

Soil and Groundwater Contamination

The Project Footprint is situated in a high-density urban environment with significant commercial and industrial history, which suggests a greater possibility of encountering soil and groundwater contamination during construction of the Project.

According to the Limited Phase I Environmental Site Assessment (AECOM 2020c), the Project Footprint comprises a mix of residential, commercial, industrial, and institutional land uses from 1894 to the present day. The Project Footprint also includes the current Canadian National Railway and associated yards that date back to at least 1894, that were formerly named the Grand Trunk Railway G.W. Division.

During the Limited Phase I Environmental Site Assessment (AECOM 2020c), over 1,161 properties were evaluated in a study area roughly equivalent to the Ontario Line West Project Footprint, with approximately 25% of properties given a high-risk potential for soil and ground water contamination, and approximately 25% were designated as medium risk properties. The remaining properties were deemed to be low-risk or have a minimal risk rating.

A high-risk rating was given to properties that were considered enhanced investigation properties as defined by O. Reg. 153/04, i.e., property that is used, or has ever been used, in whole or in part for an industrial use or the following commercial uses: automotive garage, a bulk liquid dispensing facility, including a gasoline outlet, or for the operation of dry-cleaning equipment. Other properties that were considered high risk included if one or a combination of the following occurred: on-site spills, monitoring wells observed, the presence of underground storage tanks, above ground storage tanks, railways, and landfills.

A medium risk rating was given to properties that may possess high risk activities but do not show evidence of on-going environmental concern such as roadways, parking lots, driveways, private lane ways and highways. These types of properties were considered to have a medium risk rating due to the moderate probability of contamination occurring as a result of their historical or current land use. Additionally, a property maybe ranked as medium risk if there were light manufacturing activities on site or the history of a commercial property was indeterminate.

A low-risk rating was given to properties if in the past or present it may possess potentially contaminating materials if released into the environment but otherwise has no indication that contaminating activities have existed or are on-going. These properties are typically occupied by a commercial business such as a restaurant, bar, clothing store etc. If the current land use of the property is residential but the previous land use was commercial, then the property was considered low risk.

A minimal risk rating was given to properties that are currently and historically residential, parkland or undeveloped and are considered to have a minimal/negligible environmental risk.

In addition, during the Limited Phase I Environmental Site Assessment (AECOM 2020c) data search, a total of 57 Records of Site Condition (RSC) and five Certificates of Property Use (CPU) were identified. A RSC is registered for sites that were previously impacted with

contamination or have been risk assessed so that contamination left on-site has been mitigated against for human and ecological health risk effects. At the properties where an RSC has been completed using a Risk Assessment, a CPU will be held on land title that will outline engineered risk mitigation measures and soil management requirements that apply to the property.

4.4.3 Ontario Line South

Geological Setting

Physiography and Topography

The Project Footprint is situated in the Iroquois Plains physiographic region, as mapped by Chapman and Putnam (1984), and described in detail in **Section 4.4.2**. A physiographic map of the area is provided on **Figure 4-15**. The ground surface topography is shown on **Figure 4-16**. Elevations range from approximately 80 to 115 metres above sea level. The topography is highly affected by the extensive local development and is generally undulating in nature, with a general downward slope in the direction of the Don River and Lake Ontario.

Surficial Geology

The surficial geology is shown on **Figure 4-17**. The surficial geology is identified as Till Deposits, Coarse-textured glaciolacustrine Deposits, Coarse-texture Lacustrine Deposits, and Modern Alluvial Deposits.

Quaternary Geology

The Quaternary geology is shown on **Figure 4-18**. The Quaternary geology indicates that the primary surficial deposits are Glaciolacustrine Deposits (sand, gravelly sand, and gravel) and till with sandy silt to silt matrix.

Bedrock Geology

Bedrock geology is shown on **Figure 4-19**. Based on the Ontario Geological Survey regional mapping, the uppermost bedrock is composed of shale and limestone of the Georgian Bay Formation from the Upper Ordovician period (Armstrong, D.K. and Dodge, J.E.P. 2007). The Metropolitan Toronto Bedrock Contours map (Rogers et al. 1961) indicate the surface bedrock elevation ranges from approximately 61 to 76 metres above sea level.

Hydrogeological Setting

Hydrogeology

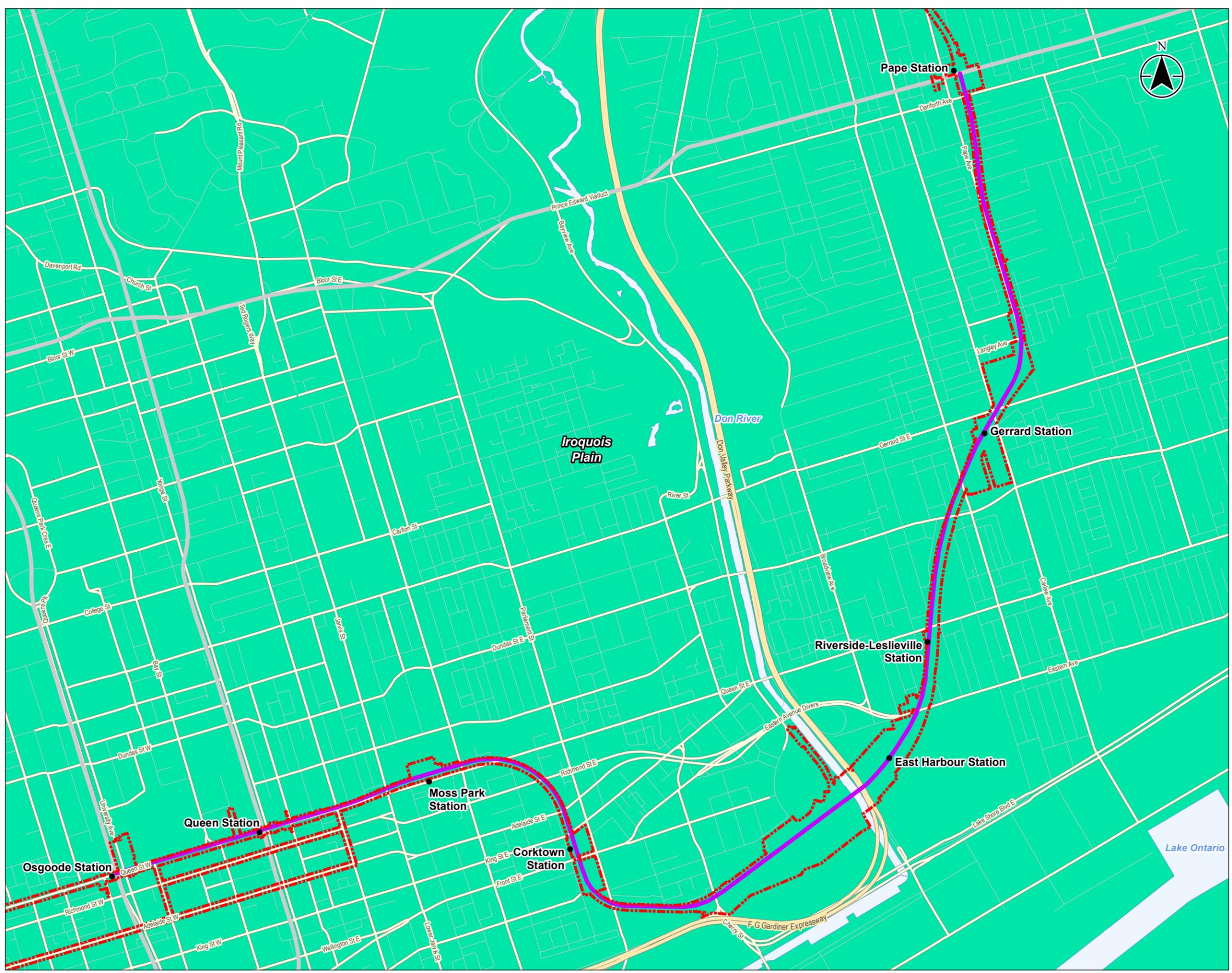
Where present, surficial aquifer units in the Project Footprint are typically comprised of coarse-textured unconsolidated (overburden) sand and gravelly sediments. Based on the Overburden Thickness map (Toronto and Region Source Protection Area 2015), and a typical cross-section along Don River Watershed (West Don River) provided by TRCA as part of the Don River Watershed Plan: Geology and Groundwater Resources – Report on Current Conditions (TRCA 2009) and a typical north-south cross-section along Yonge Street provided by TRCA as part of

the Conceptual Understanding Water Budget report (Puopolo, J. and Usher, S. 2007), the overburden thickness in the Project Footprint is less than approximately 30 metres, with thinner overburden deposits observed along the river valleys, and the southern portion of the Project Footprint.

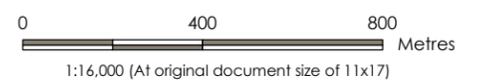
A review of the MECP water well records database indicates that the overburden geologic materials consist of primarily clayey silt, silty clay, silt, sand, sandy silt, and silty sand in localized areas. Bedrock was encountered at depths ranging from approximately 13.6 to 30.5 metres below ground surface.

Based on the TRCA (2009) cross-section along Don River Watershed (West Don River) and the cross-section along Yonge Street (Puopolo, J. and Usher, S. 2007), the following three (3) Hydrostratigraphic Units are present in the Project Footprint: Surficial Aquifer (Recent sediments – associated with the former Lake Iroquois shoreline deposits), potentially minor Oak Ridges Aquifer sediments along the Don River Valley, and Scarborough Aquifer Complex (organic-rich over silts and clays). In addition, the Project Footprint is at the approximate boundary of the mapped extent of the Thorncliffe Aquifer. It is unlikely that this unit exhibits significant thickness, if it is present at all in the Project Footprint.

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- Legend**
- Project Footprint
 - Station Location
 - Ontario Line South
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Waterbody
- Physiographic Region**
- 41. Iroquois Plain



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- Notes**
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 4. Physiography after Chapman and Putnam (2007). OGS MRD228 © Ministry of Energy, Northern Development and Mines, 2021.



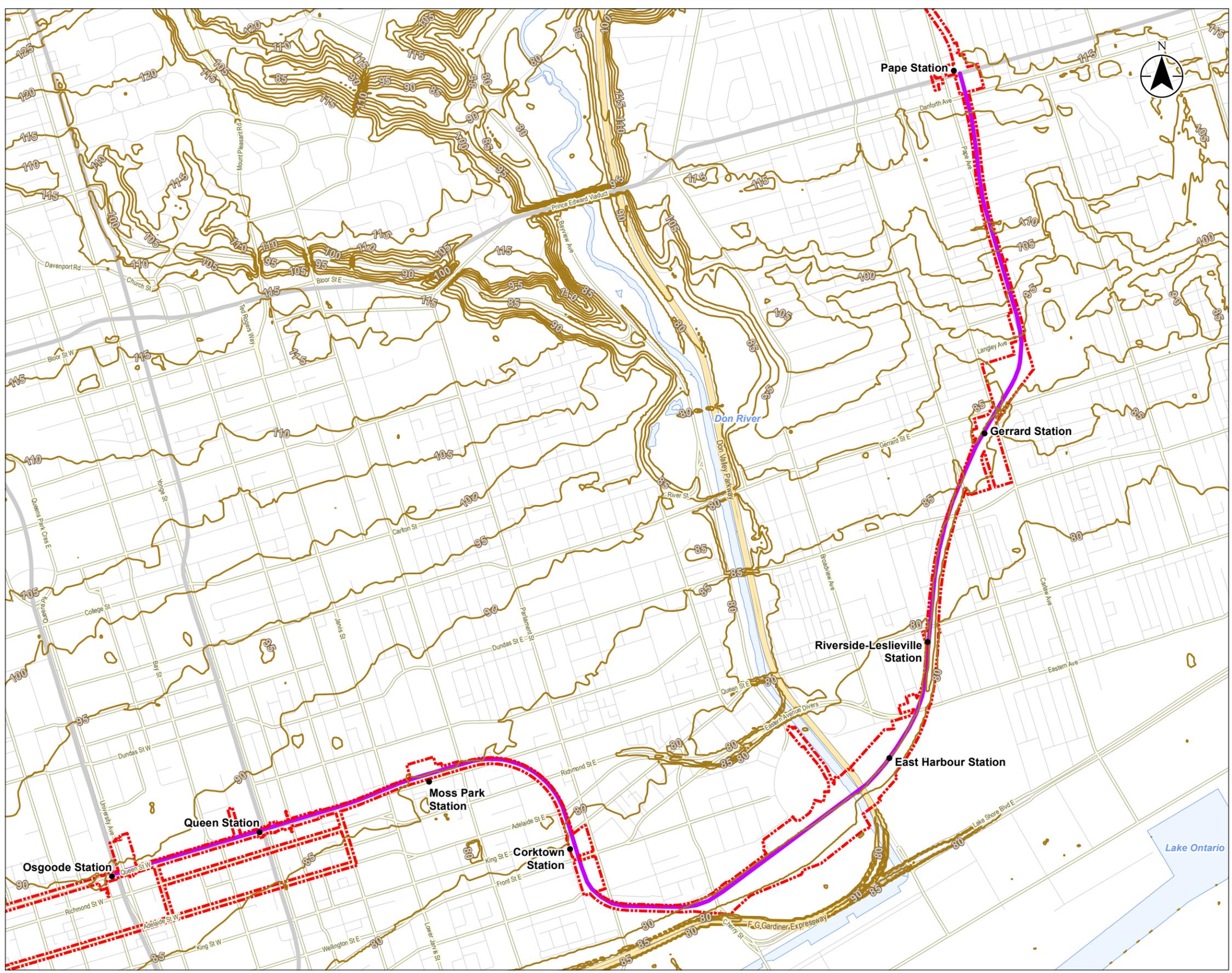
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Figure No. 4-15

Title: Physiography - Ontario Line South Section

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- Legend
- Project Footprint
 - Station Location
 - Ontario Line South
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Topographic Contour (5 metre)



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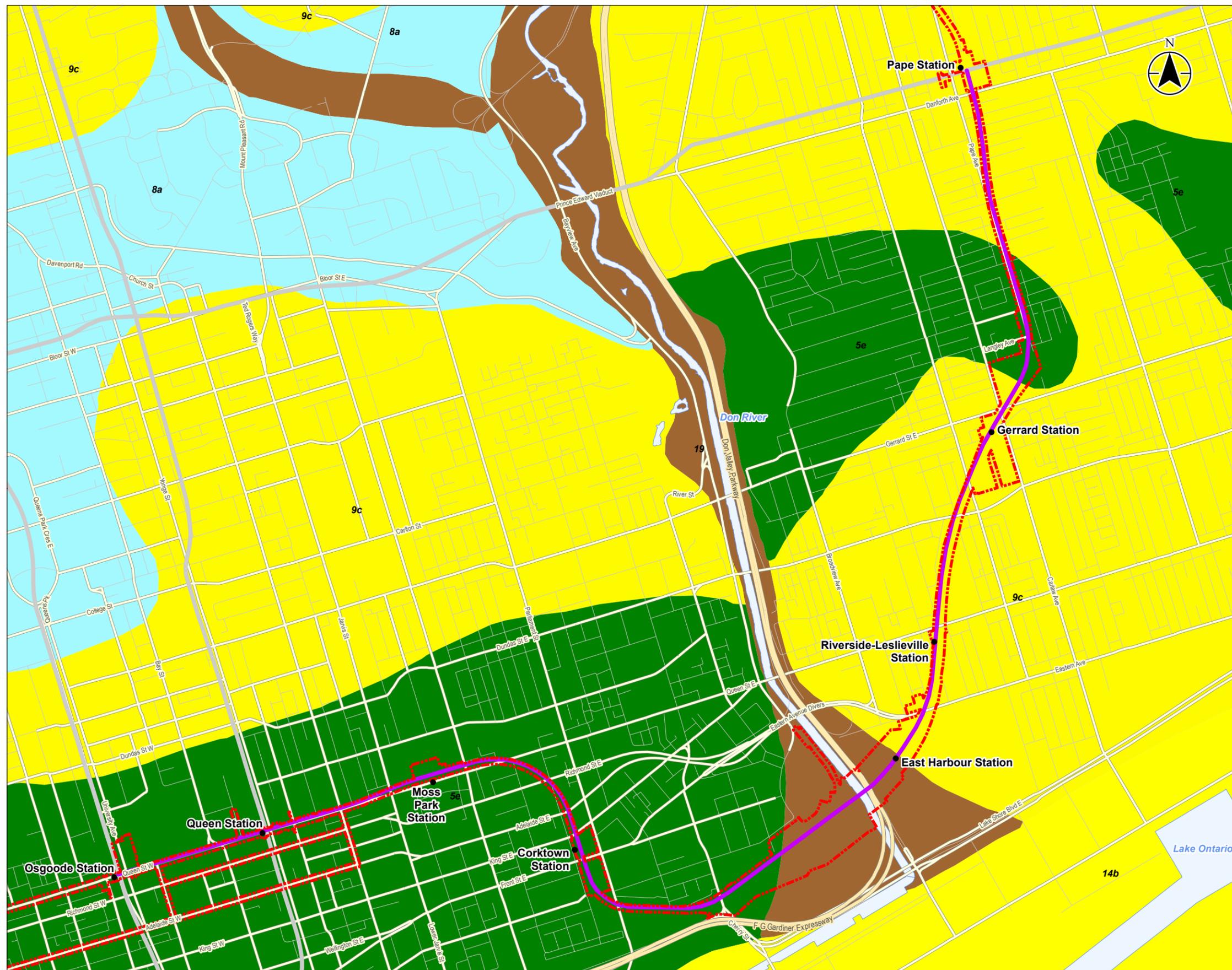
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 ONTARIO LINE TA

Figure No.
4-16

Title
**Topography and Drainage –
 Ontario Line South Section**

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Legend

- Project Footprint
- Station Location
- Ontario Line South
- Expressway / Highway
- Major Road
- Minor Road
- Existing Subway
- Waterbody
- Surficial Geology**
- 19: Modern alluvial deposits
- 14b: Coarse-textured lacustrine deposits (Littoral-foreshore deposits)
- 9c: Coarse-textured glaciolacustrine deposits (Foreshore-basinal deposits)
- 8a: Fine-textured glaciolacustrine deposits (Massive-well laminated)
- 5e: Undifferentiated older till and stratified sediment



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 4. Surficial geology produced by the Ontario Geological Survey 2003. Surficial geology of Southern Ontario; Ontario Geological Survey, MRD 128.



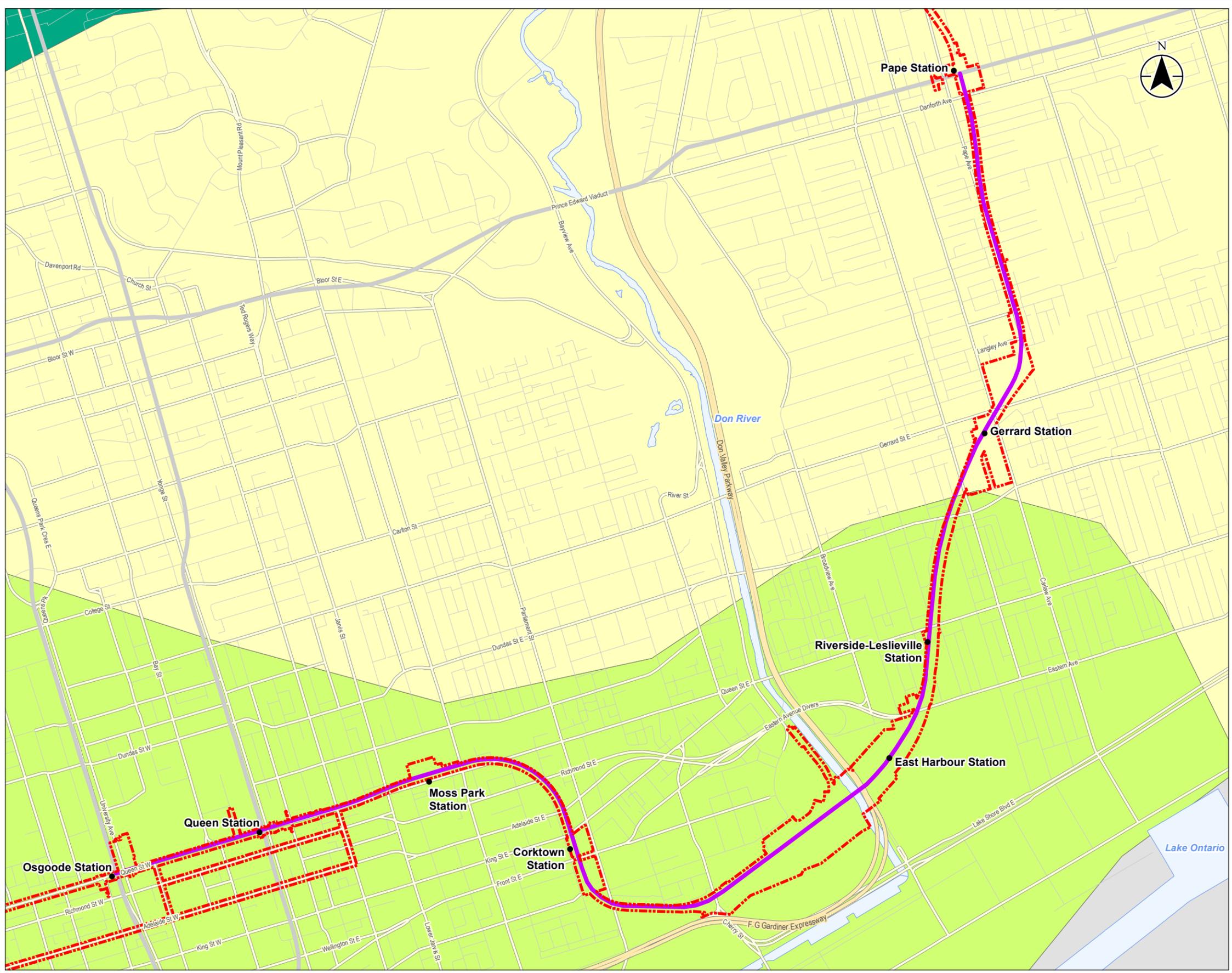
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Figure No.
4-17

Title
**Surficial Geology –
 Ontario Line South Section**

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- Legend**
- Project Footprint
 - Station Location
 - Ontario Line South
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
- Quaternary Geology**
- 30 : Lacustrine deposits : sand, gravelly sand and gravel, nearshore and beach deposits
 - 25 : Glaciolacustrine deposits : sand, gravelly sand and gravel, nearshore and beach deposits
 - 19 : Till : undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content
 - 17 : Halton Till : predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor



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 4. Quaternary geology produced by the Ontario Ministry of Energy 2011, Geology II EDS014.



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Figure No.
4-18

Title:
**Quaternary Geology –
 Ontario Line South Section**

Regional Groundwater Flow

Regional groundwater flow described in detail in **Section 4.4.2**. The surficial/shallow groundwater system in the Project Footprint is influenced by surface topography and likely flows to the south towards Lake Ontario.

Groundwater Resources

Source Water Protection

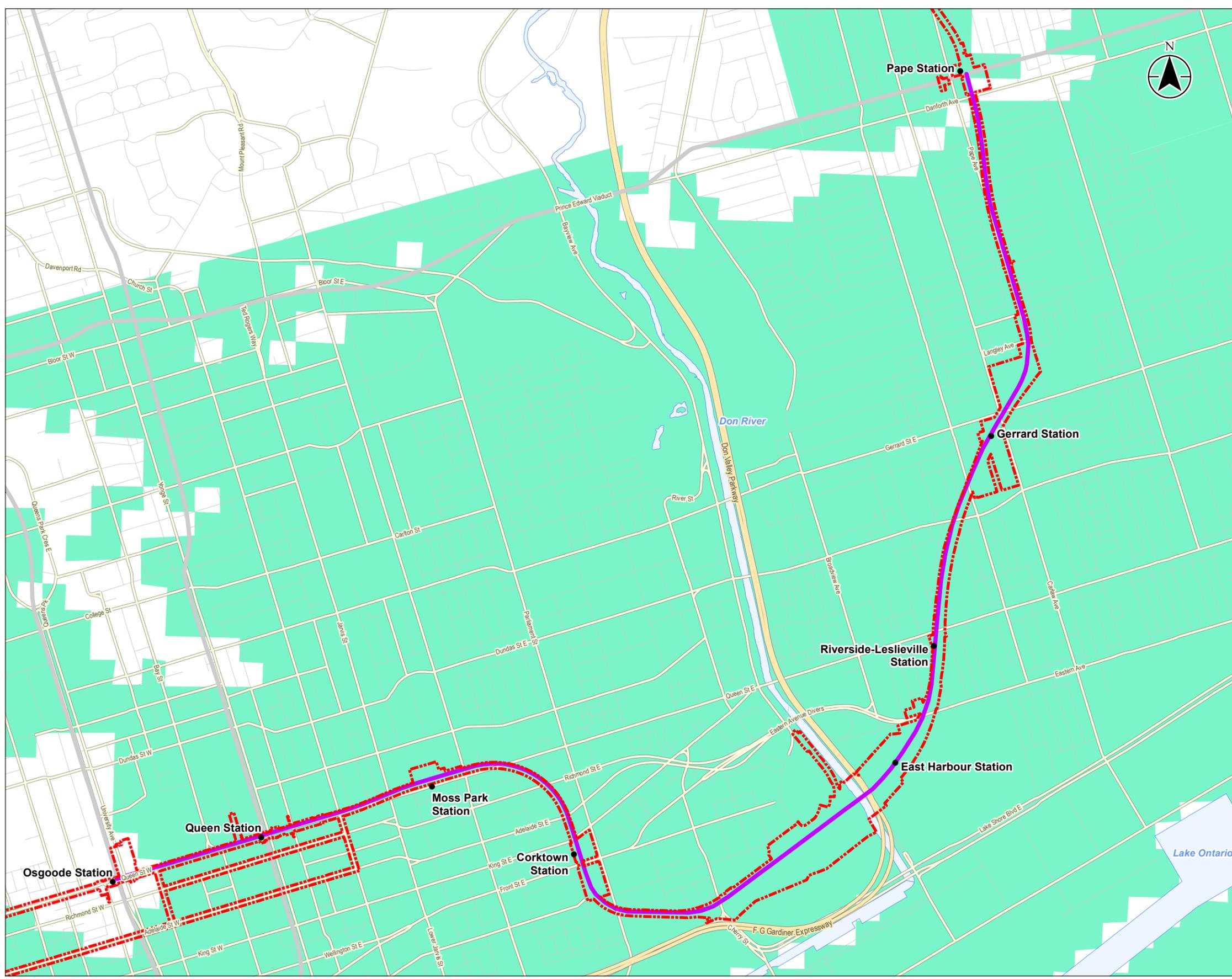
The Project Footprint is in the Toronto and Region Source Protection Area. The presence of source water areas/features is described below and shown on **Figure 4-20** and **Figure 4-21**. A summary of source water protection details is included in **Table 4-4** below.

Table 4-4. Source Water Protection Details: Ontario Line South Project Footprint

Source Water Protection Feature	Present	Source Protection Plan Policies	Legal Effect of Policy
Intake Protection Zone	Yes, Zone 3	No policies related to Intake Protection Zone-3 are specified in the Source Protection Plan	-
Highly Vulnerable Aquifer	Yes, Highly Vulnerable Aquifer Score of 6 partially overlaps with Project Footprint	Related Source Protection Plan policies: SAL-10, SAL-11, SAL-12, SAL-13, DNAP-3, OS-3	Listed policies include both legally binding and non-binding examples.
Event Based Area (for Stored/Transported Fuel/Oil Spill; Pipeline Fuel/Oil Spill; and Wastewater Treatment Plant/Sanitary Sewer)	Yes	Related Source Protection Plan policies: LO-G-1, LO-G-2, LO-G-3, LO-NGS-1, LO-SEW-1, LO-SEW-2, LO-PIPE-1, LO-FUEL-1, LO-FUEL-2	Listed policies include both legally binding and non-binding examples

Source: Source Water Protection Information Atlas (MECP 2020).

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- Legend**
- Project Footprint
 - Station Location
 - Ontario Line South
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Waterbody
 - Highly Vulnerable Aquifer



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 4. Highly Vulnerable Aquifer - Toronto Region Conservation Authority.



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Figure No.
4-21

Title
**Highly Vulnerable Aquifer –
 Ontario Line South Section**

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MECP Water Well Records

An inventory of local private water wells (i.e., domestic, commercial, industrial, etc.) was prepared by searching the MECP Water Well Information System database. Results are shown on **Figure 4-22**, along with the primary use of each well. A total of 1884 water well records were found, two of which were identified as private water supply wells (one domestic and one industrial).

As shown in **Table 4-5**, available well records indicate that 63% of known groundwater use is for monitoring and test hole purposes. Approximately 21% of the water well records did not specify the well use and therefore are classified as 'Unknown'. Approximately 16% of the water well records indicate that the well is abandoned, including other uses.

