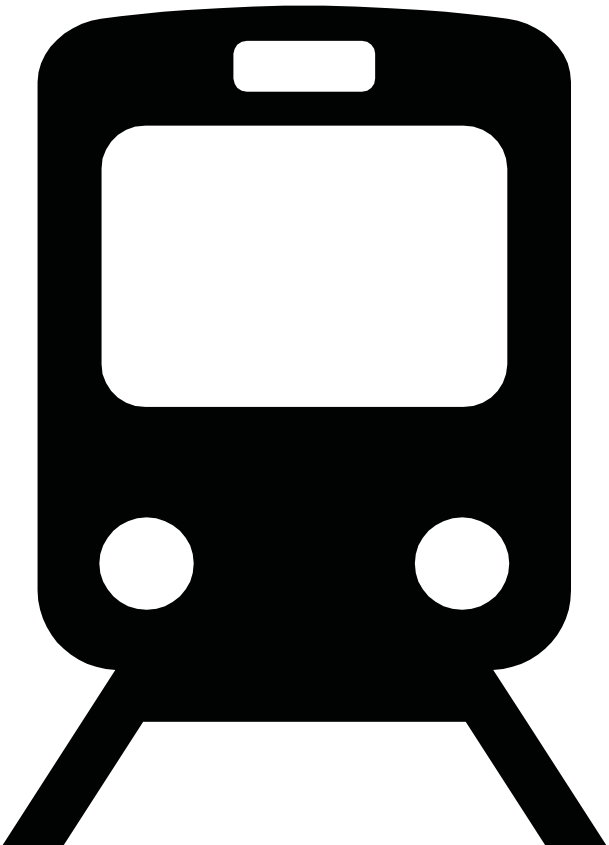
YONGE NORTH SUBWAY EXTENSION

ENVIRONMENTAL PROJECT REPORT ADDENDUM

Final Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment

April 14, 2022



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Yonge North Subway Extension (YNSE) Environmental Project Report Addendum

Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment

FOR

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March 23, 2022

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ACRONYMS AND ABBREVIATIONS

Term	Definition
BHR	Built Heritage Resource
CHL	Cultural Heritage Landscape
CHR	Cultural Heritage Report
CHVI	Cultural Heritage Value or Interest
EEB	Emergency Exit Building
EPR	Environmental Project Report
HCD	Heritage Conservation District
IBC	Initial Business Case
MHSTCI	Ministry of Heritage, Sport, Tourism and Culture Industries
OHT	Ontario Heritage Trust
O. Reg.	Ontario Regulation
PHP	Provincial Heritage Property
PHPPS	Provincial Heritage Property of Provincial Significance
PPS	Provincial Policy Statement
TPAP	Transit Project Assessment Process
TPSS	Traction Power Substation
TSF	Train Storage Facility
YNSE	Yonge North Subway Extension

E.1 Executive Summary

Metrolinx and Infrastructure Ontario are undertaking an Addendum to the Environmental Project Report (EPR) for the Yonge North Subway Extension (YNSE). This study is following the requirements of the Transit Project Assessment Process (TPAP) under O. Reg. 231/08 and will address a change to the subway extension alignment, stations, and associated facilities.

Previous studies followed the TPAP for the YNSE Project. An EPR was completed by the Regional Municipality of York (York Region), York Region Rapid Transit Corporation, the City of Toronto and the Toronto Transit Commission in 2009 for the new subway extension. A further addendum to the EPR was prepared in 2014 to assess the potential environmental impacts associated with the identified Train Storage Facility (TSF) location that would accommodate up to 14 trains within the vicinity of the Richmond Hill Centre.

E.1.1 Study Purpose

As part of the YNSE EPR Addendum process, this Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment Report (Cultural Heritage Report) has been prepared to document the current existing conditions within the Study Area, to undertake and assessment of the potential impacts associated with the currently proposed YNSE Project, and to identify mitigation and monitoring measures, as appropriate.

E.1.2 Existing Conditions

To date, OneT+ has identified a total of 86 potential and protected heritage properties in the Study Area. Of these, 20 are located in Segment 1, 65 are located in Segment 2 and one is located in Segment 3 of the Study Area. A summary of these heritage properties is provided in Table A 0-1.

Table A 0-1: Summary of Built Heritage Resources (BHR) and Cultural Heritage Landscapes (CHL) in the YNSE Study Area

Segment	CHR* No.	Type	Location	Heritage Recognition
Segment 1	S1-CHR1	-Built Heritage Resource (BHR) -Willowdale Baptist Church	15 Olive Avenue, North York	-Identified during field review
Segment 1	S1-CHR2	-Cultural Heritage Landscape (CHL) -Commercial Block/streetscape	5643-5647 Yonge Street, North York	-Identified during field review
Segment 1	S1-CHR3	-BHR -Former Civic Building	5800 Yonge Street, North York	-Identified during field review
Segment 1	S1-CHR4	-BHR -Residence	51 Drewy Avenue, North York	-Identified during field review
Segment 1	S1-CHR5	-CHL -School (Drewry Secondary School)	70 Drewry Avenue, North York	-Identified during field review
Segment 1	S1-CHR6	-BHR -Commercial Building	5926 Yonge Street, North York	-Listed on the City of Toronto Municipal Heritage Register

Segment	CHR* No.	Type	Location	Heritage Recognition
Segment 1	S1-CHR7	-BHR -Commercial Building	5925 Yonge Street North York	-Previously identified as potential built heritage resource by Unterman McPhail Associates (2009)
Segment 1	S1-CHR8	-BHR -Residence	15 Patricia Avenue, North York	-Listed on the City of Toronto Heritage Register
Segment 1	S1-CHR9	-BHR -Commercial Building	6075 Yonge Street, North York	-Identified during field review
Segment 1	S1-CHR10	-BHR -Residence	12 Centre Avenue, North York	-Identified during field review
Segment 1	S1-CHR11	-CHL -Civic Building	155 Hilda Avenue, North York	-Identified during field review
Segment 1	S1-CHR12	-BHR -Residence	15 Athabaska, North York	-Identified during field review
Segment 1	S1-CHR13	-BHR -Residence	17 Athabaska North York	-Identified during field review
Segment 1	S1-CHR14	-CHL -Commercial Block	6301-6313 Yonge Street, North York	-Identified during field review
Segment 1	S1-CHR15	-CHL -Commercial Streetscape	7039-7071 Yonge Street, Thornhill, Markham	-Identified during field review
Segment 1	S1-CHR16	-CHL -Residential Streetscape	40-48 Hendon Avenue, North York	-Identified During Field Review
Segment 1	S1-CHR17	-CHL -Public/Municipal Park	50 Hendon Ave (Hendon Park), North York	-Identified During Field Review
Segment 1	S1-CHR18	-BHR -Residence	20 Abitibi Avenue, North York	-Identified During Field Review
Segment 1	S1-CHR19	-BHR -Residence	39 Highland Park Boulevard, Thornhill, Markham	-Identified During Field Review
Segment 1	S1-CHR20	-BHR -Historical Plaque	Plaque located at 43 Drewry Avenue, North York	-Identified During Field Review
Segment 2	S2-CHR1	-CHL -Heritage Conservation District (HCD)	Thornhill, Markham Ontario	-Designated under Part V of the *Ontario Heritage Act* as the Thornhill-Markham HCD
Segment 2	S2-CHR2	-CHL -HCD	Thornhill, Vaughan Ontario	-Designated under Part V of the *Ontario Heritage Act* as the Thornhill Vaughan HCD
Segment 2	S2-CHR3	-CHL -Market	7509 Yonge Street, Thornhill, Markham	-Identified during field review
Segment 2	S2-CHR4	-BHR -School (Thornhill Public School)	7554 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value

Segment	CHR* No.	Type	Location	Heritage Recognition
Segment 2	S2-CHR5	-BHR -Commercial Building	7529 Yonge Street, Thornhill, Markham	-Identified during field review
Segment 2	S2-CHR6	-BHR -Residence	7616 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR7	-BHR -Former Residence	7626 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR8	-BHR -Former Residence	7636 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR9	-BHR -Former Residence	7666 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR10	-BHR -Residence	14 John Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR11	-BHR -Commercial Building	7562 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR12	-BHR -Commercial Building	7582 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR13	-BHR -Commercial Building	7584 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR14	-BHR -Commercial Building	7620 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR15	-BHR -Commercial Building	7646 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR16	-BHR -Historical Plaque	Plaque located at the corner of John and Yonge, Thornhill, Markham	-Located within the Thornhill Markham HCD
Segment 2	S2-CHR17	-BHR -Residence	5 Elizabeth Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)

Segment	CHR* No.	Type	Location	Heritage Recognition
Segment 2	S2-CHR18	-BHR -Residence	7 Elizabeth Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR19	-BHR -Residence	17 Old Jane Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR20	-BHR -Commercial Building	7681 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR21	-BHR -Residence	23 Elizabeth Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR22	-BHR -Residence	12 Old Jane Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR23	-BHR -Commercial Building	7700 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR24	-BHR -Residence	7699 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR25	-BHR -Residence	11 Colborne Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR26	-BHR -Residence	7714 Yonge Street; W.D. Stark House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR27	-BHR -Commercial Building	7707 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR28	-BHR -Residence	10 Colborne Street; The Ellen Ramsden House (Thornhill Village Library), Thornhill, Markham	-Designated under Part IV and V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD

Segment	CHR* No.	Type	Location	Heritage Recognition
Segment 2	S2-CHR29	-BHR -Commercial Building	7724 Yonge Street (Francis Block), Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR30	-BHR -Commercial Building	7711-7715 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)
Segment 2	S2-CHR31	-BHR -Commercial Building	7719, 7725 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)
Segment 2	S2-CHR32	-BHR -Residence	19 Centre Street; Robert Shuter House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR33	-BHR -Commercial Building	7738 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR34	-BHR -Historic Plaque	Plaque near corner of Yonge and Centre Street, Thornhill, Vaughan	-Located within the Thornhill Vaughan HCD
Segment 2	S2-CHR35	-BHR -Commercial Building	7751 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)
Segment 2	S2-CHR36	-BHR -Residence	18 Centre Street; Mason Cogswell House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR37	-BHR -Residence	12 Centre Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR38	-CHL -Public/Municipal Parkette	Northwest intersection of Centre Street and Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR39	-BHR -Commercial Building	7765 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as part of the

Segment	CHR* No.	Type	Location	Heritage Recognition
				Thornhill-Markham HCD (non-contributing)
Segment 2	S2-CHR40	-BHR -Commercial Building	7756 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR41	-BHR -Commercial Building	7775/7771 Yonge Street; Robert A. West General Store, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class B" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR42	-CHL -Public/Municipal Park	26 Old Yonge Street; Thornhill Park, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR43	-BHR -Residence	7780 Yonge Street; Robert West House, Thornhill, Vaughan	-Designated under Part IV and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value -Protected by an Ontario Heritage Trust (Trust) Heritage Conservation Easement Agreement (HCEA)
Segment 2	S2-CHR44	-BHR -Former Residence	7787 Yonge Street, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR45	-BHR -Thornhill Methodist Church	7788 Yonge Street; Thornhill Methodist Church, Thornhill, Vaughan	-Designated under Part IV and V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR46	-BHR -Residence	7802 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR47	-BHR -Residence	7808 Yonge Street; George Munroe House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR48	-BHR -Residence	7820 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR49	-BHR -Residence	7822 Yonge Street, Seager Cottage, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value

Segment	CHR* No.	Type	Location	Heritage Recognition
Segment 2	S2-CHR50	-CHL -Residence and associated Outbuilding	42 Old Yonge Street; William Walton Armstrong House, Thornhill, Vaughan	-Designated under Part IV and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR51	-CHL -Golf Course	7859 Yonge Street Toronto Ladies Golf Club, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR52	-BHR -Residence	10 Mill Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR53	-CHL -Public/Municipal Park	7877 Yonge Street; Toronto Radial Railway stop #17, Thornhill, Markham	-Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD
Segment 2	S2-CHR54	-CHL -Golf Course	7994 Yonge Street (Mortimer House); 8000 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value
Segment 2	S2-CHR55	-BHR -Residence	7951 Yonge Street "Edwardian House", Thornhill, Markham	-Listed on the City of Markham's Heritage Registrar
Segment 2	S2-CHR56	-CHL -Holy Trinity Anglican Cemetery	8004 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR57	-BHR -Thornhill Baptist Church	8018 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR58	-CHL -Residential Complex	8038 Yonge Street; Soules Inn, Thornhill, Vaughan	-Designated under Part IV and V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR59	-BHR -Former Residence	8054 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR60	-BHR -Thornhill; Anglican Church Rectory	8088 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD
Segment 2	S2-CHR61	-CHL -Commercial Building	8100 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)
Segment 2	S2-CHR62	-BHR -School	201 Bay Thorn Drive; Baythorn Public	-Identified during field review

Segment	CHR* No.	Type	Location	Heritage Recognition
			School, 201 Bay Thorn Drive	
Segment 2	S2-CHR63	-CHL -Public/Municipal Park	110 Royal Orchard Boulevard, Thornhill, Markham	-Identified during field review
Segment 2	S2-CHR64	-BHR -School	141 Kirk Drive; St. Anthony Catholic School, Thornhill, Markham	-Identified during field review
Segment 2	S2-CHR65	-CHL -Cemetery	Holy Cross Cemetery, Thornhill, Markham	-Identified during field review
Segment 3	S3-CHR1	-CHL -Observatory	23 Hillsview Drive (David Dunlap Observatory Lands), Richmond Hill	-Designated under Part IV of the *Ontario Heritage Act* under By-law 100-09

*CHR = Cultural Heritage Resource

E.1.3 Summary of Potential Impacts, Mitigation Measures & Monitoring

E 1.3.1 Impact Assessment Criteria

The MHSTCI (2017) *Standards & Guidelines for Conservation of Provincial Heritage Properties–Information Bulletin 3: Heritage Impact Assessment for Provincial Heritage Properties (Information Bulletin 3)* and the MHSTCI (2019) guidance document titled *MTCS Sample Tables and Language for "Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment" and Environmental Project Reports (EPR) under Transit Project Assessment Process (TPAP) for Proponents and their Consultants* gives guidance on the how to complete cultural heritage impact assessments for public bodies prescribed under the *Ontario Heritage Act*, such as Metrolinx (Government of Ontario 2014). The purpose of the impact assessment is to identify and assess the proposed activity to determine impacts (positive or negative, direct or indirect) that the proposed activity may have on the cultural heritage value or interest (CHVI) of identified built heritage resources and cultural heritage landscapes. For the purpose of this document, an impact is a change in an identified cultural heritage resource resulting from a particular activity (MHSTCI 2019). In order to make predictions about potential impacts, additional factors were considered, including the scale or severity of impacts, and whether they are to be temporary or permanent, reversible or irreversible (MHSTCI 2019).

For this preliminary impact assessment, the following definitions of direct, indirect, and positive impacts are used:

- **Direct Adverse Impact**: A permanent or irreversible impact that negatively affects the CHVI of a property or results in the loss of one or more heritage attributes on all or part of the property.
- **Indirect Adverse Impact**: An impact that is the result of an activity on or near the property that may adversely affect its CHVI and/or heritage attributes.
- **Positive Impact**: An impact that may positively affect a property by conserving or enhancing its CHVI and/or heritage attributes (Government of Ontario 2017).

Full details regarding the impact assessment completed for the identified built heritage resources and cultural heritage landscapes in the Study Area is provided in **Sections B 3.1, B. 3.2, and B. 3.3.** The impact assessment

contains proposed mitigation measures and mitigation options, including construction vibration monitoring and recommendations for further cultural heritage reporting, such as Cultural Heritage Evaluation Reports (CHERs), Heritage Impact Assessments (HIAs), and Strategic Conservation Plans (SCP)s. The impact assessment is based on conceptual designs and therefore presents a range of anticipated impacts, mitigation options, and mitigation measures for the Study Area. Where direct adverse and indirect adverse impacts are anticipated, anticipated impacts and associated mitigation measures/options are ranked from most to least preferred. Potential impacts will be refined/confirmed as part of the Project detailed design, and the corresponding mitigation measures will be implemented. As part of this process, mitigation measures may be refined, subject to any required technical studies to be undertaken and/or consultation with the MHSTCI, Ontario Heritage Trust and/or the municipalities, as outlined in **Section B 3.0** of this report.

E 1.3.2 Key Findings

A total of 86 heritage properties, including built heritage resources and cultural heritage landscapes were identified within the Study Area. Identified heritage properties include:

- Six (6) properties designated under Part IV of the *Ontario Heritage Act*:
    - 10 Colborne Street
    - 7780 Yonge Street, Robert West House (subject to Ontario Heritage Trust easement)
    - 7788 Yonge Street, George Munroe House
    - 42 Old Yonge Street, William Walton Armstrong House
    - 8038 Yonge Street, Soules Inn
    - 23 Hillsview Drive, David Dunlap Observatory Lands

- Two (2) Heritage Conservation Districts (HCDs) designated under Part V of the *Ontario Heritage Act:*
    - Thornhill Vaughan HCD (39 properties within the Study Area)
    - Thornhill Markham HCD (15 properties within the Study Area)

- Three (3) listed heritage properties:
    - 5926 Yonge Street, City of Toronto Heritage Register
    - 5 Patricia Avenue, City of Toronto Heritage Register
    - 7951 Yonge Street, Edwardian House, City of Markham Heritage Register

- One (1) Previously Identified Heritage Property
    - 5925 Yonge Street

E 1.3.3 Potential Effects and Mitigation Measures

Potential Effects

Construction Phase:

- No impacts are anticipated to 29 built heritage resources/cultural heritage landscapes. Continued avoidance of these properties is recommended.
- Potential indirect impacts: Vibration damage related to the construction of the Project in the vicinity of a built heritage resource or cultural heritage landscape may occur at 43 properties.
- Potential direct impacts: Above-grade Project components are planned within, or adjacent to, 14 built heritage resources/cultural heritage landscapes. Vibration damage may also occur at these properties.

Operational Phase:

- No impacts to identified BHRs/CHLs are anticipated as a result of project operations.

Mitigation Measures

Construction Phase:

Where impacts are anticipated due to potential vibration impacts:

- In all cases, avoidance of the built heritage resources or cultural heritage landscapes is the preferred mitigation measure; only where avoidance was determined to not be feasible were mitigation measures prepared.
- Document (review and establish) the structural condition of the affected buildings to determine if they are vulnerable to vibration impacts from construction activities.
- Establish vibration limits based on structural conditions, founding soil conditions and type of construction vibration to ensure no damage to heritage structures.
- Implement vibration mitigation measures on the construction site and/or at the building.
- Monitor vibration during construction, with notification by audible and/or visual alarms when limits are approached or exceeded.

Where a direct impact such as demolition or alteration to a heritage property may occur:

- Complete technical studies, which may include Cultural Heritage Evaluation Reports and/or Heritage Impact Assessments for known or potential BHRs/CHLs where potential direct impacts such as demolition or alteration of heritage structures/landscapes may occur, as required. These studies will determine cultural heritage value or interest and provide a detailed impact assessment, conservation guidance, and property-specific solutions to mitigate Project impacts. Properties requiring such studies will be confirmed as project design progresses and property-specific impacts are identified.
- Consult with the MHSTCI, OHT, municipalities and other stakeholders as required.
- As required, request Ministers Consent as part of the detailed design phase for properties that meet, or have the potential to meet, O. Reg. 10/06 of the *Ontario Heritage Act* and have the potential to be impacted by the YNSE Project. Ministers Consent is required where properties that meet, or have the potential to meet, O. Reg. 10/06 are subject to direct impacts such as removal, demolition, alteration of heritage structures/landscapes, or transfer from provincial control.

Operational Phase:

- No impacts to BHRs/CHLs are anticipated during Project operations, therefore no mitigation is required.

A 1.0 Introduction

In 2009, the Regional Municipality of York, York Region Rapid Transit Corporation, the City of Toronto and the Toronto Transit Commission completed an Environmental Project Report (EPR) in accordance with the Transit Project Assessment Process (TPAP), to assess the potential environmental impacts of the proposed Yonge North Subway Extension (YNSE) Project. The study area was defined as Finch Avenue in the City of Toronto to Richmond Hill Centre Terminal at Highway 7 in the City of Richmond Hill, York Region. Notice to Proceed was given by the then Minister of Environment and Climate Change (now the Minister of Environment, Conservation & Parks [MECP]) and Statement of Completion was issued in April 2009.

In 2014, an EPR Addendum was carried out by the York Region Rapid Transit Corporation, in partnership with the Regional Municipality of York, Toronto Transit Commission (TTC), and the City of Toronto to assess the potential environmental impacts associated with the identified Train Storage Facility (TSF) location that would accommodate up to 14 trains within the vicinity of the Richmond Hill Centre. This EPR Addendum was completed in November 2014.

Subsequently in April 2019, the Government of Ontario announced a $28.5 billion expansion to Ontario's transit network. This rapid transit project plan includes four key initiatives including: the Ontario Line, the Scarborough Subway Extension, Eglinton Crosstown West Extension, and the YNSE (**Figure A 1-1**). The YNSE is an extension of TTC's Line 1 north from Finch Station to Richmond Hill.

