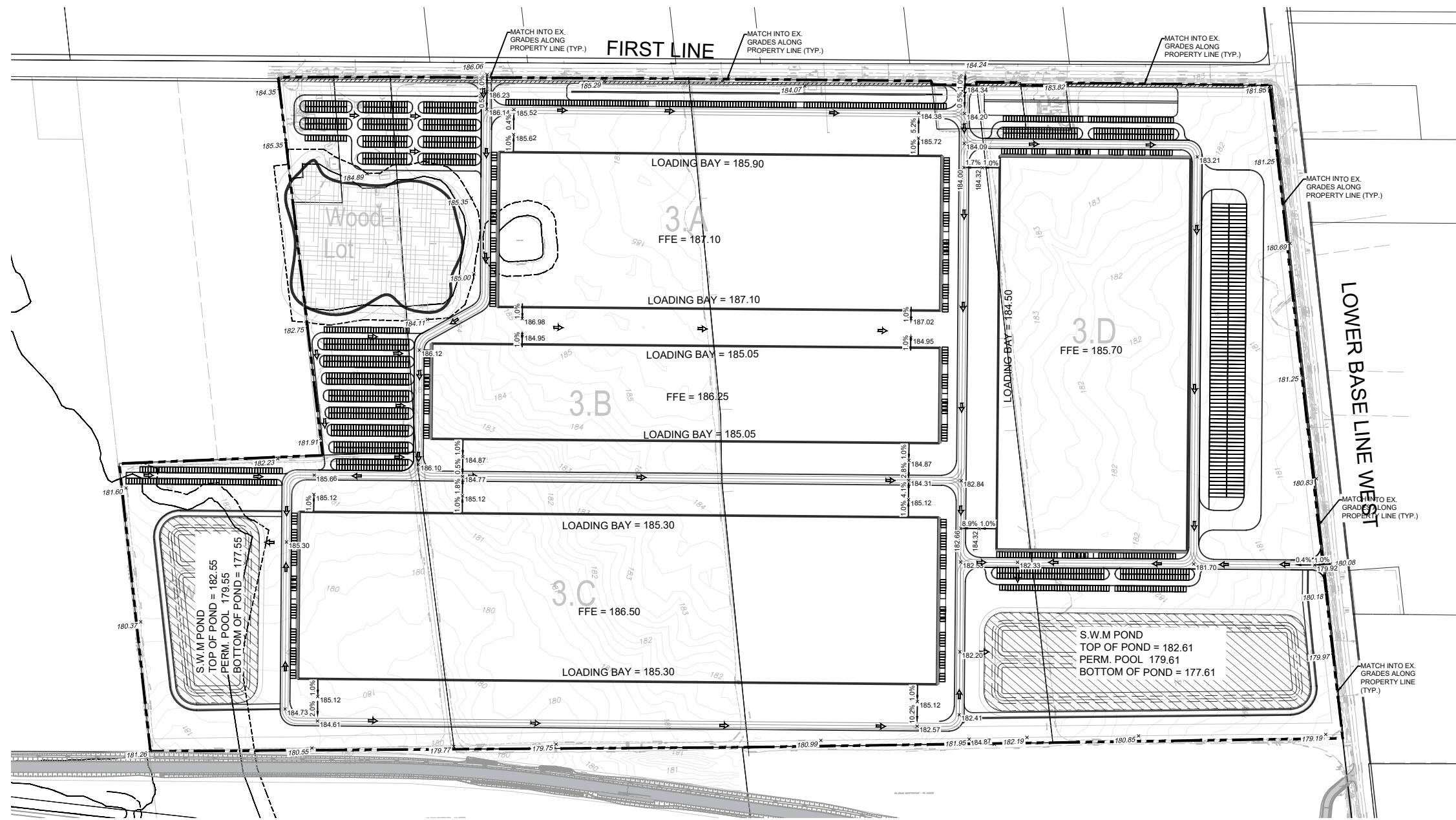
TITLE  
MILTON LINK

## CONCEPTUAL GRADING PLAN PHASE 2



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
| Checked | D.A.     | Drawn      | J.Z.    |
| Date    | JUN 2026 | Proj. No.  | 24-0647 |
| Scale   | 1: 5 000 | Figure No. | 11b     |



## LEGEND

|  |                   |
|--|-------------------|
|  | LIMIT OF PROPERTY |
|  | EX. ELEVATION     |
|  | PROP. ELEVATION   |
|  | PROP. GRADE       |
|  | EX. CONTOUR       |
|  | PROP. SLOPING     |