Table 4-5. MECP Water Well Records: Ontario Line South

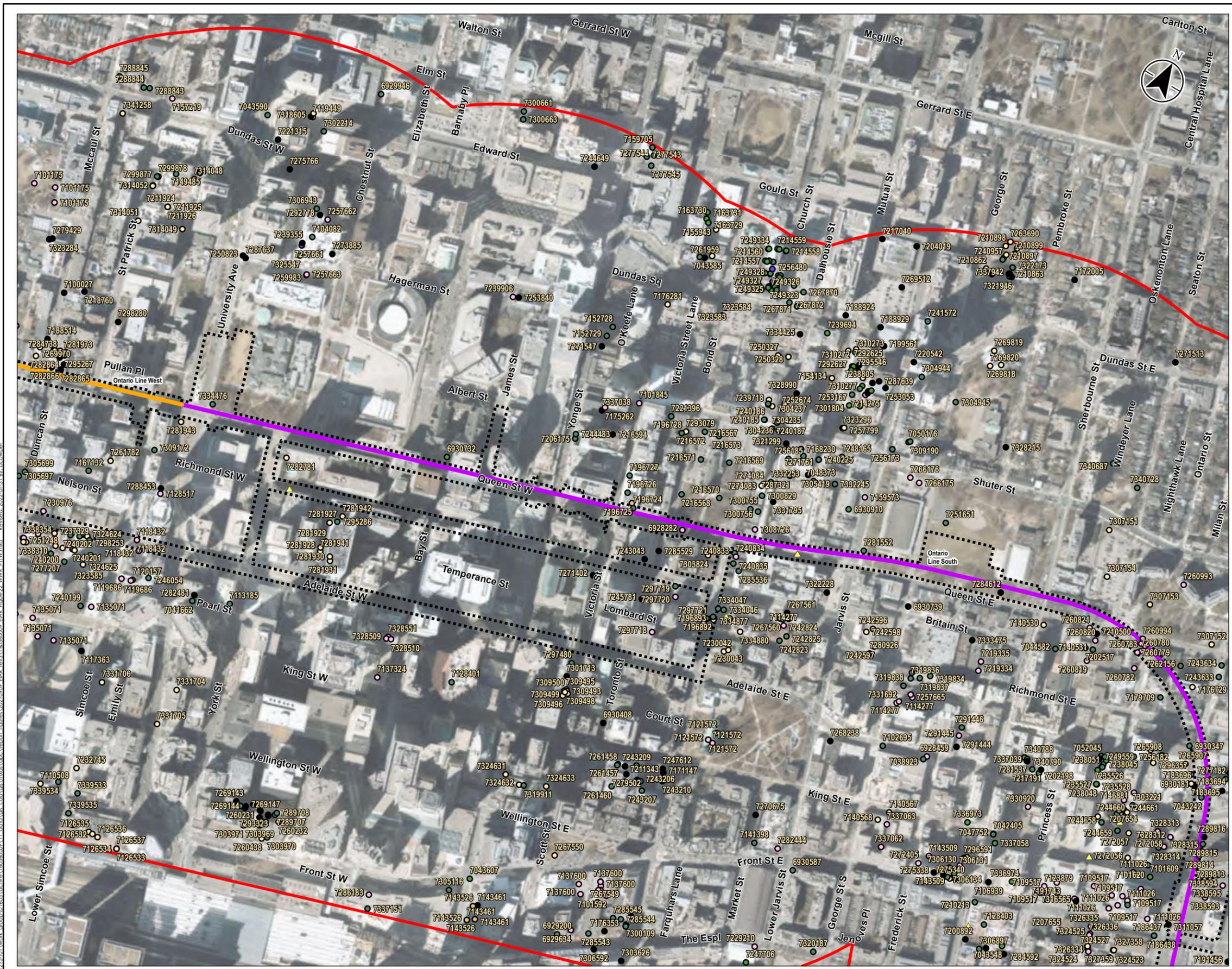
Primary Water Use	Numbers of Well Records	Well Depth (metres)
Dewatering/Monitoring and Test Hole	1190	0.3 to 70
Abandoned / Other	293	2.3 to 28.6
Unknown	399	3.1 to 15.2
Water supply	2	0 to 11.3

MECP Summary

A search of the MECP Permit to Take Water database returned 99 results in the 500-metre buffer around the Project Footprint; 73 of these results were expired and 26 are active records related to construction dewatering. A search of MECP Environmental Activity and Sector Registry database returned 70 results, with 28 identified for construction dewatering purposes.

Water Level Data

Forty-four MECP water well records reported a static water level. These reported water levels represent either the water table position or the potentiometric surface depending on whether a given well is installed in an unconfined or confined aquifer. MECP water well records do not provide sufficient information to confirm aquifer conditions. The static water level was reported on the identified well records ranged between 0.9 and 13.4 metres below ground surface.



- Legend
- Ontario Line West
 - Ontario Line South
 - Project Footprint
 - Project Footprint 500m Buffer
 - ▲ Environmental Activity and Sector Registry

- Permits to Take Water (PTTW)**
- ★ Dewatering Construction
- MECP Water Well Record, Primary Use**
- Abandoned Monitoring and Test Hole
 - Abandoned
 - Monitoring or Test Hole
 - Observation Wells
 - Other Status
 - Test Hole
 - Unknown



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Figure No.: 4-22-1

Title: Water Wells, PTTW and EASR - Ontario Line South

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 Revised: 2022-01-31 by: bccover



- Legend
- Ontario Line South
 - Project Footprint
 - Project Footprint 500m Buffer
 - ▲ Environmental Activity and Sector Registry

Permits to Take Water (PTTW)

- ★ Dewatering
- ★ Dewatering Construction
- ★ Industrial
- ★ Miscellaneous

MECP Water Well Record, Primary Use

- Abandoned
- Dewatering
- Monitoring or Test Hole
- Observation Wells
- Other Status
- Test Hole
- Unknown
- Water Supply



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Figure No.
4-22-3

Title
**Water Wells, PTTW and EASR -
 Ontario Line South**

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- Legend
- Ontario Line South
 - Project Footprint
 - Project Footprint 500m Buffer
 - ▲ Environmental Activity and Sector Registry
- MECP Water Well Record, Primary Use**
- Abandoned
 - Monitoring or Test Hole
 - Observation Wells
 - Recharge Well
 - Test Hole
 - Unknown



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Figure No.
4-22-5

Title
**Water Wells, PTW and EASR -
 Ontario Line South**

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Soil and Groundwater Contamination

The Project Footprint is situated in a high-density urban environment with significant commercial and industrial history which suggests a greater possibility of encountering soil and groundwater contamination during construction of the Project.

According to the Limited Phase I Environmental Site Assessment (AECOM 2020c), the Project Footprint comprises a mix of residential, commercial, industrial, and institutional land uses from 1894 to the present day. The Project Footprint also includes the current Canadian National Railway and associated yards that date back to at least 1894, that were formerly named the Grand Trunk Railway G.W. Division. The Grand Trunk Railway G.W. Division ran parallel to the south of The Esplanade roadway in 1894 and Lake Ontario Wharfs existed south of the location of The Grand Trunk Railway. In 1909, Canadian National Railway extended into some parts of the Lake Ontario wharf properties immediately east of George Street.

During the Limited Phase I Environmental Site Assessment (AECOM 2020c), over 2,647 properties were evaluated in a study area roughly equivalent to the Ontario Line South Project Footprint, with approximately 15 % of properties given a high-risk potential for soil and ground water contamination, and approximately 10% designated as medium risk properties. The remaining properties were deemed to be low-risk or have a minimal risk rating. The risk ratings used in the Limited Phase I Environmental Site Assessment (AECOM 2020c) are described previously in **Section 4.4.2**.

In addition, during the Limited Phase I Environmental Site Assessment (AECOM 2020c) data search, a total of 42 RSCs and seven CPUs were identified. At the properties where an RSC has been completed using a Risk Assessment, a CPU will be held on land title that will outline engineered risk mitigation measures and soil management requirements that will apply to the property.

4.4.4 Ontario Line North

Geological Setting

Physiography and Topography

The Project Footprint is situated in the South Slope and Iroquois Plain physiographic regions, as mapped by Chapman and Putnam (1984), and shown on **Figure 4-23**.

The Iroquois Plain covers a majority of the Project Footprint and is described in detail in **Section 4.4.2**. A small portion in the north lies in the South Slope physiographic region, which is characterized by a smooth, faintly drumlinized clay till plain. Ground surface elevations range from about 280 metres above sea level where the South Slope intersects the Oak Ridges Moraine to about 80 metres above sea level near the Lake Ontario shoreline.

The ground surface topography is shown on **Figure 4-24**. Elevations range from approximately 85 to 140 metres above sea level. The topography is highly affected by the extensive local development and is generally undulating in nature, with a general downward slope in the direction of the Don River and Don River West Branch.

Surficial Geology

The surficial geology is shown on **Figure 4-25**. The surficial geology is identified as Till Deposits, Coarse-textured glaciolacustrine Deposits, and Modern Alluvial Deposits.

Quaternary Geology

The Quaternary geology is shown on **Figure 4-26**. The Quaternary geology indicates that the primary surficial deposits are Glaciolacustrine Deposits (sand, gravelly sand, and gravel) and Halton Till with silt to silty clay matrix.

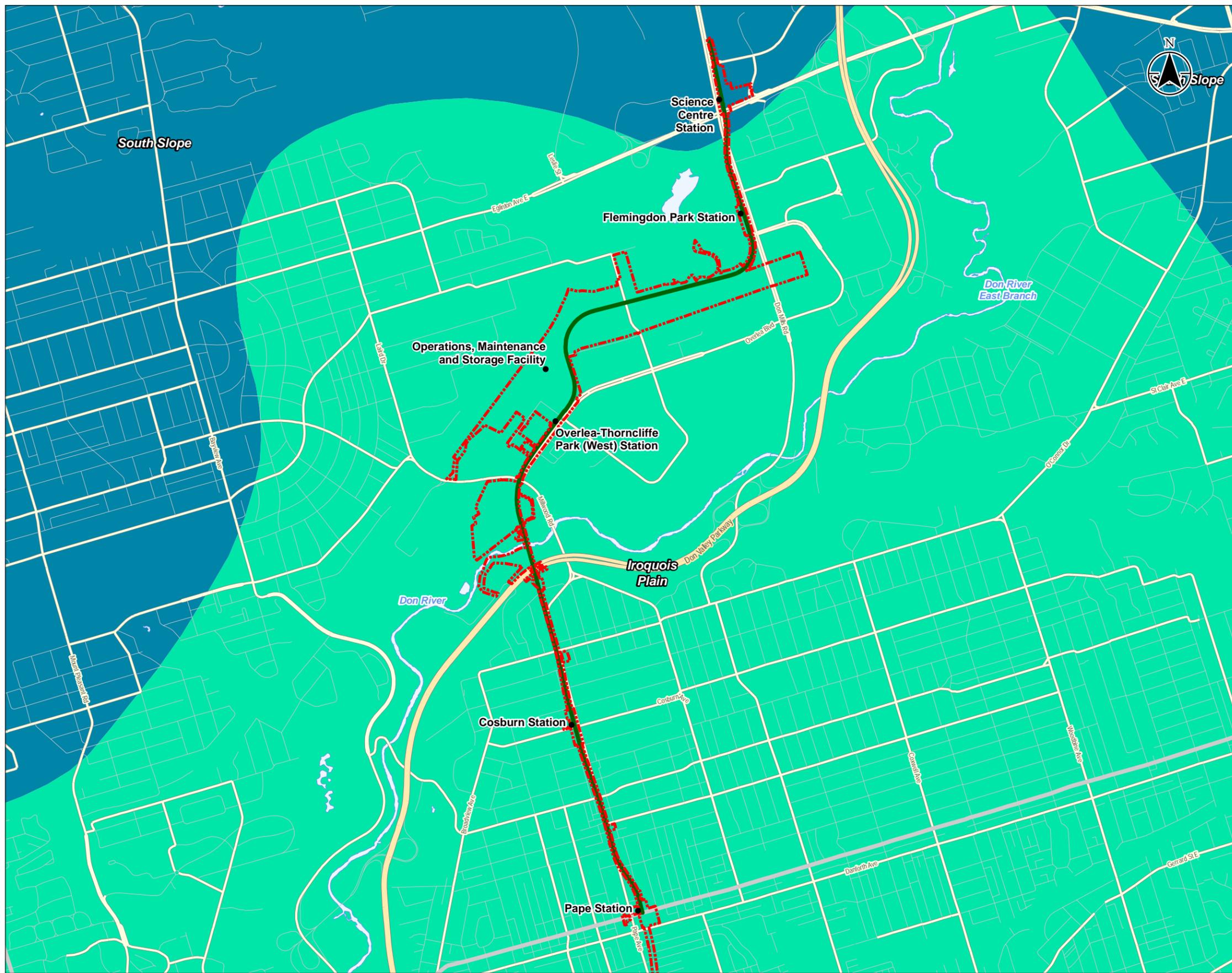
Bedrock Geology

Bedrock geology is shown on **Figure 4-27**. Based on the Ontario Geological Survey regional mapping, the uppermost bedrock is composed of shale and limestone of the Georgian Bay Formation from the Upper Ordovician period (Armstrong, D.K. and Dodge, J.E.P. 2007). The Metropolitan Toronto Bedrock Contours map (Rogers et al. 1961) indicate the surface bedrock elevation from approximately 61 to 84 metres above sea level.

Hydrogeological Setting

Where present, surficial aquifer units in the Project Footprint are typically comprised of coarse-textured unconsolidated (overburden) sand and gravelly sediments. Based on the Overburden Thickness map (Toronto and Region Source Protection Area 2015) and a typical cross-section along Don River Watershed (West Don River) provided by TRCA as part of the Don River Watershed Plan: Geology and Groundwater Resources – Report on Current Conditions (TRCA 2009), the overburden thickness in the Project Footprint is approximately 20 to 90 metres, with thinner overburden deposits observed along the river valleys, and the southern portion of the Project Footprint.

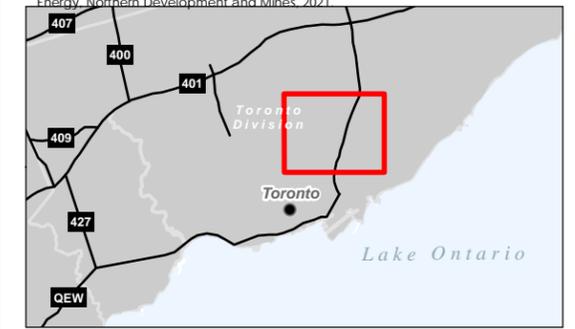
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- Legend**
- Project Footprint
 - Station Location
 - Ontario Line North
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Waterbody
- Physiographic Region**
- 32. South Slope
 - 41. Iroquois Plain



- Notes**
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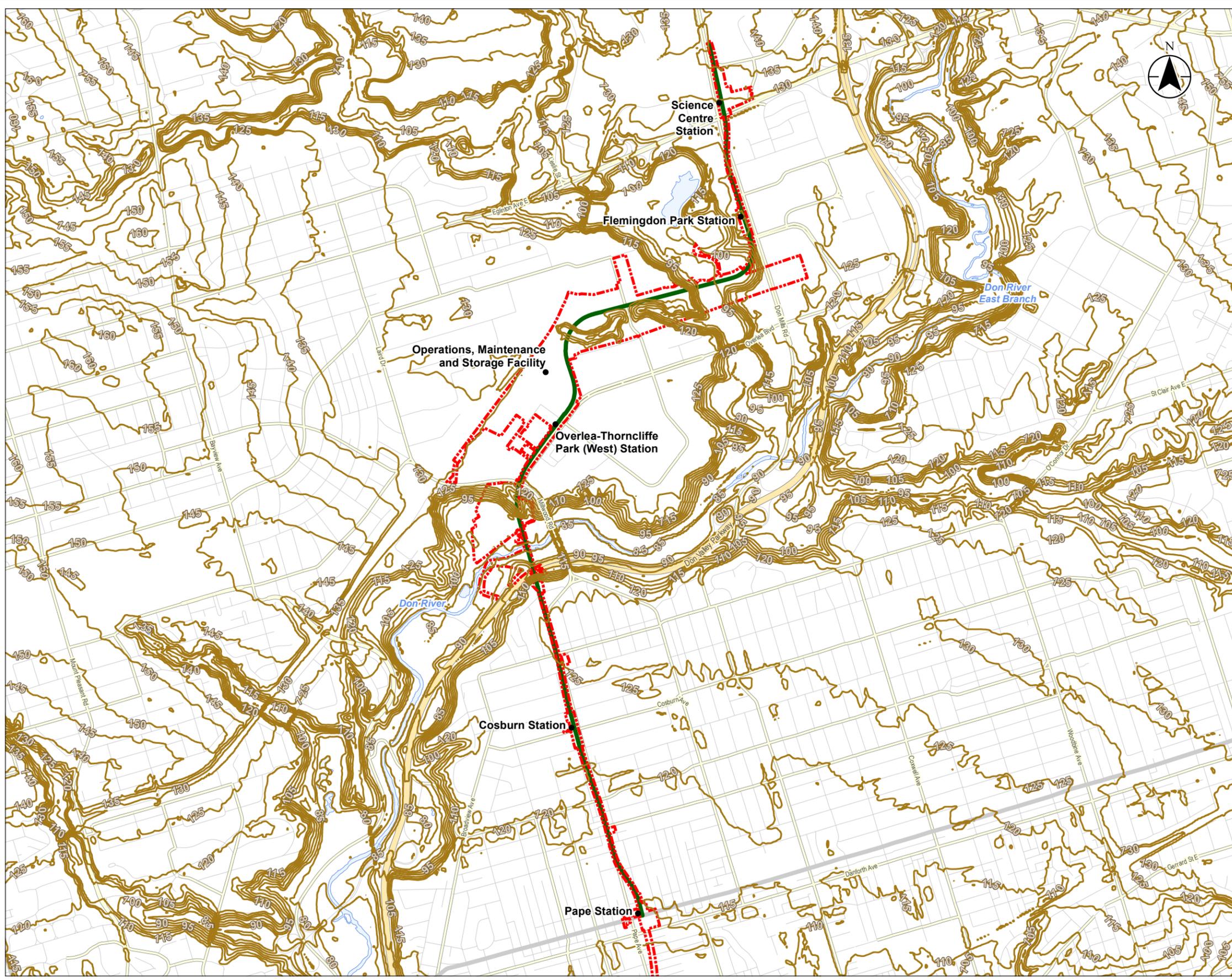
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Figure No.
4-23

Title
**Physiography –
 Ontario Line North Section and Operations,
 Maintenance and Storage Facility**

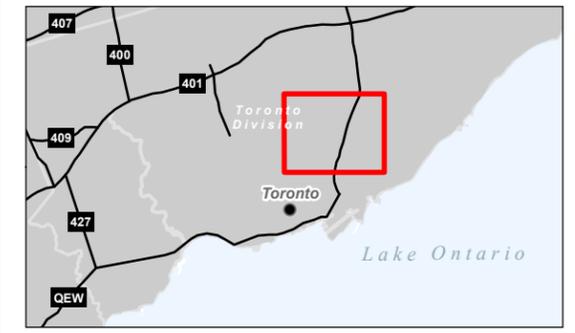
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- Legend
- Project Footprint
 - Station Location
 - Ontario Line North
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Topographic Contour (5 metre)



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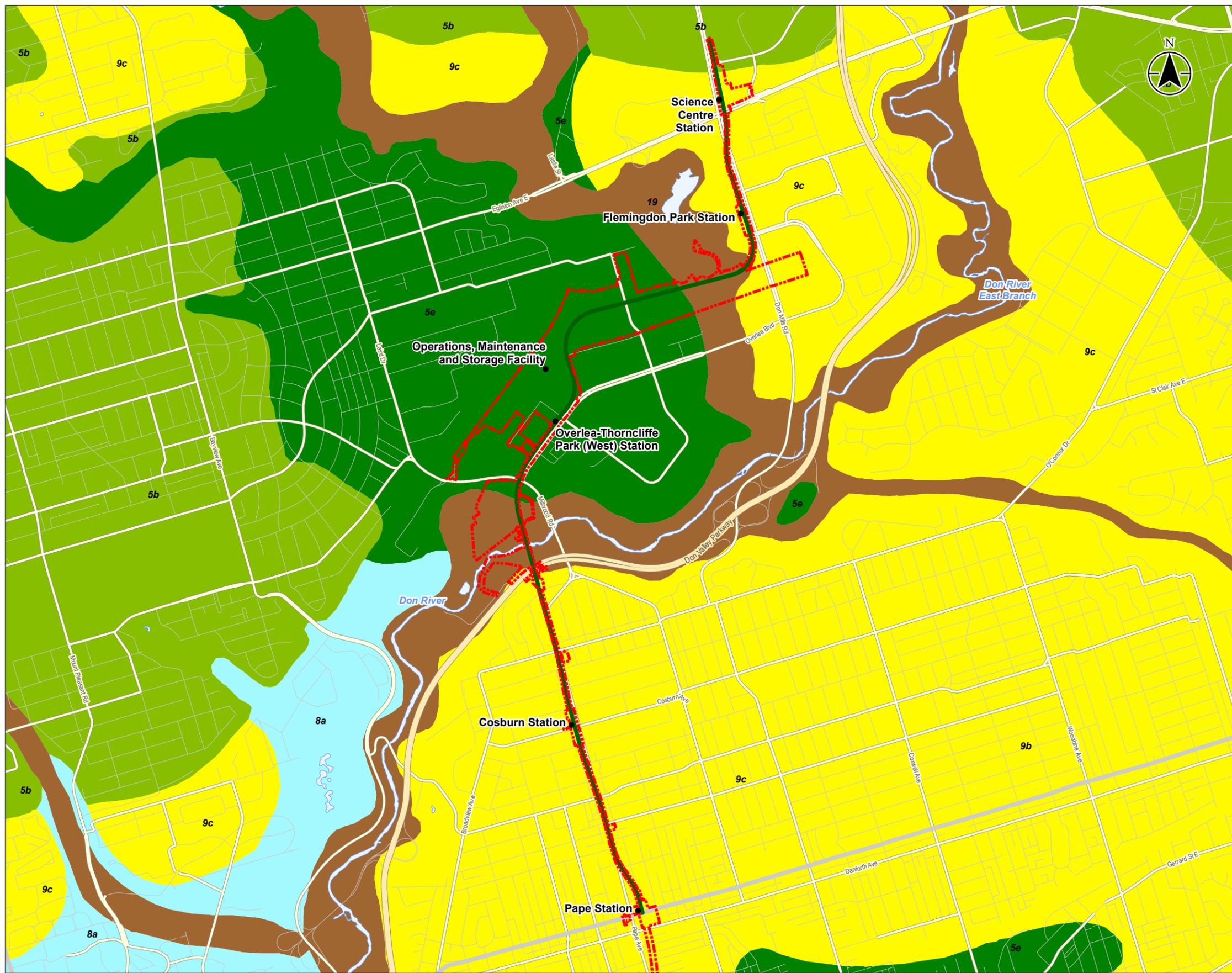
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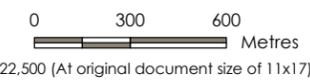
Figure No.
4-24

Title
**Topography and Drainage –
 Ontario Line North Section**

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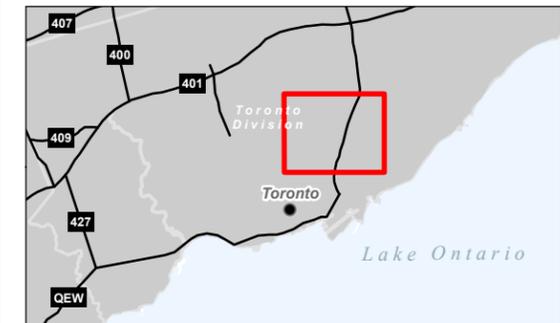


- Legend**
- Project Footprint
 - Station Location
 - Ontario Line North
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Waterbody
- Surficial Geology**
- 19: Modern alluvial deposits
 - 9b: Coarse-textured glaciolacustrine deposits (Littoral-foreshore deposits)
 - 9c: Coarse-textured glaciolacustrine deposits (Foreshore-basinal deposits)
 - 8a: Fine-textured glaciolacustrine deposits (Massive-well laminated)
 - 5b: Stone-poor, carbonate-derived silty to sandy till
 - 5e: Undifferentiated older till and stratified sediment



1:22,500 (At original document size of 11x17)

- Notes**
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 4. Surficial geology produced by the Ontario Geological Survey 2003. Surficial geology of Southern Ontario; Ontario Geological Survey, MRD 128.



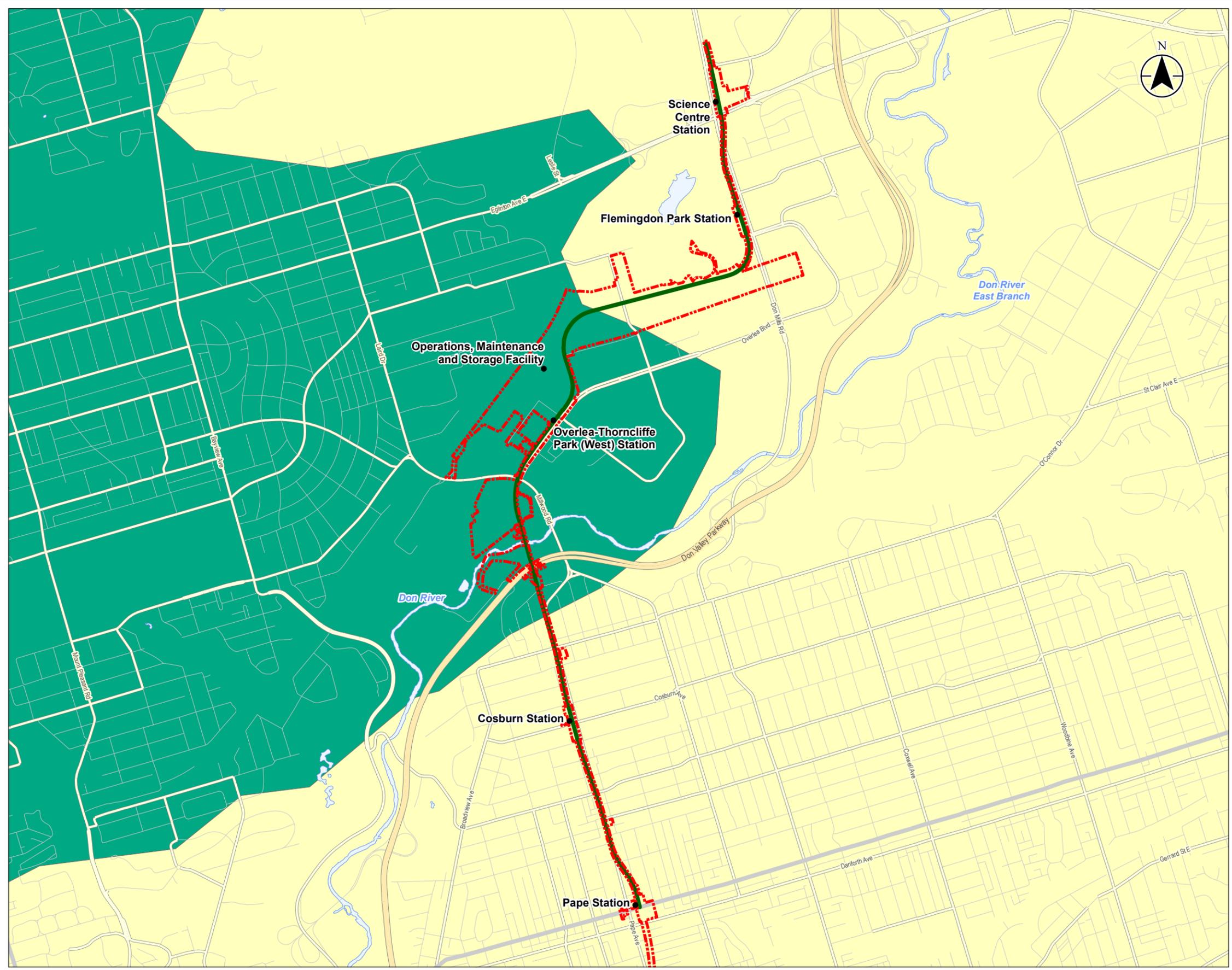
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Figure No. 4-25

Title: Surficial Geology – Ontario Line North Section

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- Legend**
- Project Footprint
 - Station Location
 - Ontario Line North
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
- Quaternary Geology**
- 25 : Glaciolacustrine deposits : sand, gravelly sand and gravel, nearshore and beach deposits
 - 17 : Halton Till : predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor



- Notes**
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 4. Quaternary geology produced by the Ontario Ministry of Energy 2011, Geology II EDS014.



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Figure No.
4-26

Title:
**Quaternary Geology –
 Ontario Line North Section**

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- Legend**
- Project Footprint
 - Station Location
 - Ontario Line North
 - Expressway / Highway
 - Major Road
 - Minor Road
 - Existing Subway
 - Waterbody
 - Bedrock Geology**
 - 14. Georgian Bay



- Notes**
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 4. Quaternary geology produced by the Ontario Ministry of Energy 2011, Geology II EDS014.



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Figure No.
4-27

Title
**Bedrock Geology –
 Ontario Line North Section**

A review of the MECP water well records database indicates that the overburden geological materials consist primarily of silty clay, silty sand, sandy silt, sand, and silt in localized areas. No information on bedrock depths was available for this segment of the Project.

Based on the TRCA (2009) cross-section along Don River Watershed (West Don River), the following seven Hydrostratigraphic Units are present in the Project Footprint: Surficial Aquifer (Recent Sediments – associated with the former lake Iroquois shoreline deposits), Halton Aquitard, Oak Ridges Aquifer, Newmarket Aquitard, Thorncliffe Aquifer Complex, Sunnybrook Aquitard, and Scarborough Aquifer Complex.

Regional Groundwater Flow

The surficial/shallow groundwater system in the Project Footprint is influenced by surface topography and likely flows to the creek valleys (i.e., Don River, Don River West Branch, and Wilket Creek). Regionally, the groundwater is expected to flow to the south towards Lake Ontario.

Groundwater Resources

Source Water Protection

The Project Footprint is in the Toronto and Region Source Protection Area. The presence of source water areas/features is described below and shown on **Figure 4-28** and **Figure 4-29**. A summary of source water protection details is included in **Table 4-6** below.

Table 4-6. Source Water Protection Details: Ontario Line North

Source Water Protection Feature	Present	Source Protection Plan Policies	Legal Effect of Policy
Intake Protection Zone	Yes, Zone 3	No policies related to Intake Protection Zone-3 are specified in the Source Protection Plan	-
Highly Vulnerable Aquifer	Yes, Highly Vulnerable Aquifer Score of 6 partially overlaps with Project Footprint	Related Source Protection Plan policies: SAL-10, SAL-11, SAL-12, SAL-13, DNAP-3, OS-3	Listed policies include both legally binding and non-binding examples
Event Based Area (for Stored/Transported Fuel/Oil Spill; Pipeline Fuel/Oil Spill; Wastewater Treatment Plant/Sanitary Sewer)	Yes	Related Source Protection Plan policies: LO-G-A, LO-G-2, LO-G-3, LO-NGS-1, LO-SEW-1, LO-SEW-2, LO-PIPE-1, LO-FUEL-1, LO-FUEL-2	Listed policies include both legally binding and non-binding examples

Source: Source Water Protection Information Atlas (MECP 2020).