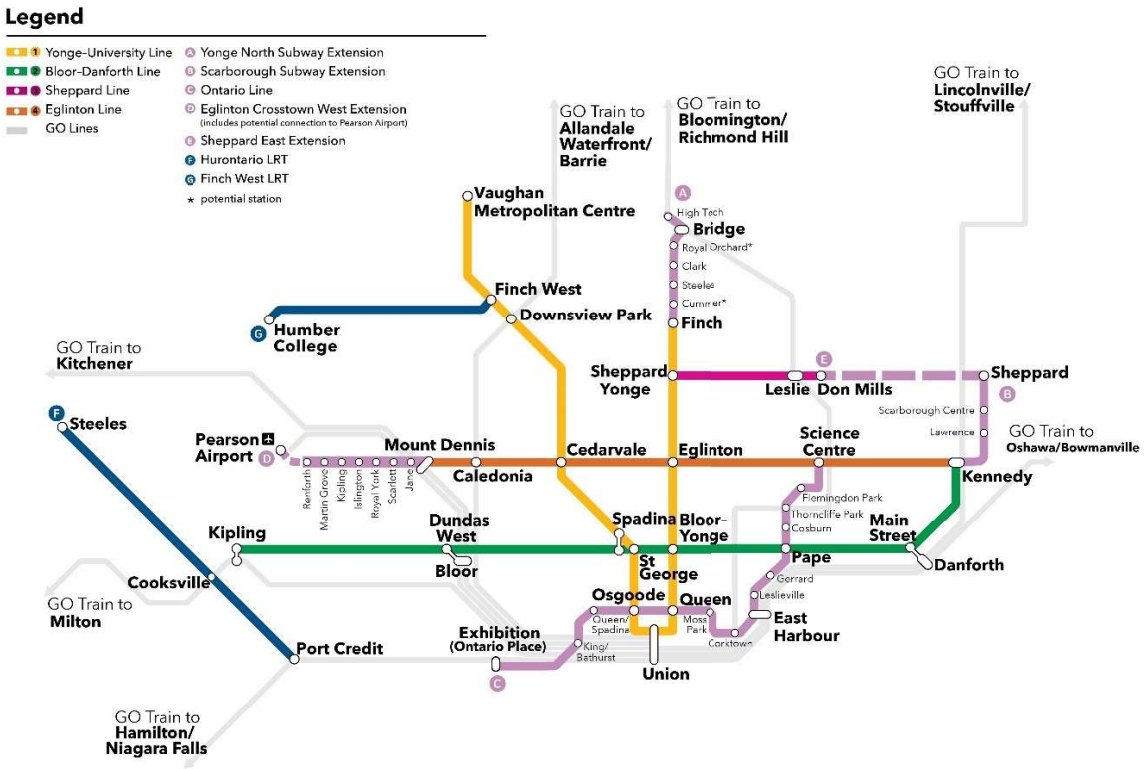


Figure A 1-1 Ontario's Rapid Transit Expansion Plan (Source: Infrastructure Ontario- 2019)

A 1.1 Initial Business Case

Metrolinx published the Yonge North Subway Extension Initial Business Case (IBC) and accompanying supplementary analysis on March 18, 2021. The IBC demonstrates how the Yonge North Subway Extension will significantly reduce travel times, grow the number of people who use public transit and serve the heart of major growth centres in Toronto and York Region. The scope and key objectives of the IBC were as follows:

- Document the details of the Project, as contemplated at the time it was brought under the management of Metrolinx;
- Compare alternative alignments of the extension with a Business-As-Usual scenario;
- Investigate and evaluate options that might have additional transit benefits and/or reduced capital or operating costs; and
- Evaluate the performance of stations.

The Yonge North Subway Extension will bring higher-order rapid transit closer to a large number of residents and jobs in the intensification areas along the corridor, while providing a seamless connection between those areas. The business case introduces innovative design options in order deliver the most benefits possible within the funding envelope of $5.6 billion.

The IBC generally provides recommendations for next steps in the Metrolinx Business Case process. The IBC notes:

- The Yonge North Subway Extension is one of four priority transit projects announced by the Government of Ontario, along with the Scarborough Subway Extension, the Ontario Line and the Eglinton Crosstown West Extension. The Ontario Line will provide relief to Line 1 by helping to spread demand across the transit network as it grows. The Yonge North Subway Extension will not come online until the Ontario Line goes into service.
- The extension will bring rapid transit closer to residents' destinations in the northern portions of Toronto and across York Region. The IBC highlights the need to prioritize access for bus passengers while focusing on walk-in access at each of the contemplated subway stations.
- Next steps will include refining the design of the selected alternative engineering to maximize benefits and address risks, developing a Preliminary Design Business Case, seeking required Environmental Assessment Act approvals and proceeding toward delivery.

A 1.2 Background

A 1.2.1 2009 EPR

The *Yonge Subway Extension - Finch Station to Richmond Hill Centre Transit Project Assessment- Environmental Project Report* (2009) included the assessment of approximately 6.8km of subway alignment via twin-bored tunnel, six (6) subway stations, associated track work, one (1) major bus terminal, one (1) bus loop, four (4) traction power substations, six (6) emergency exit buildings (EEBs) and one (1) bridge structure. **Figure A 1-1** provides a key map depicting the 2009 EPR scope (the red section of the proposed alignment is located in the City of the Toronto; the blue section is located in York Region).



Figure A 1-2 Finch Station to Richmond Hill Centre – 2009 EPR Scope

A 1.2.2 2014 EPR Addendum

Subsequent to the 2009 EPR, an EPR Addendum was undertaken in 2014 to assess the potentialenvironmental impacts associated with the following design changes:

- Extension of the subway alignment to approximately 1 km north of the previously approved RichmondHill Centre Station;
- Underground Train Storage Facility (TSF) for 14 trains (**Figure A 1-3**) north of thepreviously approved Richmond Hill Centre Station; and
- Two (2) Emergency Exit Buildings associated with the TSF.

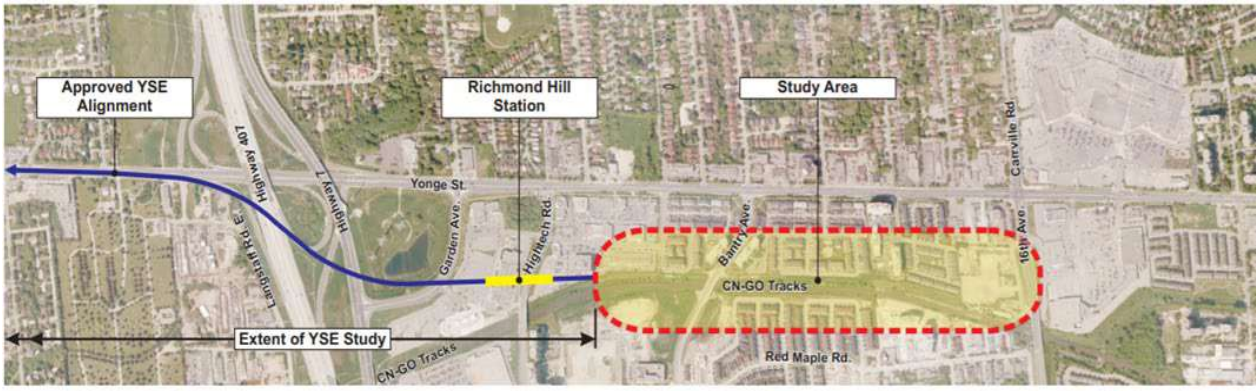


Figure A 1-3 Proposed Train Storage Facility Location – 2014 EPR Addendum

A 1.3 Study Purpose – Current EPR Addendum

Since the completion of the 2009 EPR and 2014 EPR Addendum, further changes to the proposed YNSE Project have been identified that will result in modifications to the plans presented in the previously approved 2009 EPR and 2014 EPR Addendum.

In accordance with *Section 15, O. Reg. 231/08*, Metrolinx has determined that the changes to the Project (as described in Section 2 of the YNSE EPR Addendum document and within Section 2.0 below) are Significant and therefore necessitate completion of an EPR Addendum to: evaluate and document the updates to the Project description, update existing conditions, carry out associated environmental impact assessment studies, identify mitigation and monitoring requirements, and undertake public, stakeholder and Indigenous Nations consultation.

Furthermore, as per *Section 16, O. Reg. 231/08*, since the construction of the Project has not commenced within 10 years of the issuance of the Statement of Completion (originally issued in 2009), Metrolinx is required to re-examine existing conditions as well as potential environmental impacts and mitigation measures documented in the previously approved EPR to ensure they are still valid and subsequently carry out additional environmental studies as appropriate.

A 1.4 Report Purpose

This report entails a review and update to existing conditions within the current EPR Addendum Study Area (contained within Part A) as well as an assessment of potential impacts and proposed mitigation measures and monitoring activities (contained within Part B) based on the currently proposed YNSE project components.

With this in mind, the purpose of this Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment is two-fold:

- **Part A** – provides a detailed description and summary of cultural heritage (built heritage resources and cultural heritage landscapes) existing conditions within the EPR Addendum Study Area;
- **Part B –** provides a description of the potential impacts associated with the proposed YNSE project and associated mitigation and monitoring measures to identified built heritage resources and cultural heritage landscapes.

A 2.0 Update to the Project Description

A 2.1 Summary of Design Changes

This section provides a detailed description of the changes to the YNSE Project since completion of the 2009 EPR and 2014 EPR Addendum. **A Table 2-1** provides a high-level schematic depicting the 2009 EPR project components, 2014 EPR Addendum project components, and currently proposed YNSE project components for comparison purposes. In addition, detailed mapping of the project design elements is contained in **Appendix A**.

Table A 2-1: Summary of YNSE Project Components, Changes & Rationale

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change
1. Proposed Subway Horizontal Alignment	Approximately 6.8 km underground subway alignment from the existing Finch Station to the proposed Richmond Hill Center Station (in the vicinity of Highway 7 and Yonge St. in the City of Richmond Hill). From Finch Station to just south of the Holy Cross Catholic Cemetery, the alignment follows Yonge St. underground. North of the Holy Cross Catholic Cemetery, the subway alignment swings slightly eastward, crossing the northwest corner of the Langstaff development lands. The alignment then turns northward under Highway 407/Highway 7. North of the Richmond Hill Centre Station, the alignment terminates at the end of subway tail tracks in the transit corridor on the west side of the CN Bala Richmond Hill GO Line.	Extension of the subway alignment by approximately 1 km from previous terminus at Richmond Hill Centre Station to 16th Ave. in the City of Richmond Hill.	The proposed YNSE subway alignment is approximately 9.5 km in total commencing at the existing Finch Station in the City of Toronto northerly to just beyond the limit of the proposed TSF (at Moonlight Lane) in the City of Richmond Hill. The proposed revenue portion of the alignment is approximately 8 km in length, while the remaining trackwork services the TSF. The proposed below grade portion of the subway alignment is approximately 6.5 km, beginning at Finch Station and extending to the proposed tunnel portal structure just south of Langstaff Road. Between Finch Station and Royal Orchard Blvd, the underground alignment is proposed to run under Yonge Street. It then curves to reach Bay Thorn Drive and continue to the east, before turning northwards where the alignment generally follows the existing CN Rail ROW until the proposed portal structure (just south of Langstaff Road) where the subway alignment emerges to at grade. The proposed at grade portion of the subway alignment is approximately 3 km in length beginning just south of Langstaff Road (from the proposed portal structure), with tracks located within and adjacent to the CN rail corridor ROW and terminating just beyond the limit of the proposed TSF (at Moonlight Lane) in the City of Richmond Hill. The at grade subway alignment generally follows the existing CN rail corridor ROW; however, the westernmost subway track is situated immediately outside the CN Rail ROW boundary for the majority of the at grade segment.	While the YNSE was previously envisioned to terminate just north of Highway 7, the area to the north was identified by Metrolinx as an area where refinement could enhance Project benefits and reduce capital costs. The proposed alignment that forms the basis for this EPR Addendum specifically addresses the challenges and opportunities of serving these areas and their future residents and employees.
2. Proposed Subway Vertical Profile	Below grade vertical profile design with a crossing above grade (bridge) over the East Don River. Proposed station and alignment depths were not presented within the 2009 EPR.	N/A	The subway alignment vertical profile was designed to reduce the depth of the stations along the route, except at the potential Royal Orchard Station, which is located approximately 500 meters north of the deep East Don River Valley. The depth of the station platform at this location ranges from approximately 40 to 50 metres below the existing ground surface, to account for tunneling south of the station below the East Don River.	The current YNSE vertical profile changes from below grade to at grade south of Langstaff Road, thereby eliminating the above grade (bridge) crossing over the Don River. The currently proposed profile reduces the depth of the stations along the route (except at Royal Orchard Station), while meeting applicable tunnel grade requirements (e.g., TTC Design Manual DM-0204-04).
3. Tunnels	Approximately 6.8 km underground tunneled alignment from the existing Finch Station to the proposed Richmond Hill Center Station in the vicinity of Highway 7 and Yonge St. in the City of Richmond Hill. ○ For the purposes of determining the potential environmental effects of the Transit Project, the following approach was assumed within the 2009 EPR: • Richmond Hill Centre Station and surrounding area would provide sufficient space for the southbound launch of the TBM and as well as storage of tunnel liners and other	The underground Train Storage Facility assessed in the 2014 EPR Addendum would be located adjacent to the CN Rail corridor, beginning approximately 100m north of the Richmond Hill Centre Station. Cut and cover construction methodology was assumed for this work, during which the ground surface is opened (cut) a sufficient depth to construct the subway tunnel structure.	The proposed conceptual design involves the construction of tunnels for the underground alignment portion of the current YNSE alignment with the following key parameters: • Approximately 6 kms of twin 5.6 metre internal diameter TBM tunnels • Twin tunnels run from Finch Transition Box Structure to proposed portal location • Reference YNSE Alignment assumes all tunneling undertaken using two (2) TBMs • Launched at the North Portal Launch Shaft, located immediately west of CN/GO rail tracks and south of Langstaff Road • Both TBM's are to be removed at the Finch Transition Box Structure where the extraction shaft is to be located	There is no change to the need for tunneling as part of the project. The currently proposed YNSE alignment still entails the construction of approximately 6 kms of tunnels; whereas the approximate length of tunnelling in the 2009 EPR was 6.8 km.

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change
	tunnelling materials and equipment; and • Existing surface parking in the southwest quadrant of the Yonge Street / Steeles Avenue intersection could also provide sufficient space for the southbound launch of the TBM and storage of tunnel liners; and other tunnelling materials and equipment. The 2009 EPR Identified the East Don River crossing as the TBM extracting shaft location (one at each end of the crossing). Cummer / Drewry Station was also identified as a potential location to remove the TBM in the 2009 EPR. The 2009 EPR assumed a twin-bored tunnelling method for the entire running structure from Finch Station to the Richmond Hill Centre Station, with the exception of the section between the existing Finch Station tail tracks and Cummer/Drewry Station and the approaches to the proposed East Don River bridge.			
4. Finch Station Modifications	N/A	N/A	Modifications to existing Finch Station as follows: • Upgrading existing tail track to support future revenue service; • Construction of the Finch Transition Box Structure, which is an underground structure that provides the transition between the existing Finch Station tail track structure and the new YNSE twin tunnels; • Upgrading operational and support systems (e.g., signal upgrades) within the existing tail track area; • Upgrade to the existing electrical and communication back-of-house room at the station; • Upgrade to the existing Hendon Avenue Traction Power Substation located approximately 130 m west of the station; and • An approximately 130 m long underground duct bank extending westerly along Hendon Avenue from the existing Finch Station.	Modifications to the existing Finch Station and nearby/associated facilities such as the existing Hendon Avenue Traction Power Substation are required to enable YNSE project implementation and future revenue service beyond Finch Station.
5. Stations	Total of six (6) below grade stations proposed.	No new or modified stations were proposed.	Total of Four (4) below grade stations and two (2) at grade stations are proposed, as follows: • Cummer Station (below grade) • Steeles Station (below grade) and bus terminal • Clark Station (below grade) and bus terminal • Royal Orchard Station (below grade) • Bridge Station and bus terminal (at grade) • High Tech Station (at grade)	Two stations, Bridge and High Tech Stations, are proposed at grade due to change in proposed subway alignment (i.e., at grade). The current station alignment maximizes the benefits of the subway extension while achieving the lowest cost for the acceptable Project scope. Of all considered alignments, the currently proposed route is the only one that provides the opportunity for one Neighbourhood Station to be included in the Project

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change
			Specific infrastructure associated with each proposed station is further detailed within the rows below.	scope while maintaining costs within the funding envelope.
	Cummer / Drewry Station: • Location: Yonge St. & Cummer / Drewry Ave., approximately 800 m north of Finch Station. • Station components: below grade station box, concourse, bicycle facilities, ventilation shaft, Bus loop located at Drewry Ave. Four (4) pedestrian entrances: ○ Main entrances located at the Northeast and southwest quadrants of the intersection of Cummer Ave. and Yonge St. ○ Southeast corner of Cummer Ave./ Drewry Ave. and Yonge St. ○ East side of Yonge St at the north end of the station box.		***Potential* Cummer Station (below grade)** Location: Slight shift to the southwest. The proposed station is an in-line underground station located at the intersection of Cummer/Drewry Avenue and Yonge Street and includes a bus loop on Drewry Ave. west of Yonge St. with associated bus operators' facilities. Station components include: • A below grade, two-level station box with one central platform at track level and a public concourse level above • Up to two (2) at-grade pedestrian entrances (locations to be determined as part of further design development) • Up to two (2) Fire Fighter's Access Shafts (FFA) • Secured bicycle storage	The proposed location shift is primarily to avoid utility conflicts. The reduced number of station entrances minimizes potential property impacts while maintaining access and circulation in a way that accommodates future ridership requirements.
	Steeles Ave. Station and bus terminal • Location: Yonge St and Steeles Ave, approx. 1.2 km north of Cummer/ Drewry Ave. • Station components: below grade station box, concourse, bicycle facilities, ventilation shaft. • five (5) pedestrian entrances: ○ Two (2) street entrances located north of the station box on each side of Yonge St. ○ Two (2) street entrances located south of the station box on each side of Yonge St. ○ One (1) entrance from median located on Steeles Ave. • Underground bus terminal below Steeles Ave West. • Passenger Pick-up and Drop-Off (PPUDO) • Below grade bus terminal with three (3) bus access ramps and a bus platform for 25 buses.		**Steeles Station (below grade) and bus terminal** Location: Yonge St. at the intersection with Steeles Ave, shifted south from 2009 EPR. Station components changes include: • Three (3) pedestrian entrances (locations to be determined as part of further design development): • One (1) FFA • Securedbicycle storage • At grade bus terminal at the southwest quadrant of Yonge St and Steeles Ave • Potential road modifications to accommodate curbside bus platforms located at the Yonge St. and Steeles Ave. intersection	The bus terminal at Steeles Station is proposed to be an at grade terminal to avoid conflicts with the existing York Durham Sanitary Sewer. The reduced number of station entrances minimizes potential property impacts while maintaining access and circulation in a way that accommodates future ridership requirements.
	Clark Ave. Station	No new stations were proposed.	**Clark Station (below grade) and bus terminal** Location: No change, slight lateral expansion and shift southerly.	The reduced number of station entrances minimizes potential property impacts while maintaining access and circulation in a way that accommodates future ridership requirements. The addition of a bus terminal

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change

	• Location: Yonge St. and Clark Ave approximately 1 km north of Steeles Ave.
	• Station components: below grade station box, concourse, bicycle facilities, ventilation shaft.
	• Five (5) Pedestrian entrances:
	  ○ One (1) main entrance southwest corner of Clark Ave. and Yonge St.
	  ○ One (1) main entrance northeast corner of Clark Ave. and Yonge St.
	  ○ One (1) north end of the station and on the west side of Yonge St.
	  ○ One (1) entrance at the east side of Yonge St.
			Station components changes include:
			• Up to two (2) pedestrian entrances (locations to be determined as part of further design development)
			• Addition of bus facility with associated bus operator facilities
				further enhances transit system integration and improves transfers between transit modes.

	Royal Orchard Station
	• Location: intersection of Yonge St. and Royal Orchard Blvd., approximately 800 metres north of Centre St.
	• Station components: below grade station box, concourse, bicycle facilities, ventilation shaft.
	• two (2) pedestrian entrances:
	  ○ one (1) main entrance northeast corner of Royal Orchard Blvd. and Yonge St.
	  ○ one (1) entrance located southwest corner of Yonge St. and Thornhill Ave.
			***Potential* Royal Orchard Station (below grade)**
			Location: Yonge Street, south of Royal Orchard Blvd.
			
			Station components changes include:
			• Up to two (2) pedestrian entrances (locations to be determined as part of further design development)
			• A deeper station box due to proximity to the East Don River Valley topographic depression. This change eliminates the need for the Don River above grade crossing.
			• Secured bicycle storage
				Change to station location and depth as a result of changes in subway horizontal alignment and vertical profile. See rationale for alignment and profile change above.

	Langstaff / Longbridge Station • Location: between Longbridge Road and Langstaff Road, approximately 1km north of Royal Orchard Boulevard. • Station components: below grade station box, concourse, bicycle facilities, ventilation shaft. • PPUDO • Commuter parking • Two (2) pedestrian entrances: ○ One (1) on Hydro One property currently hosting a 230/500 kV transmission line south of Highway 407 and west of Yonge Street.		**Bridge Station and bus terminal (at grade)** Location: west of the CN Rail Corridor and north of Highway 407 and Highway 7. Station components changes include: • Three (3) pedestrian entrances (locations to be determined as part of further design development) • Bus terminal • Passenger and service emergency exit • Secured bicycle storage	The change in station location is in response to changes in the subway horizontal alignment and vertical profile discussed above. The reduction in number of station entrances minimizes potential property impacts while maintaining access and circulation in a way that accommodates future ridership requirements.