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TITLE  
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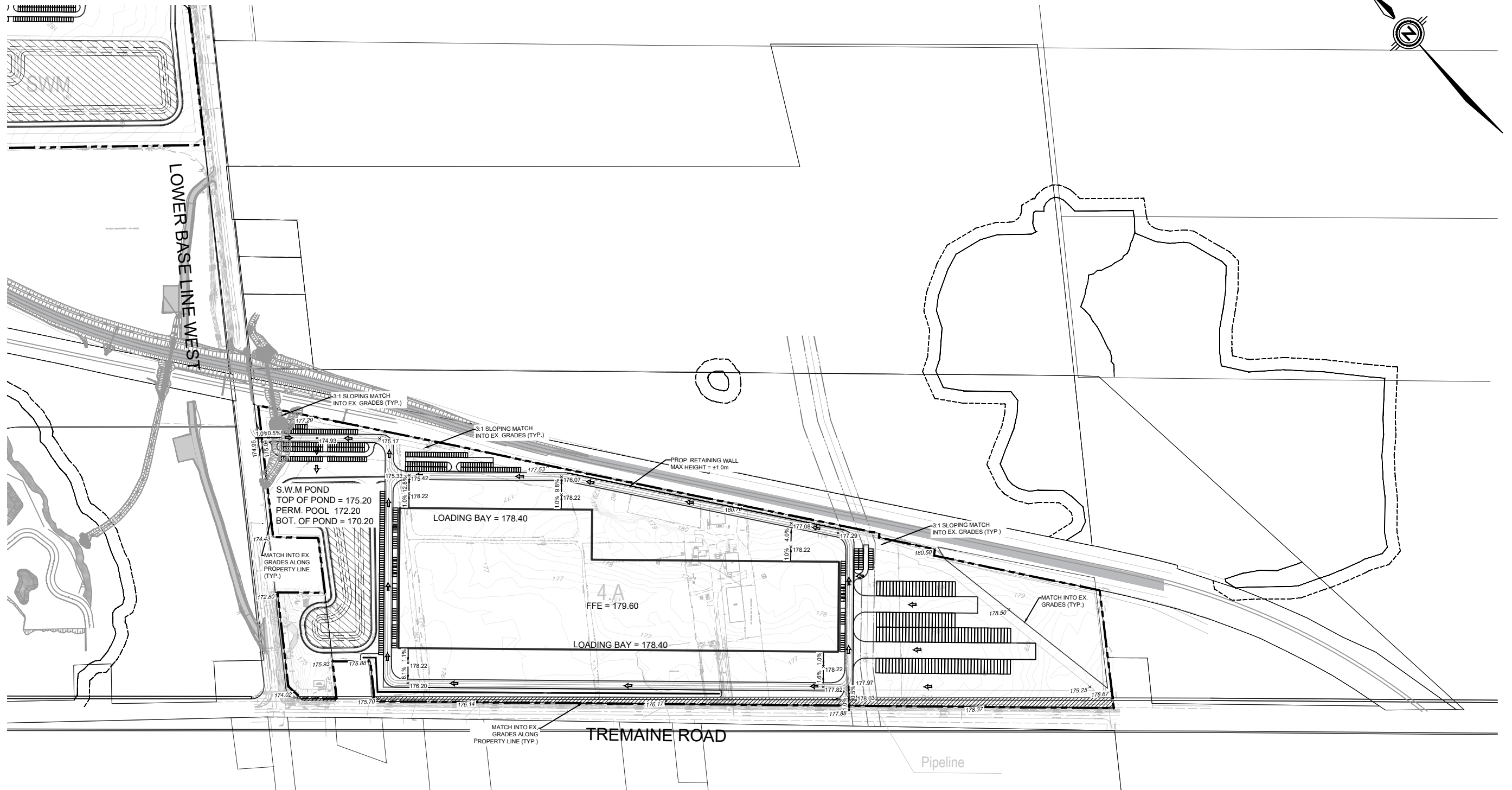
# CONCEPTUAL GRADING PLAN PHASE 3



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
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| Scale   | 1: 5 000 | Figure No. | 11c     |





## LEGEND

|  |                   |
|--|-------------------|
|  | LIMIT OF PROPERTY |
|  | EX. ELEVATION     |
|  | PROP. ELEVATION   |
|  | PROP. GRADE       |
|  | EX. CONTOUR       |
|  | PROP. SLOPING     |

CLIENT  
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TITLE  
MILTON LINK

## CONCEPTUAL GRADING PLAN PHASE 4



6415 Northwest Dr.  
Mississauga, ON Canada  
L4V 1X1  
Office (905) 677-0202  
E-mail admin@envisionconsultants.ca

|         |          |            |         |
|---------|----------|------------|---------|
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| Date    | JUN 2026 | Proj. No.  | 24-0647 |
| Scale   | 1: 5 000 | Figure No. | 11d     |