MECP Water Well Records

An inventory of local private water wells (i.e., domestic, commercial, industrial, etc.) was prepared by searching the MECP Water Well Information System database. Results are shown on **Figure 4-30**, along with the primary use of each well. A total of 647 water well records were found. No domestic water supply wells were found in the background data.

As shown on **Table 4-7**, available well records indicate that 71% of known groundwater use is for monitoring and test hole purposes. Approximately 20% of the water well records did not specify the well use and therefore are classified as 'Unknown'. Approximately 9% of the water well records indicate that the well is abandoned, including other uses.

Table 4-7. MECP Water Well Records: Ontario Line North

Primary Water Use	Number of Well Records	Well Depth (metres)
Dewatering/Monitoring and Test Hole	463	2.4 to 62.5
Abandoned / Other	53	3 to 6.1
Unknown	131	4.6 to 35.4

MECP Summary

A search of the MECP Permit to Take Water database returned 9 results in the 500-metre buffer around the Project Footprint; all of which were expired. A search of MECP Environmental Activity and Sector Registry database returned 14 results, with 1 identified for construction dewatering purposes.

Water Level Data

Seven MECP water well records reported a static water level. These reported water levels represent either the water table position or the potentiometric surface depending on whether a given well is installed in an unconfined or confined aquifer. MECP water well records do not provide sufficient information to confirm aquifer conditions. The static water levels were reported on the identified well records ranged between 2.4 metres and 33 metres below ground surface.

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Legend

- Ontario Line North
- Project Footprint
- Project Footprint 500m Buffer

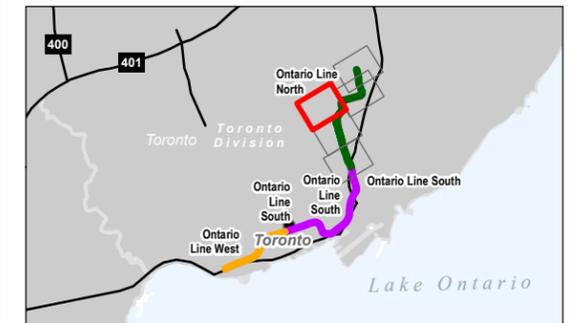
MECP Water Well Record, Primary Use

- Abandoned
- Dewatering
- Monitoring or Test Hole
- Observation Wells
- Test Hole
- Unknown



Notes

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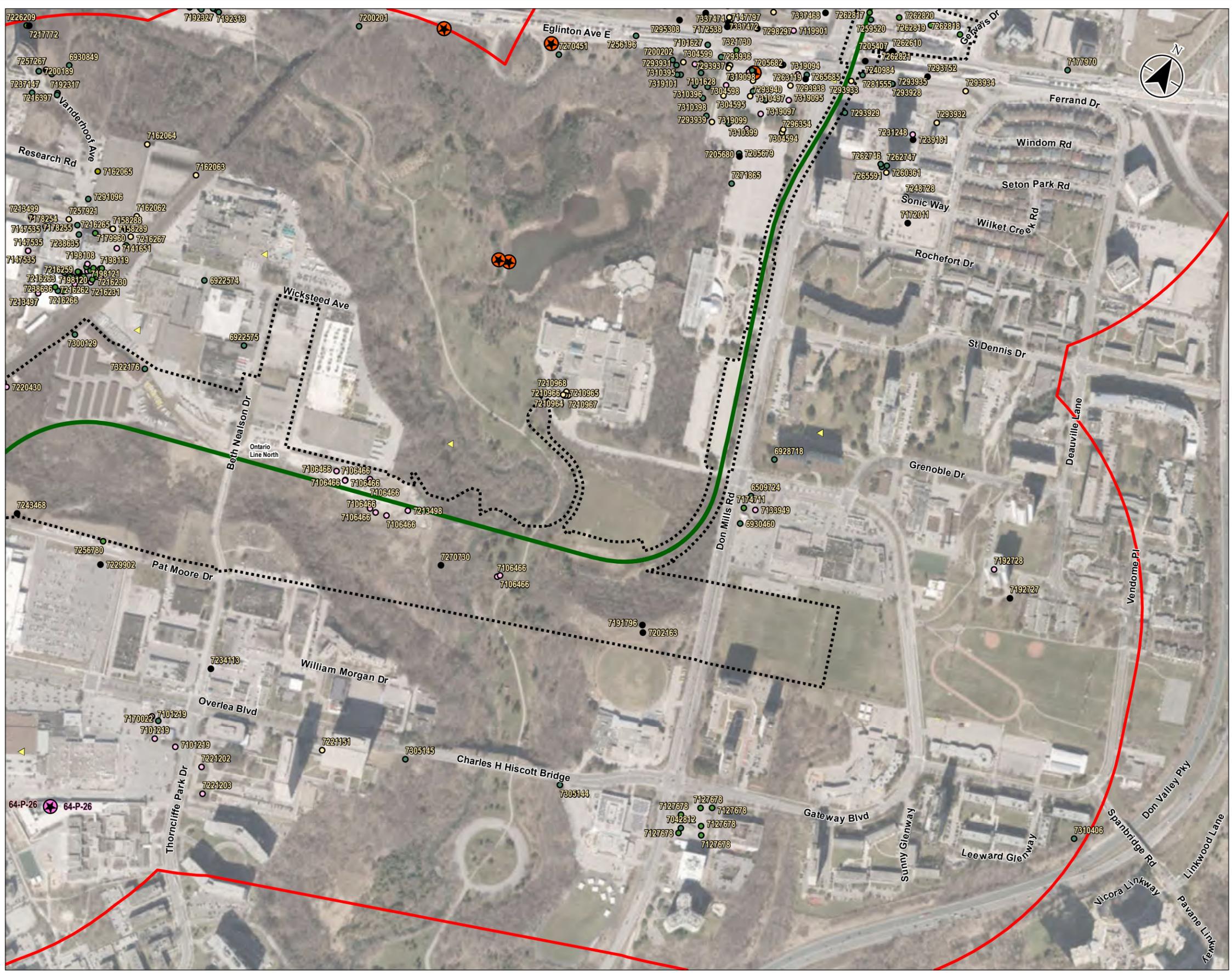
Project Location: City of Toronto, ON
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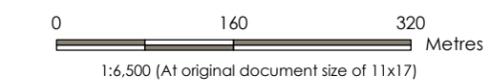
Figure No.
4-30-3

Title
**Water Wells, PTW and EASR -
 Ontario Line North**

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- Legend
- Ontario Line North
 - Project Footprint
 - Project Footprint 500m Buffer
 - ▲ Environmental Activity and Sector Registry
- Permits to Take Water (PTTW)**
- ★ Industrial
 - ★ Miscellaneous
- MECP Water Well Record, Primary Use**
- Abandoned
 - Monitoring or Test Hole
 - Observation Wells
 - Recharge Well
 - Test Hole
 - Unknown



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Figure No.
4-30-4

Title
**Water Wells, PTTW and EASR -
 Ontario Line North**

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Soil and Groundwater Contamination

The Project Footprint is situated in a high-density urban environment with significant commercial and industrial history which suggests a greater possibility of encountering soil and groundwater contamination during construction of the Project.

According to the Limited Phase I Environmental Site Assessment (AECOM 2020c), the Project Footprint comprises a mix of residential, commercial, industrial, and institutional land uses from 1928 to the present day. The current residential streets such as Pepler Avenue and Bungalow Avenue were occupied with mostly vacant land with some residential homes before 1928 and became developed as mix of residential and commercial land uses after 1928. Areas south of Millwood Road and north of Barber Greene Road were occupied by forest, grassed fields, and agricultural lands prior 1946 when they started to be developed for residential, commercial, industrial, and institutional land uses.

During the Limited Phase I Environmental Site Assessment (AECOM 2020c), over 1,496 properties were evaluated in a study area roughly equivalent to the Ontario Line South Project Footprint, with approximately 6% of properties given a high-risk potential for soil and ground water contamination, and approximately 8% designated as medium risk properties. The remaining properties were deemed to be low-risk or have a minimal risk rating. The risk ratings used in the Limited Phase I Environmental Site Assessment (AECOM 2020c) are described previously in **Section 4.4.2**.

In addition, during the Limited Phase I Environmental Site Assessment (AECOM 2020c) data search, a total of seven RSCs and two CPUs were identified. At the properties where an RSC has been completed using a Risk Assessment, a CPU will be held on land title that will outline engineered risk mitigation measures and soil management requirements that will apply to the property.

4.5 Built Heritage Resources and Cultural Heritage Landscapes

Built heritage resources (BHRs) and cultural heritage landscapes (CHLs) are aspects of the environment that provide insight or information on past human use of the landscape that are visible to the human eye, and include buildings, landscapes, and vegetation.

4.5.1 Methodology

A Heritage Detail Design Report was prepared by Stantec in 2022 (see **Appendix A2**), building on the Cultural Heritage Report completed in support of the Environmental Conditions Report (AECOM 2020d). The objectives of this assessment were to:

- review the existing baseline conditions of known, previously identified, and potential BHRs/CHLs
- conduct a field review to document additional resources identified

- review, confirm, and update the findings of impact tables developed in the document Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment (AECOM 2020d) for the Project
- refine the range of mitigation strategies presented and identify required monitoring, consent, or approvals
- apply input/feedback provided by agencies and stakeholders

BHRs and CHLs were identified based on:

- the City of Toronto Heritage Register to identify properties that have been listed or designated under Part IV of the *Ontario Heritage Act* (OHA)
- the City of Toronto Heritage Register to confirm whether parts of the Study Area fall in a heritage conservation district (HCD) that is designated under the OHA
- a review of the online searchable databases on the Ontario Heritage Trust heritage property website
- the Canadian Register of Historic Places, as well as the Directory of Federal Heritage Designations and the list of National Historic Sites, maintained by Parks Canada
- the list of Provincial Heritage Properties of Provincial Significance, maintained by the Ministry of Heritage, Sport, Tourism, and Cultural Industries (MHSTCI)
- field reviews

Further details regarding BHRs and CHLs can be found in **Appendix A2**.

4.5.2 Ontario Line West

Of the 272 BHRs, CHLs and HCDs identified as being in the Study Area, a total of 136 are located in the OLW section (see **Figure 4-31-1** to **Figure 4-31-3**), as summarized in **Table 4-8**.

Table 4-8. Built Heritage Resources, Cultural Heritage Landscapes, and Heritage Conservation Districts, Ontario Line West

Ref. #	Location/Address and Property Name	Heritage Recognition
ES-001	Cultural Interpretive Signs and Silos/Hoppers along the South Liberty Trail	Potential BHR/CHL Identified during field review
ES-002	2-20 Atlantic Avenue	Potential BHR/CHL
OLW-006	171 Dufferin Street	Potential BHR/CHL Identified during field review
OLW-007	153 Dufferin Street	Potential BHR/CHL Identified during field review

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-008	7-19 Fraser Avenue Expanded Metal and Fireproofing Company Factory	Listed on Municipal Heritage Register (July 19, 2005)
OLW-009	24 Jefferson Avenue	Previously Identified BHR/CHL Cultural Heritage Screening Report for Exhibition GO Transit Station
OLW-011	1 Atlantic Avenue	Potential BHR/CHL Identified during field review
OLW-012	3 Mowat Avenue/2 Fraser Avenue	Potential BHR/CHL Identified during field review
OLW-013A	CHL – Exhibition Place 2 Strachan Avenue	Previously Identified BHR/CHL Provincial Heritage Property of Provincial Significance (21 buildings and structures on the Register in this property, five buildings commemorated as a National Historic Site in 1985).
OLW-013	45 Manitoba Drive Coliseum Complex- Exhibition Place	Designated Part IV of the OHA (By-law 254-96 and By-law 821-88) Coliseum Complex- Exhibition Place
OLW-014	10 Nova Scotia Avenue Food Products Building- Exhibition Place	Listed on Municipal Heritage Register (May 3, 4, 1993) Provincial Heritage Property of Provincial Significance
OLW-015	No Address – Exhibition Place Dufferin Gate	Listed on Municipal Heritage Register (May 3, 4, 1993) Provincial Heritage Property of Provincial Significance
OLW-016	Dufferin Street Bridge (Bridge No. 509) Over Lakeshore West Rail Corridor and Gardiner Expressway	Previously Identified BHR/CHL
OLW-017	75 East Liberty Street (formerly 20 Strachan Avenue) Remnants of Central Prison Chapel	Designated under Part IV of the OHA (By-law 378-96) City of Toronto Heritage Easement: CCA681470

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-018	250 Fort York Boulevard Fort York HCD and National Historic Site	National Historic Site Designated Part V, HCD (By-Laws 420-85 & 541-2004) Listed on Canadian Register of Historic Places
OLW-021	89-109 Niagara Street National Casket Company Factories	Designated under Part IV of the OHA (By-law 1036-2015)
OLW-022	2 Tecumseth Street Originally Toronto Municipal Abattoir	Potential BHR/CHL Identified during field review
OLW-026	King-Spadina HCD	Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-028	667 King Street West Wheat Sheaf Tavern	Listed on Municipal Heritage Register (June 20, 1973)
OLW-029	46-56 Stewart Street Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-030	60 Stewart Street Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-031	663-665 King Street West and 69-71 Bathurst Street Canada Biscuit Co., later Bank of Montreal Contributing property in the King-Spadina HCD	Designated Part IV of the OHA (By-law 241-2021) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-032	647-647A King Street West Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2007) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-039	668 King Street West Toronto Dominion Bank Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (June 20, 1973) Designated Part V of the OHA (By-law 1241-2017, under appeal)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-040	662 King Street West Ideal Women's Wear Building Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (May 19, 2005) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-041	642 King Street West (including entrance addresses at 2 and 4 Adelaide Place) Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-044	602-606 King Street West Contributing property in the King-Spadina HCD	Designated Part IV of the OHA, (by-law 220-2016) Designated Part V of the OHA, (by-law 1241-2017) under appeal
OLW-046	487 Adelaide Street West	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-Law #1241-2017, under appeal)
OLW-047	1-11 Adelaide Place William Clark Row Houses Contributing properties in the King-Spadina HCD	Designated under Part IV of the OHA (By-law 1056-2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-048	509-511 Adelaide Street West William Clark row houses Contributing property in the King-Spadina HCD	Designated Part IV under the OHA (By-law 1062-2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-049	505-507 Adelaide Street West William Clark row houses Contributing property in the King-Spadina HCD	Designated Part IV under the OHA (By-law 1061-2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-050	497-499 Adelaide Street West Marvyn row houses Contributing properties in the King-Spadina HCD	Designated under Part IV of the OHA (By-law 554-2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-052	512-514 Adelaide Street West Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-053	506 Adelaide Street West Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-054	504 Adelaide Street West 116 Portland Street West Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-059	124-130 Portland Street Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-065	Queen Street West HCD	Designated Part V of the OHA (By-law 979-2007)
OLW-067	530-538 Richmond Street West Row houses Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (October 4, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-068	540-542 Richmond Street West Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (August 18, 1976) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-069	544 Richmond Street West Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-072	139-145 Portland Street Contributing property in the King-Spadina HCD	Designated Part IV of the OHA (By-laws 1754-2019 and 76-2020) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-073	135 Portland Street Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-074	127 Portland Street Contributing property in the King-Spadina HCD	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-076	20 Maud Street	Listed on Municipal Heritage Register (December 5, 2017) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-077	497, 505 and 511 Richmond St West 60 Brant Street 17 Maude Street Waterworks Building Complex Contributing property in the King-Spadina HCD	Designated under Part IV of the OHA City of Toronto Heritage Easement #AT4314945 (60 Brant Street) City of Toronto Heritage Easement #AT314944 (497-505 Richmond Street West) Designated Part V of the OHA (By-law 1241-2017, under appeal)
OLW-109	388-396 Queen Street West G.R.R. Cockburn Commercial Building Contributing property in the Queen Street West HCD	Designated under Part IV of the OHA (By-law 844-86) Designated under Part V of the OHA (By-law 979-2007)
OLW-110	441 Queen Street West Contributing property Queen Street West HCD	Designated under Part IV of the OHA (By-law 820-84) Designated under Part V of the OHA (By-law 979-2007) City of Toronto Heritage Easement #CT745537
OLW-116	117-121 Spadina Avenue	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
OLW-117	384 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
OLW-118	380 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-119	366 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
OLW-120	358-360 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
OLW-122	350 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (bylaw 492-2018) City of Toronto Heritage Easement Agreement #AT4839370
OLW-123	352 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (bylaw 492-2018) City of Toronto Heritage Easement Agreement #AT4839370
OLW-125	342 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
OLW-129	280 Queen Street West Contributing property in the Queen Street West HCD	Designated Part IV of the OHA (by-law 354-82) Designated Part V of the OHA (by-law 979-2007)
OLW-130	295-299 Queen Street West Wesley Building Contributing property in the Queen Street West HCD	Designated Part IV of the OHA (By-law 589-86) Listed on Canadian Register of Historic Places Designated Part V of the OHA (By-law 979-2007) City of Toronto Heritage Easement #CT825263

Ref. #	Location/Address and Property Name	Heritage Recognition
OLW-131	260 Richmond Street Contributing property in the King-Spadina HCD	Designated Part IV of the OHA (By-Law #797-2006) Designated Part V of the OHA (By-Law #1241-2017, under appeal)
OLW-134	250 University Avenue Former Bank of Canada Non-Contributing property in the Queen Street West HCD	Listed on the Municipal Heritage Register (Feb. 24, 1997) Designated Part V of the OHA (By-law 979-2007)
OLW-135	330 University Avenue Includes 160 Queen Street West (OLW-138)	Designated Part IV of the OHA (By-Law #069-97)
OLW-136	University Avenue, east and west side, Front Street north to Queen's Park	Potential BHR/CHL Identified during field review
OLW-137	Cenotaph, North side of Queen Street West at University Avenue (in OLW-136) Note: Referred to as the South African War Memorial	Previously identified BHR/CHL Relief Line South
OLW-138	160 Queen Street West Part of 330 University Avenue (OLS-115) Contributing property in the Queen Street West HCD	Designated Part IV of the OHA (by-law 588-2010) Designated Part V of the OHA (by-law 979-2007)
OLAW-021	463 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA (By-law 979-2007)
OLAW-020	219 Queen Street West	Listed on Municipal Heritage Register (July 16, 17, 18, 19, 2007)
OLAW-019	180 Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-018	205 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-017	185 Spadina Avenue	Potential BHR/CHL Identified during field review

Ref. #	Location/Address and Property Name	Heritage Recognition
OLAW-016	370 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-015	372 and 372A Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-014	165, 169 ½, 171, 171 ½, 173, 175, 175 ½, 177 Spadina Avenue and 378 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-013	400 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-012	402 Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-011	404 Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-010	406 Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-009	435 and 435A Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-008	437 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-007	439 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-006	443 Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLAW-005	449, 449A and 449B Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA (by-law 979-2007)
OLAW-004	451 and 451A Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-003	453 Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-002	455 and 457 Queen Street West Non-contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
OLAW-001	459 and 459A Queen Street West Contributing property in the Queen Street West HCD	Designated Part V of the OHA, (by-law 979-2007)
SD-001	355-359 Adelaide Street West Gebler Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-002	36 Charlotte Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-003	345-349 Adelaide Street West MacLean Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-004	331-333 Adelaide Street West Fremes Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-005	92 Peter Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-006	317-325 Adelaide Street West Commodore Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (Bylaw 81-2014)

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-007	313-315 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-008	301 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-009	104-106 John Street Richard West Houses	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 515-2010)
SD-010	283 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-011	263-267 Adelaide Street West Purman Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 1385-2017)
SD-012	255-261 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Included on the Municipal Heritage Register
SD-013	245 Adelaide Street West; 18-22 Duncan Street Boarding Houses for Upper Canada College	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Included on the Municipal Heritage Register
SD-014	219-223 Adelaide Street West; 19 Duncan Street Southam Press Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 1385-2017)
SD-015	217 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-016	203 Adelaide Street West; 100 Simcoe Street Rolph and Clark Limited Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Included on the Municipal Heritage Register Notice of Intention to designate under Part IV of the OHA (December 22, 2020)
SD-017	120 Simcoe Street	Potential BHR/CHL Identified during field review
SD-038	364 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-039	354-356 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-040	348 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-041	102-108 Peter Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-042	334 Adelaide Street West; 101 Peter Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-043	322 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-044	312-320 Adelaide Street West Manufacturer's Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-045	308-310 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-046	306 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-047	304 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-048	302 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on the Municipal Heritage Register
SD-049	290 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-050	280 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-051	121 John Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 596-82)
SD-052	119 John Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 596-82)
SD-053	117 John Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 596-82)
SD-054	109-115 John Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 596-82)
SD-055	270 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 597-82)

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-056	268 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 597-82)
SD-057	266 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Designated Part IV of the OHA (by-law 597-82 and 1241-2017)
SD-058	260 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-059	254 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-060	250 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-061	244 Adelaide Street West; 24 Duncan Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on Municipal Heritage Register
SD-062	238-240 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-063	236 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-064	230 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-065	224 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on Municipal Heritage Register
SD-066	220 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-067	218 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-068	212 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on Municipal Heritage Register
SD-069	208-210 Adelaide Street West	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on Municipal Heritage Register
SD-070	200 Adelaide Street West Canadian Magazine Building	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal) Listed on Municipal Heritage Register
SD-071	116 Simcoe Street	Designated Part V of the OHA, King-Spadina HCD (by-law 1241-2017 under appeal)
SD-072	192 Adelaide Street West; 180 University Avenue Bishop's Block	Designated Part IV of the OHA, (By-law 163-80)

4.5.3 Ontario Line South

Of the 272 BHRs, CHLs, and HCDs identified as being in the Study Area, a total of 124 are located in the OLS section (see **Figure 4-31-3** to **Figure 4-31-6**), as summarized in **Table 4-9**.

Table 4-9. Built Heritage Resources, Cultural Heritage Landscapes, and Heritage Conservation Districts, Ontario Line South

Ref. #	Location/Address and Property Name	Heritage Recognition
CS-004	Parliament Square Park	Ontario Heritage Trust Plaque
LDB-001	Public Space: Former location of first railway crossing of the Don River	Potential BHR/CHL Identified during field review
LDB-002	Consumer's Gas Bridge Bridge carrying the gas main over Lower Don River	Potential BHR/CHL Identified during field review
LDB-003	Former alignment of Eastern Avenue over Lower Don River (Old Eastern Avenue Bridge)	Potential BHR/CHL Identified during field review
LDB-004	155 Bayview Avenue Corktown Common, west side of Bala Underpass	Heritage Toronto Plaque - within Corktown Common, 155 Bayview Avenue
OLS-002	450 Pape Avenue William Harris House	Designated Part IV of the OHA (By-law 34-2011)
OLS-006	619-685 Pape Avenue 634-664 Pape Avenue Pape Avenue Residential Streetscape	Previously Identified BHR/CHL Relief Line South
OLS-007	560 Pape Avenue	Potential BHR/CHL Identified during field review
OLS-008	701 Pape Avenue Toronto Public Library, Pape/ Danforth Branch	Previously Identified BHR/CHL Relief Line South
OLS-009	705-707 Pape Avenue	Previously Identified BHR/CHL Relief Line South
OLS-010	498 Pape Avenue	Potential BHR/CHL Identified during field review

Ref. #	Location/Address and Property Name	Heritage Recognition
OLS-011	220 Langley Avenue (formally 410 Pape Avenue) Pape Avenue Junior Public School	Listed on Municipal Heritage Register (Feb. 1, 2000)
OLS-012	229-243 Langley Avenue Langley Avenue Streetscape (west side)	Previously Identified BHR/CHL Relief Line South
OLS-014	Carlaw Avenue and Gerrard Street East Subways	Previously Identified BHR/CHL Metrolinx Provincial Heritage Property
OLS-015	400 Carlaw Avenue Jefferson Glass Co. Factory	Potential BHR/CHL Identified during field review
OLS-016	1 Dickens Street Woods Manufacturing Company	Potential BHR/CHL Identified during field review
OLS-017	Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLS-018	Queen Street East – Riverside HCD Note: Contributing and non-contributing properties have not been defined as part of the HCD Study and therefore have not been included.	HCD, under study
OLS-024	385 Cherry Street Cherry Street Interlocking Tower	Previously Identified BHR/CHL Metrolinx Provincial Heritage Property of Provincial Significance
OLS-025	Cherry Street Subway	Previously Identified BHR/CHL Metrolinx Provincial Heritage Property
OLS-029	Gooderham & Worts Distillery National Historic Site and Distillery District HCD	National Historic Site HCD under Study Designated Part IV of the OHA (By-Law 154-76 applies to the complex) Listed on the Canadian Register City of Toronto Heritage Easement Agreement CA397773, CA397771, CA397781, CA397779, CA397777, CA397775, CA397783, AT228498.

Ref. #	Location/Address and Property Name	Heritage Recognition
OLS-030	390 Cherry Street Former Rack warehouses within the Distillery District National Historic Site and proposed HCD study area Contributing property in the Distillery District HCD	Designated Part IV of the OHA (By-law 154-76- designation for the complex) Part of the National Historic Site (1988) Listed on the Canadian Register City of Toronto Heritage Easement Agreement
OLS-031	2 Trinity Street Former Stone and Fermenting Cellar within the Distillery District National Historic Site and proposed HCD study area Contributing property in the Distillery District HCD	Designated Part IV of the OHA (By-law 154-76- designation for the complex) Part of the National Historic Site (1988) Listed on the Canadian Register City of Toronto Heritage Easement Agreement
OLS-032	55 Mill Street Former Cooperage and Maltings group within the Distillery District National Historic Site and proposed HCD study area Contributing property in the Distillery District HCD	Designated Part IV of the OHA (By-law 154-76- designation for the complex) Part of the National Historic Site (1988) Listed on the Canadian Register City of Toronto Heritage Easement Agreement
OLS-034	265, 269, 271 Front Street East and 25 Berkeley Street Site of Upper Canada Parliament Buildings – Deeply buried site	Designated Part IV of the OHA (By-law 091-1997) Designated Part V of the OHA, St. Lawrence Neighbourhood HCD, under appeal (by-law 1328-2015)
OLS-035	St. Lawrence Neighbourhood HCD	Designated Part V of the OHA (By-law 1241-2017, St. Lawrence Neighbourhood HCD, under appeal)
OLS-041	302-306 King Street East Tavern/Garibaldi House	Listed on Municipal Heritage Register (June 20, 1973)
OLS-042	53-79 Berkeley Street, 535 Adelaide Street East Row houses	Listed on Municipal Heritage Register (June 20, 1973)
OLS-043	93-95 Berkeley Street Christie, Brown & Co. Stables	Designated Part IV of the OHA (By-law 1037-2015) City of Toronto Heritage Easement Agreement AT4263157 (July 3, 2016)
OLS-044	111 Berkeley Street	Listed on Municipal Heritage Register (June 20, 1973)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLS-045	115 Berkeley Street House for James Vance	Listed on Municipal Heritage Register (June 20, 1973)
OLS-049	140 and 150 Sherbourne Street John Innes Community Centre and Moss Park Contributing property within the Garden District HCD	Previously Identified BHR/CHL Relief Line South Designated Part V of the OHA, (by-law 232-2017), under appeal
OLS-050	263-265 Queen Street East Christina Lauder Buildings	Designated Part IV of the OHA (By-law 990-2015)
OLS-051	540 Jones Avenue Jones Avenue School, originally Earl Grey School	Potential BHR/CHL Identified during field review
OLS-052	250 Queen Street East	Listed on Municipal Heritage Register (Identified through the King-Parliament Secondary Plan Review in 2019)
OLS-057	237, 241, 243 Queen Street East Andrew McFarren Building	Designated Part IV of the OHA (989-2015)
OLS-063	Garden District HCD	Designated Part V of the OHA, (By-law 232-2017, under appeal)
OLS-087	103 Church Street (Includes 101 and 105 Church St and 65 Richmond Street)	Designated Part IV of the OHA (By-law 35-86) City of Toronto Heritage Easement Agreement CT810856 (August 26, 1986)
OLS-088	114 Richmond Street East (Includes 94, 98, 100 and 110 Richmond St E and 99, 107, 109, 111, 115, 123 Queen St E) Robertson Brothers, Confectioners	Designated Part IV of the OHA (By-law 51-83)
OLS-091	100-114 Queen Street East	100-104 Queen Street East are Designated Part IV of the OHA (By-law 1138-2020) 106-114 Queen Street East are Listed on the Municipal Heritage Register (July 29, 2020)
OLS-092	98 Queen Street East Richard Bigley Building, now Craig, Zeidler & Strong	Designated Part IV of the OHA (By-law 1138-2020)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLS-093	3 Mutual Street	Listed on Municipal Heritage Register (June 20, 1973)
OLS-094	56 Queen Street East 51, 51 A, 53, 57 Shuter Street 51 and 55 Bond Street 174 Church Street Metropolitan United Church and Metropolitan Church Parsonage	Designated Part IV of the OHA (By-law 1250-2007) (By-law 133-2009) Listed on Ontario Heritage Trust Places of Worship Inventory
OLS-095	79 Queen Street East Bank of Nova Scotia	Listed on Municipal Heritage Register (June 9, 1976)
OLS-096	8, 10, 12, 20, 22, 26 Richmond Street East, 106 Victoria Street, 157, 159 Yonge Street J. Frank Raw Ltd	Designated Part IV of the OHA (By-law 533-75) City of Toronto Heritage Easement Agreement A925275 (June 9, 1981)
OLS-097	2 Queen Street East (Formerly known as 173, 177 and 181 Yonge Street) Bank of Montreal	Designated Part IV of the OHA (By-law 310-88) City of Toronto Heritage Easement Agreement CA751900 (December 6, 2001)
OLS-104	1898 Yonge Street and 146-148 Victoria Street	Designated Part IV of the OHA (By-law 12- 79) National Historic Site with Plaque (1982) Listed on the Canadian Register Provincial Heritage Property
OLS-105	2 Queen Street West Jamieson Building	Designated Part IV of the OHA (By-law 1247-2007) City of Toronto Heritage Easement Agreement (registered as Instrument No. CT4889267 on June 19, 2018)
OLS-106	176 Yonge Street 401 Bay Street	Designated Part IV of the OHA (By-Law 118-76) City of Toronto Heritage Easement Agreement: CT991633
OLS-107	65 Queen Street West Thompson Building	Previously Identified BHR/CHL Relief Line South