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change
	○ One (1) located at the southeast corner of Yonge St. and Langstaff Road East			
	Richmond Hill Centre Station – Transit Hub • Location: east of Yonge St. traversing High Tech Road, west of the CN rail corridor and north of Highway 7, approximately 1 km north of Royal Orchard Boulevard. • Station components: below grade station box, concourse, bicycle facilities, ventilation shaft. • Two (2) pedestrian entrances: ○ One (1) located at northeast corner of the station box ○ One (1) located at the southeast corner of the station box • Bus terminal • PPUDO • Transit Hub		**High Tech Station (at grade)** Location: east of Yonge St. traversing High Tech Road, west of the CN rail corridor, and north of Highway 407 and Highway 7 and adjacent to Richmond Hill Centre Terminal. Station components changes include: • Two (2) pedestrian entrances (locations to be determined as part of further design development) • Secured bicycle storage • A revised PPUDO design to accommodate the revised station configuration	The change in station location is in response to changes in the subway horizontal alignment and vertical profile discussed above. Similar to the previously envisioned Richmond Hill Centre Station, the currently proposed High Tech Station will accommodate transfers to GO train and GO bus services, as well as local transit, and will improve subway access to the Richmond Hill Centre and Langstaff Gateway development areas.
6. Proposed Emergency Exit Buildings (EEBs)	Six (6) Emergency Exit Buildings (EEBs): 1. EEB 1: Private property on the east side of Yonge St. between Centre Ave. and Newton Drive; 2. EEB 2: Private property on the west side of Yonge St. between Doncaster Ave. and the CN rail corridor); 3. EEB 3: Within municipal right-of-way on the west side of Yonge St. opposite Arnold Ave.; 4. EEB 4: Within municipal right-of-way on the east side of Yonge St. between Centre St. and the proposed East Don River Bridge; 5. EEB 5: Private property on the east side of Yonge St. between Uplands Ave. and Kirk Drive; and 6. EEB 6: Within municipal right-of-way on the north side of Highway 7 west of Garden Ave.	Two (2) additional EEBs: 1. EEB 7: Located at the proposed TSF parking lot, east of Coburg Crescent. 2. EEB 8: Located west of the proposed alignment, south of Coburg Crescent.	Seven (7) EEBs (precise locations to be determined as part of further design development): 1. EEB-1: located approximately between the existing Finch Station and the potential Cummer Station 2. EEB-2: located approximately between the potential Cummer Station and the confirmed Steeles Station 3. EEB-3: located approximately between the confirmed Steeles Station and the confirmed Clark Station 4. EEB-4: located approximately between the confirmed Clark Station and the potential Royal Orchard Station 5. EEB-5: located approximately in the vicinity of the potential Royal Orchard Station 6. EEB-6: located approximately north of Royal Orchard Station in the vicinity of Bay Thorn Drive 7. EEB-7: located approximately north of the potential Royal Orchard Station and south of the portal structure	The TTC Design Manual requires EEBs to be located such that the distance from any underground location to an EEB is not greater than 381 m – i.e., the spacing between EEBs or between EEBs and the closest station platform or portal entrance must be 762 m or less. Applying this standard to the currently proposed design has identified the need for a total of seven (7) EEBs.
7. Traction Power Substations (TPSSs)	Traction Power is provided by a live third rail that provides electric power through a conductor placed alongside the rail. In order to give the voltage a boost at regular intervals along the subway alignment, electrical substations (i.e., Traction Power Substations	N/A	Seven (7) TPSSs at the following locations: • Three (3) TPSS in the approximate vicinity of Cummer, Steeles, and Clark Stations. • One (1) TPSS in the approximate vicinity of the potential Royal Orchard Station • One (1) TPSS in the approximate vicinity of Bridge Station. • One (1) TPSS standalone building integrated with EEB-4 between the confirmed Clark Station and the potential Royal Orchard Station	The currently proposed subway alignment requires additional power compared to the alignment as presented in 2009 EPR due to its extended length (an approximate 6.8 km subway extension was assessed in 2009 compared to the approximate 9.5 km extension currently proposed). This has resulted in

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change
	[TPSSs]) are required. Traction power requirements dictate that TPSSs are not spaced more than 2.5 km from one another; however, a 2 km separation between TPSS is more typical. Four (4) TPSSs locations were included within the 2009 EPR in the vicinity of Steeles Station, Clark Station, Royal Orchard Station and Richmond Hill Centre Station.		• One (1) TPSS at the Train Storage Facility (TSF), immediately south of 16th Ave.	the need for additional TPSS facilities. The current EPR Addendum assess a total of seven (7) TPSSs locations.
8. Proposed Portal Structure	N/A	N/A	The tunnel portal structure will be located south of Langstaff Road, west of the CN corridor ROW. This concrete structure serves as entrance/exit to and from the subway tunnel, where the alignment transitions between below and at grade.	This structure is required to allow for the below-grade to at-grade transition of the subway alignment.
9. Proposed Launch Shaft	○ For the purposes of determining the potential environmental effects of the Transit Project, the following approach was assumed within the 2009 EPR: • Richmond Hill Centre Station and surrounding area would provide sufficient space for the southbound launch of the TBM and as well as storage of tunnel liners and other tunnelling materials and equipment ○ Existing surface parking in the southwest quadrant of the Yonge Street/Steeles Avenue intersection were also identified as providing sufficient space for the southbound launch of the TBM and storage of tunnel liners.	N/A	The current launch shaft location corresponds to a parcel of land west of the existing CN tracks and proposed portal structure, between Holy Cross Cemetery and Langstaff Road. A construction staging area/worksite will also be prepared for the assembly of the TBM at this location. The launch shaft structure is expected to be approximately 130 m in length.	The currently proposed location of the launch shaft reduces potential property impacts by using vacant industrial properties near the CN Rail ROW, south of Langstaff Rd. and has sufficient space to meet the functional needs of TBM operations.
10. Proposed Extraction Shaft	The 2009 EPR Identified the East Don River crossing as the TBM extraction shaft location (one at each end of the crossing). Cummer/ Drewry Station was also identified as a potential location to remove the TBM in the 2009 EPR.	N/A	The proposed extraction shaft for the TBM operations will be located within the boundaries of the Finch Transition Box Structure that will connect the existing Finch tail track with the new YNSE alignment running north.	A new extraction shaft location is required since an at grade crossing of the East Don River is no longer proposed. There is sufficient space at the Finch Transition Box Structure to permit the removal of the TBM.
11. Proposed Modifications to Bridges/ Structures/ Culverts	• East Don River crossing above-grade for both Subway and Roadway. Includes replacement of an existing culvert. • Proposed modifications to twin-box culvert located north of Highway 7 near Richmond Hill Centre Station.	N/A	• Design, construction, maintenance and removal of a temporary pedestrian bridge across the subway and CN rail corridors to replace the existing pedestrian bridge connecting Richmond Hill Centre (bus) Terminal and Langstaff GO Station. • Demolition of the pedestrian overpass bridge at Richmond Hill Centre will occur once bus operations are shifted to Bridge Station. • Crossing of East Down River is now below-grade, meaning a new structure at this location is no longer required.	To provide for continuous access across the rail corridor and subway alignment, the existing pedestrian bridge at Richmond Hill Centre Terminal is proposed to be replaced with a temporary pedestrian bridge. Temporary pedestrian bridge will be in place until Bridge Station is complete, with the Bridge Station providing access across the corridor.

Project Component	2009 EPR	2014 EPR Addendum	Current EPR Addendum	Rationale for Change
			• Langstaff Road East grade separation • Replacement of the existing culvert conveying German Mills Creek north of 16th Avenue. • A number of drainage culverts along the at grade portions of the alignment may be impacted (modified or replaced) to enable implementation of the Project. Any such culverts will be identified and addressed during future phases of design.	A new structure to carry the subway over the East Don River is no longer required now that the subway is below grade at this location. The existing culverts conveying German Mills Creek needs to be replaced to accommodate the tail tracks for the proposed TSF.
12. Proposed Train Storage Facility (TSF)	N/A	Underground Train Storage Facility (TSF): • Capacity: 14 trains; two (2) trains stored at Richmond Hill Centre Station and the remaining 12 trains stored at the TSF • Location: north of the Richmond Hill Centre Station • Maintenance building for staff access to the proposed TSF east of Coburg Crescent, and associated 25-30 space employee parking lot • A combined maintenance operators' facility and Electrical Service Building • A ventilation shaft • A drop shaft (a type of maintenance shaft)	At grade Train Storage Facility (TSF): • Capacity: 15 trains for overnight storage. • Location: in the vicinity of the CN corridor and 16th Ave., north of High Tech Station. • Transportation facility near Bantry Ave • Rail Cars & Shops Facility (RC&S) south of 16 Ave., including parking spaces for staff and visitors.	The current configuration for the proposed TSF was selected because it avoids reconstruction of overhead bridges (High Tech, Bantry, and 16th Avenue), promotes the consolidation of buildings to minimize impacts to City of Richmond Hill property, accommodates a future multi-use trail to be completed by the municipality, and because it meets functional TTC requirements. A drop shaft is no longer necessary now that the TSF is at grade.

A 2.2 EPR Addendum Study Area

The YNSE EPR Addendum Study Area generally encompasses the proposed project components (i.e., subway alignment, Stations, Train Storage Facility, launch and extraction shafts, and related ancillary components) and extends approximately 9 kms in length, commencing at the existing Finch Station along the existing Line 1 Yonge–University in the City of Toronto, and extends northerly through the City of Vaughan (to the west) and City of Markham (to the east), to Moonlight Lane (just north of the proposed TSF) in the City of Richmond Hill, York Region.

With reference to the more detailed project mapping found in Appendix A, the defined Study Area reflects the proposed location of the YNSE infrastructure components as well as a buffer zone that accounts for the area that may be potentially impacted by future project design refinements and/or modifications. Such design changes (if applicable) will be further defined and confirmed as part of the subsequent detailed design stage of the Project.

A 2.3 Study Area Segments

For reporting purposes and to better characterize the findings of the various environmental and technical studies, the EPR Addendum Study Area was further sub-divided into three (3) geographic segments (Figure A 2-1).

A 2.3.1 Segment 1 – Finch Station to Clark Station (Below Grade)

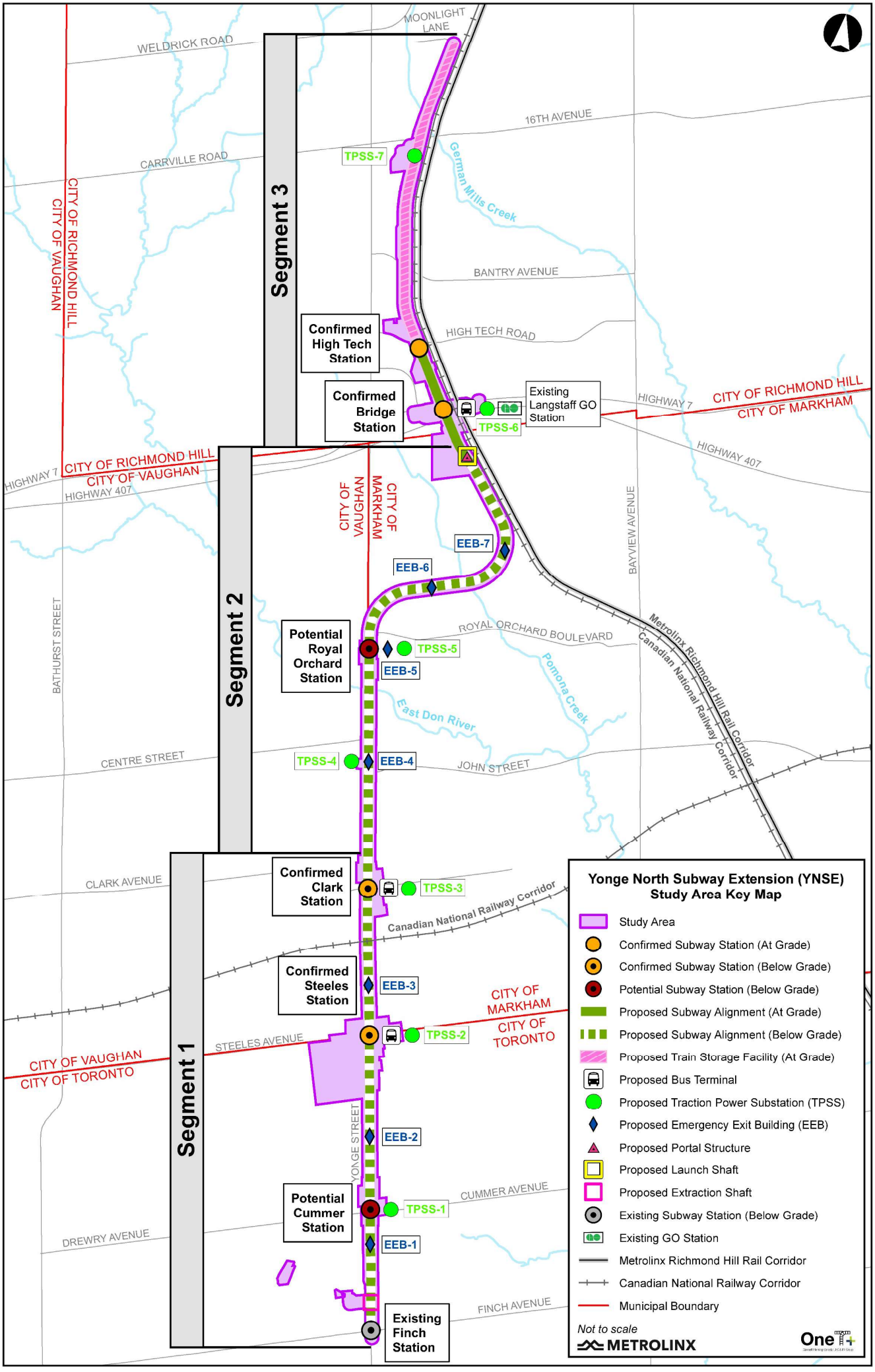
Segment 1 starts at the existing Finch Station and extends northward to the proposed Clark Station. It should be noted that this segment is inclusive of the proposed Clark Station and the proposed Cummer Station, Cummer Station Bus Loop, Steeles Station, and Steeles Station Bus Terminal. The entirety of this segment will be below grade. At Steeles Avenue, the Project Study Area crosses the boundary between the City of Toronto and York Region, for which Yonge Street serves as a boundary between the City of Vaughan to the west and the City of Markham to the east.

A 2.3.2 Segment 2 – Clark Station to Portal/Launch Shaft (Below Grade)

Segment 2 starts immediately beyond the limits of the proposed Clark Station and extends northward to the proposed portal structure and launch shaft location, located south of Langstaff Road East within the City of Markham. This segment is inclusive of the entirety of the proposed portal and launch shaft footprint area, extending north to the proposed Bridge Station and west from the CN rail corridor towards Ruggles Avenue.It also includes the proposed Royal Orchard Station. This segment runs below grade until it reaches the tunnel portal, where it emerges to the surface. Segment 2 ends immediately north of Langstaff Road East, south of Highway 407 in the City of Richmond Hill within York Region.

A 2.3.3 Segment 3 – Portal/Launch Shaft to Moonlight Lane (At Grade)

Segment 3 starts immediately beyond the limits of the proposed portal and launch shaft location, near the proposed Bridge Station, and extends northward to Moonlight Lane which marks the northernmost Study Area limit. This segment, located within the City of Richmond Hill, includes the proposed High Tech Station and proposed TSF. The entirety of Segment 3 is planned to be at grade.


MOONLIGHT LANE
WELDRICK ROAD
16TH AVENUE
CARRVILLE ROAD
CITY OF RICHMOND HILL
CITY OF VAUGHAN
Segment 3
TPSS-7
German Mills Creek
BANTRY AVENUE
Confirmed High Tech Station
HIGH TECH ROAD
Confirmed Bridge Station
Existing Langstaff GO Station
TPSS-6
HIGHWAY 7
CITY OF RICHMOND HILL
CITY OF MARKHAM
HIGHWAY 407
HIGHWAY 7
CITY OF RICHMOND HILL
CITY OF VAUGHAN
HIGHWAY 407
CITY OF VAUGHAN
CITY OF MARKHAM
BAYVIEW AVENUE
EEB-7
EEB-6
BATHURST STREET
Segment 2
Potential Royal Orchard Station
ROYAL ORCHARD BOULEVARD
TPSS-5
EEB-5
Pomona Creek
East Don River
Metrolinx Richmond Hill Rail Corridor
Canadian National Railway Corridor
CENTRE STREET
TPSS-4
EEB-4
JOHN STREET
CLARK AVENUE
Confirmed Clark Station
TPSS-3
Canadian National Railway Corridor
Confirmed Steeles Station
EEB-3
CITY OF MARKHAM
CITY OF TORONTO
STEELES AVENUE
TPSS-2
CITY OF VAUGHAN
CITY OF TORONTO
Segment 1
YONGE STREET
EEB-2
Potential Cummer Station
CUMMER AVENUE
TPSS-1
DREWRY AVENUE
EEB-1
FINCH AVENUE
Existing Finch Station
Yonge North Subway Extension (YNSE)
Study Area Key Map
Study Area
Confirmed Subway Station (At Grade)
Confirmed Subway Station (Below Grade)
Potential Subway Station (Below Grade)
Proposed Subway Alignment (At Grade)
Proposed Subway Alignment (Below Grade)
Proposed Train Storage Facility (At Grade)
Proposed Bus Terminal
Proposed Traction Power Substation (TPSS)
Proposed Emergency Exit Building (EEB)
Proposed Portal Structure
Proposed Launch Shaft
Proposed Extraction Shaft
Existing Subway Station (Below Grade)
Existing GO Station
Metrolinx Richmond Hill Rail Corridor
Canadian National Railway Corridor
Municipal Boundary
Not to scale
METROLINX

A 3.0 Methodology

The following section provides an overview of the methodology followed to collect and document cultural heritage existing conditions information within the Study Area.

A 3.1 Purpose

The purpose of Part A of this report is to provide a detailed description of the existing conditions within the YSNE EPR Addendum Study Area. The findings and existing conditions data have been organized into the three (3) Study Area segments accordingly for reporting purposes.

A 3.2 Cultural Heritage Study Area

Per MHSTCI guidance, this Cultural Heritage Report uses Section 4.1 of the Ministry of Transportation Ontario's (MTO) *Environmental Guide for Built Heritage and Cultural Heritage Landscapes* (MTO 2007:13) to define the Study Area and Study Zones. Per Section 4.1 of MTO's guide, the Study Area is defined as follows:

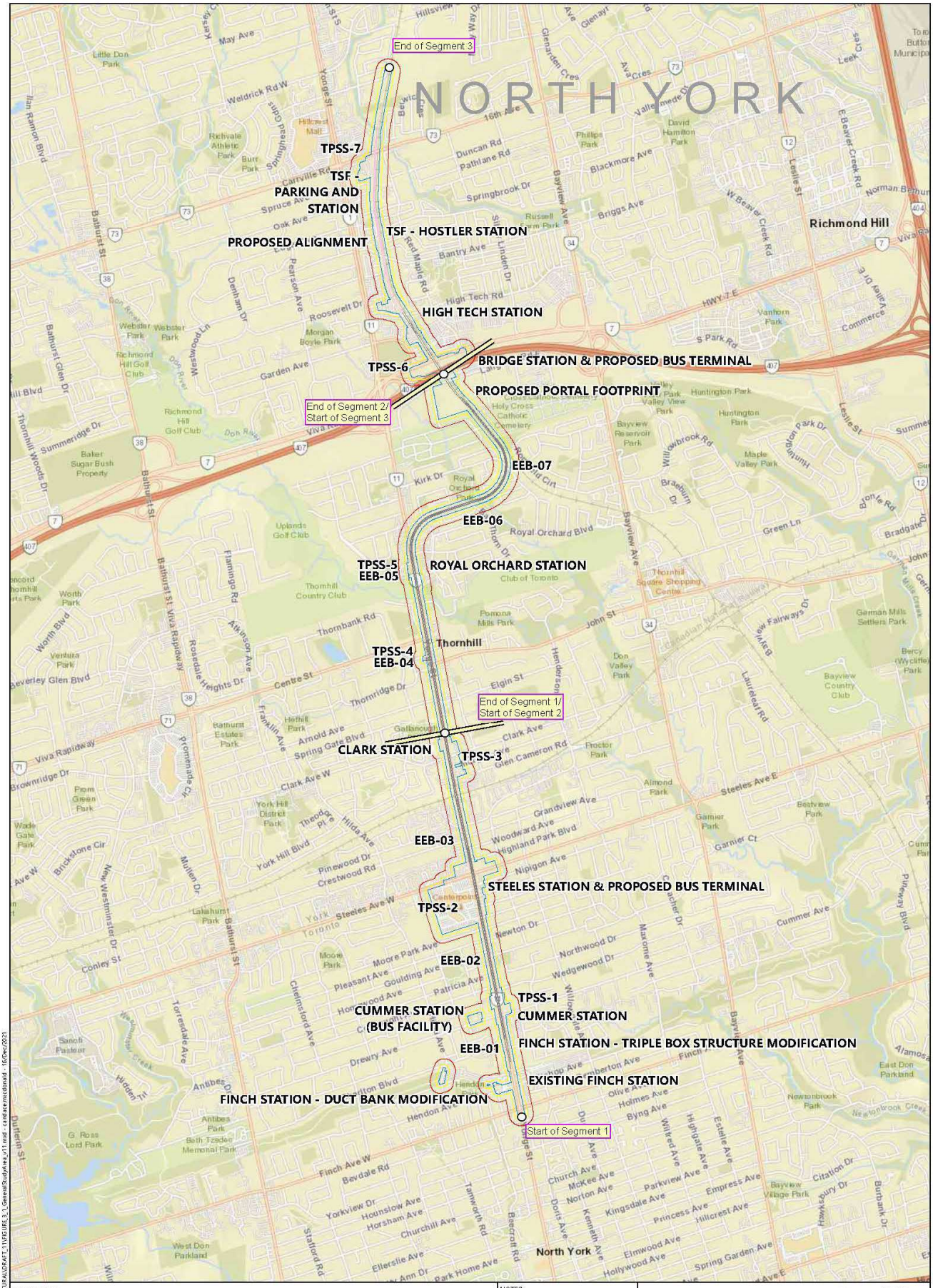
- **Project Footprint**: A ROW Study Zone comprised of the lands to be developed for the proposed project component. In this Cultural Heritage Report, the 'ROW Study Zone' is identified as the 'Project Footprint' and includes the footprints of the linear subway extension and proposed subway stations and associated project components.
- **25 Metre Study Zone**: Located immediately beside the Project Footprint and has potential for direct impacts to identified built heritage resources and cultural heritage landscapes.
- **50 Metre Study Zone**: Located immediately beside the 25 Metre Study Zone and includes lands where direct impacts are unlikely to occur but indirect impacts to built heritage resources and cultural heritage landscapes may be identified.