Ref. #	Location/Address and Property Name	Heritage Recognition
OLS-111	60 Queen Street West Old (third) City Hall and Old City Hall Cenotaph	Designated Part IV of the OHA (By-law 332-86) National Historic Site Listed on the Canadian Register
OLS-112	100, 110 Queen Street West City Hall and Nathan Philips Square	Designated Part IV of the OHA (By-Law 147-91)
OLS-113	130 Queen Street West Osgoode Hall	East portion designated Part IV of the OHA (By-law 477-90) National Historic Site of Canada (1979) Listed on the Canadian Register Provincial Heritage Property of Provincial Significance (applies to the west portion of the property owned by Her Majesty the Queen and Ontario)
OLS-118	123 Queen Street West Sheraton Centre Hotel	Previously Identified BHR/CHL Relief Line South
OLS-119	216-232 Queen Street East	Listed on the Municipal Heritage Register (June 20, 1973)
OLS-120	234-242 Queen Street East Carlyle Block	Designated under Part IV of the OHA (By-Law #762-89)
OLS-121	245 Queen Street East S. Price and Sons Dairy Building	Listed on the Municipal Heritage Register (Nov. 9, 2016) Intention to Designate Part IV of the OHA (Dec. 5, 2016)
OLS-122	6, 8, and 10 Paisley Avenue	Previously Identified BHR/CHL
OLS-123	15 and 17 Tiverton Avenue Contributing property in Riverdale HCD	Previously identified BHR/CHL Designated Part V of the OHA, Riverdale HCD, By-law 951-2008
OLS-124	60 and 62 McGee Street	Previously identified BHR/CHL
OLS-126	De Grassi Street from Queen Street East to Wardell Street	Potential BHR/CHL Identified during field review
OLAS-001	19 Tiverton Avenue Contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLAS-002	21 Tiverton Avenue Contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)

Ref. #	Location/Address and Property Name	Heritage Recognition
OLAS-003	25 Tiverton Avenue Contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLAS-004	242 Frist Avenue Non-contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLAS-005	240 First Avenue Non-contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLAS-006	238 First Avenue Contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLAS-007	236 First Avenue Contributing property in Riverdale HCD	Designated Part V of the OHA (By-law 951-2008)
OLAS-008	60 Queen Street East and 129 Church Street	Designated Part IV of the OHA (By-law 182-2021)
OLAS-009	252 Queen Street East	Listed on Municipal Heritage Register
OLAS-010	287 Queen Street East	Listed on Municipal Heritage Register
OLAS-011	289 Queen Street East	Listed on Municipal Heritage Register
OLAS-012	291 Queen Street East	Listed on Municipal Heritage Register
OLAS-013	293 Queen Street East	Listed on Municipal Heritage Register
OLAS-014	295 Queen Street East	Listed on Municipal Heritage Register
OLAS-015	470 and 472 Richmond Street East	Listed on Municipal Heritage Register
OLAS-016	474 Richmond Street East	Listed on Municipal Heritage Register
OLAS-017	106-112 Berkeley Street	Listed on Municipal Heritage Register
OLAS-018	553 Adelaide Street East	Listed on Municipal Heritage Register
LSE-001	369 Carlaw Avenue	Listed on Municipal Heritage Register
SD-018	304-320 Bay Street Canada Permanent Building	Designated Part IV of the OHA (By-law 502-75)
SD-019	302 Bay Street Toronto Trust and Guarantee Building	Designated Part IV of the OHA (By-law 503-75)
SD-020	303 Bay Street National Club	Designated Part IV of the OHA (By-law 83-76)

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-021	44 King Street West Bank of Nova Scotia	Designated Part IV of the OHA (By-law 1036-2007)
SD-022	11 Adelaide Street West (Included in 40 King Street West) Wood Gundy Building	Designated Part IV of the OHA (By-law 1035-2007)
SD-023	110 Yonge Street Canada Trust Building	Listed on Municipal Heritage Register
SD-024	104 Yonge Street Upper Canada Bible & Tract Societies Building	Designated Part IV of the OHA (By-law 76-2008)
SD-025	83 and 83A Yonge Street Hiram Piper & Brother Building	Designated Part IV of the OHA (By-law 527-76)
SD-026	25 Adelaide Street East 36, 44 Victoria Street	Potential BHR/CHL Identified during field review
SD-027	31 Adelaide Street East and 43 Victoria Street Excelsior Life Building (formerly the Millichamps' Building)	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015) Listed on the Municipal Heritage Register
SD-028	36 Toronto Street Excelsior Life Building	Designated Part IV of the OHA (By-law 272-84) Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015)
SD-029	25 Toronto Street Consumers' Gas Co.	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015) Listed on the Municipal Heritage Register
SD-030	23 Toronto Street	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015) Listed on the Municipal Heritage Register
SD-031	17-19 Toronto Street Consumers' Gas Co.	Designated Part IV of the OHA (By-law 508-75) Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015)

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-032	53-55 Adelaide St East Consumers' Gas Co.	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015) Listed on the Municipal Heritage Register
SD-033	57 Adelaide Street East York County Courthouse	Designated Part IV of the OHA (By-law 504-78) Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015)
SD-034	59 Adelaide Street East	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015)
SD-035	67 Adelaide Street East	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015)
SD-036	82 Church Street	Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015) Listed on the Municipal Heritage Register
SD-037	65-77 Church Street 125-145 Adelaide Street East 106 King Street East St. James Parish House and Diocesan Centre	Designated Part IV of the OHA (By-law 1097-01) Designated Part V of the OHA, St. Lawrence Neighbourhood (Bylaw 1328-2015)
SD-073	120 Adelaide Street West	Potential BHR/CHL Identified during field review
SD-074	100 Adelaide Street West Concourse Building	Listed on Municipal Heritage Register
SD-075	76 Adelaide Street West and 63 Temperance Street	Potential BHR/CHL Identified during field review
SD-076	328-330 Bay Street Northern Ontario Building	Listed on Municipal Heritage Register
SD-077	347 Bay Street National Building	Designated Part IV of the OHA (By-law 795-2006)
SD-078	118 Yonge Street and 2-14 Adelaide Street West Bay Adelaide Centre	Listed on Municipal Heritage Register

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-079	9 Temperance Street	Designated Part IV of the OHA (By-law 376-96)
SD-080	111-115 Yonge Street and 6 Adelaide Street East Lumsden Building	Designated Part IV of the OHA (By-law 8-78)
SD-081	8-10 Adelaide Street East Canadian Birkbeck Investment and Savings Company	Designated Part IV of the OHA (By-law 82-76)
SD-082	73 Victoria Street Comstock Building	Designated Part IV of the OHA (By-law 854-88)
SD-083	60 Adelaide Street East	Potential BHR/CHL Identified during field review
SD-084	111-117 Richmond Street West Yolles and Rotenberg Building	Designated Part IV of the OHA (By-law 659-00)
SD-085	85 Richmond Street West The Federal Building	Designated Part IV of the OHA (By-law 960-88; 783-2018)
SD-086	73 Richmond Street West Graphic Arts Building	Designated Part IV of the OHA (By-law 559-80)
SD-087	67 Richmond Street West	Potential BHR/CHL Identified during field review
SD-088	372 Bay Street Sterling Tower	Listed on Municipal Heritage Register
SD-089	26 Lombard Street 20 Lombard Street 25 Richmond Street East R.G. McLean Company Building Barclay, Clark and Company Building	Designated Part IV of the OHA (By-law 531-82; 1035-2015)
SD-090	55 Richmond St E 122 Church Street McVeigh's Pub	Potential BHR/CHL Identified during field review
SD-091	80 Richmond Street West Victory Building	Listed on Municipal Heritage Register
SD-092	50 Richmond Street East	Potential BHR/CHL Identified during field review

Ref. #	Location/Address and Property Name	Heritage Recognition
SD-093	70 Richmond Street East	Potential BHR/CHL Identified during field review
SD-094	115d Church Street	Potential BHR/CHL Identified during field review
SD-095	119-121 Church Street	Potential BHR/CHL Identified during field review
SD-096	125-127 Church Street	Potential BHR/CHL Identified during field review

4.5.4 Ontario Line North

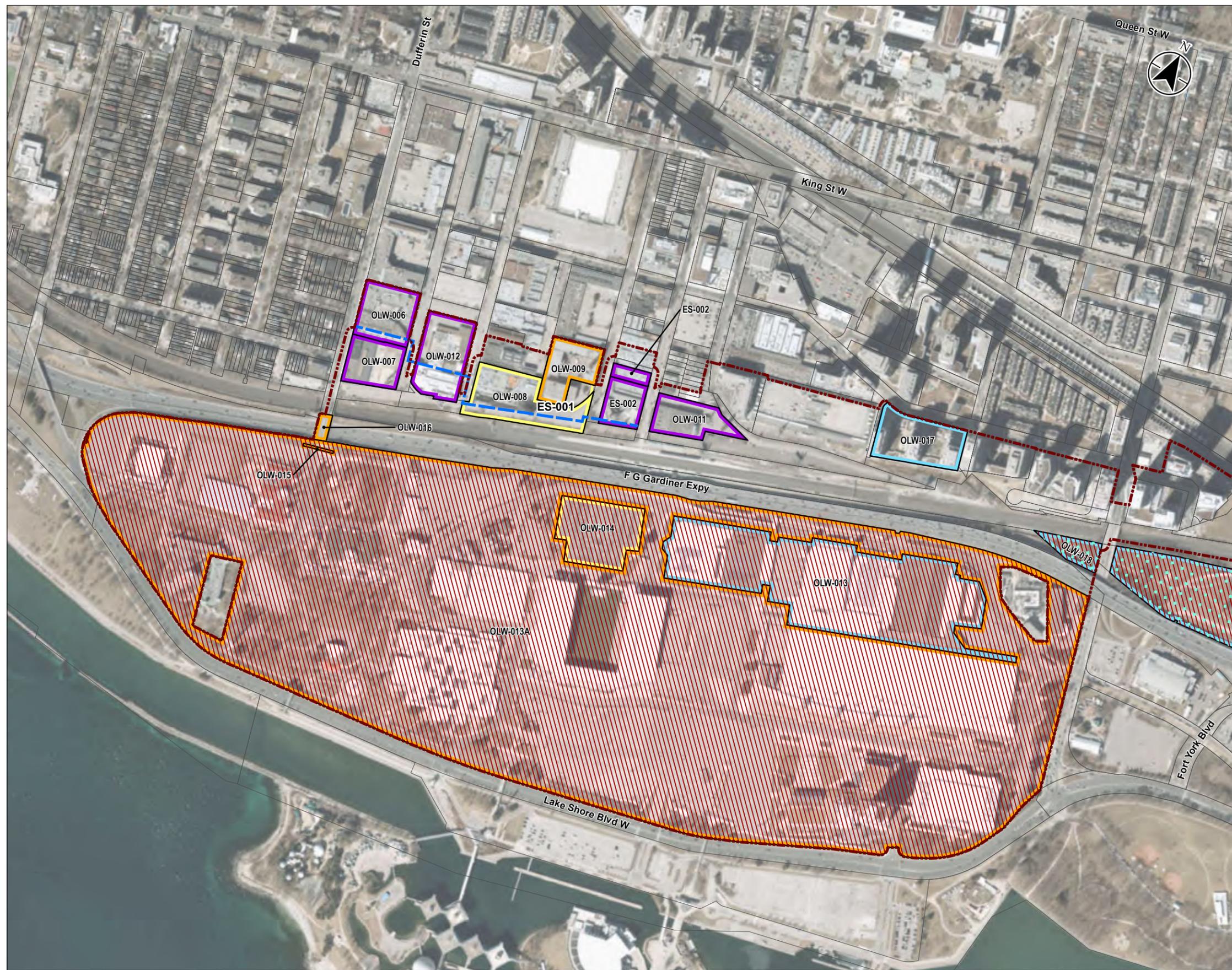
Of the 272 BHRs, CHLs and HCDs identified as being in the Study Area, a total of 19 are located in the OLN section (see **Figure 4-31-6** to **Figure 4-31-9**), as summarized in **Table 4-10**.

Table 4-10. Built Heritage Resources, Cultural Heritage Landscapes, and Heritage Conservation Districts, Ontario Line North

Ref. #	Location/Address and Property Name	Heritage Recognition
OLN-001	849 Don Mills Road	Listed on Municipal Heritage Register (January 29, 2020)
OLN-004	789 Don Mills Road Foresters Building	Previously Identified BHR/CHL (Don Mills Crossing Secondary Plan)
OLN-005	770 Don Mills Road Ontario Science Centre	Listed on the Municipal Heritage Register (April 25-27, 2006) Provincial Heritage Property of Provincial Significance
OLN-008	55 Gateway Boulevard	Listed on Municipal Heritage Register (February 14, 2006)
OLN-009	42-46 Overlea Boulevard Façade of Coca Cola Company of Canada Bottling Plant – Incorporated into Costco Store	Designated under Part IV of the OHA (By- Law #425-2017, Enacted May 17, 2017) City of Toronto Heritage Easement Agreement, AT4590048. (June 6, 2017)
OLN-010	1080 Millwood Road Leaside Transformer Station	Previously Identified BHR/CHL Provincial Heritage Property

Ref. #	Location/Address and Property Name	Heritage Recognition
OLN-013	126 O'Connor Drive Don Mills United Church and Cemetery	Potential BHR/CHL Identified during field review Listed on Ontario Heritage Trust Places of Worship Inventory
OLN-014	1311 Pape Avenue	Listed on Municipal Heritage Register (September 27, 2006)
OLN-017	1083 Pape Avenue Royal Canadian Legion, Branch No. 10	Potential BHR/CHL Identified during field review
OLN-018	100 Torrens Avenue	Potential BHR/CHL Identified during field review
OLN-019	1041 Pape Avenue	Potential BHR/CHL Identified during field review Listed on Ontario Heritage Trust Places of Worship Inventory
OLN-020	968-1042 Pape Avenue 947-1031 Pape Avenue Commercial Streetscape	Potential BHR/CHL Identified during field review
OLN-021	746 Pape Avenue Calvary Church	Potential BHR/CHL Identified during field review (Note, not listed on Ontario Heritage Trust Places of Worship Inventory)
OLN-022	606 Danforth Avenue Church of the Holy Name	Listed on Municipal Heritage Register (August 18, 1976) Listed on Ontario Heritage Trust Places of Worship Inventory
OLN-023	646-650 Danforth Avenue Royal Bank of Canada Branch	Listed on Municipal Heritage Register (October 17, 1983)
OLAN-001	50 Eaton Avenue	Potential BHR/CHL Identified during field review
OLAN-002	48 Eaton Avenue	Potential BHR/CHL Identified during field review
OLAN-003	The Don Valley Paper Company Middle Mill	Potential BHR/CHL Identified during field review
OLAN-004	21 Redway Road	Potential BHR/CHL Identified during field review

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- Legend**
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Designated under Part IV of the OHA
 - Listed on Municipal Heritage Register
 - Potential BHR/CHL
 - Previously Identified BHR/CHL
 - Liberty Trail
 - National Historic Sites
 - Known or Potential PHPPS



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 160560009 REV4
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Client/Project
 HDR CORPORATION
 ONTARIO LINE TA

Figure No.
4-31-1
 Title
Built Heritage Resources and Cultural Heritage Landscapes

- Legend**
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Designated under Part IV of the OHA
 - Listed on Municipal Heritage Register
 - Potential BHR/CHL
 - Additional CH Properties
 - National Historic Sites
 - Known or Potential PHPPS
 - Heritage Conservation Districts**
 - Designated District
 - Under Appeal



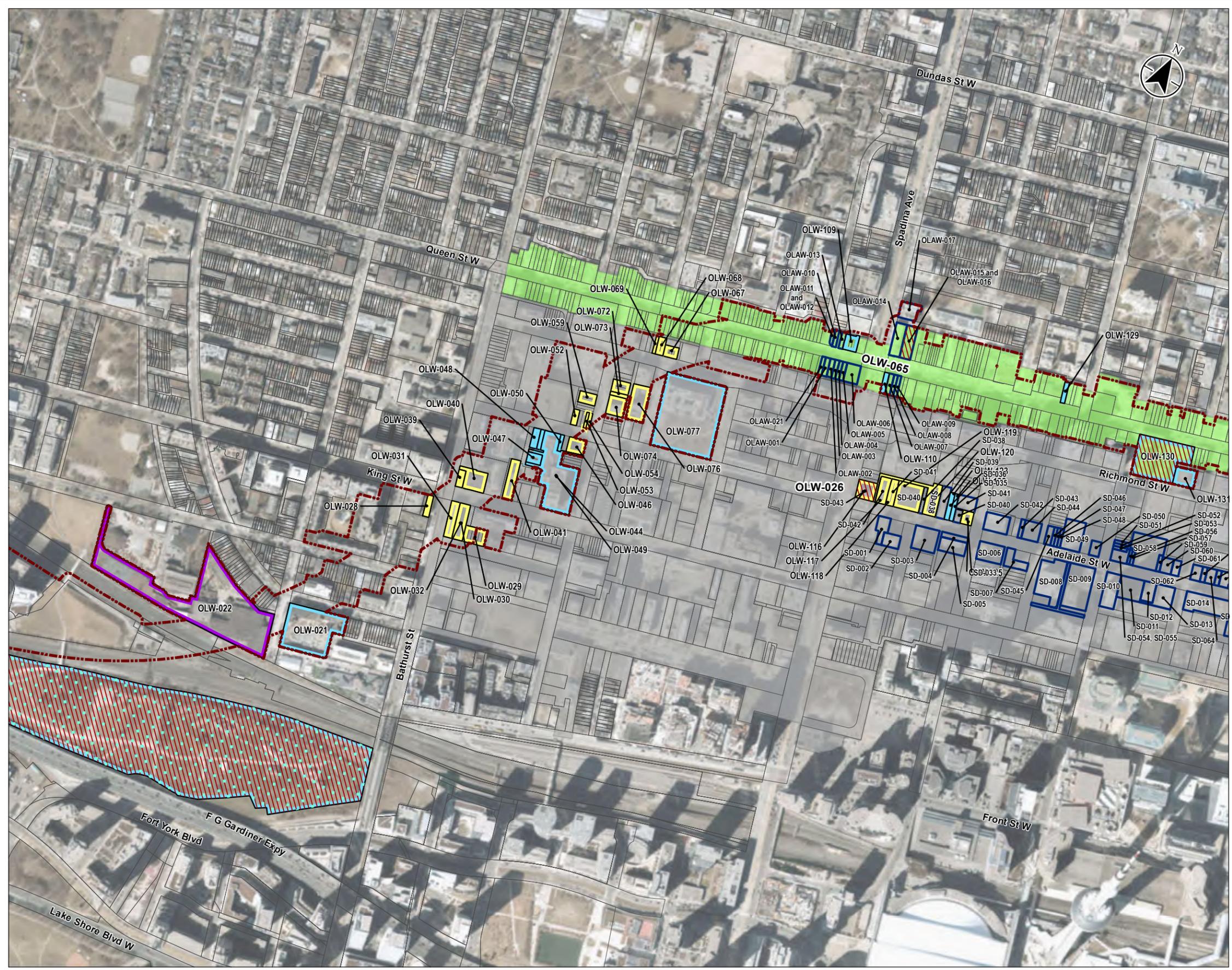
- Notes**
1. Coordinate System: NAD27 MTM zone 10
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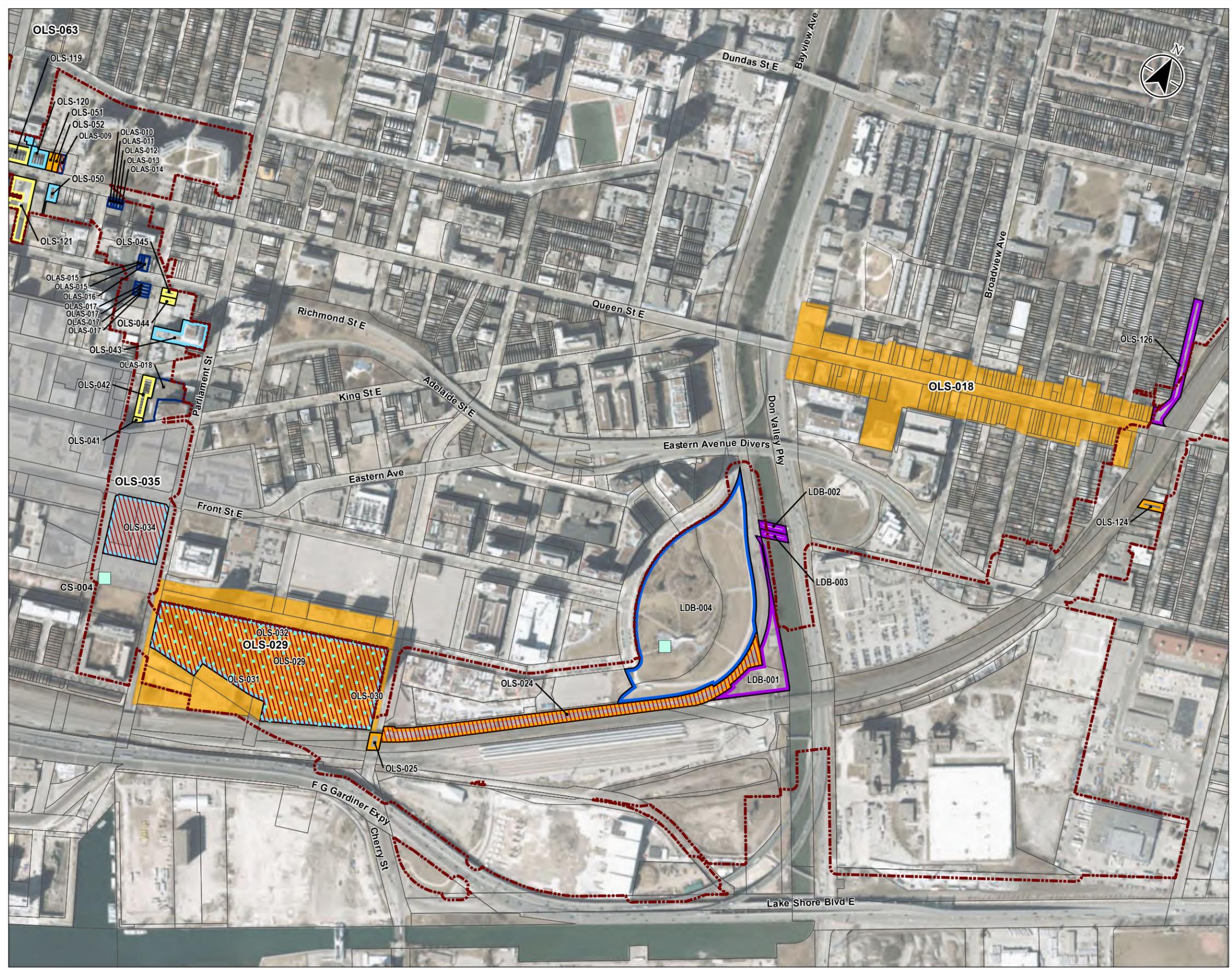
Client/Project
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Figure No.
4-31-2
 Title
Built Heritage Resources and Cultural Heritage Landscapes

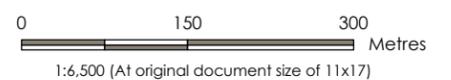


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 Revised: 2022-01-31 By: bccowser

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 Revised: 2022-01-31 By: bccowser



- Legend**
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Cultural Heritage Plaque
 - Designated under Part IV of the OHA
 - Listed on Municipal Heritage Register
 - Potential BHR/CHL
 - Previously Identified BHR/CHL
 - Property with Location of Commemorative Plaque
 - Additional CH Properties
 - National Historic Sites
 - Known or Potential PPHPS
- Heritage Conservation Districts**
- Under Study
 - Under Appeal



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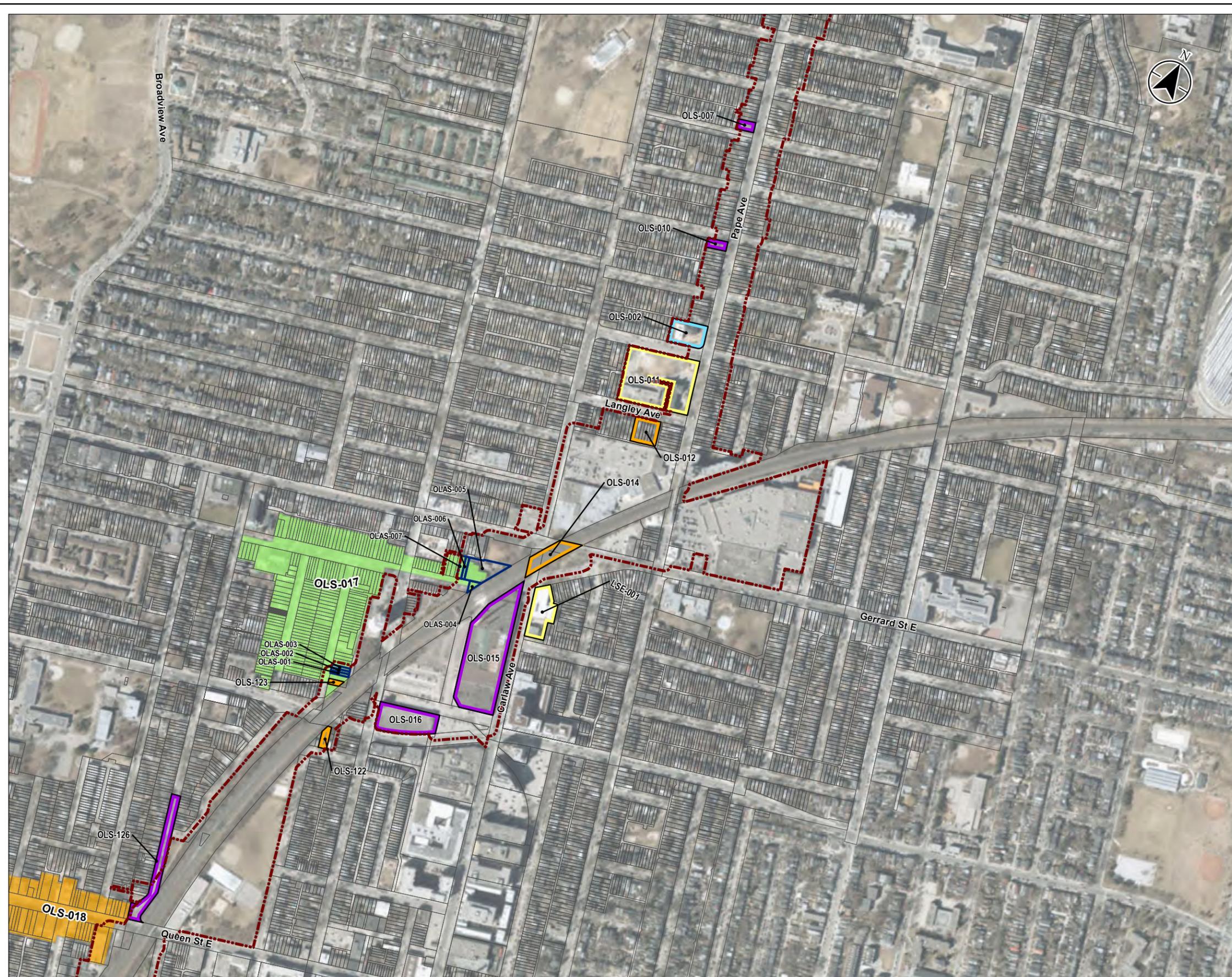


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Figure No.
4-31-4
 Title
Built Heritage Resources and Cultural Heritage Landscapes

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- Legend**
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Designated under Part IV of the OHA
 - Listed on Municipal Heritage Register
 - Potential BHR/CHL
 - Previously Identified BHR/CHL
 - Additional CH Properties
- Heritage Conservation Districts**
- Designated District
 - Under Study



- Notes**
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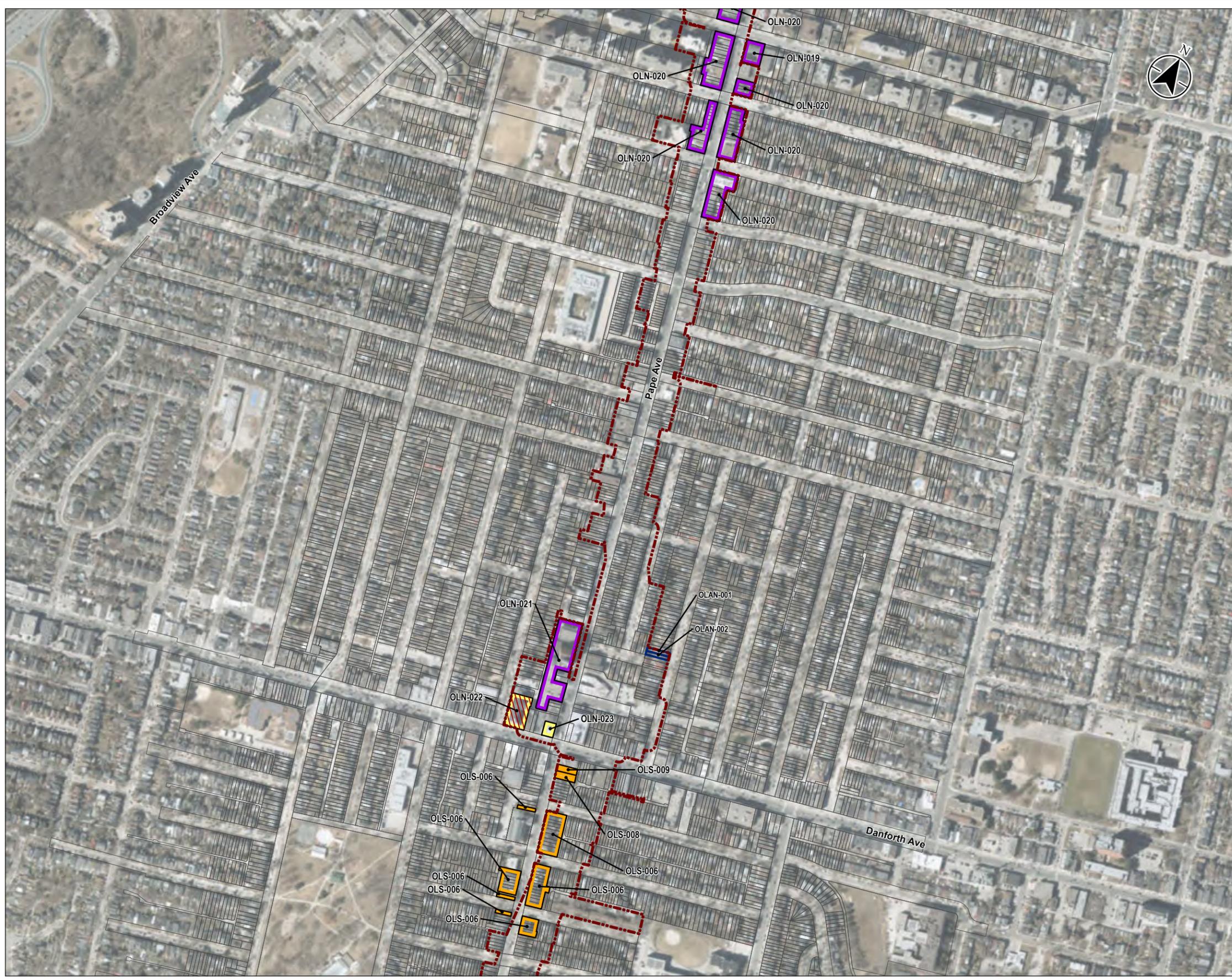


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Client/Project
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 ONTARIO LINE TA

Figure No.
4-31-5
 Title
Built Heritage Resources and Cultural Heritage Landscapes

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- Legend
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Listed on Municipal Heritage Register
 - Potential BHR/CHL
 - Previously Identified BHR/CHL
 - Additional CH Properties
 - Known or Potential PHPPS



- Notes
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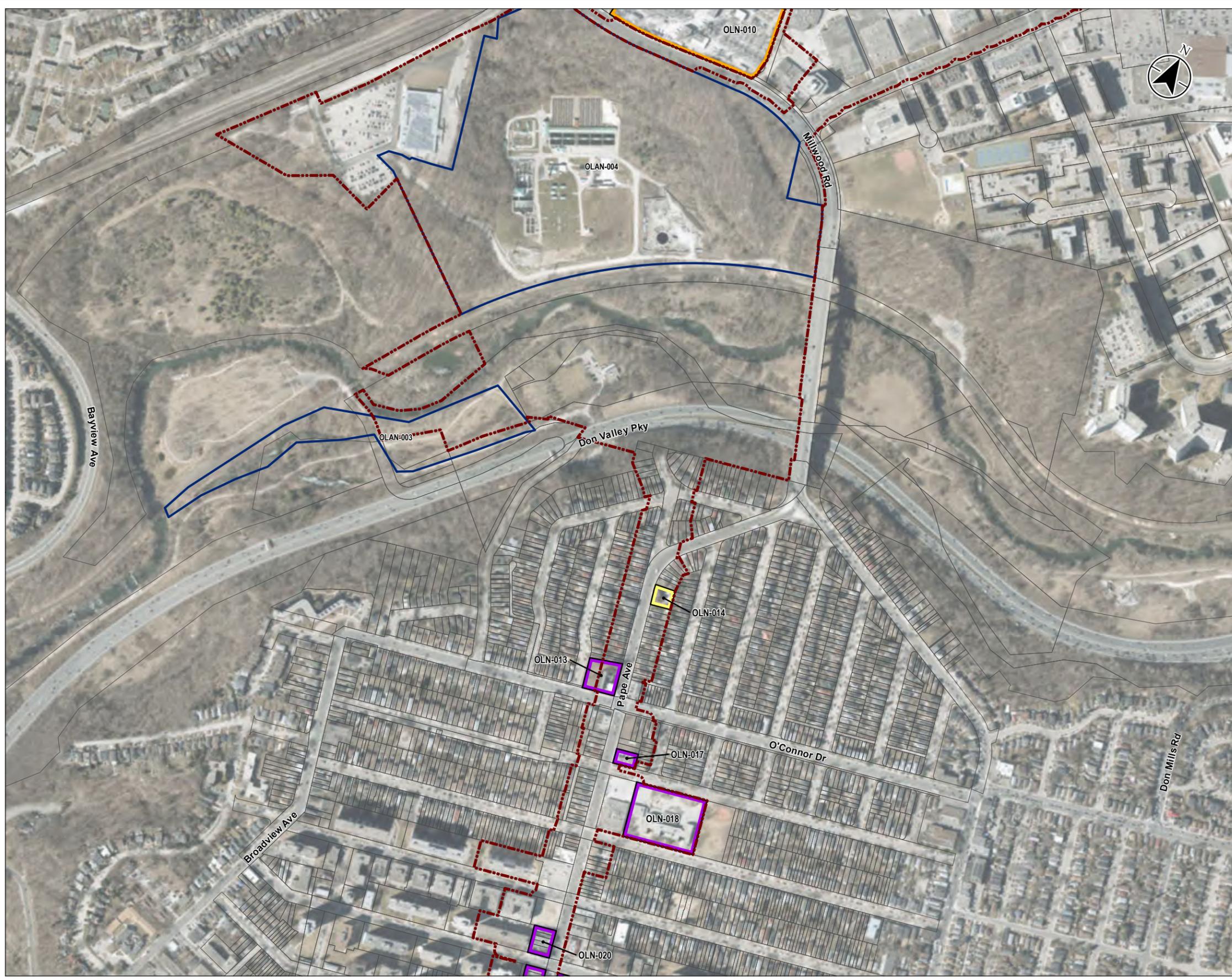


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Figure No.
4-31-6
Title
Built Heritage Resources and Cultural Heritage Landscapes

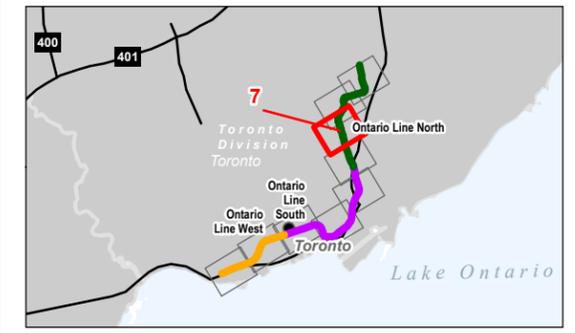
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- Legend
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Listed on Municipal Heritage Register
 - Potential BHR/CHL
 - Previously Identified BHR/CHL
 - Additional CH Properties



- Notes
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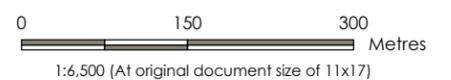
Client/Project
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 ONTARIO LINE TA

Figure No.
4-31-7
 Title
Built Heritage Resources and Cultural Heritage Landscapes

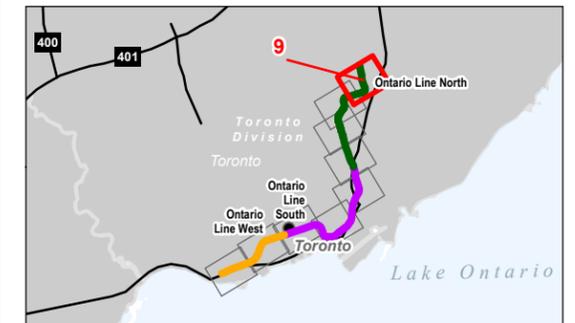
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- Legend
- Heritage Detailed Design Report Study Area
 - Property Parcel
 - Listed on Municipal Heritage Register
 - Previously Identified BHR/CHL
 - Known or Potential PHPPS



- Notes
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Client/Project
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Figure No.
4-31-9
 Title
Built Heritage Resources and Cultural Heritage Landscapes

4.6 Archaeological Resources

Archaeological resources are physical remnants recovered from the ground surface or below its surface which show evidence of past human activity. If present, these resources provide information on past human use of, and interaction with, the physical environment in the area. Archaeological resources may be from the earliest times of human occupation to the more recent past (e.g., 100 years before present).

4.6.1 Methodology

Stantec conducted a Stage 1 Archaeological Assessment in 2022 to consolidate and update previous archaeological investigations of the Project (see **Appendix A3**). AECOM had previously produced three Stage 1 archaeological assessment reports for the Project in 2020, dividing the Project into west (AECOM 2020e), south (AECOM 2020f), and north (AECOM 2020g) segments. In 2021, based upon additional information, AECOM then updated and modified their archaeological potential determinations and recommendations for the south segment in an "Addendum" report (AECOM 2021a) which superseded the previous south segment report. The findings of the Stage 1 Archaeological Assessment Environmental Conditions Reports (2020h) were reviewed and updated as appropriate to reflect the current Project understanding, scope, and footprint. The objectives of this assessment were to:

- provide information about the study area's geography, history, previous archaeological fieldwork, and current land conditions
- evaluate the study area's archaeological potential which will support recommendations for further archaeological assessment for all or parts of the property
- recommend appropriate strategies for further archaeological assessment, if required

The Stage 1 Archaeological Assessment was completed in compliance with the provincial standards and guidelines set out in the MHSTCI's 2011 *Standards and Guidelines for Consultant Archaeologists* (Government of Ontario 2011). Since the Stage 1 Archaeological Assessment produced by Stantec will be reviewed by the MHSTCI, the archaeological potential as illustrated in Figures 15.1 to 15.19 in **Appendix A3** is subject to revision.

The existing conditions for the Project were identified by employing the following research strategies:

- Review of relevant archaeological, historic, and environmental literature pertaining to the study area
- Review of land use history, including pertinent historic maps
- Examination of the Ontario Archaeological Sites Database to determine the presence of registered archaeological sites in and around the study area
- Review of the City of Toronto archaeological management plan to identify predetermined areas of archaeological potential
- Property inspection of the study area

Archaeological potential was determined based on the review of previous archaeological assessment recommendations, the identification of features indicating archaeological potential in or in proximity to the study area, as defined by the MHSTCI (Government of Ontario 2011: Section 1.3.1), the City of Toronto's mapping of archaeological potential under the *Master Plan of Archaeological Resources for the City of Toronto*, as well as the presence or absence of on-site conditions which indicate that archaeological potential has been removed (e.g. deep and extensive prior disturbance).

Further details regarding archaeological resources can be found in **Appendix A3**.

4.6.2 Ontario Line West

Based on the applied criteria described in the methodology section and previous assessments conducted on the area, it was determined that there is potential for the recovery of pre-and and post-contact Indigenous and 19th century Euro-Canadian archaeological resources.

Approximately 0.481 hectares of the OLW Study Area was identified as possessing archaeological potential for which Stage 2 archaeological assessment is recommended (see **Figure 4-32-1** to **Figure 4-32-4**).

Approximately 1.07 hectares of the OLW Study Area are considered to possess low to no archaeological potential due to deep and extensive land alterations that have severely damaged the integrity of any archaeological resources. In addition, approximately 6.085 hectares of the OLW Study Area require tunneling through bedrock and, therefore, there will be no impact to soils containing archaeological resources; no further archaeological assessment is required for those segments. The remainder of the OLW Study Area has been previously assessed.

4.6.3 Ontario Line South

Based on the applied criteria described in the methodology section and previous assessments conducted on the area, it was determined that there is potential for the recovery of pre-and and post-contact Indigenous and 19th century Euro-Canadian archaeological resources.

Approximately 3.658 hectares of the OLS Study Area was identified as possessing archaeological potential for which Stage 2 archaeological assessment is recommended (see **Figure 4-32-4** to **Figure 4-32-13**).

Approximately 1.64 hectares of the OLS Study Area are considered to possess low to no archaeological potential due to deep and extensive land alterations that have severely damaged the integrity of any archaeological resources. In addition, approximately 7.869 hectares of the OLS Study Area require tunneling through bedrock and, therefore, there will be no impact to soils containing archaeological resources; no further archaeological assessment is required for those segments. The remainder of the OLS Study Area has been previously assessed.

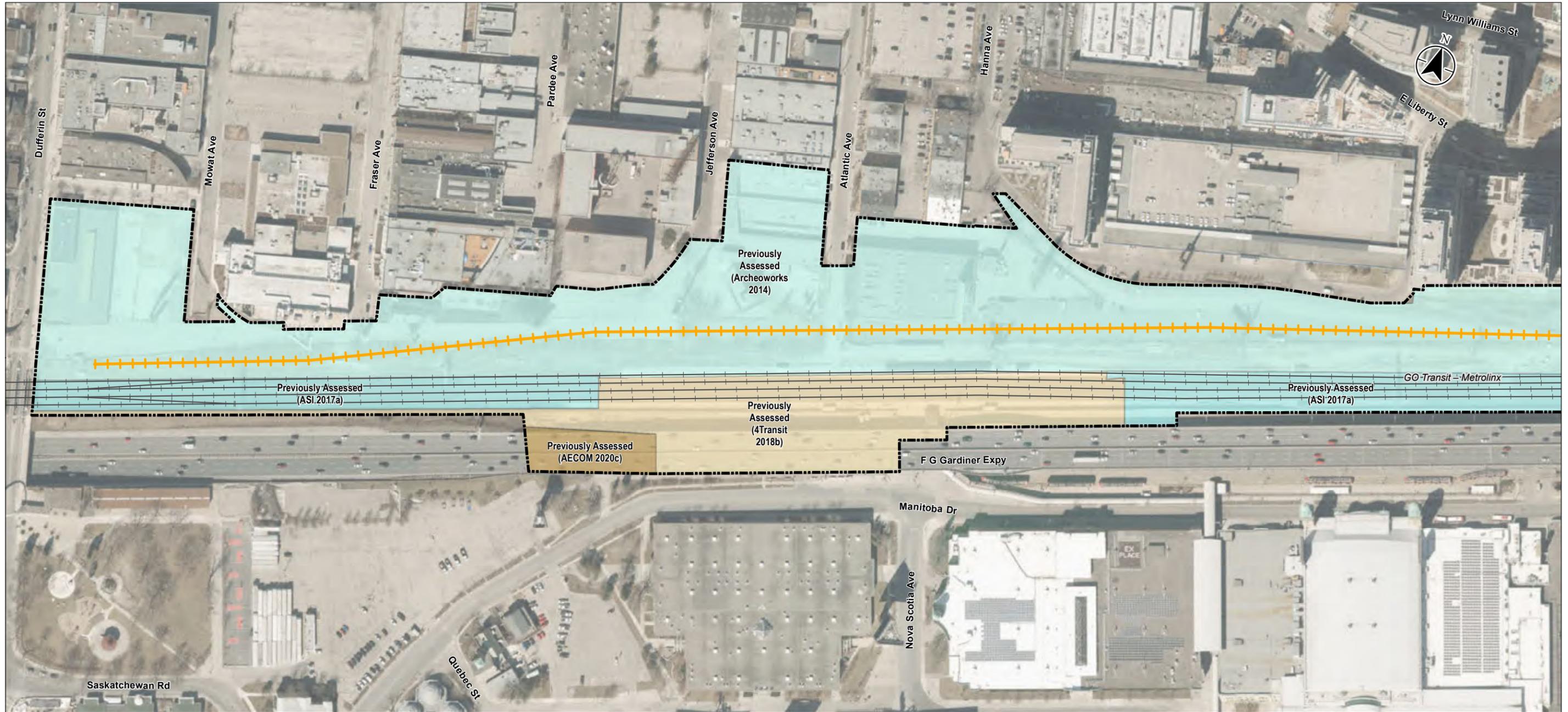
Additionally, the desktop review identified two registered archaeological sites located in the OLS Study Area with outstanding cultural heritage value or interest. These are Parliament site, and the Lime Kiln works site. In accordance with previous assessments (ASI 2012; Archeoworks 2009), Stage 4 mitigation is recommended for these sites.

4.6.4 Ontario Line North

Based on the applied criteria described in the methodology section and previous assessments conducted on the area, it was determined that there is potential for the recovery of pre-and and post-contact Indigenous and 19th century Euro-Canadian archaeological resources.

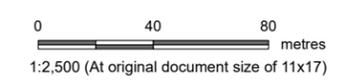
Approximately 27.256 hectares of the OLN Study Area was identified as possessing archaeological potential for which Stage 2 archaeological assessment is recommended (see **Figure 4-32-13** to **Figure 4-32-19**).

Approximately 2.621 hectares of the OLN Study Area are considered to possess low to no archaeological potential due to deep and extensive land alterations that have severely damaged the integrity of any archaeological resources, or due to being steeply sloped. In addition, approximately 3.343 hectares of the OLN Study Area require tunneling through bedrock and, therefore, there will be no impact to soils containing archaeological resources; no further archaeological assessment is required for those segments. The remainder of the OLN Study Area has been previously assessed.



- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line West
 - Railway
 - Previously Assessed (Archeoworks 2014); No Further Work Recommended
 - Previously Assessed (4Transit 2018b); No Further Work Recommended
 - Previously Assessed (AECOM 2020c); No Further Work Recommended
 - Previously Assessed (ASI 2017a); No Further Work Recommended

Previously Assessed (Archeoworks 2014); No Further Work Recommended



Project Location: Toronto, ON
Prepared by BCC on 2022-01-31

Client/Project: HDR CORPORATION, ONTARIO LINE TA, STAGE 1 ARCHAEOLOGICAL ASSESSMENT
160560009 REVA

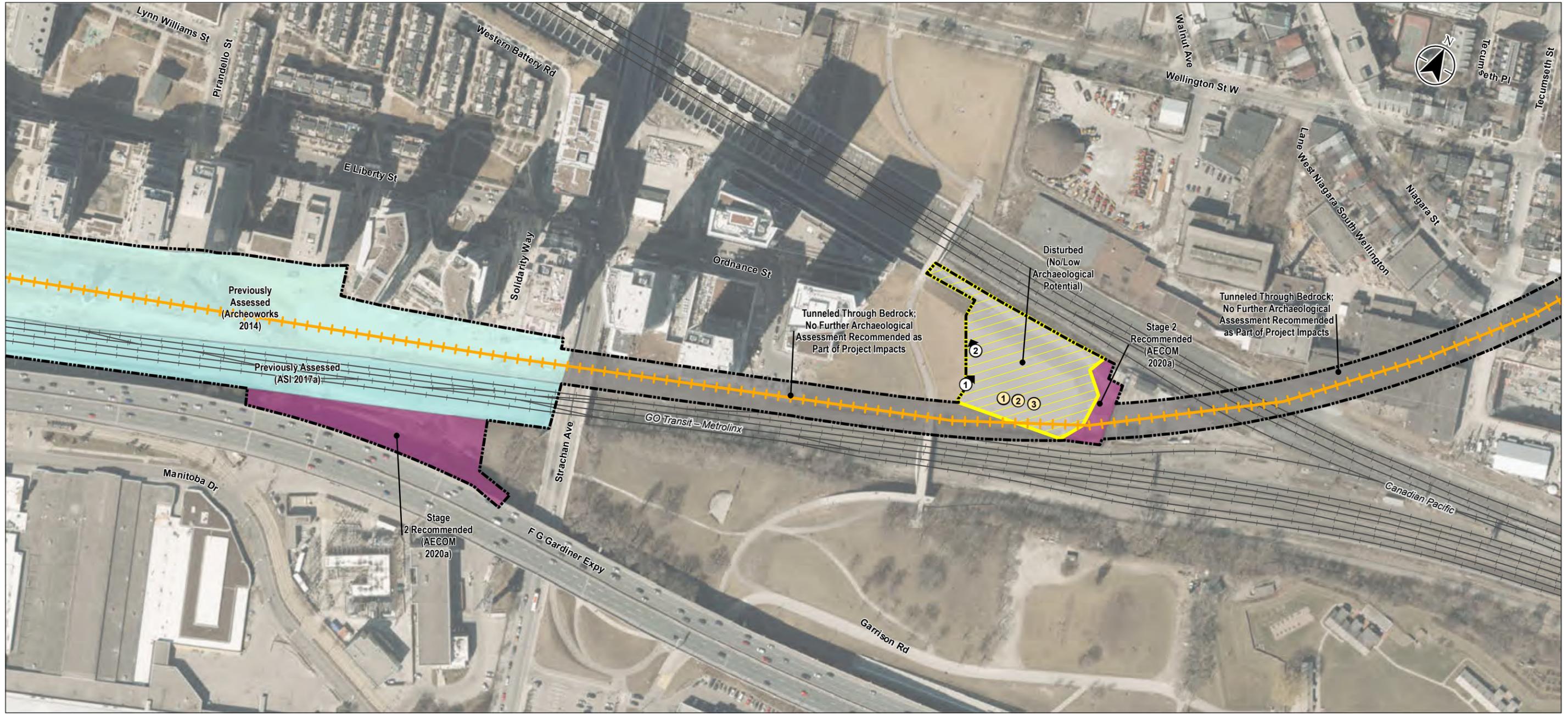
Figure No.: 4-32-1

Title: Archaeology Potential

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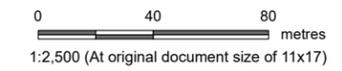
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Legend

- Project Footprint
- EIAR_Segment**
- Ontario Line West
- Railway
- Photo Location and Direction
- Plate Location
- Disturbed (No/Low Archaeological Potential); No Further Work Recommended
- Previously Assessed (ASI 2017a); No Further Work Recommended
- Previously Assessed (Archeoworks 2014); No Further Work Recommended
- Stage 2 Recommended (AECOM 2020a)
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts
- Areas with Recommendations Differing from Previous Stage 1 Reporting



Project Location: Toronto, ON
 Prepared by BCC on 2022-01-31

Client/Project: 160560009 REVA
 HDR CORPORATION
 ONTARIO LINE TA
 STAGE 1 ARCHAEOLOGICAL ASSESSMENT

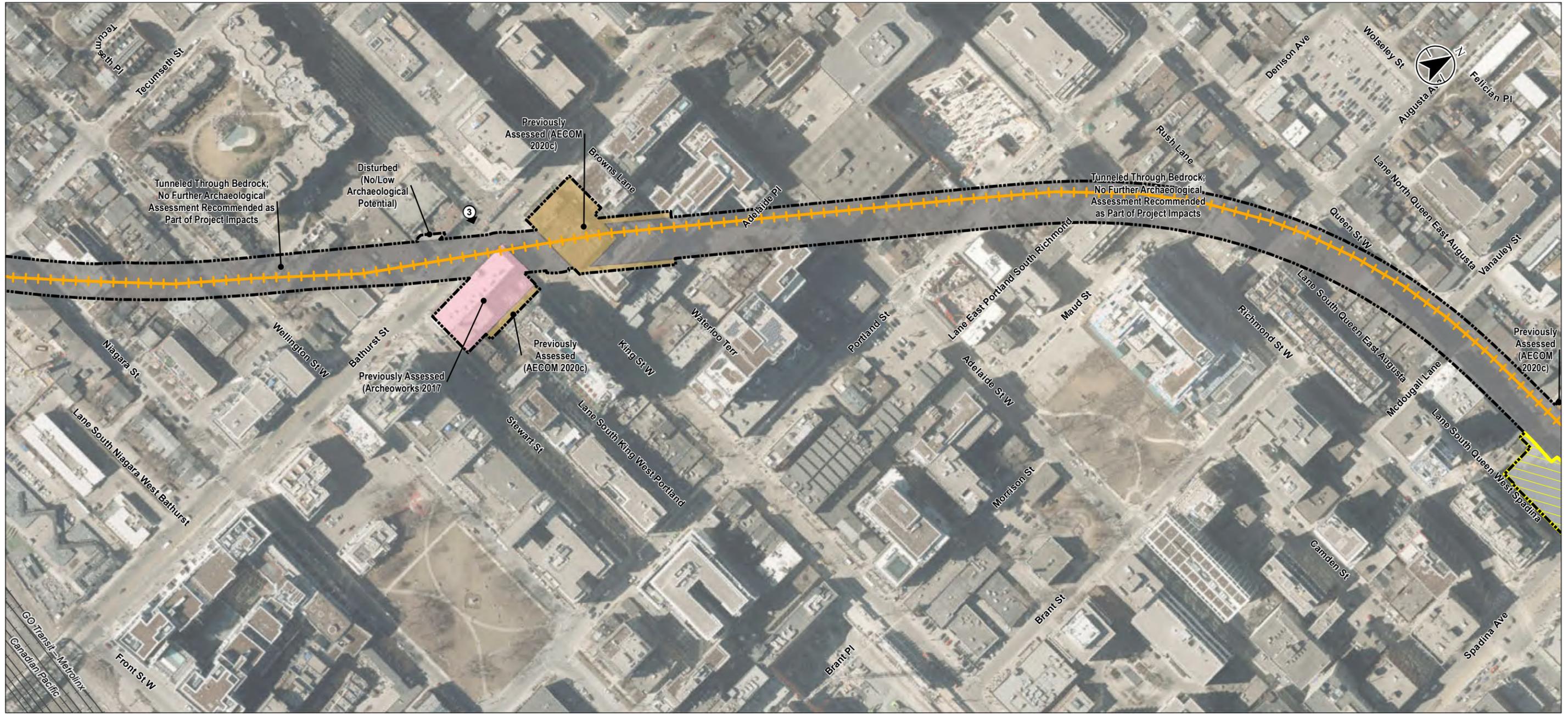
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Title: **Archaeology Potential**

Notes

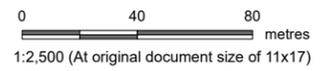
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Legend

- Project Footprint
- Ontario Line West
- Railway
- Photo Location and Direction
- Disturbed (No/Low Archaeological Potential); No Further Work Recommended
- Previously Assessed (AECOM 2020c); No Further Work Recommended
- Previously Assessed (Archeoworks 2017); No Further Work Recommended
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts
- Areas with Recommendations Differing from Previous Stage 1 Reporting



Project Location: Toronto, ON
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Client/Project: HDR CORPORATION, ONTARIO LINE TA, STAGE 1 ARCHAEOLOGICAL ASSESSMENT
 160560009 REVA

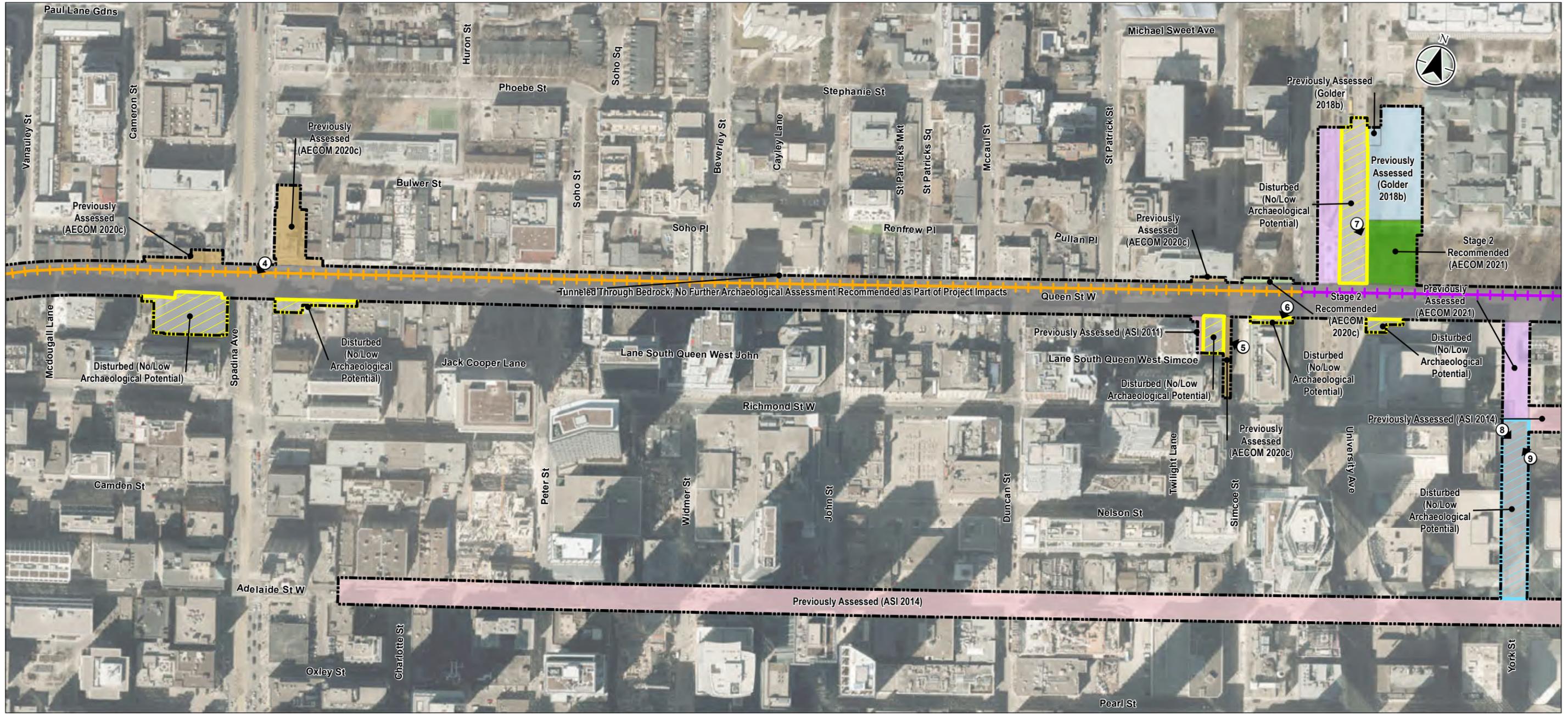
Figure No.: 4-32-3

Title: Archaeology Potential

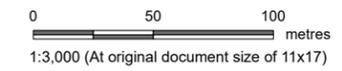
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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line West
 - Ontario Line South
 - Photo Location and Direction
 - Disturbed (No/Low Archaeological Potential); No Further Work Recommended
 - Previously Assessed (AECOM 2020c); No Further Work Recommended
 - Previously Assessed (AECOM 2021); No Further Work Recommended
 - Previously Assessed (ASI 2011); No Further Work Recommended
 - Previously Assessed (ASI 2014); No Further Work Recommended
 - Previously Assessed (Golder 2018b); No Further Work Recommended
 - Stage 2 Recommended (AECOM 2020c)
 - Stage 2 Recommended (AECOM 2021)
 - Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts
 - Areas with Recommendations Differing from Previous Stage 1 Reporting
 - Additional Areas Investigated Since the AECOM Stage 1 Reporting