Together the Project Footprint, 25 Metre Study Zone, and 50 Metre Study Zone, which together make a total 75m buffer from the Project Footprint, form the Cultural Heritage Study Area (Study Area). Property parcels, that fall wholly or partially within the 75 buffer were considered to be 'in' the Study Area and were screened for protected and potential heritage properties.

The 75 metre buffer was judged sufficient to capture potential direct and indirect impacts to identified built heritage resources and cultural heritage landscapes within, and adjacent to, the proposed work. For this preliminary impact assessment, the following definitions of direct, indirect, and positive impacts are used:

- **Direct Adverse Impact**: A permanent or irreversible impact that negatively affects the CHVI of a property or results in the loss of one or more heritage attributes on all or part of the property.
- **Indirect Adverse Impact**: An impact that is the result of an activity on or near the property that may adversely affect its CHVI and/or heritage attributes.
- **Positive Impact**: An impact that may positively affect a property by conserving or enhancing its CHVI and/or heritage attributes (Government of Ontario 2017).

An overview of the Cultural Heritage Study Area is provided in **Figure A 2-2**.



LEGEND

- Study Area Start and End Point
- Proposed Alignment; Below Grade Tunnel
- Proposed Train Storage Facility
- Study Area Segment Breakline
- 25 Metre Study Zone
- 50 Metre Study Zone

0 437.5 875 1,750 2,625 3,500 4,375 Metres

NOTES:
- Basemap Courtesy of ESRI 2019

Datum: NAD83
Projection: UTM Zone 17N

N

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One

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

Location of The Cultural Heritage Study Area

PROJECT N°: OGTW2005 | FIGURE: A 2_2

SCALE: 1:30,000 | DATE: Dec 2021

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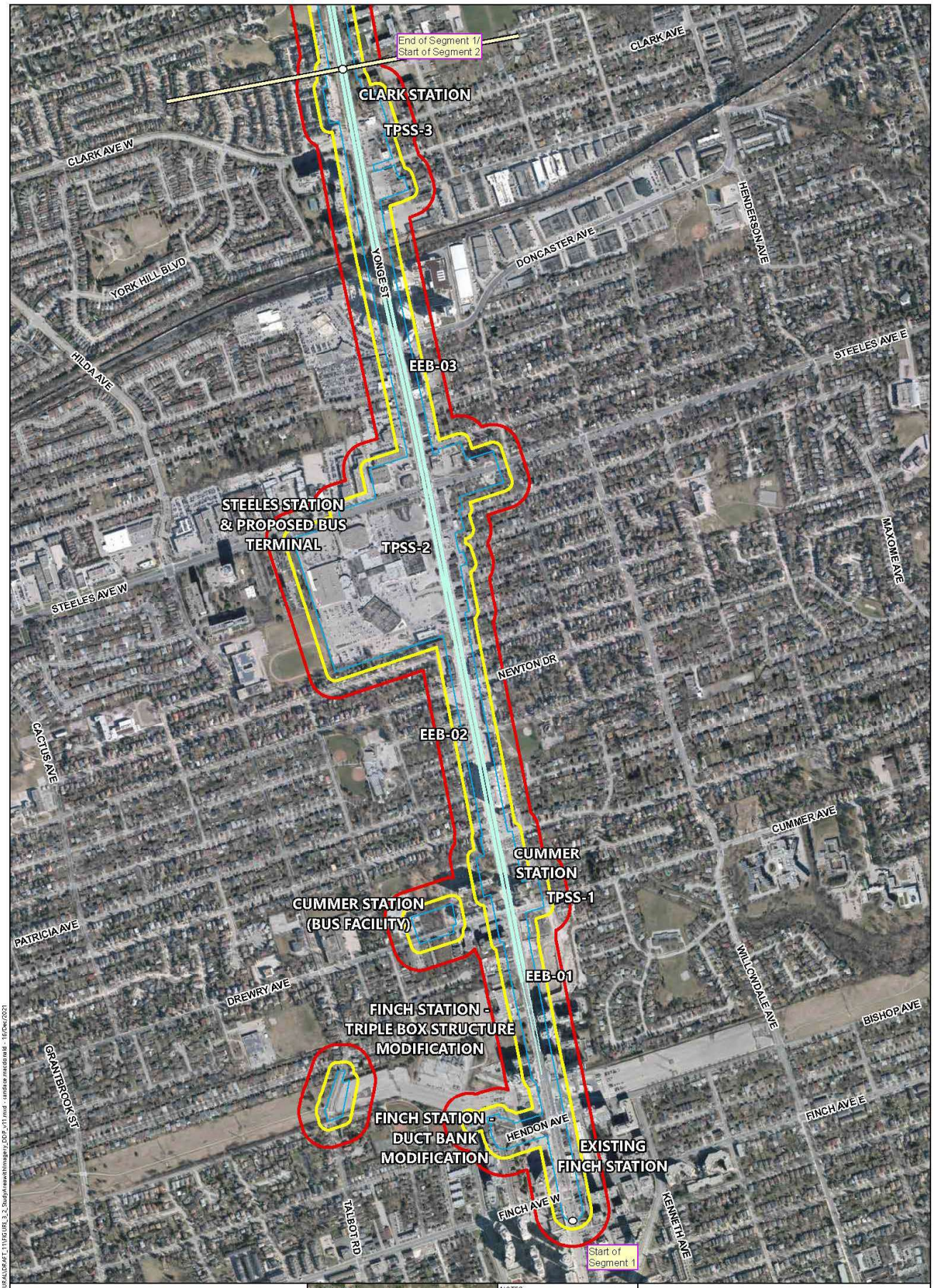

LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

KEY MAP



NOTES:
- Imagery Courtsey of ESRI 2019

Datum: NAD83
Projection: UTM Zone 17N

0 145 290 580 870 1,160 1,450 Metres

N

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CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

Aerial Photograph Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 2-3A
SCALE: 1:10,000	DATE: Dec 2021

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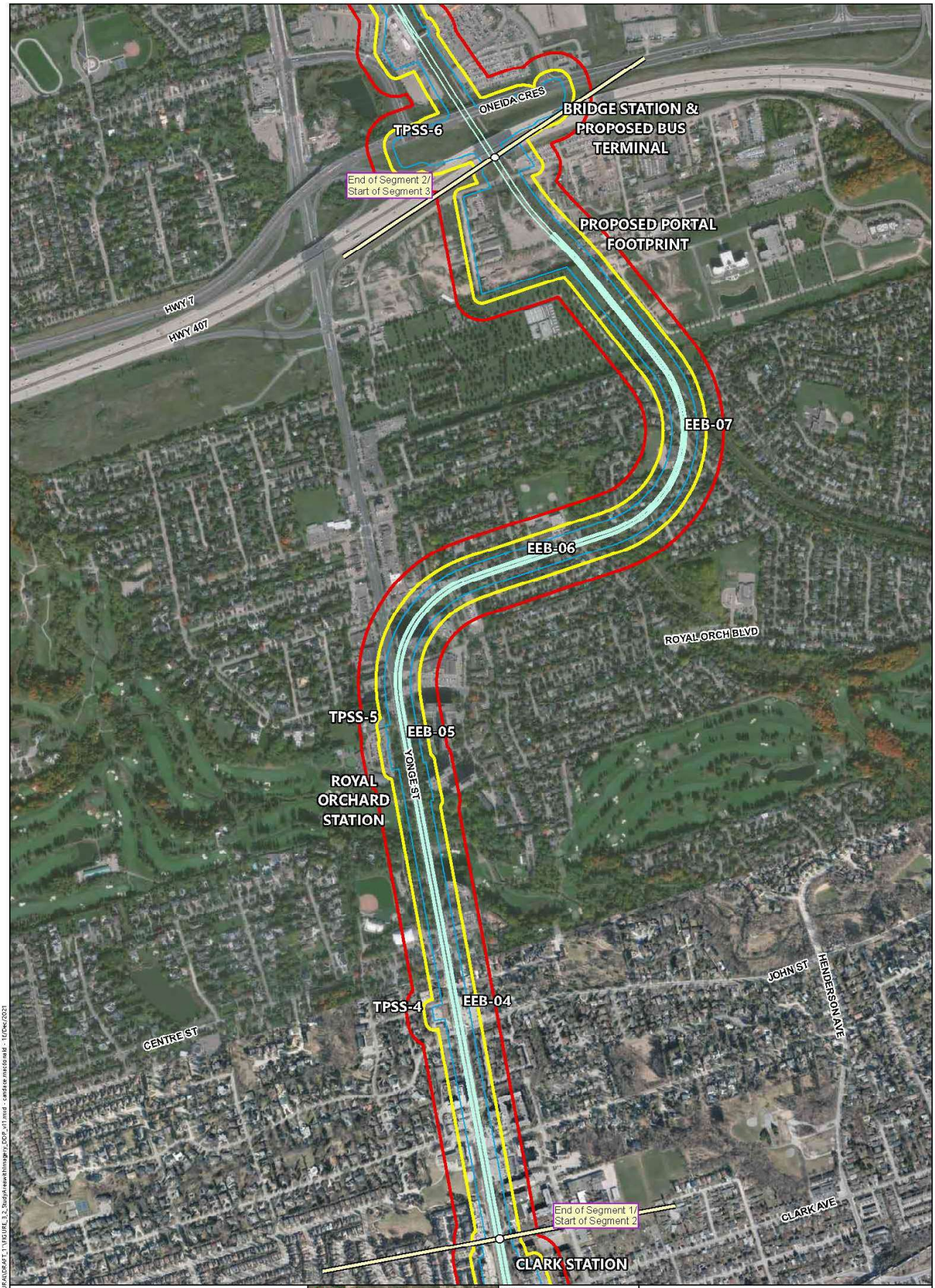

LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

KEY MAP



NOTES:
- Imagery Courtesy of ESRI 2019

Datum: NAD83
Projection: UTM Zone 17N

0 145 290 580 870 1,160 1,450 Metres

N

METROLINX

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

Aerial Photograph Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 2-3B
SCALE: 1:10,000	DATE: Dec 2021

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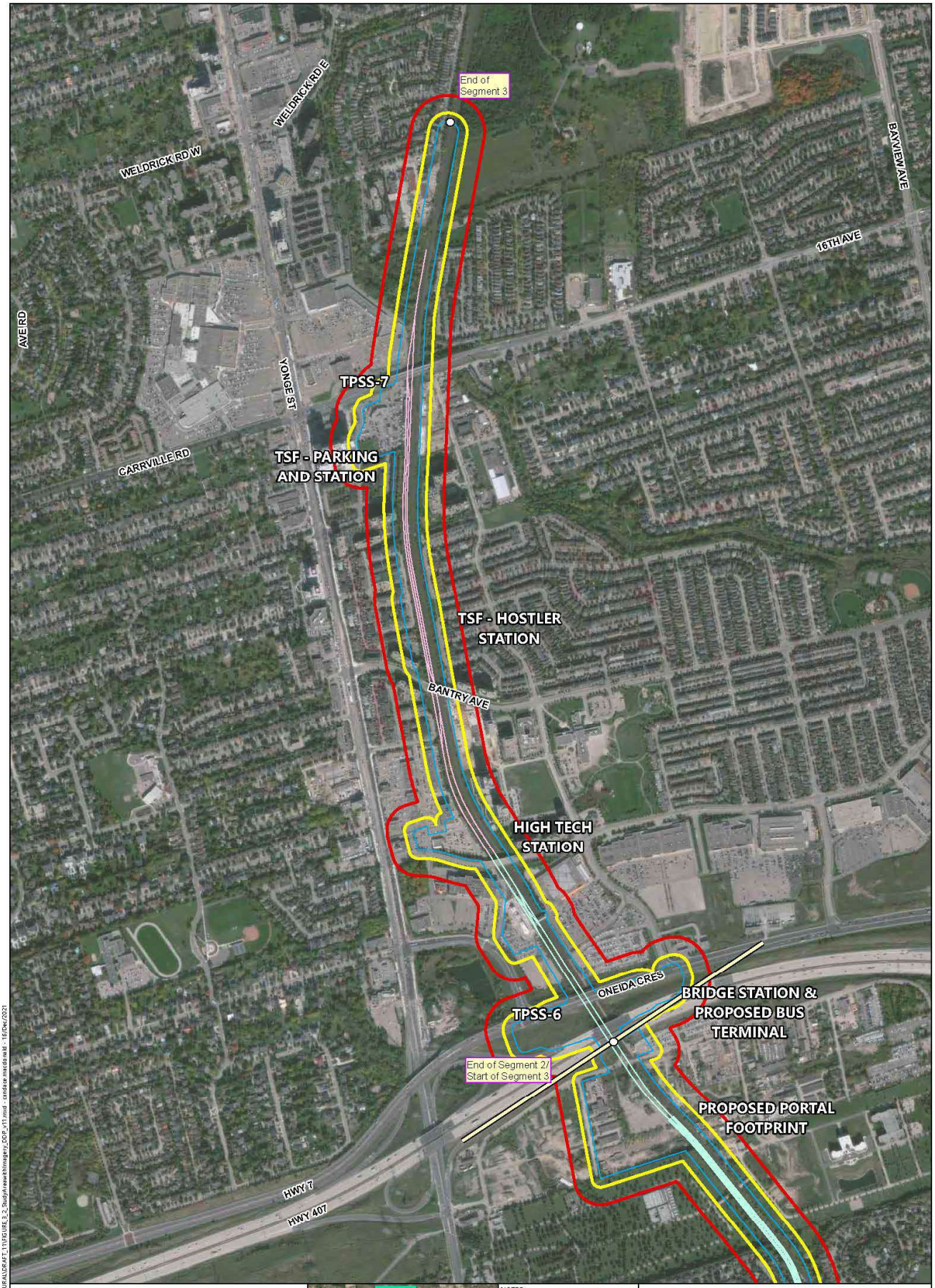

LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Proposed Train Storage Facility
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

KEY MAP



NOTES:
- Imagery Courtesy of ESRI 2019

Datum: NAD83
Projection: UTM Zone 17N

0 145 290 580 870 1,160 1,450 Metres

N

METROLINX

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

Aerial Photograph Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 2-3C
SCALE: 1:10,000	DATE: Dec 2021

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A 3.3 Legislative Requirements and Regulations

The requirements to consider cultural heritage under the Environmental Assessment (EA) process are found in the *Provincial Policy Statement* (PPS) 2020 (Government of Ontario 2020) and the *Environmental Assessment Act* R.S.O. 1990, c. E.18 (EA Act).

The PPS provides policy direction on matters of provincial interest related to land use planning and development (Government of Ontario 2020:1). The PPS is applicable to the entire Province of Ontario. Under the PPS, the conservation of cultural heritage is identified as a matter of provincial interest. Section 2.6 of the PPS gives direction on the consideration of cultural heritage and archaeology (Government of Ontario 2020:31). Specifically, the following direction is given regarding built heritage resources, cultural heritage landscapes, and protected heritage properties:

> *2.6.1 Significant built heritage resources and significant cultural heritage landscapes shall be conserved*
>
> *2.6.3 Planning authorities shall not permit development and site alteration on adjacent lands to protected heritage property except where the proposed development and site alteration has been evaluated and it has been demonstrated that the heritage attributes of the protected heritage property will be conserved.*
>
> (Government of Ontario, 2020)

The EA Act sets out planning and decision-making process so that potential environmental effects are considered before a project begins (Government of Ontario 2019). The EA Act applies to provincial ministries and agencies, municipalities, and public bodies. In regard to transit work, Ontario Regulation (O. Reg.) 231/08: Transit Projects and Metrolinx Undertakings, of the EA Act outlines the requirements for transit projects undertaken by Metrolinx.

Under the TPAP, Metrolinx is required to consider whether its proposed transit project could a have potential negative impact on the environment. The Ministry of Environment, Conservation and Parks (MECP) expects a transit project proponent to make reasonable efforts to avoid, prevent, mitigate or protect matters of provincial importance. The MECP's *Guide to Environmental Assessment Requirements for Transit Projects* (Transit Guide) provides guidance to proponents on how to meet the requirements of O.Reg 231/08. The Transit Guide encourages proponents, such as Metrolinx, to obtain information and input from appropriate government agency technical representatives before starting the TPAP to assist in meeting the timelines specified in the regulation, including the submission of a draft Environmental Project Report (EPR) or draft EPR Addendum for review and comment prior to issuing a Notice of Commencement or Notice of Addendum. Among the pre-planning activities outlined in Section 4.1 of the Transit Guide, a proponent is advised to conduct studies to:

- identify existing baseline environmental conditions;
- identify project-specific location or alignment (including construction staging, land requirements); and,
- identify expected environmental impacts and proposed measures to mitigate potential negative impacts.

The *Ontario Heritage Act*, R.S.O. 1990, c. O.18, provides a framework for the protection of cultural heritage resources in the Province. It gives municipalities and the provincial government powers to protect heritage properties and

archaeological sites. O. Reg. 157/10 of the *Ontario Heritage Act* lists prescribed public bodies that must follow the *Standards and Guidelines for Provincial Heritage Properties*. Presently, there are 12 prescribed public bodies in Ontario, including Metrolinx (Government of Ontario 2014). As a prescribed public body under Part III.1 of the *Ontario Heritage Act* (Ontario Regulation 157/10), Metrolinx is responsible for establishing a cultural heritage process for the identification, management, and conservation of provincial heritage properties. Further, Metrolinx must comply with the *Standards and Guidelines for the Conservation of Provincial Heritage Properties* (Standards and Guidelines) (MHSTCI 2010) to manage properties that are owned by Metrolinx and are found to be Provincial Heritage Properties (PHP) or Provincial Heritage Properties of Provincial Significance (PHPPS). Metrolinx is required to comply with the provisions of the Standards and Guidelines and must seek consent from the Minister of the MHSTCI for the disposition, removal, or demolition of a PHP or PHPPS.

The *Ontario Heritage Act* includes two regulations for determining Cultural Heritage Value or Interest (CHVI): Ontario Regulation (O. Reg.) 9/06 and O. Reg. 10/06. O. Reg. 9/06 provides criteria to determine the CHVI of a property at a local level while O. Reg. 10/06 provides criteria to determine if a property has CHVI of provincial significance.

A 3.4 Cultural Heritage Guidance Documents

The Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) is responsible for the administration of the *Ontario Heritage Act* and has developed checklists, information bulletins, standards and guidelines, and policies to support the conservation of Ontario's cultural heritage resources, including built heritage resources, cultural heritage landscapes, and archaeological sites.

The MHSTCI 2019 guidance document titled *"Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment and Environmental Project Reports (EPR) under Transit Project Assessment Process (TPAP) for Proponents and their Consultants"* was used to guide the preparation of this report, including the definition of the Study Area, creating the inventory of built heritage resources and cultural heritage landscapes, and presenting the results of the impact assessment. In addition, the *MHSTCI Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes: A Checklist for the Non-Specialist* (the Checklist) was used to guide the identification of known and potential properties with cultural heritage value.

A 3.5 Data Collection and Analysis

A 3.5.1 Background Research

Background research was carried out during the preparation of this Cultural Heritage Report to gain a thorough understanding of the historical context of the Study Area. Primary sources, secondary sources, historical maps, and aerial photographs were consulted, as appropriate, to identify historical themes relevant to the Study Area. Specifically, research regarding the physiography, survey and settlement, 19th-century land use, and 20th-century land use of the Study Area was completed. A review of historical mapping and aerial photographs was also conducted to identify settlements, structures, and landscape features within, and adjacent to, the Study Area. Historical maps from 1860, 1878, 1914, 1933 and 1943 were reviewed as well as aerial photography from 1947 and 1992. In addition, Google Earth imagery was reviewed to identify recent changes within the Study Area.