Project Location
Toronto, ON

Client/Project
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ONTARIO LINE TA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.
4-32-4

Title
Archaeology Potential

Prepared by BCC on 2022-01-31

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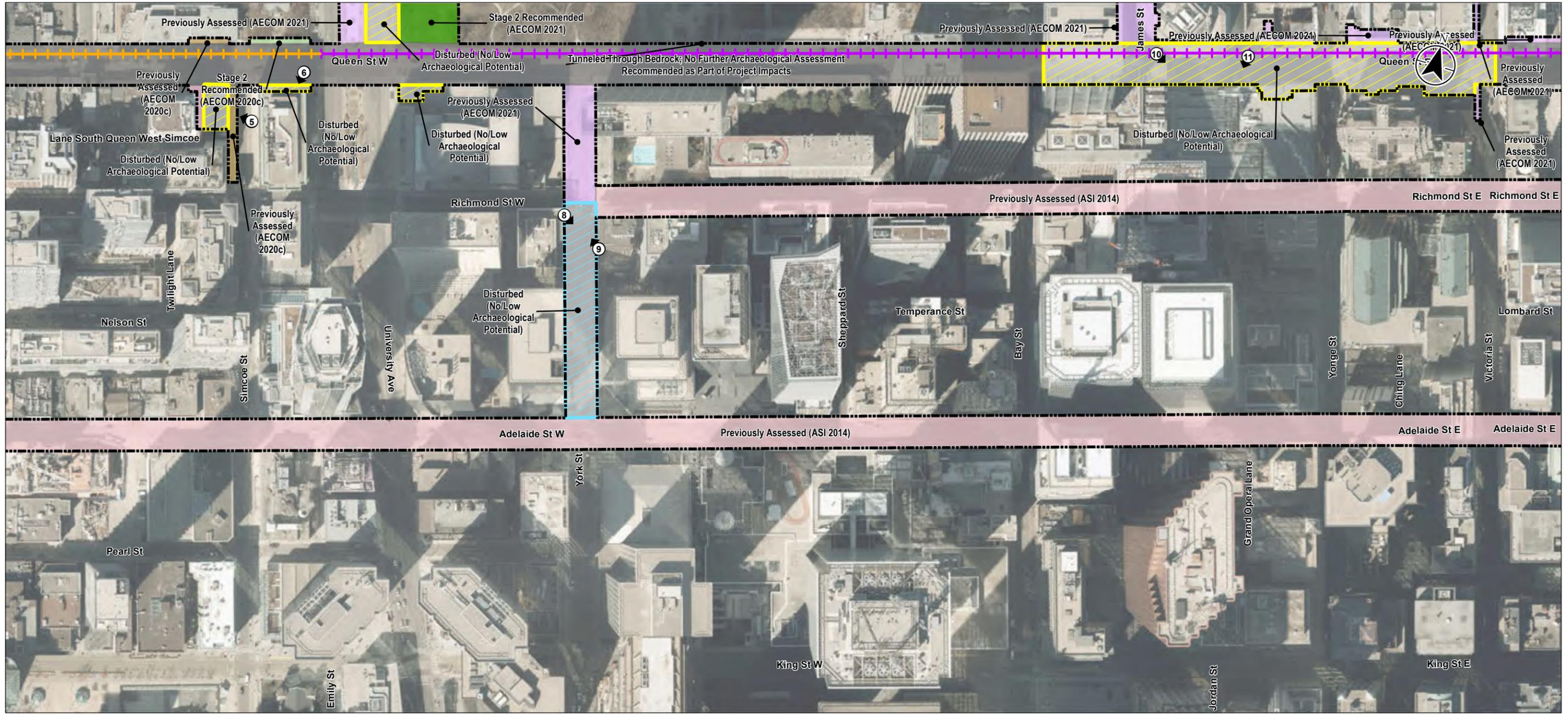
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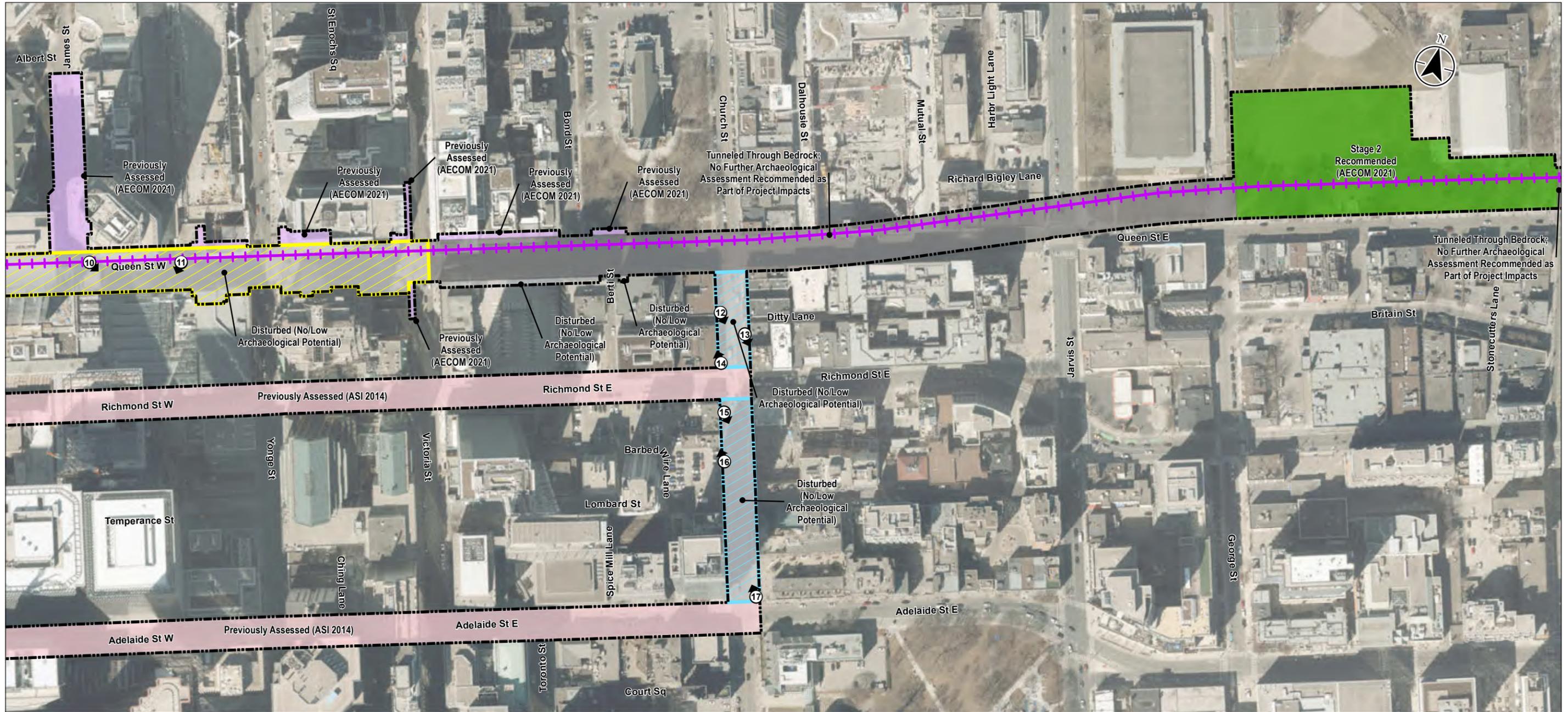
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- Project Footprint
- EIAR_Segment**
- Ontario Line West
- Ontario Line South
- Photo Location and Direction
- Disturbed (No/Low Archaeological Potential); No Further Work Recommended
- Previously Assessed (AECOM 2020c); No Further Work Recommended
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- Previously Assessed (ASI 2011); No Further Work Recommended
- Previously Assessed (ASI 2014); No Further Work Recommended
- Stage 2 Recommended (AECOM 2020c)
- Stage 2 Recommended (AECOM 2021)
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts
- Areas with Recommendations Differing from Previous Stage 1 Reporting
- Additional Areas Investigated Since the AECOM Stage 1 Reporting

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STAGE 1 ARCHAEOLOGICAL ASSESSMENT
Figure No. 4-32-5
Title Archaeology Potential



Legend

- Project Footprint
- EIAR_Segment**
- Ontario Line South
- Photo Location and Direction
- Disturbed (No/Low Archaeological Potential); No Further Work Recommended
- Previously Assessed (AECOM 2021); No Further Work Recommended
- Previously Assessed (ASI 2014); No Further Work Recommended
- Stage 2 Recommended (AECOM 2021)
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts
- Areas with Recommendations Differing from Previous Stage 1 Reporting
- Additional Areas Investigated Since the AECOM Stage 1 Reporting

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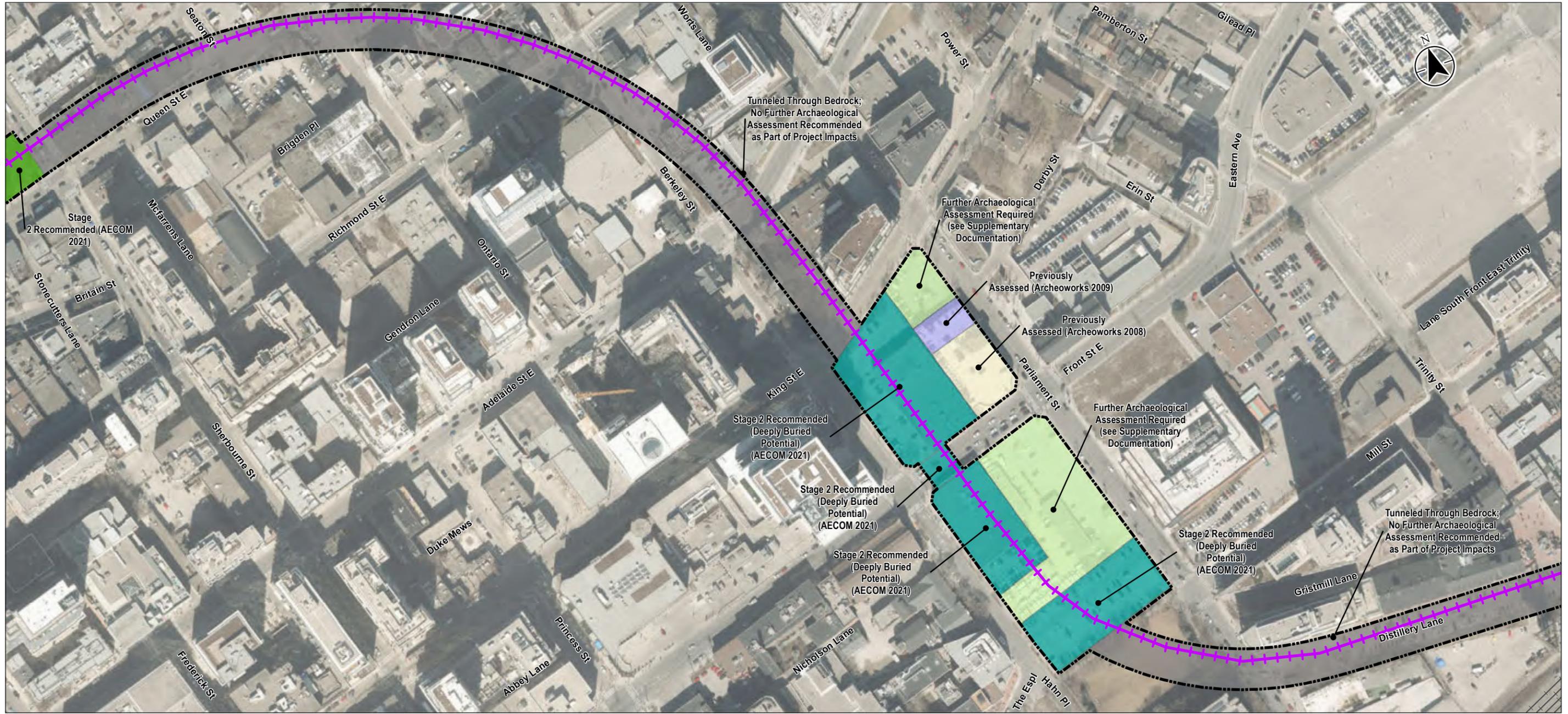


Project Location: Toronto, ON
Prepared by BCC on 2022-01-31

Client/Project: HDR CORPORATION, ONTARIO LINE TA
160560009 REVA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.: 4-32-6

Title: Archaeology Potential



- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line South
 - Railway
 - Further Archaeological Assessment Required (see Supplementary Documentation)
 - Previously Assessed (Archeoworks 2008); No Further Work Recommended
 - Previously Assessed (Archeoworks 2009); No Further Work Recommended

- Stage 2 Recommended (AECOM 2021)
- Stage 2 Recommended (Deeply Buried Potential) (AECOM 2021)
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

0 40 80 metres
1:2,500 (At original document size of 11x17)



Project Location
Toronto, ON

Client/Project
HDR CORPORATION
ONTARIO LINE TA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.
4-32-7

Title
Archaeology Potential

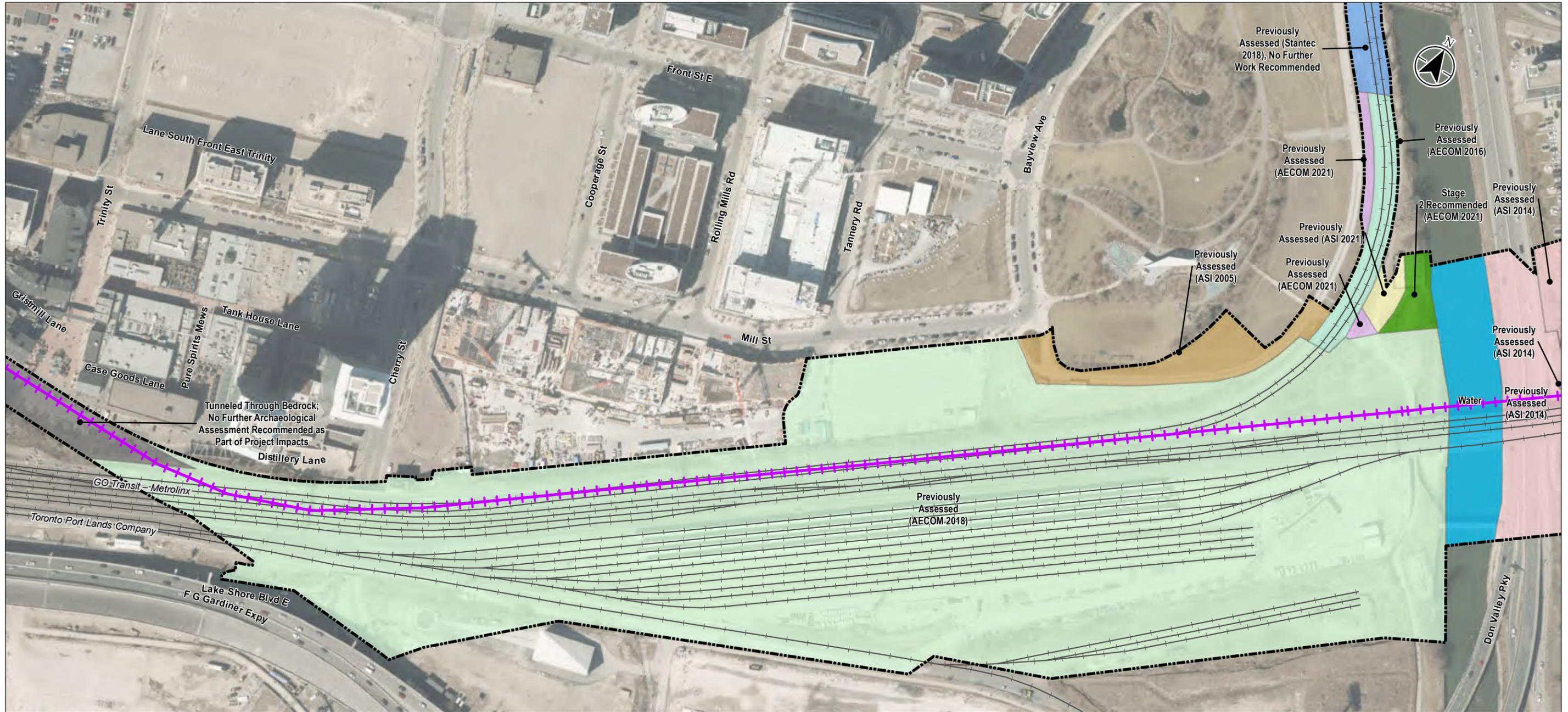
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Legend

Project Footprint

EIAR_Segment

Ontario Line South

Railway

Previously Assessed (Stantec 2018), No Further Work Recommended

Previously Assessed (AECOM 2016); No Further Work Recommended

Previously Assessed (AECOM 2018); No Further Work Recommended

Previously Assessed (AECOM 2021); No Further Work Recommended

Previously Assessed (AECOM 2021); No Further Work Recommended

Previously Assessed (AECOM 2021); No Further Work Recommended

Previously Assessed (ASI 2005); No Further Work Recommended

Previously Assessed (ASI 2014); No Further Work Recommended

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Stage 2 Recommended (AECOM 2021)

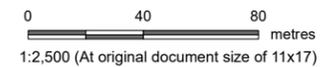
Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

Water

Water

Water



Project Location
Toronto, ON

Prepared by BCC on 2022-01-31

Client/Project

160560009 REVA

HDR CORPORATION
ONTARIO LINE TA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.

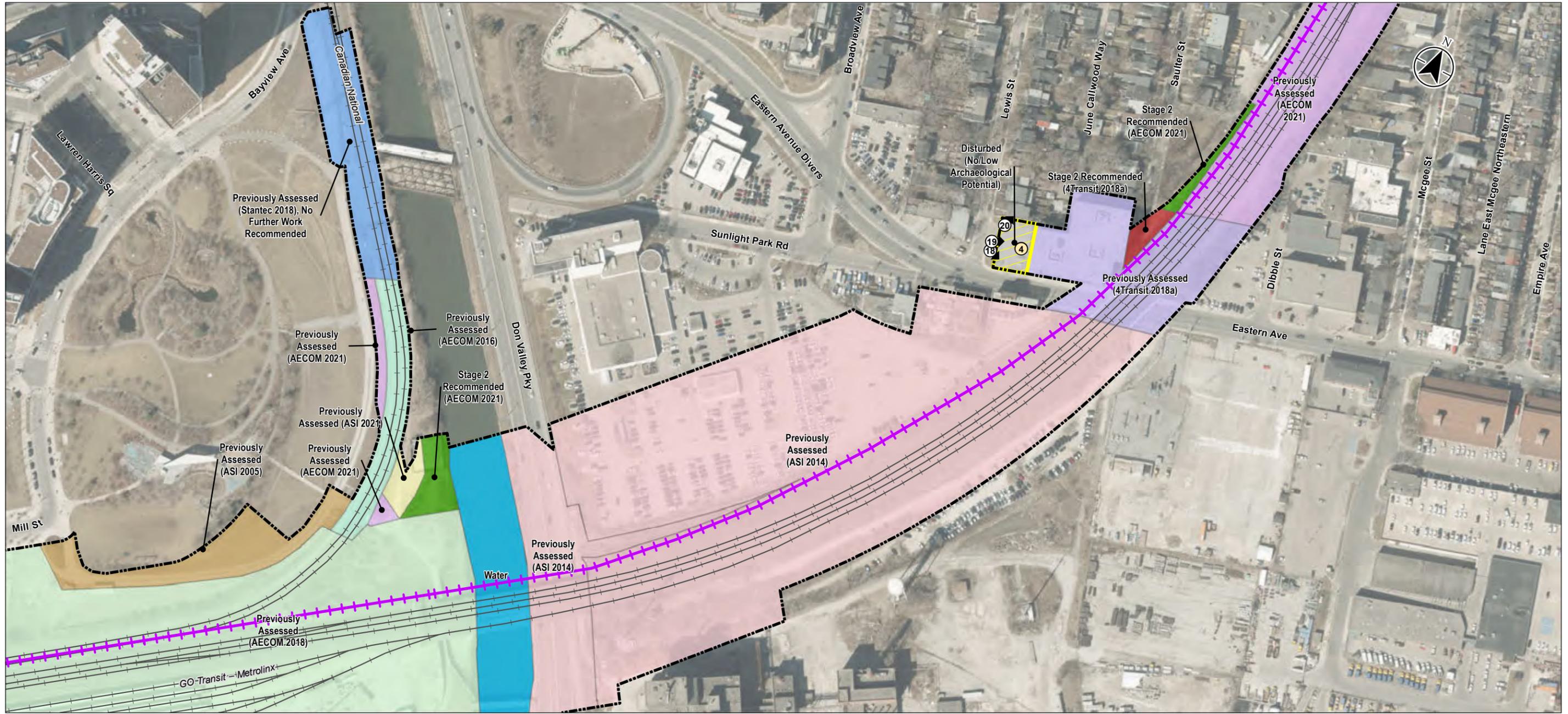
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Title

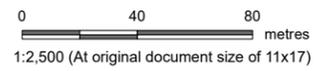
Archaeology Potential

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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line South
 - Railway
 - Photo Location and Direction
 - Plate Location
 - Disturbed (No/Low Archaeological Potential); No Further Work Recommended
 - Previously Assessed (Stantec 2018), No Further Work Recommended
 - Previously Assessed (AECOM 2016); No Further Work Recommended
 - Previously Assessed (AECOM 2018); No Further Work Recommended
 - Previously Assessed (ASI 2021); No Further Work Recommended
 - Stage 2 Recommended (AECOM 2021)
 - Stage 2 Recommended (4Transit 2018a)
 - Water
 - Areas with Recommendations Differing from Previous Stage 1 Reporting
 - Previously Assessed (4Transit 2018a); No Further Work Recommended
 - Previously Assessed (AECOM 2016); No Further Work Recommended
 - Previously Assessed (AECOM 2018); No Further Work Recommended
 - Previously Assessed (ASI 2021); No Further Work Recommended
 - Stage 2 Recommended (AECOM 2021)
 - Stage 2 Recommended (4Transit 2018a)
 - Water
 - Previously Assessed (ASI 2014); No Further Work Recommended
 - Previously Assessed (ASI 2005); No Further Work Recommended
 - Previously Assessed (ASI 2014); No Further Work Recommended



Project Location
Toronto, ON

Client/Project
HDR CORPORATION
ONTARIO LINE TA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.
4-32-9

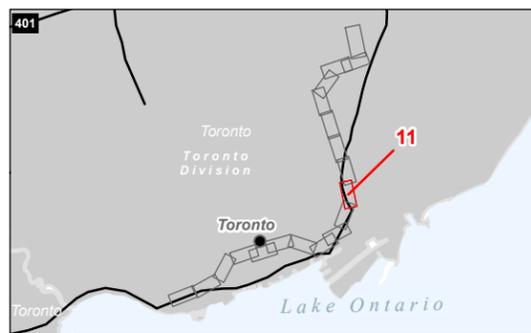
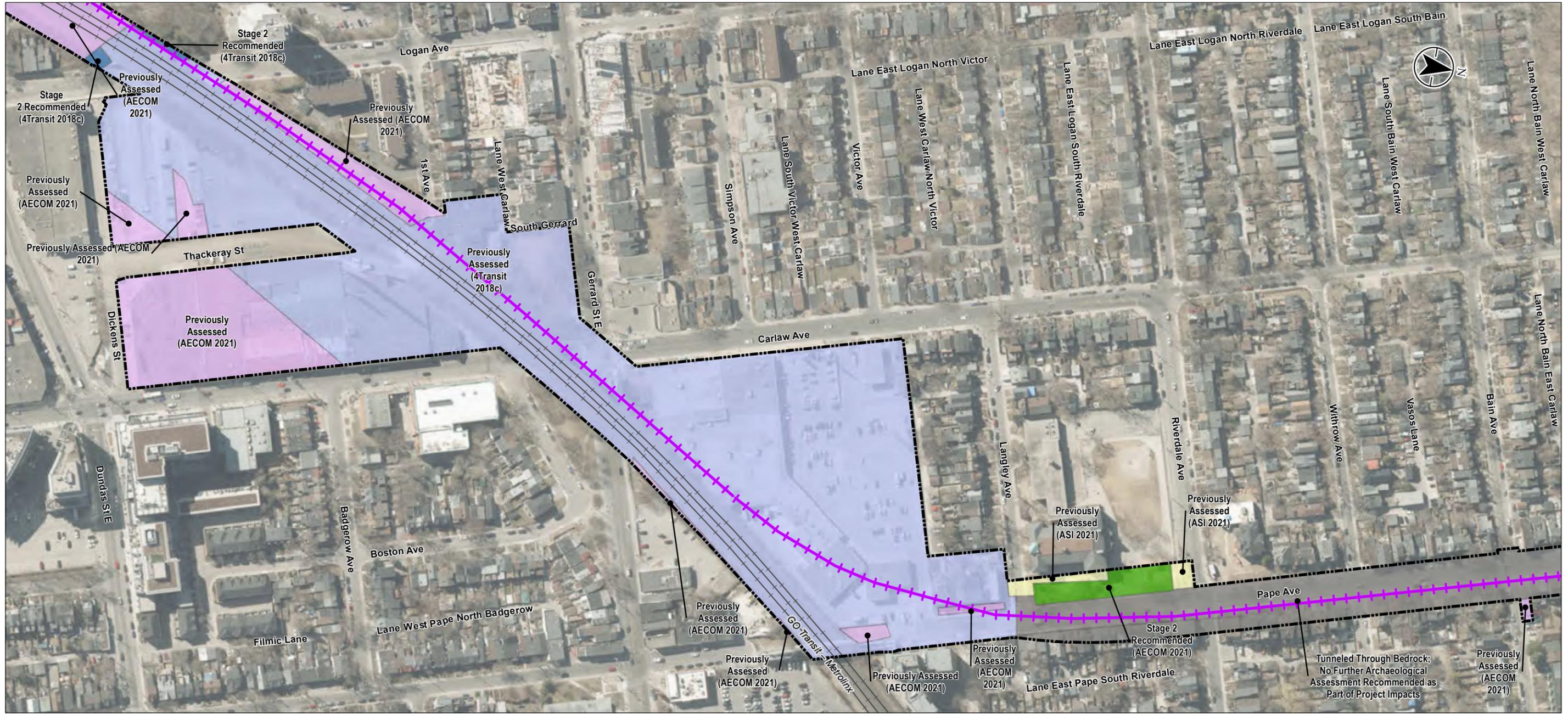
Title
Archaeology Potential

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- Legend**
- Project Footprint
 - EIAR_Segment**
 - - - Ontario Line South
 - Railway
 - Previously Assessed (4Transit 2018c); No Further Work Recommended
 - Previously Assessed (AECOM 2021); No Further Work Recommended
 - Previously Assessed (ASI 2021); No Further Work Recommended

- Stage 2 Recommended (AECOM 2021)
- Stage 2 Recommended (4Transit 2018c)
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

0 40 80 metres
1:2,500 (At original document size of 11x17)



Project Location
Toronto, ON

Client/Project
HDR CORPORATION
ONTARIO LINE TA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.
4-32-11

Title
Archaeology Potential

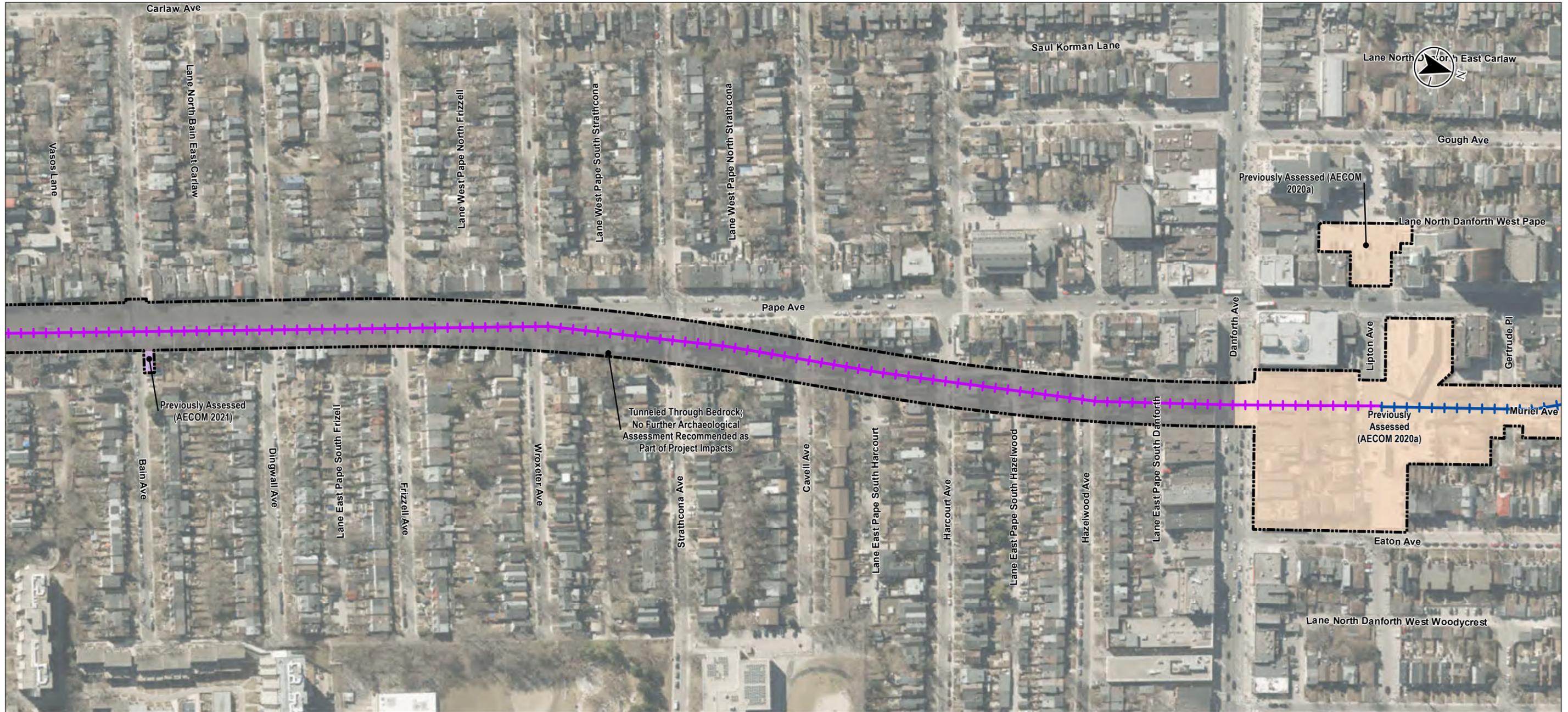
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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line South
 - Ontario Line North
 - Previously Assessed (AECOM 2020a); No Further Work Recommended
 - Previously Assessed (AECOM 2021); No Further Work Recommended
 - Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

0 40 80 metres
1:2,500 (At original document size of 11x17)



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Prepared by BCC on 2022-01-31

Client/Project: HDR CORPORATION, ONTARIO LINE TA, STAGE 1 ARCHAEOLOGICAL ASSESSMENT
160560009 REVA

Figure No.: 4-32-12

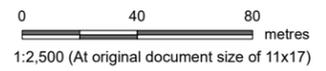
Title: Archaeology Potential

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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line North
 - Previously Assessed (AECOM 2020a); No Further Work Recommended
 - Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

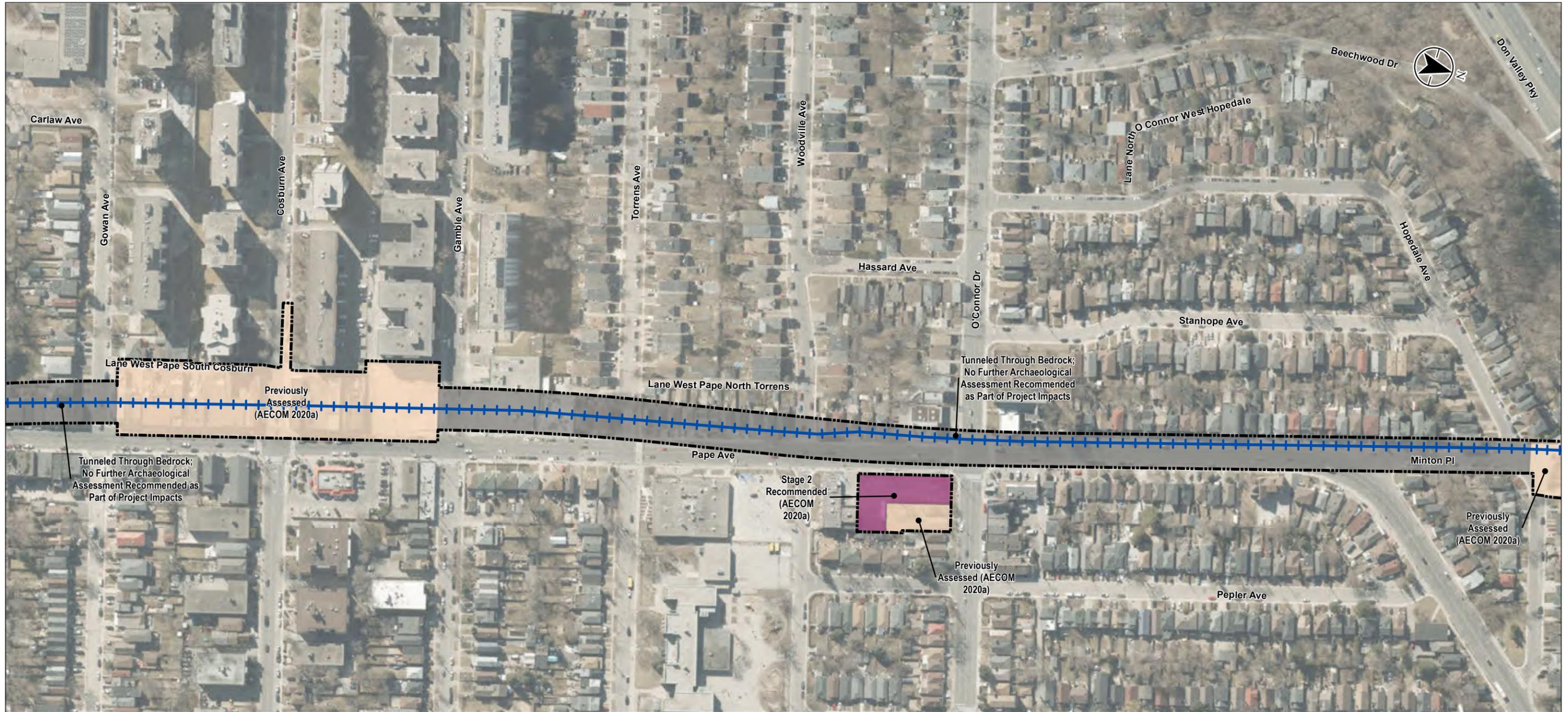


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<i>Client/Project</i> HDR CORPORATION ONTARIO LINE TA STAGE 1 ARCHAEOLOGICAL ASSESSMENT	160560009 REVA
<i>Figure No.</i> 4-32-13	
<i>Title</i> Archaeology Potential	

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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line North
 - Previously Assessed (AECOM 2020a); No Further Work Recommended
 - Stage 2 Recommended (AECOM 2020a)
 - Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts

0 40 80 metres
1:2,500 (At original document size of 11x17)



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Prepared by BCC on 2022-01-31

Client/Project: HDR CORPORATION, ONTARIO LINE TA, STAGE 1 ARCHAEOLOGICAL ASSESSMENT
160560009 REVA

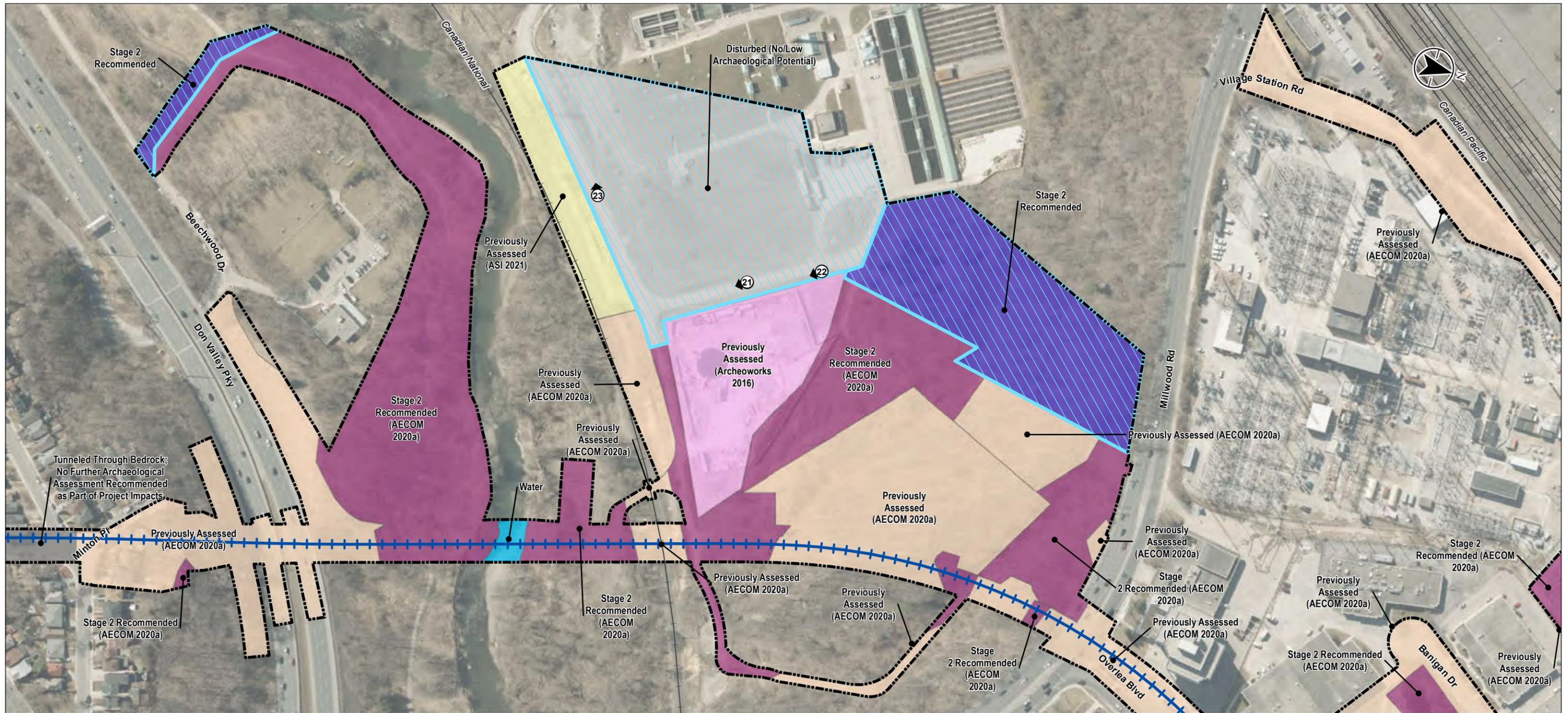
Figure No.: 4-32-14

Title: Archaeology Potential

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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line North
 - Railway
 - Photo Location and Direction
 - Disturbed (No/Low Archaeological Potential); No Further Work Recommended
 - Previously Assessed (AECOM 2020a); No Further Work Recommended
 - Previously Assessed (ASI 2021); No Further Work Recommended

- Previously Assessed (Archeoworks 2016); No Further Work Recommended
- Stage 2 Recommended
- Stage 2 Recommended (AECOM 2020a)
- Tunneled Through Bedrock; No Further Archaeological Assessment Recommended as Part of Project Impacts
- Water
- Additional Areas Investigated Since the AECOM Stage 1 Reporting

0 40 80 metres
1:2,500 (At original document size of 11x17)



Project Location: Toronto, ON Prepared by BCC on 2022-01-31

Client/Project: HDR CORPORATION, ONTARIO LINE TA, STAGE 1 ARCHAEOLOGICAL ASSESSMENT 160560009 REVA

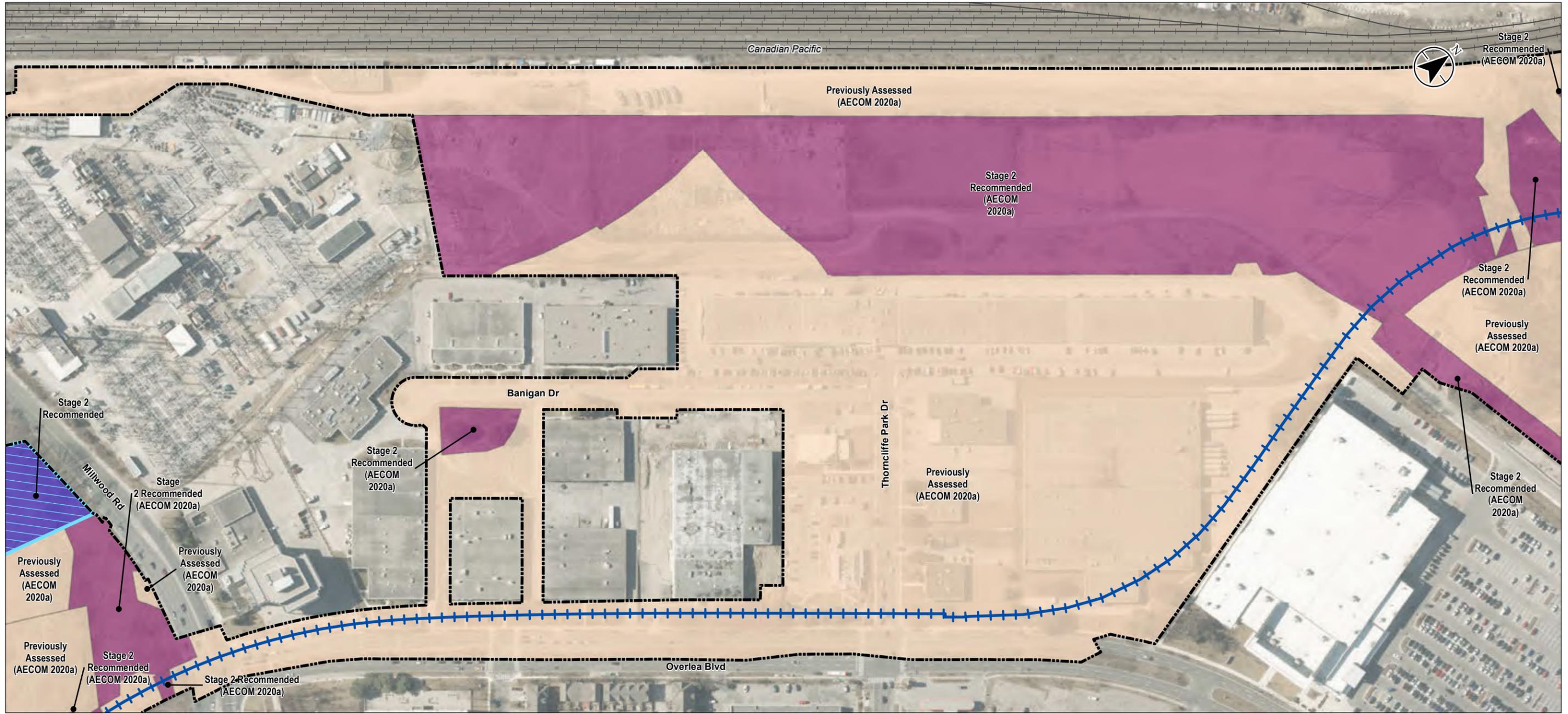
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Title **Archaeology Potential**

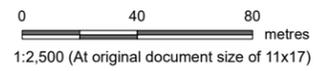
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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line North
 - Railway
 - Previously Assessed (AECOM 2020a); No Further Work Recommended
 - Stage 2 Recommended
 - Stage 2 Recommended (AECOM 2020a)
 - Additional Areas Investigated Since the AECOM Stage 1 Reporting



Project Location
Toronto, ON

Client/Project
HDR CORPORATION
ONTARIO LINE TA
STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No.
4-32-16

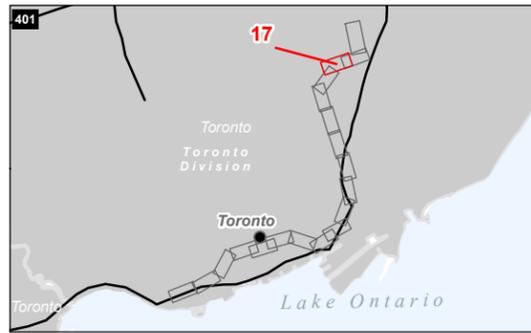
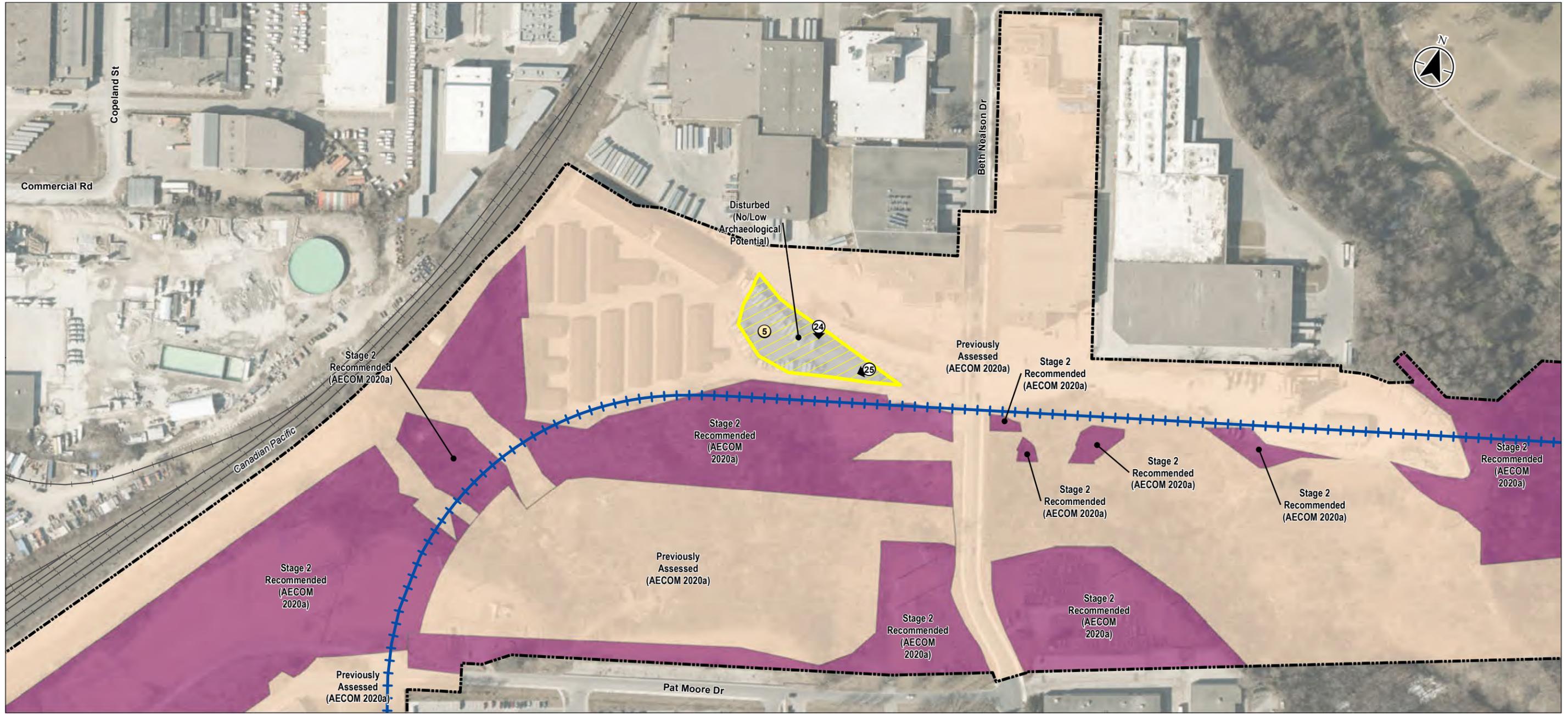
Title
Archaeology Potential

Prepared by BCC on 2022-01-31
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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line North
 - Railway
 - Photo Location and Direction
 - Plate Location
 - Disturbed (No/Low Archaeological Potential); No Further Work Recommended

- Previously Assessed (AECOM 2020a); No Further Work Recommended
- Stage 2 Recommended (AECOM 2020a)
- Areas with Recommendations Differing from Previous Stage 1 Reporting

0 50 100 metres
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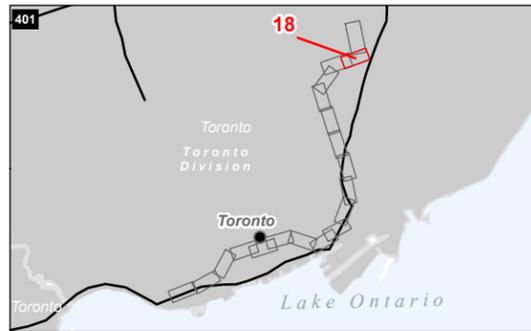
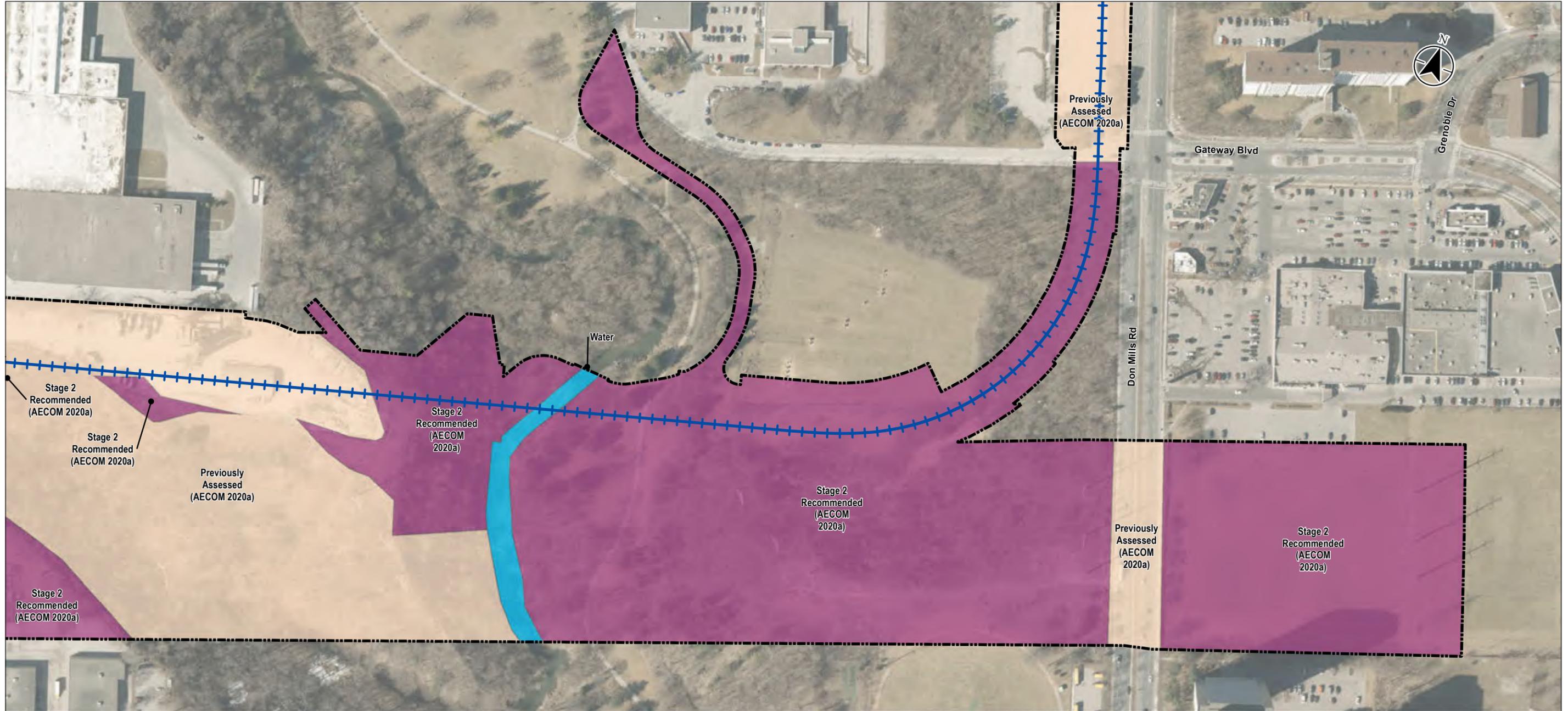
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Client/Project: HDR CORPORATION, ONTARIO LINE TA, STAGE 1 ARCHAEOLOGICAL ASSESSMENT
160560009 REVA

Figure No.: **4-32-17**
Title: **Archaeology Potential**

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- Legend**
- Project Footprint
 - EIAR_Segment**
 - Ontario Line North
 - Previously Assessed (AECOM 2020a); No Further Work Recommended
 - Stage 2 Recommended (AECOM 2020a)
 - Water

0 40 80 metres
1:2,500 (At original document size of 11x17)



Project Location: Toronto, ON
Prepared by BCC on 2022-01-31

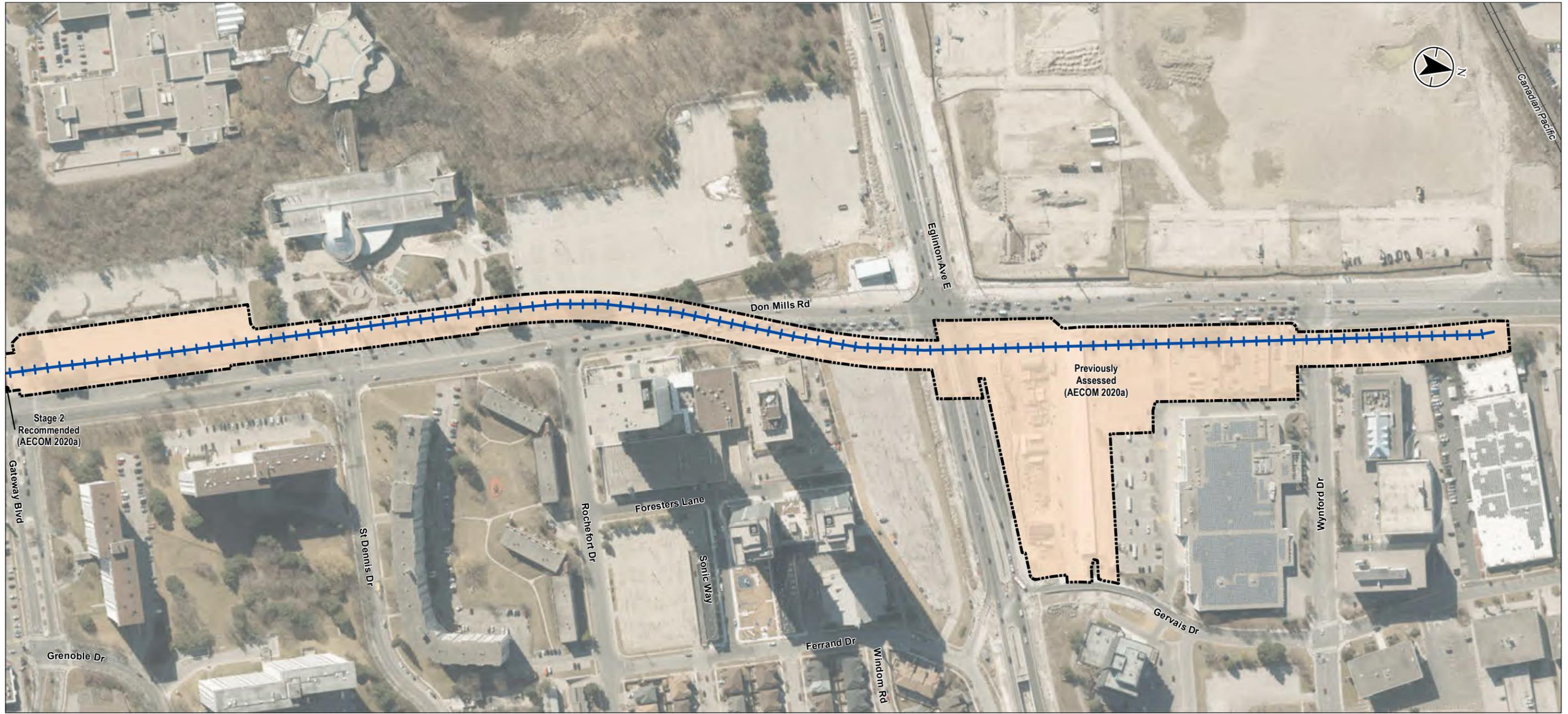
Client/Project: HDR CORPORATION, ONTARIO LINE TA, 160560009 REVA

STAGE 1 ARCHAEOLOGICAL ASSESSMENT

Figure No. 4-32-18

Title: Archaeology Potential

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 Revised: 2022-01-31 By: bcowper

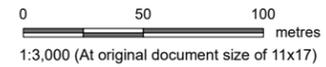


Legend

- Project Footprint
- EIAR_Segment**
- + + + Ontario Line North
- Railway
- Previously Assessed (AECOM 2020a); No Further Work Recommended
- Stage 2 Recommended (AECOM 2020a)

Notes

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<i>Project Location</i> Toronto, ON	<i>Prepared by</i> BCC on 2022-01-31
<i>Client/Project</i> HDR CORPORATION ONTARIO LINE TA STAGE 1 ARCHAEOLOGICAL ASSESSMENT	160560009 REVA
<i>Figure No.</i> 4-32-19	
<i>Title</i> Archaeology Potential	

4.7 Socio-Economic and Land Use Characteristics

The following section describes existing conditions related to the social and economic environment. This includes descriptions of the political and policy designations associated with the Socio-Economic and Land Use Study Area and the land uses allowed as a result. It also includes a description of the ways in which people use the land in the Socio-Economic and Land Use Characteristics Study Area.

4.7.1 Methodology

A Socio-Economic and Land Use Characteristic Assessment was conducted by Stantec in 2022 (see **Appendix A4**). The findings of the Socio-Economic and Land Use Characteristics Report (AECOM 2020i) completed in support of the Environmental Conditions Report were reviewed, confirmed, and updated as appropriate to reflect the current Project understanding, scope, and footprint.

Socio-economic features and land use characteristics in the Ontario Line Study Area were identified and characterized through a desktop review of provincial and municipal documents and policies, online data sources such as the City of Toronto Open Data portal, and associated databases/mapping tools. The features and characteristics examined include:

- Land use designations and applicable Secondary Plans under the City of Toronto Official Plan;
- Physical neighbourhood composition, including existing land use and built form patterns, transit and transportation network, and public realm characteristics;
- Community amenities, including institutional uses, parks and recreational uses, community groups and their resources, and planned services and facilities;
- Neighbourhood demographics; and
- Future development.