In addition, data was collected from the following sources and considered as appropriate as part of documenting existing conditions within the Study Area:

- *Ontario Heritage Act* Register and plaques database
- Previously completed TPAPs and cultural heritage studies, including:
  a. 2009 Environmental Project Report (EPR). Yonge North Subway Extension.
  b. 2009 Existing Conditions: Built Heritage & Cultural Heritage Landscapes, Yonge Subway Extension Environmental Project, Finch Avenue to Highway 207, City of Markham, City of Vaughan, City of Toronto (Unterman McPhail 2009)
  c. 2014 EPR Addendum. Yonge North Subway Extension.
  d. 2014 Memorandum from Richard Unterman: Yonge Subway Extension – TSFD Environmental Project Report Addendum Cultural Heritage Assessment Report
  e. 2018 *Cultural Heritage Resource Assessment: Built Heritage Resources and Cultural Heritage Landscapes, Existing Conditions and Assessment of Impacts, 16th Avenue Municipal Class Environmental Assessment from Yonge Street to Woodbine Avenue, Town of Richmond Hill and City of Markham, York Region* (ASI 2018)
- City of Toronto Heritage Register
- City of Vaughan's Heritage Preservation website
- City of Markham Heritage Property Register
- City of Richmond Hill's Inventory of Cultural Heritage Resources
- City of Vaughan Thornhill HCD
- City of Markham Thornhill HCD

The results of the background research are presented in **Section A 4.0** of this report.

A 3.5.2 Inventory of Built Heritage Resources and Cultural Heritage Landscapes

Once the results of the background research, background review, data gap analysis, information gathering requests, and field review were complied, an inventory of built heritage resources and cultural heritage landscapes (the Inventory) within the Study Area was developed. The Inventory includes both protected and potential heritage properties. Further, the Inventory includes built heritage resources (BHR) and cultural heritage landscapes (CHL). Archaeological resources are not considered in this Cultural Heritage Report and are assessed under a separate cover.

A 3.6 Data Gap Analysis

A review of previously completed studies and/or reports to confirm the findings of the previous technical studies and identify areas where data was either non-existent from previous studies, and/or determine is new data needed to be collected, and/or existing available data required review and updating or augmenting. The results of this data gap analysis are presented in **Table A 3-1**.

Table A 3-2 Cultural Heritage Gap Analysis

Data Reviewed	Summary	Gaps Identified
2009 EPR. Yonge North Subway Extension	A cultural heritage resource survey of built heritage resources and cultural heritage landscapes was completed for Appendix H of the EPR. The EPR contains a summary of the key findings. Numerous protected heritage properties are identified in the study area, including two Heritage Conservation Districts (HCD).	Further work was recommended for several properties in the form of a Heritage Impact Assessment (See below row for details regarding the recommended HIAs contained in the 2009 Existing Conditions for Cultural Heritage).
2009 *Existing Conditions: Built Heritage & Cultural Heritage Landscapes, Yonge Subway Extension Environmental Project, Finch Avenue to Highway 207, City of Markham, City of Vaughan, City of Toronto* (Unterman McPhail 2009)	Existing Conditions Report for built heritage and cultural heritage landscapes for YNSE from Finch Avenue to Highway 407. A total of 20 protected and/or potential heritage properties were identified. No impacts identified at Richmond Hill Station, Langstaff/Longbridge Station, Clark Station, and Steeles Avenue Station. Heritage Impact Assessments (HIAs) recommended for: • Thornhill HCD • 8000 Yonge Street • 8010 Yonge Street • Old Thornhill Cemetery • 7951 Yonge Street • 5925 Yonge Street • 5926 Yonge Street	The 2009 Existing Conditions report does not meet current MHSTCI and Metrolinx requirements. While the existing reports will not be updated for the sole purpose of adhering to current guidelines the existing conditions of the identified heritage properties should be confirmed since the information in the report is over 10 years old and the status of these properties may have changed. In addition, a new impact assessment should be completed to confirm anticipated impacts based on the current proposed work.
2014 EPR Addendum. Yonge North Subway Extension	EPR for YNSE from Finch Station to Richmond Hill Centre. A cultural heritage memo was produced for the EPR by Unterman McPhail to address areas not included in the 2009 EPR. No impacts to cultural heritage resources were identified in the memo.	The proposed work for YNSE has changed since this report was completed. Accordingly, a new impact assessment should be completed to confirm anticipated impacts based on the current proposed work.
2014 Memorandum from Richard Unterman: *Yonge Subway Extension – TSFD EPR Addendum Cultural Heritage Assessment Report* (Unterman McPhail 2014)	A technical memo was produced by Unterman McPhail to assess areas not included in the 2009 EPR. No additional heritage properties were identified and no further cultural heritage work was recommended.	The technical memo does not meet current MHSTCI and Metrolinx requirements.
2018 *Cultural Heritage Resource Assessment: Built Heritage Resources and Cultural Heritage Landscapes, Existing Conditions and Assessment of Impacts, 16th Avenue Municipal Class Environmental Assessment from Yonge Street to Woodbine Avenue, Town of Richmond Hill and City of Markham, York Region* (ASI 2018)	Cultural Heritage Resource Assessment completed by ASI on 16th Avenue from Yonge Street to Woodbine Avenue. No built heritage resources of cultural heritage landscapes identified within the current YNSE Study Area.	None

The results of the gap analysis identified that the information contained in the 2009 EPR and 2014 EPR and associated heritage report is considered outdated and does not meet current Metrolinx and MHSTCI cultural heritage requirements. In addition, the proposed work for YNSE has changed since these reports were completed. Therefore, the purpose of the Cultural Heritage Report is to confirm existing conditions and complete an impact assessment.

A 3.7 Field Investigations

The following field investigations and site reconnaissance activities were undertaken to collect primary source data within the Study Area as part of the existing conditions phase. The status of the cultural heritage field investigations are as follows:

Table A 3-3 Cultural Heritage Field Investigation Summary

Segment	Field Survey Date(s)	Status	Comment(s)
Segment 1 – Finch Station to Clark Station	November 05 2020; December 11 2020; January 12 2021; November 15 2021	Complete	Status based on OneT+ Cultural Heritage Study Area defined **Section A 3.2.**
Segment 2 – Clark Station to Portal/Launch Shaft	November 05 2020; December 11 2020; January 12 2021 June 4, 2021; November 15, 2021	Complete	Status based on OneT+ Cultural Heritage Study Area defined **Section A 3.2.**
Segment 3 – Portal/Launch Shaft to Moonlight Lane	November 05 2020; December 11 2020; January 12 2021 June 4, 2021	Complete	Status based on OneT+ Cultural Heritage Study Area defined in **Section A 3.2.**

A 3.8 Information Gathering with Authorities Having Jurisdiction

Information gathering requests were carried out to identify known or protected built heritage resources and cultural heritage landscapes in the Study Area. For this Cultural Heritage Report, the City of Toronto, City of Vaughan, City of Markham, City of Richmond Hill, Ontario Heritage Trust, and the MHSTCI were contacted to determine the presence of listed, designated, or protected heritage properties within the Study Area. The results of information gathering requests are presented in **Section A 5.1** of this report.

A 4.0 Background Research

A 4.1 Introduction

In order to gain a thorough understanding of the history of the Study Area, a review of its physiography, survey and settlement, 19th-century land use and 20th-century land use was completed. A review of historical mapping and aerial photographs was also conducted to identify settlements, structures, and landscape features within, and adjacent to, the Study Area. Historically, the Study Area was in the following Lots and Concessions: Lots and Concessions within York County: Lot 26-32 Concession I West of Yonge Street in the Township of Vaughan, Lot 26-30 and 32-41 Concession I East of Yonge Street in the Township of Markham, and Lot 21-25 Concession I East and West of Yonge Street in the Township of York (Carter 1984b).

In order to develop a thorough understanding of the overall 19th and 20th century land use, **Sections A 4.2-A 4.3** examine the entire Study Area as a whole, while **Section A 4.4** identifies the corresponding project segments in relation to historical feature(s) as identified on the 1860 and 1878 historical maps.

A 4.2 Physiography

The Study Area is situated within the Peel Plain physiographic region of Ontario (Chapman and Putnam 1984:113). This physiographic region consists of approximately 777 square km (300 square miles) of clay soils that cover the central portion of the Regional Municipality of York, Peel and Halton (Chapman and Putnam1984:174). The underlying geological material consists of shale and limestone. According to Chapman and Putman (1984), this area would have been covered by hardwood forests (Chapman and Putnam 1984:175). The Peel Plain was settled by Euro-Canadians during the early part of the nineteenth century for its fertile clay soils (Chapman and Putnam 1984: 176). Until the 1940s, the land was used for agricultural purposes, beginning with the growing of wheat, hay and alfalfa. In addition, various racehorse farms and small fruit, vegetable and poultry farms were established. According to Chapman and Putman (1984:176), most of the farms were 100 acres in size and had the following configuration: the majority of the land was used for field crops, a small portion of it for pasture and about 6-7% remained as woodlots. Since the 1960s, the villages and towns have grown rapidly.

A 4.3 Township Survey and Settlement

The Study Area is located within the geographic Townships of Markham, Vaughan, and York, County of York. The County of York may have first been visited by Euro-Canadians in 1615–1616 when Étienne Brûlé ventured into the area. Before Euro-Canadians arrived, the county area was referred to as Toronto by the Indigenous Nations (Miles & Co. 1878). In the early eighteenth century a fort was established by the French at the mouth of the Humber River, although French occupation was relatively short lived. In the late 1700s Deputy Surveyor John Collins made the first British maps of the area under the direction of Lieutenant-Governor of Upper Canada, John Graves Simcoe who had dubbed it the County of York. The Town of York, located southwest of the Study Area, was named the capital of Upper Canada in 1793 (Miles and Co. 1878: i–x). Early development of York was focused around the shore area of Lake Ontario where historical parliament, defensive positions, and trade were centred. Yonge Street was laid out on a north-south access, becoming a front for concessions. Many of the original roads in the county were situated along pre-existing trails used by Indigenous Nations. Some of the early infrastructure received names by practical means, such as Don Mills Road,

which facilitated access to many of the mills located along the Don River. A large section of the southernmost portion of the county between the Don and Humber Rivers was first known as Toronto, then as York in 1793, and as Toronto once again in 1834 (Miles & Co. 1878: i–x; Williamson 2008).

The survey of the Township of Vaughan was begun as early as 1795 by John Iredell but was not completed until 1851 (Mika and Mika 1983: 574). The township was named after Benjamin Vaughan, one of two representatives sent by Lord Melbourne to negotiate peace terms with the Americans in 1783. The first settlers came to the township as early as 1778 and took up residence in the southeast corner of the township. Most of the early settlers were predominantly British, many of whom worked as farm labourers (Mika and Mika 1983: 575). Both religion and education were important to the early settlers, and by 1825, 20 schools had been established. Sixteen churches, of various denominations, were also built (Miles & Co. 1878).

The survey of the Township of Markham occurred between 1793-94 (The Canadian Encyclopedia 2020). Named by John Graves Simcoe after William Markham, Archbishop of York, the township consisted of over 64, 000 acres and was home to several streams and rivers which helped power several mills (History of Markham 2020). The township was incorporated as a township on January 1, 1815 (Carter 1984a). By 1857 most of the township was cleared of timber and the land utilized for agricultural purposes. Local business owners lobbied for a railway in order to compete with neighboring townships and on September 14, 1871 stations for the Toronto Railway company were established in Unionville and Markham and by 1878 the township of Markham had 16 established post offices (History of Markham 2020; Carter 1984a). Records from the 19th-century list the population size of Markham township as 3070 in 1830, 7720 in 1852 and 5500 in 1878 (Carter 1984a). At the turn of the century Markham once again began to utilize the agricultural land as the railway connection to Toronto as well as other technological advancements diminished Markham's industrial role. Post World War II Markham saw an increase in urban development and push from Toronto as the population continued to grow. Markham saw another increase in urban development following the introduction of the 404 Highway in the mid 1970s (History of Markham 2020). In 1970 the township was dissolved and on January 1, 1971 the township was annexed into the Towns of Markham, Richmond Hill and into part of Whitchurch-Stouffville (Carter 1984a).

The Township of York was originally called Dublin but was renamed to York in 1793 (Toronto Public Library 2016). Following the British hegemony in the Canadas at the conclusion at the end of the Seven Years War, settlement in Toronto was limited, although its potential to serve as an effective link within the transportation and communications network associated with the fur trade was widely recognized (Careless 1984: 10; ASI 2003). One notable exception to this was the establishment of a substantial trading post by Jean Baptiste Rosseau at the mouth of the Humber River (Careless 1984b:10; ASI 2003). At the end of the American War of Independence (1774–1783), the British were forced to recognize the emergence of a new political frontier which had to be maintained under a strong military presence. It was these new developments which led, in 1793, to the founding of the Town of York on the west side of the outlet and associated wetlands of the Don River, as well as a military establishment further to the west at the mouth of Garrison Creek. The intended purpose of Fort York was to control entry into the town's harbour (Careless 1984b:11; 19–21; ASI 2003). The garrison-maintained control of the lands east of Garrison Creek, between the lakeshore and present-day Queen and Peter Streets. After the destruction of Fort York and a portion of the Town of York during the War of 1812, Fort York was rebuilt between 1813 and 1815 (Benn 1993: 69–70; ASI 2003). Shortly thereafter, plans commenced for improved defences, which included a new fort (to complement the existing complex) to the southwest. In the 1830s,

the plan for a new fort was rendered on maps and in 1842 several structures were built with palisades around three sides. Despite the opening of the "New Fort," Fort York continued to be an important part of military life (ASI 2003:17).

Between the years of 1853-1912 several areas would separate from York township to become individual municipalities, but these would be later annexed into the City of Toronto. York township would cease to be an individual municipality on 1 January 1998 when the township was amalgamated into the City of Toronto (Toronto Public Library 2016).

The Study Area is located along Yonge Street a historic roadway, named in honor of Sir George Yonge. Yonge Street was originally planned in 1792 by Simcoe and later surveyed by Augustus Jones as a means to offer a connection between Lake Simcoe and Lake Ontario (Mika and Mika 1983). Constructed between 1794-1796, Yonge Street was the site of various historic settlements including: Toronto, Yorkville, Eglington, York Mills, Willowdale, Newtonbrook, Thornhill, Richmond Hill, Aurora and Holland Landing (Tremaine 1860). Of the ten settlements mentioned the Study Area crosses the Villages of Thornhill and Newtonbrook and is located approximately 900 meters to the north of the Village of Willowdale.

Located within the Study Area and originally within Lots 29-31 and Lots 30-31 on the east and west side of Yonge Street respectively is the Village of Thornhill which is located approximately 19km from Toronto (Carter 1984b). The first settlers listed within Thornhill are Asa Johnson and Nicholas Miller, both of which claimed their land grants in 1794. By 1829 the village had established the following: four (4) sawmills, two (2) distilleries, three (3) blacksmiths, three (3) harness makers, one (1) grist mill, one (1) tannery, one (1) fulling mill, and a post office which was established on January 6, 1828 (History of Thornhill 2020; Carter 1984). The post office was named after Benjamin Thorne, an early merchant who settled in the area in 1822 and the first listed postmaster was named William Parsons. Records from the 19th-century list the population size of Thornhill as 700 in 1857 and 1135 in 1976 (Carter 1984b). In 1896 the Metropolitan Radial Railway reached Thornhill allowing commuters to travel to and from Toronto. A significant improvement from the current preferred source of transportation, the railway, the introduction of the electric street railway and the later invention of the automobile helped to facilitate travel along Yonge street into Toronto (History of Thornhill 2020). Presently both sides of Thornhill, located within Vaughan and Markham, are designated as Heritage Conservation Districts (Thornhill Vaughan Heritage Conservation District Plan 2007; Thornhill Markham Heritage Conservation District Plan).

Intersecting with the Study Area is the site of the historic Village of Newtonbrook. Located approximately 13 miles from Toronto the Village of Newtonbrook was named after Sir Isaac Newton and a small brook that intersects the middle of the village. A post office named Newtonbrook was established on 1 May 1863; the post office would later close on 15 May 1954. Records from the 19th-century list the population size of Newtonbrook as 250 in 1886 and 350 in 1926 (Carter 1984b).

Approximately 200 meters to the south of the Study Area is the Village of Willowdale which was originally known as the Kummer Settlement after the Kummer family; later references list the Kummer family as Cumner or Cummer. A post office was established on 1 April 1855 named Willowdale. Located between Yonge and Sheppard, approximately 13 miles north of Toronto, the settlement became known as Willowdale although it had other titles including: Cummer Sawmill, Scripture Town and in 1826 as Angel Valley. Records list the population size of Willowdale as 150 in 1857, 40 in 1885, and 150 in 1908 (Carter 1984b).

A 4.4 Review of Historical Mapping

Background research was carried out during the preparation of this report to gain a thorough understanding of the historical context of the Study Area. Primary sources, secondary sources, historical maps, and aerial photographs were consulted, as appropriate, to identify historical themes relevant to the Study Area. Specifically, research regarding the physiography, survey and settlement, 19th century land use, and 20th century land use of the Study Area was completed . A review of historical mapping and aerial photographs was also conducted to identify settlements, structures, and landscape features within, and adjacent to, the Study Area.

A 4.4.1 19th Century

Historical records and mapping were examined to gain an understanding of 19th-century land use in the Study Area. For the purposes of this assessment the 19th century land use historical features are presented lot by lot to help establish the historical context of the Study Area and surrounding landscape. A summary of these historical records is presented below in **Table A 4-1** with applicable mapping included as **Figure A 4-1** through **Figure A 4-3**.

Table A 4-1 Review of 19th Century Historical Mapping

<table>
<tr><th>Year</th><th>Map Title</th><th>Historical Feature(s)</th></tr>
<tr><td>1860
(Figure A 4-1)</td><td>1860 Tremaine’s Map of the County of York (Tremaine 1860)</td><td>The Study Area is in the following Lots and Concessions:
Lot 26-32 Concession I West of Yonge Street in the Township of Vaughan
Lot 26-30 and 32-41 Concession I East of Yonge Street in the Township of Markham
Lot 21-25 Concession I East and West of Yonge Street in the Township of York
Information concerning the various property owners is included below
<table>
<tr><th colspan="4">Concession I West of Yonge Street, Vaughan Township</th></tr>
<tr><th>Lot</th><th>Listed Property Owners</th><th>Historical Feature (s)</th><th>Associated Segment(s)</th></tr>
<tr><td>Lot 26</td><td>Eber White
Robert Gordon</td><td>Green Bush Inn
One (1) Residence</td><td>Segment 1</td></tr>
<tr><td>Lot 27</td><td>William Munshaw
James Pearson</td><td>Two (2) Residences</td><td>Segment 1</td></tr>
<tr><td>Lot 28</td><td>James Chapman
Isaac Chapman
J.B.
A.G.
J. Cooke
R.J
J.G.</td><td>One (1) Residence</td><td>Segment 1</td></tr>
<tr><td>Lot 29</td><td>Robert J. Arnold</td><td>Two (2) Residences</td><td>Segment 1 & 2</td></tr>
<tr><td>Lot 30</td><td>William Lane
John Bishop
Mrs. Ross
E.
J.P.
W.J.
B.G.</td><td>Village of Thornhill</td><td>Segment 2</td></tr>
<tr><td>Lot 31</td><td>Edward Sager</td><td>Village of Thornhill</td><td>Segment 2</td></tr>
</table>
</td></tr>
</table>

Year	Map Title	Historical Feature(s)

Lot 32	D. McDougall	One (1) Grist Mill Village of Thornhill Don River	Segment 2

Concession I East of Yonge Street, Markham Township

Lot	Listed Property Owners	Historical Feature (s)	Associated Segment(s)
Lot 26	Oliver Thomas Armstrong William Robinson	Two (2) Residences	Segment 1
Lot 27	James Farr Arnnold Abner	One (1) Residence	Segment 1
Lot 28	Arnold Abner John Morgan Dr. Pagel	Two (2) Residences One (1) Sawmill Don River	Segment 1
Lot 29	John Brunskill Arnold Abner J.P J.M J.S J.R J.I J.R H.J Jesiah Reid	One (1) Residence Don River	Segment 2
Lot 30	J.R. Arnold M.C.D	Village of Thornhill One (1) Grist Mill One (1) Saw Mill Pomona Mills Don River	Segment 2
Lot 32	George Paxton	Village of Thornhill	Segment 2
Lot 33	William Parsons, Henry Miller	No additional features	Segment 2
Lot 34	Henry Miller J.P, Nathan Miller	No additional features	Segment 2
Lot 35	Nathan Miller, William M. Munshaw	One (1) Residence	Segment 2
Lot 36	John Langstaff Senior	One (1) School House 1 Pail Factory	Segment 2 & 3
Lot 37	John Munshaw Senator John Langstaff	One (1) Residence	Segment 3
Lot 38	L. Munshaw William Russel E. Seagar	Don River	Segment 3
Lot 39	William Russel E. Seagar	Don River	Segment 3
Lot 40	William Duncan	Don River	Segment 3
Lot 41	Robert Marsh	Don River	Segment 3

<table>
<tr><th>Year</th><th>Map Title</th><th>Historical Feature(s)</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th colspan="4">Concession I West of Yonge Street, York Township</th></tr>
<tr><th>Lot</th><th>Listed Property Owners</th><th>Historical Feature (s)</th><th>Associated Segment(s)</th></tr>
<tr><td>Lot 20</td><td>Emanual Bowes
John Kirby
William Ianaon
James Davis</td><td>No additional Features</td><td>Segment 1</td></tr>
<tr><td>Lot 21</td><td>Finch
Ashton Fletcher</td><td>One (1) Hotel
Willket Creek</td><td>Segment 1</td></tr>
<tr><td>Lot 22</td><td>Ashton Fletcher
Thomas Davison</td><td>Willket Creek</td><td>Segment 1</td></tr>
<tr><td>Lot 23</td><td>Thomas Humberstone
David Mulholland
William Street
George Davis</td><td>Willket Creek
One (1) Wesleyan Methodist Church
Pottery
Village of Newtonbrook</td><td>Segment 1</td></tr>
<tr><td>Lot 24</td><td>Nicholas Munshaw
George Crookshanks
James Nichol</td><td>Village of Newtonbrook
Wilket Creek</td><td>Segment 1</td></tr>
<tr><td>Lot 25</td><td>George Crookshanks
William Robinson</td><td>One (1) Residence labelled as S.S.</td><td>Segment 1</td></tr>
</table>
<table>
<tr><th colspan="4">Concession I East of Yonge Street, York Township</th></tr>
<tr><th>Lot</th><th>Listed Property Owners</th><th>Historical Feature (s)</th><th>Associated Segment(s)</th></tr>
<tr><td>Lot 20</td><td>William Holmes
Johnathan Dunn</td><td>One (1) Residence</td><td>Segment 1</td></tr>
<tr><td>Lot 21</td><td>Lackie & Johnson
John Wilson
Peter Lawrence</td><td>One (1) Residence</td><td>Segment 1</td></tr>
<tr><td>Lot 22</td><td>George Routliff Sigworth
Thomas Harper
Joseph James</td><td>Village of Newtonbrook</td><td>Segment 1</td></tr>
<tr><td>Lot 23</td><td>Robert Weatherill Agar
Thomas Harper
William James Hale
Richard Montgomery</td><td>Village of Newtonbrook
Wilket Creek</td><td>Segment 1</td></tr>
<tr><td>Lot 24</td><td>Scholfield Property
Joesph Shepard
John Woods</td><td>Village of Newtonbrook
Pottery</td><td>Segment 1</td></tr>
<tr><td>Lot 25</td><td>George Crookshanks</td><td>No additional features</td><td>Segment 1</td></tr>
</table>
</td></tr>
<tr><td>1878 (Figure A 4-2)</td><td>1878 Historical Atlas of the County of York (Miles & Co. 1878)</td><td>Information concerning the various property owners is included below
<table>
<tr><th colspan="4">Concession I West of Yonge Street, Vaughan Township</th></tr>
<tr><th>Lot</th><th>Listed Property Owners</th><th>Historical Feature (s)</th><th>Associated Segment(s)</th></tr>
<tr><td>Lot 26</td><td>Widow Munshaw
H.Y. Winte
Robert Cordon</td><td>Green Bush Inn
Three (3) Residences
One (1) Orchard</td><td>Segment 1</td></tr>
<tr><td>Lot 27</td><td>Widow Munshaw
John Morgan</td><td>Two (2) Residences
Two (2) Orchards</td><td>Segment 1</td></tr>
</table>
</td></tr>
</table>

Year	Map Title	Historical Feature(s)

Lot 28	James Chapman Isaac Chapman	Five (5) Residences	Segment 1
Lot 29	Arnold Estate	Two (2) Residences One (1) Orchard	Segment 1 & 2
Lot 30	W&T Lane W. Edny R.R. Archibald Gallanough T.Yarv	Three (3) Residences One (1) Orchard One (1) Schoolhouse Village of Thornhill	Segment 2
Lot 31	Edward Seager	Village of Thornhill	Segment 2
Lot 32	Benjamin Bowman	One (1) Residence Village of Thornhill Don River	Segment 2

Concession I East of Yonge Street, Markham Township

Lot	Listed Property Owners	Historical Feature (s)	Associated Segment(s)
Lot 26	Widow Munshaw H.Y. Winte Robert Cordon	Green Bush Inn Three (3) Residences One (1) Orchard	Segment 1
Lot 27	Widow Munshaw John Morgan	Two (2) Residences Two (2) Orchards	Segment 1
Lot 28	James Chapman Isaac Chapman	Five (5) Residences	Segment 1
Lot 29	Arnold Estate	Two (2) Residences One (1) Orchard	Segment 2
Lot 30	W&T Lane W. Edny R.R. Archibald Gallanough T.Yarv	Three (3) Residences One (1) Orchard One (1) Schoolhouse Village of Thornhill	Segment 2
Lot 32	Edward Seager	Village of Thornhill	Segment 2
Lot 33	Benjamin Bowman	One (1) Residence Village of Thornhill Don River	Segment 2
Lot 34	Widow Munshaw H.Y. Winte Robert Cordon	Green Bush Inn Three (3) Residences One (1) Orchard	Segment 2
Lot 35	Widow Munshaw John Morgan	Two (2) Residences Two (2) Orchards	Segment 2
Lot 36	John Langstaff Senior Lewis Landstaff	One (1) Sawmill One (1) Post Office One (1) Store One (1) Residence One (1) Orchard	Segment 2 & 3
Lot 37	Mrs Lawrence James Russell Lewis Langstaff Daniel Barker	Two (2) Residences Two (2) Orchards	Segment 3

Year	Map Title	Historical Feature(s)

Lot 38	John Chapman William Russel	One (1) Residence One (1) Orchard Don River	Segment 3
Lot 39	William Russel	One (1) Orchard Don River	Segment 3
Lot 40	John Duncan	One (1) Residence One (1) Orchard Don River	Segment 3
Lot 41	Robert Marsh	One (1) Residence Once (1) Orchard Don River	Segment 3

Concession I West of Yonge Street, York Township

Lot	Listed Property Owners	Historical Feature (s)	Associated Segment(s)
Lot 20	F.J.D Smith John Kirby William Ionson P. Lawrence	Three (3) Residences One (1) Orchard	Segment 1
Lot 21	Johnson John D. Finch Egerton Wilson P. Lawrence Joseph James	5 Five (5) Residences One (1) Orchard	Segment 1
Lot 22	George Routliffe Joesph James N.B. Thomas Harper James Watson J.G.	Four (4) Residences One (1) Schoolhouse	Segment 1
Lot 23	Samuel W. Warnica W.W. J.W. R. James T.H. M. Hockett J. Wilson	Nine (9) Residences One (1) Orchard	Segment 1
Lot 24	John Wood R. James William Goulding	Three (3) Residences One (1) Orchard One (1) Schoolhouse	Segment 1
Lot 25	Stephen Heward	No Additional Features	Segment 1

Concession I East of Yonge Street, York Township

Lot	Listed Property Owners	Historical Feature (s)	Associated Segment(s)
Lot 20	William Holmes	One (1) Residence One (1) Orchard	Segment 1
Lot 21	John D. Finch John Francis	Two (2) Residences One (1) Orchard Don River	Segment 1
Lot 22	Robert Risebrough	Five (5) Residences One (1) Methodist Church	Segment 1

<table>
<tr><th>Year</th><th>Map Title</th><th>Historical Feature(s)</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td></td><td>One (1) Orchard
Don River</td><td></td></tr>
<tr><td>Lot
23</td><td>T. Humberston
Joseph E. Shepard
O. Davidson
William Street
J.S.
J.L.
D.
M.B.</td><td>Three (3) Residences
Don River</td><td>Segment 1</td></tr>
<tr><td>Lot
24</td><td>M.W
A.R
J. Nichol
Crookshank Est.
Nicholas Munchaw</td><td>Six (6) Residences
One (1) Orchard</td><td>Segment 1</td></tr>
<tr><td>Lot
25</td><td>Crookshank Estate
William Robinson</td><td>Three (3) Residences
One (1) Residences</td><td>Segment 1</td></tr>
</table>
Additional Features include:
Thornhill Cemetery located 350 m to the southeast of the Study Area
The town of Thornhill located at Centre Street and John Street
Don River Intersects the Study Area
</td></tr>
<tr><td>1878
(Figure A 4-3)</td><td>1878 Historical Atlas of the County of York County: Village of Thornhill
(Miles & Co. 1878b)</td><td>Southern limits of Village of Thornhill shown as 188 meters to the south-southeast of the intersection at John Street and Yonge Street
Northern limits of the Village of Thornhill 647 meters to the north-northwest
Thornhill Cemetery located 500 m to the northeast the intersection at John Street and Yonge Street
Additional features observed within the Village of Thornhill include:
Thornhill Railway Station
School
Wesleyan Church
Post Office
Montreal Telegraph Office
Drugstores
Roman Catholic Church
Victoria Hill</td></tr>
</table>

A 4.4.2 20th Century

A review of recent 20th-century historical maps and aerial photographs was completed to gain an understanding of 20th-century land use in the Study Area. A summary of the review is provided in **Table A 4-2** with applicable mapping included as **Figure A 4-4** through **Figure A 4-6**. Aerial photographs are provided in **APPENDIX A.** While maps from the 1914, 1917, 1922, 1930, 1933, 1936, and 1943 were examined along with available aerial imagery from 1947 to 1992. It was concluded that historic maps from the years 1906, 1925 and 1942 and aerial images from 1959, 1970 and 1977 best illustrated the prominent changes of the Study Area within the early 20th-century and its surrounding areas.

Table A 4-2 Review of 20th Century Records - Historical Mapping & Aerial Photographs

Year	Map Title	Historical Feature(s)
1914 (Figure A 4-4)	1914 Topographic Map of Ontario, Markham Sheet (Department of Militia and Defense 1914)	The following features are observed: • Numerous Residences • Two (2) Post Offices • Three (3) Blacksmiths • One (1) Hotel • Two (2) Schools • One (1) Church approximately 300 meters to the southeast • Three (3) Cemeteries within 300 meters of the Study Area • Railway intersecting the Study Area • Don River intersecting the Study Area
1933 (Figure A 4-5)	1933 Topographic Map of Ontario, Markham Sheet (Department of Militia and Defense 1933)	The following features are observed: • Numerous Residences • Two (2) Post Offices • One (1) Blacksmiths • One (1) Hotel • Two (2) Schools • One (1) Garage • One (1) Church approximately 300 meters to the southeast • Three (3) Cemeteries within 300 meters of the Study Area • Railway intersecting the Study Area • Don River intersecting the Study Area
1943 (Figure A 4-6)	1943 Topographic Map of Ontario, Markham Sheet (Department of Militia and Defense 1943)	The following features are observed: • Numerous Residences • Willowdale Golf Course • Upland Golf Club • Two (2) Post Offices • One (1) Blacksmiths • One (1) Hotel • Two (2) Schools • One (1) Church approximately 300 meters to the southeast • Three (3) Cemeteries within 300 meters of the Study Area • Railway intersecting the Study Area • Don River intersecting the Study Area
1959	**APPENDIX A**: Plate A1-A2	The following features are observed: • Established subdivisions intermixed with farmland • Don River intersecting the Study Area

Year	Map Title	Historical Feature(s)
		• CN Railway construction in progress
1970	**APPENDIX A**: Plate B1-B2	• The following features are observed: • Established subdivisions surrounding the Study Area • Farmland visible surround various subdivisions located outside of the Study Area • Don River intersecting the Study Area • CN Railway established and intersecting the Study Area
1977	**APPENDIX A**: Plate C1-C2	The configuration of the Study Area is very stable between 1970 and 1977; little change takes place.
Various	2002 to 2019 Online Google Earth Aerial Imagery	The configuration of the Study Area is very stable and little change takes place.

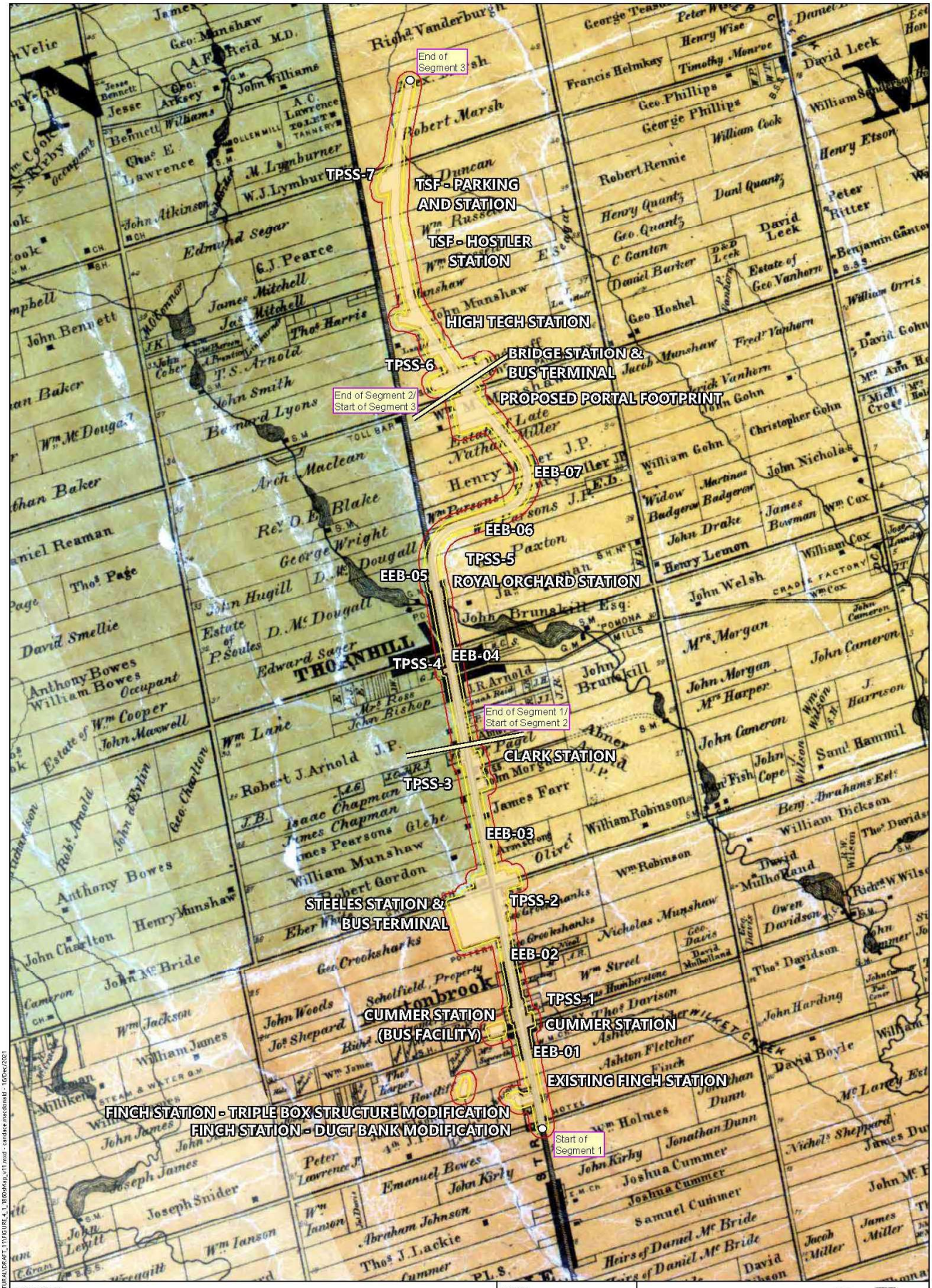
A 4.5 Previously Completed Cultural Heritage Studies

A 4.5.1 Existing Conditions: Built Heritage & Cultural Heritage Landscapes Memorandum (MMM Group 2014)

In 2014, Unterman McPhail Associates prepared a memorandum for the MMM Group (formerly McCormick Rankin Corporation) regarding a cultural heritage resource survey, including existing conditions, potential impacts and recommendations for the proposed Train Storage Facility (TSF) in the vicinity of the Richmond Hill Centre, at the north end of the approved Yonge Subway Extension (YSE). Following a windshield survey to identify built heritage resources and cultural landscapes for properties older than 40 years Unterman McPhail Associates concluded there would be no direct or indirect impacts to any built heritage and cultural heritage resources and as a result noted there were no additional recommendations required to conserve or limit impacts to any built heritage or cultural heritage resources.

A 4.5.2 Existing Conditions: Built Heritage & Cultural Heritage Landscapes (MMM Group 2009)

In 2009, Unterman McPhail Associates was retained by the McCormick Rankin Corporation to complete a cultural heritage resource survey of built heritage resources and cultural heritage landscapes along Yonge Street for the Yonge Street Subway Extension project. Following a windshield survey to identify built heritage resources and cultural landscapes for properties older than 40 years the survey identified a total of twenty cultural heritage landscapes/ built heritage features of interest but did not identify any provincially or federally designated properties within the study alignment. Unterman McPhail Associates identified potential impacts to the Royal Orchard and Cummer Station sites noted that further assessments may be required following updated design details and the results of consultation with the City of Toronto, City of Markham and the City of Vaughan.



LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Proposed Train Storage Facility
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

NOTES:

Datum: NAD83
Projection: UTM Zone 17N

0 437.5 875 1,750 2,625 3,500 4,375 Metres

N

METROLINX

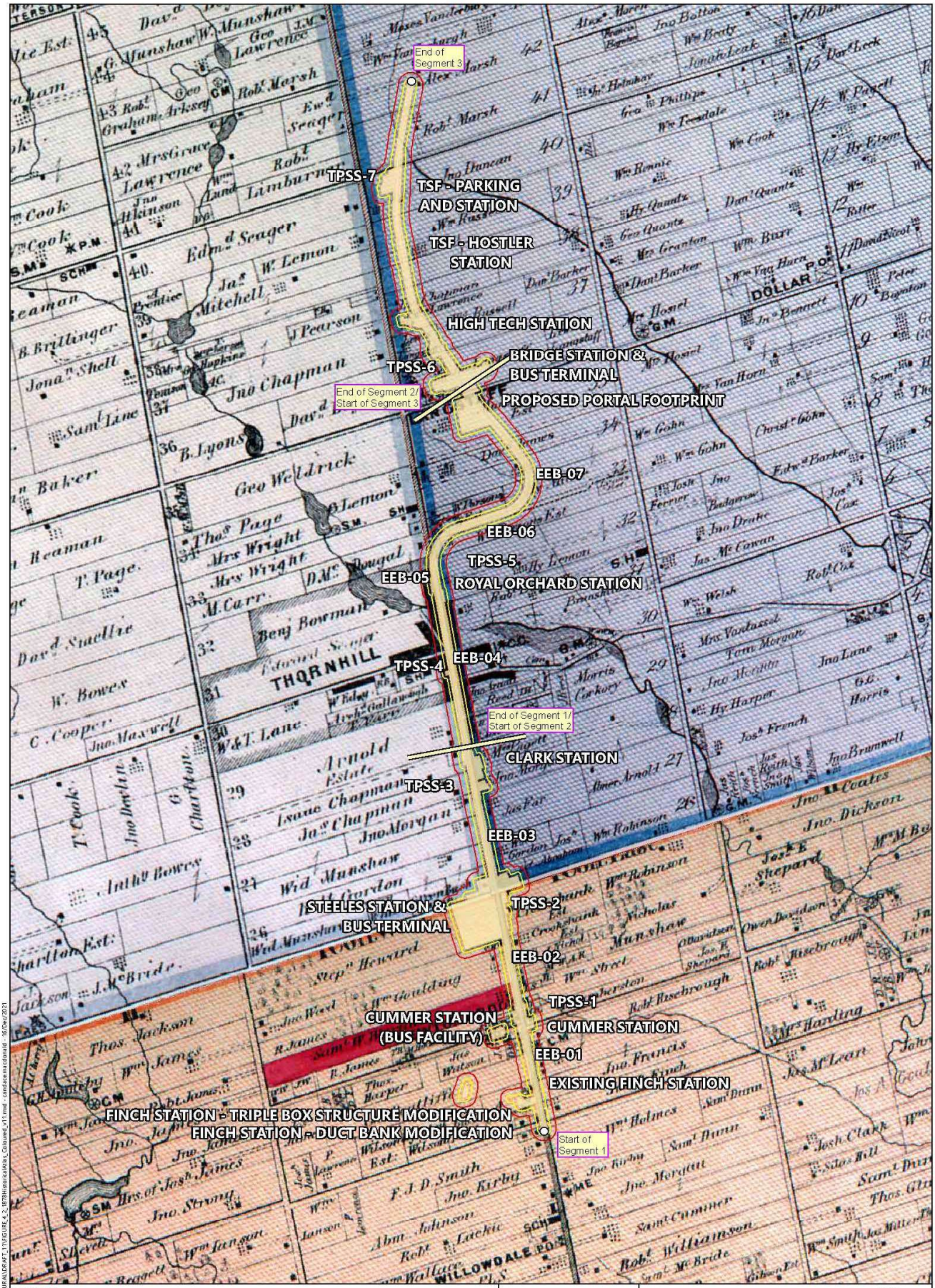
One

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

1860 Tremaine's Map of the County of York Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 4-1
SCALE: 1:30,000	DATE: Dec 2021