The OLW, OLS, and OLN sections were further divided into sub-areas with common land use and urban landscapes to aid in the description of land use designations, physical neighbourhood composition, and public realm characteristics (see **Figure 4-33**). **Table 4-11** lists the socio-economic and land use sub-areas in each section.

Table 4-11. Ontario Line Sections and Sub-Areas

Ontario Line Section	Sub-Area
OLW	<ul style="list-style-type: none"> • Liberty Village/Fort York Sub-Area • Downtown West Sub-Area
OLS	<ul style="list-style-type: none"> • Downtown East Sub-Area • West Don Lands/Industrial Sub-Area • East End Residential Sub-Area
OLN	<ul style="list-style-type: none"> • Pape Sub-Area • Thorncliffe Employment Sub-Area • Thorncliffe Park Sub-Area • Flemingdon Park Sub-Area

Neighbourhood demographics information (summarized in **Section 4.7.2**, **Section 4.7.3**, and **Section 4.7.4**) includes demographic and employment data for the social planning neighbourhoods in each section compared with the City of Toronto.

Future development (summarized in **Section 4.7.2**, **Section 4.7.3**, and **Section 4.7.4**) includes recent, ongoing, and proposed development in each section and is based on active development applications available in the City of Toronto's online database (as of April 6, 2021).

Further details regarding existing socio-economic and land use conditions can be found in **Appendix A4**.

4.7.2 Ontario Line West

Land Use Designations

Liberty Village / Fort York Sub Area

The Liberty Village / Fort York Sub-Area is from the west extent of Springhurst Avenue and Dufferin Street to the rail corridor south of Wellington Street. The west extent is from west of Dufferin Street and is primarily designated as Neighbourhoods and Apartment Neighbourhoods. East of Dufferin Street is predominately designated as Core Employment Areas in Liberty Village and includes some Mixed-Use Areas at Strachan Avenue. The area occupied by Lamport Stadium is designated as Parks. East of Strachan Avenue between the south rail corridor and the Gardiner Expressway is designated as Parks and Other Open Space. The area between the two rail corridors is designated as Mixed-Use Areas and Parks.

Downtown West Sub-Area

The Downtown West Sub-Area is the area from the north rail corridor to Osgoode Station. The area between the north tracks and Wellington Street is designated as Regeneration Areas, with a small area designated as Neighbourhoods. The lands between Bathurst Street and Spadina Avenue are characterized as primarily Mixed-Use Areas, with small parcels designated as Parks. The Queen Street West Corridor is designated as Mixed-Use Areas.

Secondary Plans

Further to the Official Plan's city-wide policies, Chapter 6 of the Official Plan is dedicated to Secondary Plans, which are more detailed local development policies to guide growth and change in a defined area of the City (City of Toronto 2015). Each Secondary Plan focuses on a key area, community, or neighbourhood to implement visions and objectives specific to these areas. All the policies of the Official Plan apply to the areas subject to Secondary Plans contained in Chapter 6, except in the case of a conflict, where the Secondary Plan policy will prevail. The following secondary Plans are within the OLW Study Area:

- Central Waterfront
- Downtown
- Fort York Neighbourhood

- Garrison Common North
- King-Spadina
- Railway Lands Central
- Railway Lands West

Physical Neighbourhood Composition

The OLW Study Area is located in the neighbourhoods of South Parkdale, Niagara, Waterfront Communities – The Island, and Kensington-Chinatown. These neighbourhoods are primarily residential and commercial. Some of the notable local landmarks in the various neighbourhoods include:

- CN Tower;
- Roadhouse Park;
- Harbourfront Centre;
- Kensington Market;
- Old Chinatown;
- Alexandra Park;
- Rogers Centre;
- Ripley's Aquarium of Canada;
- Metro Toronto Convention Centre;
- Art Gallery of Ontario;
- Toronto Music Garden;
- Harbourfront;
- Union Station;
- Budapest Park;
- Marilyn Bell Park;
- Canadian National Exhibition Fairgrounds;
- Ontario Place;
- Enercare Centre;
- Bank of Montreal Field;
- Coronation Park; and
- Fort York National Historic Site.

Liberty Village/Fort York Sub-Area

The Liberty Village/Fort York Sub-Area is a culturally significant area of Toronto with a mix of land use and built form. This Sub-Area is known for unique built landscapes such as the Fort York Historic Site and the mix of land use and built form in Liberty Village. The street fabric generally follows an urban grid pattern (i.e., Dufferin, King, Strachan) with Fort York Boulevard as an east-west winding road at the southern side of Fort York National Historic Site.

PUBLIC REALM CHARACTERISTICS

This Sub-Area can be characterized by three main public realms: Liberty Village, Exhibition Place, and Fort York and Garrison Common.

Liberty Village

Liberty Village is a former brownfield site that was redeveloped into a fast-growing, mixed-use community located between Dufferin Street and Strachan Avenue, with King Street West to the north and Exhibition Place to the south.

Exhibition Place

Exhibition Place is a 192-acre property, established in 1879, and is a leading destination for trade and consumer shows including the Canadian National Exhibition. Exhibition Place attracts more than 5.5 million visitors per year (Exhibition Place 2020).

In 2019, a Cultural Heritage Landscape Assessment was completed for Exhibition Place, which includes recommendations for rehabilitation of the public realm (City of Toronto 2021a). The Cultural Heritage Landscape Assessment also recommended that Exhibition Place be identified as a significant cultural heritage landscape in the City's Official Plan with a specific Conservation Plan and Urban Design Guidelines recommended for the site.

Fort York and Garrison Common

Fort York and Garrison Common is a historical site that has developed a public realm centred on the Fort York National Historic Site with connections from Bathurst Street to Strachan Avenue under the Gardiner Expressway.

Downtown West Sub-Area

The Downtown West Sub-Area has some of the main arterial roads west of Yonge Street (i.e., King West, Queen West, Spadina, Bathurst). This Sub-Area also has a mix of uses and architecture types, with building heights ranging from single storey to high-rise. The main arterials are characterized as intensified corridors that maintain their character, having mixed-use buildings with ground-level commercial and residential and commercial in the storeys above.

PUBLIC REALM CHARACTERISTICS

This Sub-Area can be characterized by four main public realms: King Street West, Queen Street West, Kensington Market, and Chinatown.

King Street West

In 2017, the City of Toronto initiated the King Street Transit Priority Corridor Pilot Project. The priority transit corridor prioritizes the needs of pedestrians, cyclists, and transit users in the King West area. In 2019, King Street was made a permanent Priority Transit Corridor. As part of the Project, new raised transit stop platforms were installed on King Street at Portland Street and Peter Street. Platforms of this type are the first in Canada and are considered an international best practice for transit stops, improving safety for cyclists, streetcar riders and drivers along King Street. The priority transit corridor has allowed for the expansion of public space along King Street. Benefits include extra space for pedestrians, opportunities for placemaking, additional bicycle parking, and additional temporary and fixed seating throughout the corridor.

Queen Street West

Queen Street West is one of the most travelled corridors in Toronto by both residents and visitors. With a world-class commercial district, Queen Street West is in the heart of downtown and is well known to locals and tourists. This corridor is one of the most highly-developed areas of the city with a mature and established public realm. The street is characterized by wide sidewalks to accommodate constant pedestrian activity with street trees that provide shade and aesthetic features.

Kensington Market

Kensington Market is a 27-hectare district made up of narrow streets, synagogues, parks, businesses, and residential homes. In the early 1900's outdoor stalls were built to allow families to sell goods to their neighbours, creating the marketplace that continues to flourish and grow. In 2005, Kensington Market was named a national historic site. This area is popular for photo opportunities and for tourists.

Chinatown

Toronto's downtown Chinatown is one of the largest in North America and reflects a diverse Asian culture through its shops and restaurants. Originally located on Elizabeth Street in the early 1900's, the Chinese residents developed their shops, associations, media, and art in the area. In the 1950's a portion of Chinatown was demolished to make way for the new Toronto City Hall and Chinatown moved to Dundas Street West.

Community Amenities

Figure 4-34 provides an overview of available community amenities in the OLW Study Area. There are six schools, 14 places of worship, four emergency services, one Armed Forces facility, and one library located in the OLW Study Area. There are also 25 parks and open spaces in the OLW Study Area. The most notable parks and open spaces, in size and history,

include the Old Fort York and Garrison Common, which are located in the Liberty Village/Fort York Sub-Area. Community resources in the OLW Study Area provide a range of services and assistance and include daycares, housing assistance, business improvement areas, and medical support. There are 34 community resources in the OLW Study Area. A full list of community amenities in the OLW Study Area is available in Sections 5.1.1, 5.2.1, and 5.3.1 of **Appendix A4**.

Legend

- Project Footprint
- Study Area (500 m Buffer)

Socio-Economic Key Features

- Community Resources
- Daycare
- Emergency Services
- Housing
- Park and Open Space
- Place of Worship
- School

OLW

- Liberty Village / Fort York Sub-Area
- Downtown West Sub-Area



Notes

1. Coordinate System: NAD27 MTM zone 10
2. Base features produced under license with the Ontario Ministry of Natural Resources and Forestry © Queen's Printer for Ontario, 2020.
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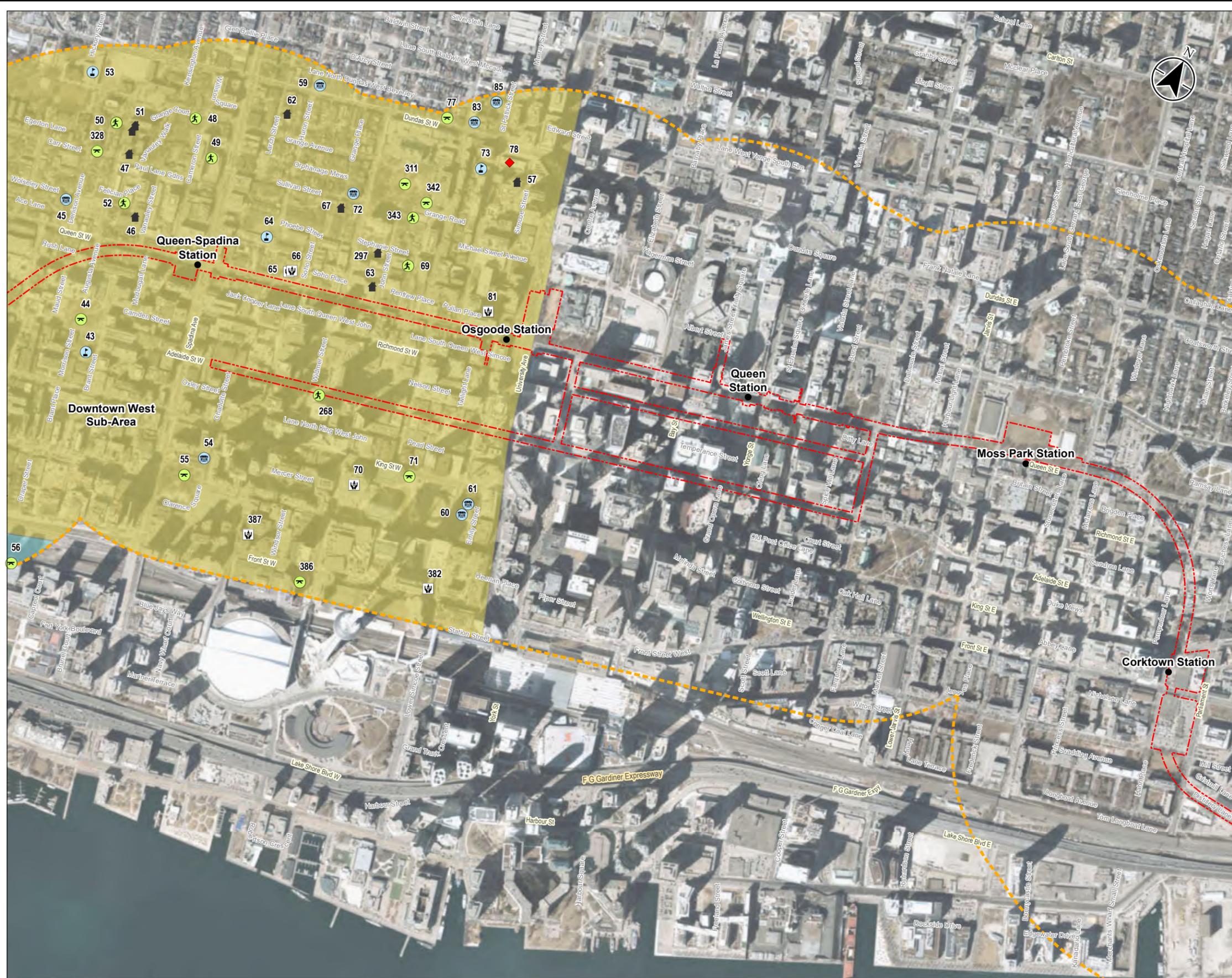


Project Location: City of Toronto, ON
 160560009 REV4
 Prepared by BCC on 2022-01-31

Client/Project:
 HDR CORPORATION
 ONTARIO LINE TA

Figure No.
4-34-2

Title
Community Amenities in the OLW Study Area



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Neighbourhood Demographics

The OLW Study Area contains four neighbourhoods: South Parkdale, Niagara, Waterfront Communities – The Island, and Kensington-Chinatown. This subsection provides a demographic analysis of the OLW Study Area. All data in the subsection was sourced from the 2016 Census Profiles (Statistics Canada 2019) and 2011 National Household Survey Profiles (Statistics Canada 2015), (City of Toronto 2021b).

Demographic Profile

The City of Toronto experienced a total population growth of approximately 4.5% between 2011 and 2016. Two of the neighbourhoods in the OLW Study Area have seen a greater growth rate over the same time period, with the population in both the Niagara and Waterfront Communities – The Island approximately doubling in size. South Parkdale experienced a minor population increase (less than the city's overall growth), and only amongst working adults. Kensington-Chinatown experienced an overall population decrease.

In 2016, the 25 to 64 age group formed the largest portion of the total population with more than half of the total population in the OLW Study Area. When compared to the entire city, these neighbourhoods have less individuals in the 0 to 14, 15 to 24 and 65+ age groups with the exception of the 15 to 24 group in Kensington-Chinatown.

The population in the OLW Study Area is divided relatively evenly between females and males, which is consistent with the distribution in each neighbourhood as well as in the City of Toronto.

Compared with the entire city, the OLW Study Area residents have generally attained a higher education, especially in Waterfront Communities – The Island and Niagara. South Parkdale is generally lower than the city's average in attainment of Bachelors' degrees and higher.

The average household size in the OLW Study Area neighbourhoods is lower than the average household size in the City of Toronto. Like Toronto, the neighbourhoods have on average experienced a decrease in housing size, except for the Waterfront Communities – The Island, which has experienced a very minor increase. South Parkdale and Kensington-Chinatown have seen the most significant decrease, more than double that of the City's household size decrease.

While Niagara and Waterfront Communities – The Island are very similar to the average and median in Toronto, South Parkdale and Kensington-Chinatown have a significantly lower average household income (almost half that of Toronto and the other two neighbourhoods).

Economic Profile

EMPLOYMENT

Three quarters of the population of the OLW section are employed and one fifth are not in the labour force. The highest percentage of employed population is in the Niagara neighbourhood, and three neighbourhoods exceed the City's employment rate. Kensington-Chinatown has a lower average employment rate than the City. Although the entire OLW Study Area shares a

similar percentage of unemployed population, the percentage of people not in the labour force is consistently lower than the City's average across all neighbourhoods except for Kensington-Chinatown.

COMMUTING PATTERNS

Neighbourhoods in the OLV Study Area have a large dependency on public transit and active transportation, far outpacing the automobile. The OLV Study Area has the same rate of public transit use as the City as a whole, but only about half of the rate of automobile use, and almost triple the rate of active transportation (walking and cycling). Commutes vary between the four neighbourhoods, with South Parkdale largely dependent on public transit, Niagara being evenly split between automobile, public transit and active transportation, and Waterfront Communities – The Island and Kensington-Chinatown largely dependent on active transportation.

Future Development

There were 385 active development applications in the OLV Study Area as of March 2022. These applications are mostly for residential and commercial uses, which range from low/medium/high rise towers to medium-density townhomes across a spectrum of ownership types.

Most of these developments (334 of 385) are in the Downtown West Sub Area and are primarily for residential (condominium) development. These applications are heavily concentrated in two areas. The first cluster is between Bathurst Street and Spadina Avenue. The second cluster is between Spadina Avenue and University Avenue. These developments, if constructed, will contribute to the continuous intensification of King Street West and surrounding streets over the coming years, which is consistent with the Growth Plan's targets for Downtown Toronto.

There are 51 development applications located in the Liberty Village/Fort York Sub Area, which range from recreation centre improvements to medium/high rise condominium developments. Many of these developments are for residential (condominium) development.

Of the 385 applications in the OLV Study Area, 58 have been approved. The approved applications vary from condominium to hotel to commercial developments.

4.7.3 Ontario Line South

Land Use Designations

Downtown East Sub-Area

The Downtown East Sub-Area stretches from the Line 1 Osgoode Station along Queen Street and extends south between Jarvis Street and Parliament Street to its southern extent at the Metrolinx rail corridor. Properties in the Downtown East Sub-Area are primarily designated Mixed-Use Areas and Regeneration Areas. The Downtown Plan redesignated some lands in the Downtown East Sub-Area to Mixed Use Areas 1, 2, 3 and 4. The Sub-Area also contains pockets of Institutional Areas, Parks and Open Spaces, and Apartment Neighbourhoods.

West Don Lands / Industrial Sub-Area

The West Don Lands/Industrial Sub-Area is comprised of lands east of Parliament Street, south of Queen Street, and west of Logan Avenue, extending south to Lakeshore Boulevard. Most of the lands in this Sub-Area are designated as Regeneration Areas, General Employment and Core Employment, with a small pocket of Neighbourhoods and Mixed-Use Areas near Queen Street. In May of 2021, City Council adopted Official Plan amendment 525 which changed the land use designation of the area generally bounded by Eastern Avenue in the north, Bayview Avenue in the east, Mill Street in the south, and Parliament Street in the west from Regeneration Areas to Mixed Use Areas and Parks. There are multiple parkettes throughout the Sub-Area, as well as a larger portion of land designated for Parkland splitting the Sub-Area, which corresponds with the Don River and its associated natural features including Corktown Common Park. A Hydro Corridor runs through the parkland along the Don River.

East End Residential Sub-Area

The East End Residential Sub-Area is bounded by Queen Street East in the south and Pape Station in the north, between Boulton Avenue at the most western extent and Jones Avenue in the most eastern extent. The majority of lands in this Sub-Area are designated as Neighbourhoods, with a General Employment Area along Carlaw Avenue between Queen Street East and Gerrard Street, and Mixed-Use Areas along Queen Street East and Gerrard Street. Jimmie Simpson Park, which is located north of Queen Street East and south of Dundas Street between Wardell Street and Booth Avenue, is a popular park and recreation centre and a prominent feature in this Sub-Area. Smaller-sized parks are distributed throughout the Sub-Area.

Secondary Plans

Further to the Official Plan's city-wide policies, Chapter 6 of the Official Plan is dedicated to Secondary Plans, which are more detailed local development policies to guide growth and change in a defined area of the City (City of Toronto 2015). Each Secondary Plan focuses on a key area, community, or neighbourhood to implement visions and objectives specific to these areas. All the policies of the Official Plan apply to the areas subject to Secondary Plans contained in Chapter 6, except in the case of a conflict, where the Secondary Plan policy will prevail. The following secondary Plans are within the OLS Study Area:

- Central Waterfront
- Downtown
- King-Parliament
- Regent Park
- Queen-River
- Unilever Precinct

Physical Neighbourhood Composition

The OLS Study Area is located in the neighbourhoods of Bay Street Corridor, Church-Yonge Corridor, Regent Park, Moss Park, South Riverdale, North Riverdale, and Blake-Jones. The neighbourhoods are primarily residential and commercial, with the exception of South Riverdale being primarily industrial.

Some of the notable local landmarks in the various neighbourhoods include:

- Nathan Phillips Square;
- City Hall;
- Osgoode Hall;
- CF Toronto Eaton Centre;
- Yonge-Dundas Square;
- St. Lawrence Market;
- Regent Park;
- Corktown Common Park;
- Riverdale Park East and West;
- Moss Park;
- Massey Hall;
- Metropolitan United Church;
- Distillery District;
- Lower Don Trail;
- Jimmie Simpson Park; and
- Withrow Park.

Downtown East Sub-Area

The Downtown East Sub-Area is similar to Downtown West with respect to the street pattern and mix of uses, although this Sub-Area is generally not as dense as Downtown West. This sub-area contains both the Civic Precinct and the Financial District. East of Yonge Street, densities begin to drop and there are more areas of single-storey commercial with surface parking (e.g., Staples at King Street East and Berkeley Street). The areas of single-storey commercial with surface parking are increasingly being replaced with high-density mixed-use developments.

PUBLIC REALM CHARACTERISTICS

This Sub-Area can be characterized by two main public realms: Queen Street West and St. Lawrence Market Neighbourhood.

Queen Street West

On the north side of Queen Street West between University Avenue and Bay Street, the public realm includes Nathan Phillips Square which is a large block of public space designed as the civic gateway to Toronto City Hall. Nathan Phillips Square is an urban plaza with a water feature that transforms into a public skating rink during the winter months. Nathan Phillips Square is used regularly for art exhibits, concerts, rallies, and other ceremonies.

St. Lawrence Market Neighbourhood

The St. Lawrence Market Neighbourhood is located between Yonge Street and Parliament Street, with Front Street East to the north and Lakeshore Boulevard East to the south. This neighbourhood is another historic district in Toronto, home to the St. Lawrence Market which was founded in 1803. St. Lawrence Market currently has over 200 food vendors.

West Don Lands/Industrial Sub-Area

The West Don Lands/Industrial Sub-Area includes the Distillery District, Regent Park, the West Don Lands and Lower Don Trail in the Don Valley. Unlike the other sub-areas, this Sub-Area includes a large open space feature: The Don Valley. The Don Valley is a historic natural landscape that has been altered over the last century to accommodate Toronto's urbanization and large population. Surrounding the Don River and the Don Valley, the Don Valley Parkway was constructed in 1961 as a municipal expressway connecting the Gardiner Expressway and Highway 401.

PUBLIC REALM CHARACTERISTICS

This Sub-Area can be characterized by three main public realms: Distillery District, Regent Park, and West Don Lands.

Distillery District

The Distillery District, similar to St. Lawrence Market, is comprised of historic industrial buildings that have been re-purposed into commercial uses with ample public space. The once derelict collection of Victorian industrial buildings was transformed from historic sites into one of the most unique and vibrant villages in the city – with art galleries, restaurants, breweries, event spaces, and businesses.

Regent Park

Regent Park is a neighbourhood in downtown Toronto spanning a 69-acre area that used to be a significant part of the Cabbagetown neighbourhood. In the 1930s it was one of Toronto's poorest neighbourhoods. In 1947, it became the site of one of Canada's first public housing projects built in response to the poor physical conditions of the neighbourhood. In 1995, community members approached Toronto Community Housing about revitalization of the neighbourhood. The revitalization began in 2005 and will include 2,083 replacement rent-geared to income units, 399 new affordable rental units and 5,400 new condominium units (Toronto

Community Housing n.d.). As of March 2020, 60% of the rent-geared to income units have been completed, and the project is anticipated to be completed in 2023.

West Don Lands

The West Don Lands has been undergoing a transformation from the former brownfield into a sustainable, mixed-use, pedestrian-friendly community surrounding Corktown Common park following Waterfront Toronto's West Don Lands Precinct Plan. The first phase of redevelopment was focused on the main parks: Underpass Park and Corktown Common, which both opened in 2015. Development of the community has been accelerated because a portion of the site was developed for use as the Athletes' Village for the Toronto 2015 Pan/Parapan American Games. Five historic buildings in the West Don Lands, located on Eastern Avenue, Cherry Street, and Trinity Street, have been preserved, giving the neighbourhood a mix of old and new buildings.

East End Residential Sub-Area

The East End Residential Sub-Area is characterized as having mainly medium-density housing, such as townhouses, and single-storey retail plazas with surface parking. Queen Street East is known for its quaint, small-town aesthetic as a gateway into the old East York community.

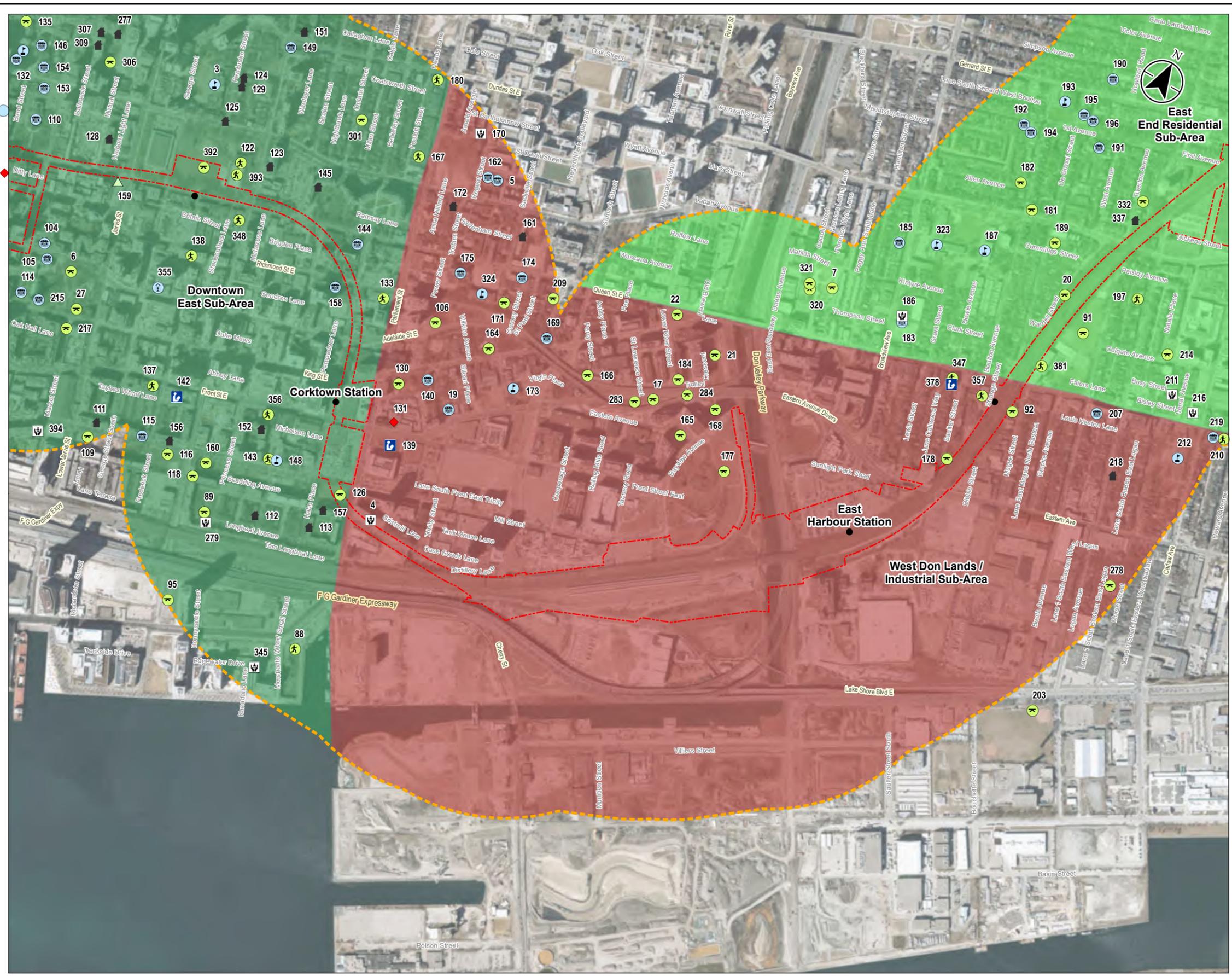
PUBLIC REALM CHARACTERISTICS

The East End Residential Sub-Area is characterized as having a public realm reminiscent of small towns with a strong sense of place. The neighbourhoods east of the Don River – Riverside, Riverdale, and Leslieville – are known to Torontonians as towns within the city. Several murals painted on railway underpasses, promote vibrancy and community in the East End, and further enhance the sense of place in Leslieville.

Community Amenities

Figure 4-35 provides an overview of available community amenities in the OLS Study Area. There are 17 schools, 43 places of worship, four libraries, one major hospital, four emergency services, and one Armed Forces facility in the OLS Study Area. There are 44 parks and open spaces dispersed throughout the OLS Study Area. The most notable parks and open spaces, in size and significance, include Nathan Philips Square and Moss Park in the Downtown East Sub-Area, the Lower Don Trail and Corktown Common in the West Don Lands/Industrial Sub-Area, and Jimmie Simpson Park in the East End Residential Sub-Area. Community resources in the OLS Study Area provide a range of services and assistance and include daycares, housing assistance, business improvement areas, and community centres. There are 67 community resources in the OLS Study Area. A full list of community amenities in the OLS Study Area is available in Sections 5.1.2, 5.2.2, and 5.3.2 of **Appendix A4**.

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Legend

- Project Footprint
- Study Area (500 m Buffer)

Socio-Economic Key Features

- ▲ Armed Forces Facility
- ⚙ Community Resources
- 🏠 Daycare
- ♦ Emergency Services
- 🏥 Hospital
- 🏠 Housing
- 📖 Library
- 📍 Neighbourhood BIA
- ⚽ Park and Open Space
- 🕌 Place of Worship
- 🎓 School

OLS

- Downtown East Sub-Area
- West Don Lands / Industrial Sub-Area
- East End Residential Sub-Area



Notes

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Community Amenities in the OLS Study Area