Document Path: D:\PROJECTS\OGTW2005_YNSS\GIS\MXD\CULTURAL\DRAFT_11\FIGURE_4_1_1860sMap_v11.mxd - candace.macdonald - 16/Dec/2021



LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Proposed Train Storage Facility
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

0 437.5 875 1,750 2,625 3,500 4,375 Metres

NOTES:

Datum: NAD83
Projection: UTM Zone 17N

N

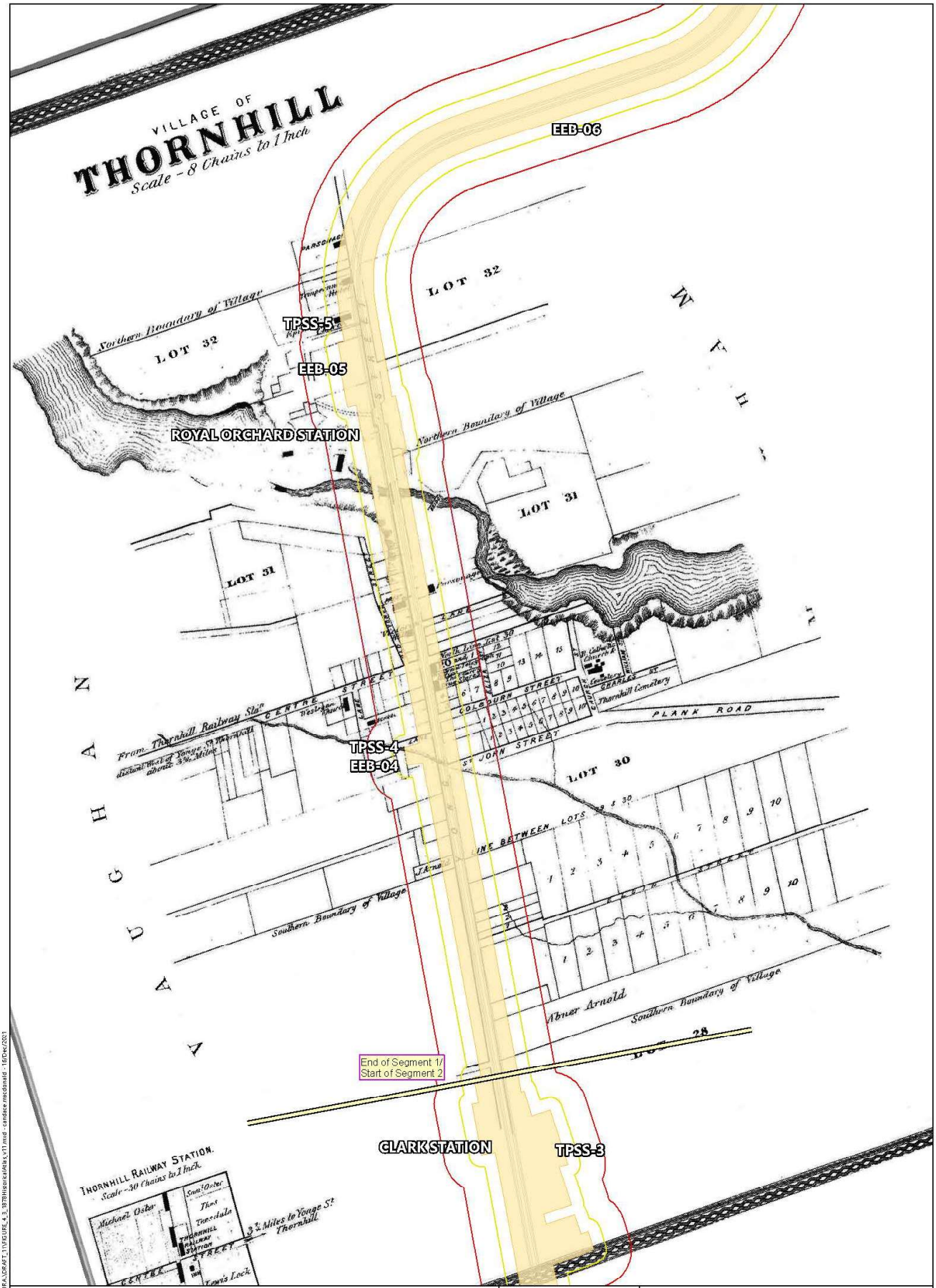
METROLINX

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

1878 Illustrated Historical Atlas Map of York County Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 4-2
SCALE: 1:30,000	DATE: Dec 2021

Document Path: D:\PROJECTS\OGTW2005_YNSR\GIS\MXD\CULTURAL\DRAFT_11\FIGURE_4_2_1878HistoricalAtlas_Coloured_v11.mxd - candacemacdonald - 16/Dec/2021



LEGEND

- Proposed Alignment
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

NOTES:

Datum: NAD83
Projection: UTM Zone 17N

0 100 200 400 600 800 1,000 Metres

N

METROLINX

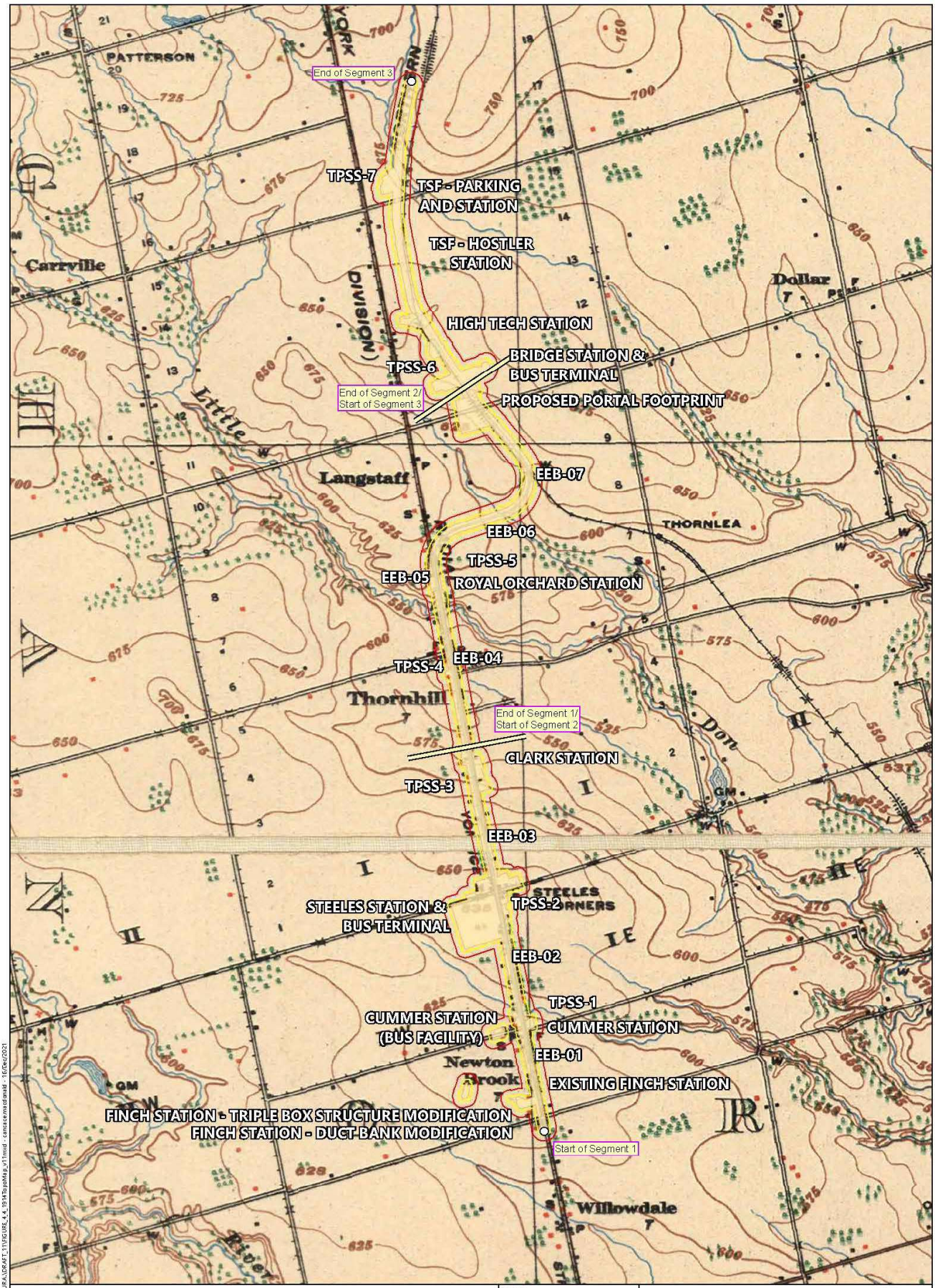
One

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

1878 Historical Atlas of the County of York: Village of Thornhill Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 4-3
SCALE: 1:7,000	DATE: Dec 2021

Document Path: D:\PROJECTS\OGTW2005_YNE\GIS\MXD\CULTURAL\DRAFT_1.1\FIGURE_4.3_1878HistoricalAtlas_v11.mxd - candace.mcdonald - 16/Dec/2021



LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Proposed Train Storage Facility
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

NOTES:

Datum: NAD83
Projection: UTM Zone 17N

0 437.5 875 1,750 2,625 3,500 4,375 Metres

N

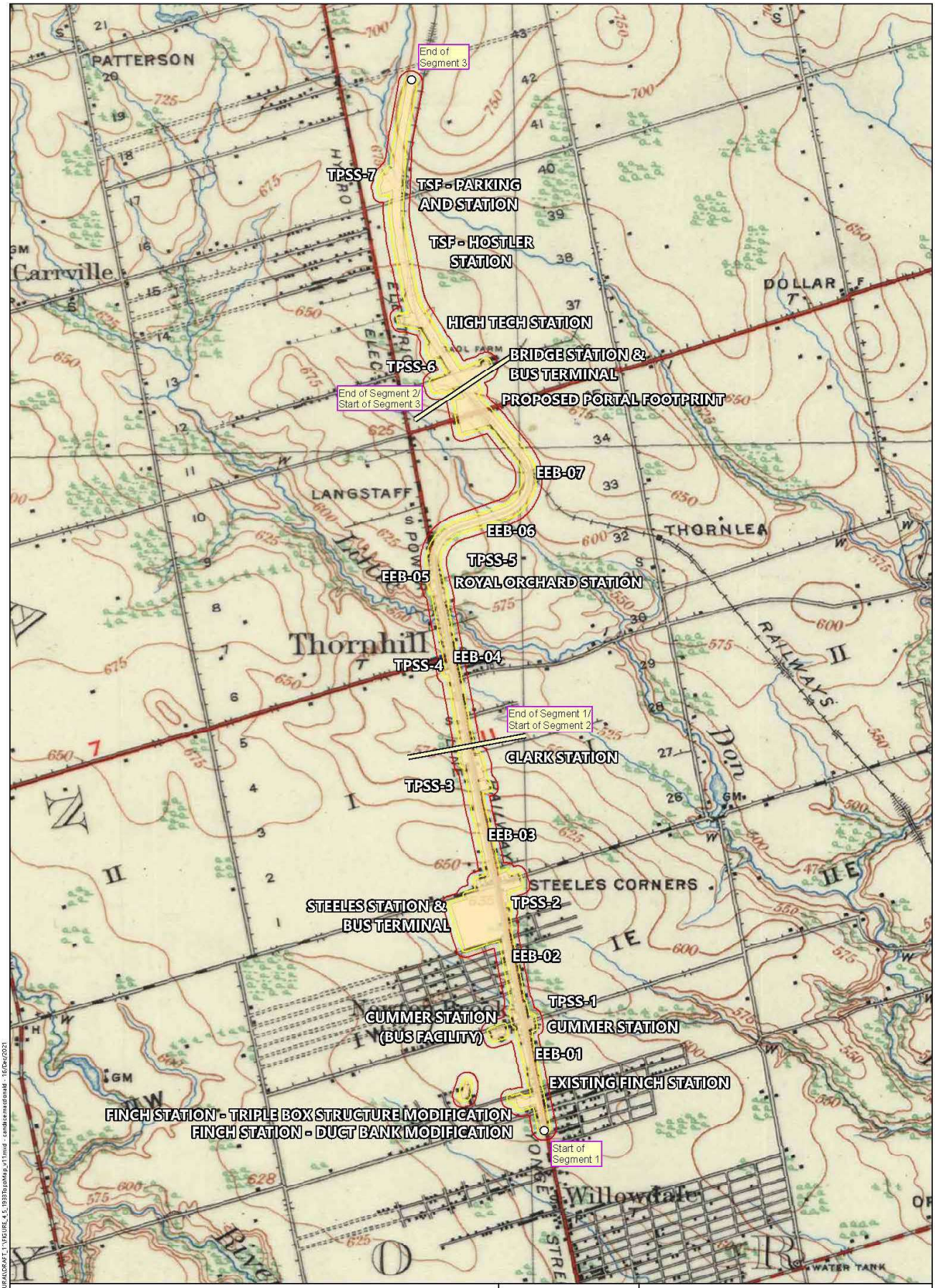
METROLINX

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

1914 Topographic Map of Ontario Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 4-4
SCALE: 1:30,000	DATE: Dec 2021

Document Path: D:\PROJECTS\OGTW2005_YNR\GIS\MXD\CULTURAL\DRAFT_1\FIGURE_4.4_1914TopoMap_v11mxd - camcake.mcdonald - 16/Dec/2021



LEGEND

- Study Area Start and End Point
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- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

NOTES:

Datum: NAD83
Projection: UTM Zone 17N

0 437.5 875 1,750 2,625 3,500 4,375 Metres

N

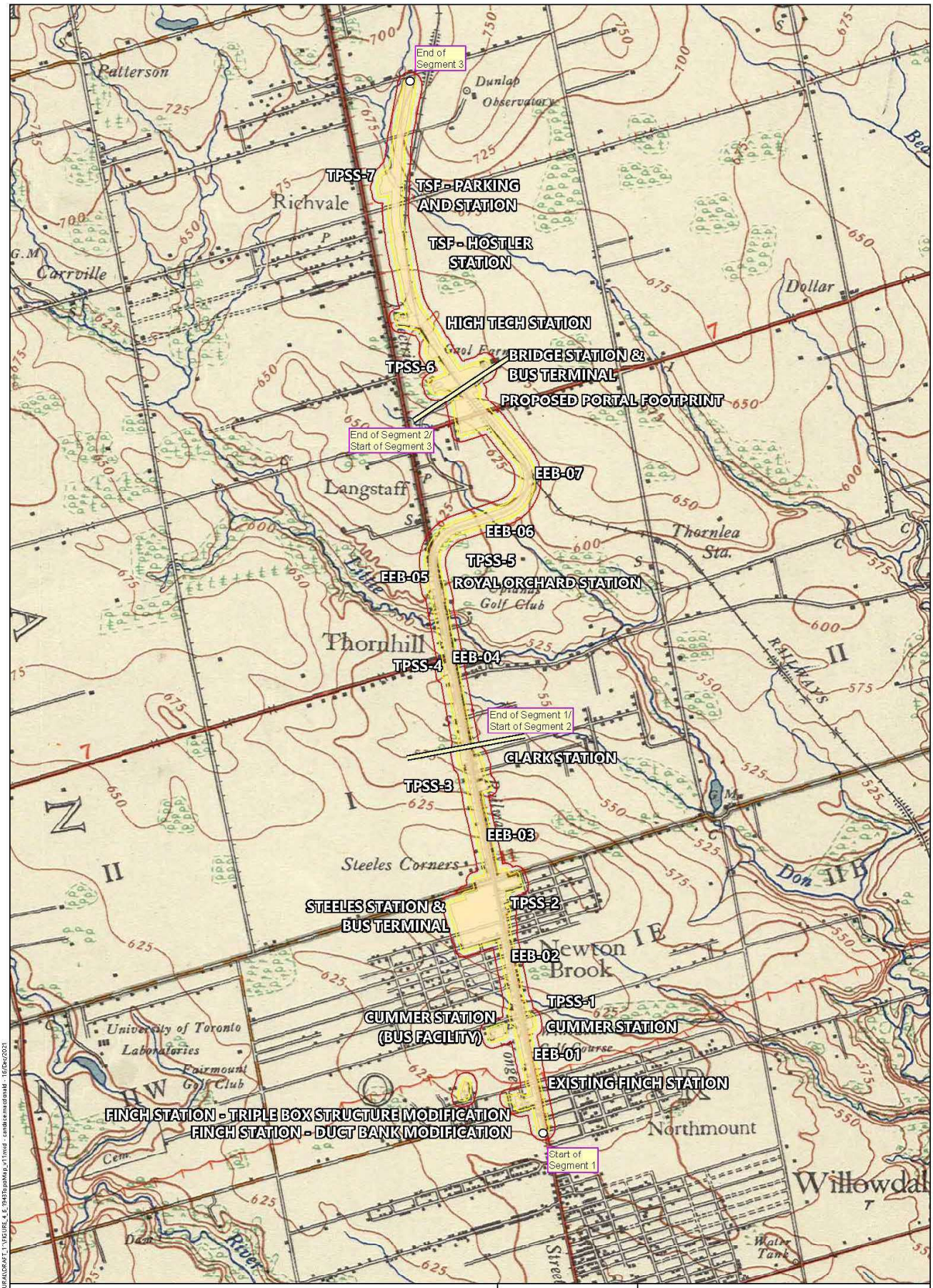
METROLINX

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

1933 Topographic Map of Ontario Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 4-5
SCALE: 1:30,000	DATE: Dec 2021

Document Path: D:\PROJECTS\OGTW2005_YNSE\GIS\MXD\CULTURAL\OFAFT_1-1\FIGURE_4-5_1933TopoMap_v11mxd - sandra.mcdonald - 16/Dec/2021



LEGEND

- Study Area Start and End Point
- Proposed Alignment
- Proposed Train Storage Facility
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone

NOTES:

Datum: NAD83
Projection: UTM Zone 17N

0 437.5 875 1,750 2,625 3,500 4,375 Metres

N

METROLINX

One

CULTURAL HERITAGE REPORT:
YONGE NORTH SUBWAY EXTENSION PROJECT

1943 Topographic Map of Ontario Showing the Location of the Study Area

PROJECT N°: OGTW2005	FIGURE: A 4-6
SCALE: 1:30,000	DATE: Dec 2021

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A 5.0 Existing Conditions

The following provides a detailed description of the cultural heritage existing conditions within the Study Area. The findings and existing conditions data have been organized into three (3) Study Area segments for reporting purposes. A full 'Inventory of Built Heritage Resources and Cultural Heritage Landscapes (the Inventory), which includes both protected and potential heritage properties is provided in **Section A 5.3**. Mapping of built heritage resources and cultural heritage landscapes in relation to the Study Area is provided in **Figure A 5-1 (A-H)**.

A 5.1 Information Gathering Results

Metrolinx submitted information requests to the City of Toronto, City of Markham, City of Vaughan, City of Richmond Hill, Ontario Heritage Trust, and the MHSTCI to gather information on known heritage properties within, and adjacent to, the Study Area. The limits of the Study Area as defined within the information gathering requests are Major Mackenzie Dr. to the north, Highway 7 to the south, Bayview Ave. to the east, and Bathurst St. to the west.

Regarding cultural heritage resources, the City of Toronto provided links to the City of Toronto's Heritage Register Map, Heritage Register, and dataset of Heritage Conservation Districts. These links provided up-to-date information on the locations of known built heritage resources and cultural heritage landscapes in the vicinity of the Study Area.

The City of Richmond Hill provided OneT+ with a link to the 2018 City of Richmond Hill's Heritage Register. The City of Richmond Hill indicated one additional property which has since been added to this list: 9839 Bathurst which is a provincial listed property. In addition, the City of Richmond Hill supplied a map displaying the location of 14 known heritage properties located in the vicinity of the Study Area.

The City of Vaughan provided OneT+ with the *Thornhill Vaughan Conservation District Plan* (2007) and the Thornhill Vaughan HCDs associated register list.

The City of Markham provided OneT+ with mapping pertaining to the Thornhill Heritage Conservation District and a list of eight (8) individually designated properties located within the HCD. In addition, Markham identified a list of 19 properties found within the Markham Register of Property of Cultural Heritage Value or Interest that have since been demolished.

To date, the MHSTCI is not aware of any provincial heritage properties located within or adjacent to the Study Area.

The Ontario Heritage Trust (OHT) provided OneT+ with links to the *Ontario Heritage Act* Register and the Ontario Heritage Plaque Guide. OHT also identified the West House located at 7780 Yonge Street as being protected by a Heritage Easement Agreement in favour of the OHT.

A 5.2 Field Review Results

A 5.2.1 Segment 1 – Finch Station to Clark Station

A field review of the Segment 1 (Finch Station to Clark Station) Study Area was completed on November 5 2020, December 11 2020, January 12 2021, and November 15 2021 to confirm the presence of protected heritage properties and identify potential built heritage resources and cultural heritage landscapes. This segment of the Study Area starts at the existing Finch Station and traverses northward to Clark Station along Yonge Street and is defined by roadways and residential/commercial development.

The south end of Segment 1 of the Study Area is comprised of the intersection of Yonge Street and Olive Avenue (Plate 1 to Plate 3). This section of Yonge Street is bordered by a mix of recent high-rise development and two storey commercial/mixed use properties that date to the mid-late 20th century. While originally planned in 1792, this section of Yonge Street does not retain the physical characteristics of a historical roadscape due to extensive updates, road widening, and recent infill development. The mix of recent high-rise development and mid-to-late 20th century mixed use development continues north along Yonge Street to Finch Avenue (Plate 4 and Plate 5). Mid-to-late 20th century commercial/mixed use properties in this area are highly altered and retain few of their original architectural details. One exception is the commercial block located at 5643-5647 Yonge Street, which largely retains its original architectural façade. Continuing north, the intersection of Bishop Avenue/Hendon Avenue and Yonge Street is defined by the Finch Subway Station and associated parking lots on the north side of the intersection (Plate 6 to Plate 8). A hydro corridor intersects with this section of the Study Area in a general east-west direction. Bishop Avenue is located on the east side of Yonge Street and is largely defined by recent high-rise mixed use development. Hendon Avenue is located on the west side of Yonge Street and includes recent high-rise development on the south side of the street and a mix of recent/mid-20th century residential properties on the north side of the street (Plate 9 and Plate 10). Along Hendon Avenue are two potential cultural heritage landscapes which were identified during field review, these include Hendon Park (Plate 11) and a residential streetscape of five (5) identical Victory houses at 40 to 48 Hendon Avenue (Plate 12). Talbot Road is located to the west of Hendon Avenue and contains mix of recent/mid-20th century residential properties of common design, as such no properties within the Study Area along Talbot Road were identified as having potential CHVI (Plate 13).

North of the Finch Subway Station, Yonge Street continues to be bordered by a mix of recent high-rise development and highly altered mid-to-late century commercial/mixed use development. One property, 5800 Yonge Street, is notable from a heritage perspective due to its unique modernist design and former use as head office for the former Hydro Electric Commission for the Township of North York. This property was nominated as a heritage property in July 2020, but no known formal heritage protection is in place to date (Branch 2020).

The intersection of Drewry Avenue and Yonge Street contains two potential heritage properties. These are the former Newtonbrook Store (5926 Yonge Street, listed in the City of Toronto Heritage Register) (Plate 14) and 5925 Yonge Street (previously identified as a potential heritage property by Unterman McPhail in 2009) (Plate 15). Unterman McPhail identified an additional potential heritage property at 5915 Yonge Street (southeast corner of Yonge Street and Drewry Avenue). The 2020/2021 fieldwork determined that this property has been demolished and the mid-century modern grocery store identified by Unterman McPhail in 2009 is no longer extant. Drewry Avenue is predominantly bordered by recent residential development but also includes some early-to-mid 20th century properties including 51 Drewry Avenue and 70 Drewry Avenue (Plate 16 to Plate 18).

The character of Yonge Street between Cummer Avenue/Drewry Avenue and Moore Park Avenue/Madawaska Avenue shifts. In this section of Segment 1 of the Study Area, Yonge Street is predominantly bordered by two-to-three storey commercial/mixed use buildings that date to the mid-to-late 20th century. These commercial/mixed-use blocks are highly altered and do not appear to have CHVI (Plate 30). One property of note is 6075 Yonge Street, a six storey Brutalist office building that is a representative example of this architectural style (Plate 19). This section of Yonge Street is broadly bordered by residential numerous residential streets that cross Yonge Street in a general east-west direction. This residential street pattern also continues on the east side of Yonge Street between Madawaska Avenue and Steeles Avenue. These streets are laid out in a grid pattern and contain a mix of recent and mid-20th century residential properties. The majority of these residential properties feature common 20th century architectural styles

such as new traditional, bungalows, cape code style houses, ranch style houses, and Victory housing (Plate 21 to Plate 36). Given the relatively recent construction dates of these residences and common design of the building stock, few of these properties were identified as having potential CHVI. Exceptions include 15 Patricia Avenue, which is a two and a half storey residence, that was constructed circa 1900. This property has an early build date for the area and features a unique mix of Dutch Colonial and Queen Anne style influences (Plate 20). Other residential properties that are representative examples of 20th century architectural styles with a relatively high degree of integrity include 12 Centre Avenue (Plate 27), 15 Athabaska Avenue (Plate 28), and 17 Athabaska Avenue (Plate 29).

The character of Yonge Street between Moore Park Avenue/Madawaska Avenue and Steeles Avenue includes low-rise commercial/mixed use properties on the east side of the street and a large shopping complex on the west side of the street. The majority of commercial properties in this section of the Study Area are either recent construction or highly altered mid-twentieth century buildings. The commercial block from 6313 to 6301 Yonge Street is relatively intact and reflects mid-twentieth century streetscape that formerly lined Yonge Street (Plate 31). One additional relatively commercial streetscape north of Steeles Avenue (7039-7071 Yonge Street) also reflects this period (Plate 32). The intersection of Steeles Avenue includes recent commercial development on all sides of the intersection (Plate 33 to Plate 36).

Between Steeles Avenue and Clark Avenue, the Study Area is bordered by recent high-rise development and commercial properties (Plate 41). To the southeast of the intersection of Yonge and Steeles are residential properties which are laid out in a grid like pattern and contain a mix of recent and mid-20th century residential properties. Of these properties two were identified as having potential CHVI, 20 Abitibi Avenue (Plate 37) and 39 Highland Park Boulevard (Plate 38).

Segment 1 of the Study Area contains one bridge, located at the intersection of the CN Tracks and Yonge Street (between Meadowview Avenue and Glen Cameron Road). This bridge has no known heritage protection. It appears to be a concrete slab bridge with steel beams/girders that was constructed in the early 1960s and was widened between 1977 and 1981. Based on the relatively recent construction date and common bridge type, this bridge was not identified as a potential heritage property.

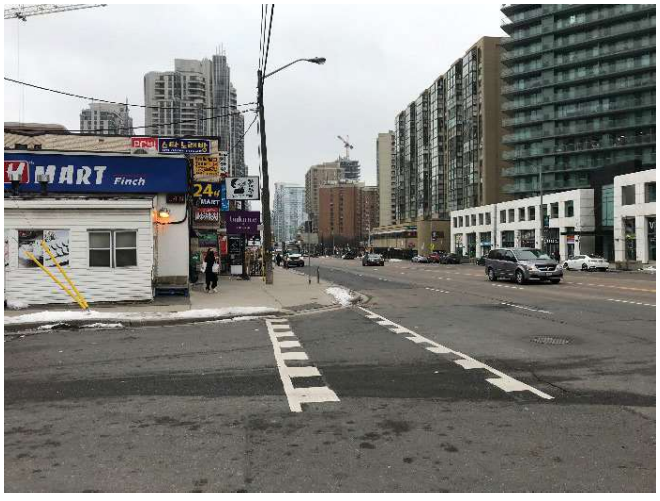


Plate 1: View of Yonge Street at Olive Avenue facing south

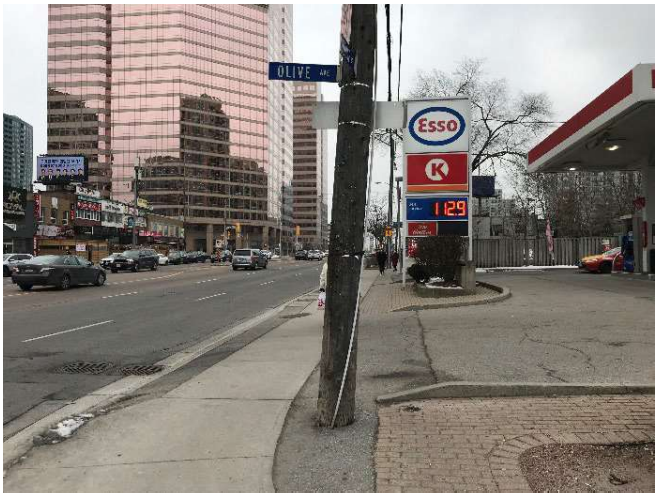


Plate 2: View of Yonge Street at Olive Ace facing north



Plate 3: View of Olive Avenue at Yonge Street facing northeast

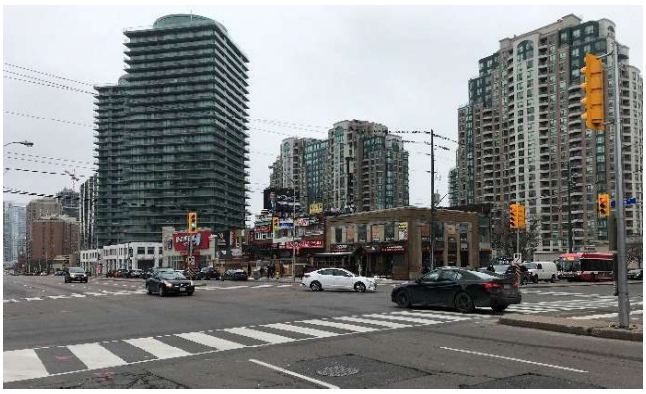


Plate 4: View of Yonge Street at Finch Avenue facing southwest

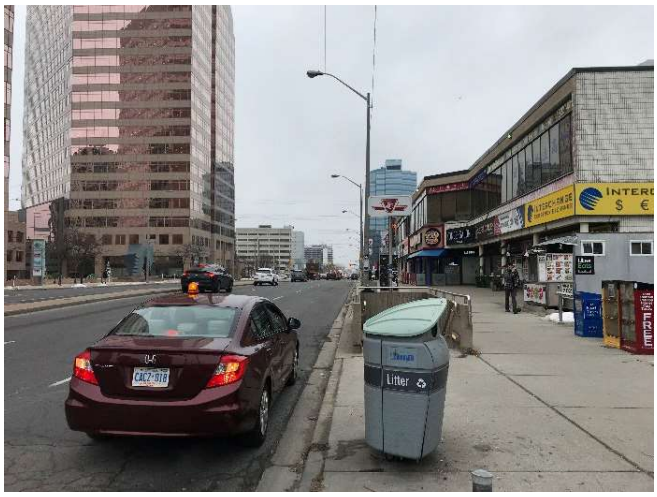


Plate 5: View of Yonge Street at Finch facing north



Plate 6: View of Yonge Street at Bishop Ave facing north

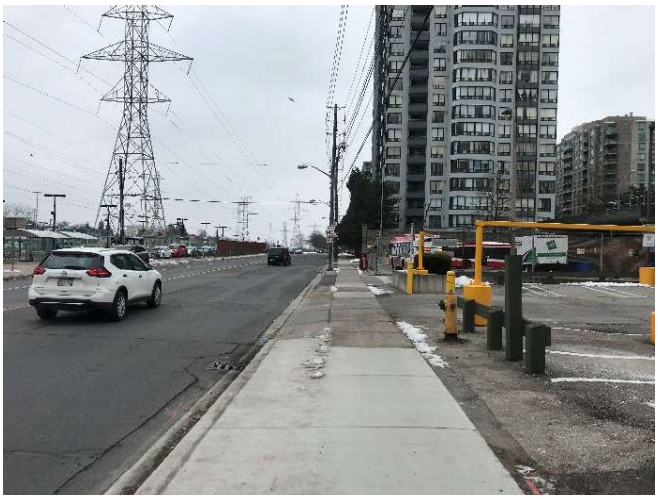


Plate 7: View of Bishop Avenue at Yonge Street facing east

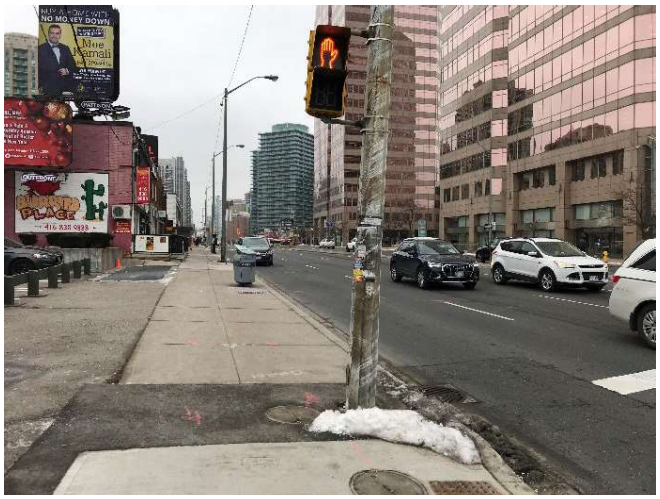


Plate 8: View of Yonge Street at Bishop facing south



Plate 9: View of Hendon Avenue at Greenview Avenue facing west



Plate 10: View of Hendon Avenue facing Yonge Street



Plate 11: View of Hendon Park facing northwest



Plate 12: View of 40-48 Hendon Avenue streetscape facing northwest



Plate 13: Talbot Road facing north



Plate 14: Front façade (east elevation) of 5926 Yonge Street (Newtonbrook Store)



Plate 15: Front façade (west elevation) of 5925 Yonge Street



Plate 16: View of Yonge Street from Drewry Avenue facing east



Plate 17: Front façade (north elevation) of 51 Drewry Avenue facing south



Plate 18: Drewry Avenue facing east



Plate 19: Front façade (west elevation) of 6075 Yonge Street



Plate 20: Front façade (north elevation) of 15 Patricia Avenue



Plate 21: East-northeast view of Connaught Avenue facing Yonge Street



Plate 22: View of Newton Drive facing east-northeast



Plate 23: West-southwest view of Ontonabee Avenue facing Yonge Street



Plate 24: West-southwest view of Athabaska facing Yonge Street



Plate 25: West-southwest view of Abitibi facing Yonge Street



Plate 26: West-southwest view of Nipigon facing Yonge Street



Plate 27: Front façade (south elevation) of 12 Centre Avenue



Plate 28: Front façade (north elevation) of 15 Athabaska Avenue



Plate 29: Front façade (north elevation) of 17 Athabaska Avenue



Plate 30: View of Yonge Street at Newton Drive facing south



Plate 31: View of 6301-6313 Yonge Street facing east



Plate 32: View of 7039-7071 Yonge Street facing southeast



Plate 33: View of Steels Avenue at Yonge Street facing west



Plate 34: View of Steeles Avenue at Yonge Street facing east



Plate 35: View of Yonge Street at Steeles facing south



Plate 36: View of Yonge Street at Steeles Avenue facing north



Plate 37: Front facade (south elevation) of 20 Abitibi Avenue



Plate 38: Front facade (south elevation) of 39 Highland Park Boulevard



Plate 39: Abitibi Avenue facing northeast



Plate 40: Nipigon Avenue facing southwest



Plate 41: North view of Yonge Street from Steeles Avenue

A 5.2.1.1 Summary of Built Heritage Resources and Cultural Heritage Landscapes in Segment 1

To date, a total of 13 potential or known built heritage resources and seven potential or known cultural heritage landscapes were identified in Segment 1 of the Study Area. A detailed description of these properties is provided in the Inventory (**Section A 5.3**, **Table A 5-1**). Detailed mapping of these properties in relation to the Study Area is provided in **Section A 5.3, Figure A 5-1 (A-H).**

A 5.2.2 Segment 2 – Clark Station to Portal/Launch Shaft

A field review of Segment 2 (Clark Station to Portal/Launch Shaft [Below Grade]) Study Area was completed on November 5 2020, December 11 2020, January 12 2021, June 4, 2021 and November 15, 2021 to confirm the presence of protected heritage properties and identify potential built heritage resources and cultural heritage landscapes. Segment 2 of the Study Area starts just beyond the limits of Clark Station and follows Yonge Street until Centre Street when the alignment curves eastward before crossing back over Yonge Street at Royal Orchard Boulevard. The Study Area then continues westward across residential lands to Thorny Brae Drive before curving north to follow the alignment of the existing railway in the vicinity of the Holy Cross Cemetery. From here, Segment 2 of the Study Area follows the railway alignment until Langstaff Road East, where Segment 2 ends and Segment 3 begins.

The south end of Segment 2 of the Study Area is defined by the intersection of Clark Avenue and Yonge Street. This section of Yonge Street generally bordered by a mix of recent commercial properties, mid-rise apartment buildings, and mixed-use properties. No potential heritage properties were identified along Yonge Street in the vicinity of Clark Avenue. The character of Yonge Street changes in the vicinity of Elgin Street. Elgin Street is roughly the south end of two Heritage Conservation Districts (HCDs): the Thornhill Markham HCD (City of Markham) and the Thornhill Vaughan HCD (City of Vaughan) (Plate 46 to Plate 48). These lands are designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Markham and Vaughan HCDs. The intersection of John Street and Yonge Street maintains the character originating at Elgin Street and is located within the two HCDs. It is at John Street that the Thornhill Markham HCD (City of Markham) extends eastward beyond the Yonge Streetscape to the intersection of John Street and Henderson Avenue. Located south of the intersection on the eastern and western sides the lands designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Markham and Vaughan HCDs intermixed with recent residential complexes and commercial properties (Plate 42 to Plate 45).

The Thornhill Markham HCD is designated under Part V of the *Ontario Heritage Act* under By-law 269-86. The HDC plan notes its wealth of heritage buildings, historic sites and landscapes and identifies many buildings, both residential and commercial, which date from the 1840s-1860s. The HCD plan also maintains that the district has a concentration of mid-19th century Georgian and Neo-Classical buildings as well as later houses dating from the 19th to 20th centuries representing various architectural styles such as: Regency, Victorian vernacular, Victorian Gothic, Queen Anne, Edwardian, Foursquare, Arts and Crafts, Craftsman Bungalow, and Cape Cod Cottage styles. The furthest extents of the Thornhill Markham HCD include the intersection of John Street and Yonge to the south, the intersection of John Street and Henderson Avenue to the west and the intersection of Yonge Street at Bay Thorn Drive to the north.

For the purposes of this assessment all properties located within the Thornhill Markham HCD that intersect with the Study Area have been categorized as either contributing or non-contributing. Contributing properties have been categorized as properties that are defined as either “Class A” (Buildings/Properties of major importance to the District), “Class B” (Buildings/Properties of importance to the District) within the HCD or properties listed within the Markham Heritage Registry. The non-contributing properties refer to buildings/properties that are primarily post 1939 which do not support the overall cultural heritage values, character and integrity of the HCD. Despite this, any proposed changes/alterations to properties located within the HCD, either contributing or non-contributing, must adhere to the polices and guidelines outlined in Part B of the Thornhill Markham HCD Plan. Field review has identified fifteen properties located within the Thornhill Vaughan HCD that intersect with the Study Area.

The Thornhill Vaughan HCD is designated under Part V of the *Ontario Heritage Act* under By-law 306-88. Similar, to the Thornhill Markham HCD plan, the Thornhill Vaughan HCD plan notes the presence of heritage buildings, historic sites and landscapes and identifies many buildings, both residential and commercial, which date from the 1830s-1850s. The

HCD plan also maintains that the district has houses dating from the 19th to 20th centuries representing various architectural styles such as: Victorian vernacular, Victorian Gothic, Queen Anne, Foursquare/Edwardian, Arts and Crafts, Craftsman Bungalow and Cape Cod Cottage styles. The furthest extents of the Thornhill Vaughan HCD include the intersection of Yonge and Elgin Street to the south, the intersection of Donna Mae Crescent and Centre Street to the west and Yonge and Bay Thorn Drive to the north.

Similar to the approach for the Thornhill Markham HCD, for the purposes of this assessment all properties located within the Thornhill Vaughan HCD that intersect with the Study Area have been categorized into either a non-contributing or contributing category. This characterization was based off of the information provided within the Thornhill Vaughan HCD Plan and includes properties listed on the City of Vaughan's Buildings of Architectural and Historic Value as well as properties built in the early 20thcentury as identified through background research. The non-contributing properties refer to buildings/properties that are primarily post 1954 which do not support the overall cultural heritage values, character and integrity of the HCD. Despite this, any proposed changes/alterations to the properties located within the HCD, either contributing or non-contributing, must adhere to the polices and guidelines outlined in Part B of the Thornhill Vaughan HCD Plan. Field review has identified 42 properties located within the Thornhill Markham HCD that intersect with the Study Area.

An additional six (6) properties with potential cultural heritage interest were identified during field review: 7509 Yonge Street, 7529 Yonge Street, 201 Bay Thorn Drive (Baythorn Public School), 110 Royal Orchard Boulevard (Royal Orchard Park), 141 Kirk Drive (St. Anthony Catholic School) and Holy Cross Cemetery. Located at 7509 Yonge Street is the York Farmers Market, constructed in 1953, which features a one storey commercial building and a mid-century modern sign (Plate 54). Located at 7529 Yonge Street is 'The Octagon' restaurant, which was originally built between 1965 and 1966 and later reconstructed, on the original building footprint, in 1992 following a fire. The Octagon restaurant is a one and a half storey building in New Traditional/Octagon style. While this property is less than 40 years of age, the unique design and high level of craftsmanship may confer design/physical value (Plate 55). Baythorn Public School and St. Anthony Catholic School were constructed between 1966-1967 and 1969-1970 respectively. Due to the fact that they are set within a large subdivision which was built at a similar time, both Baythorn Public School and St. Anthony Catholic School represents the cultural cohesion of the surrounding neighbourhood and offers potential contextual value (Plate 57-Plate 58). Royal Orchard Park crosses Royal Orchard Boulevard and contains a bridge, which crosses a small water course. The parks general context and ravine setting appears to have remained largely unchanged aside from the inclusion of circulation paths through the Baythorn neighbourhood community and over a watercourse (Plate 59).

Located at 211 Langstaff Road is Holy Cross Cemetery which officially opened in 1952 (Andiocese of Toronto 2021). The cemetery features two main entrances off of Yonge Street and Bayview Avenue. The two sides of the cemetery are split by the railway and a Pedestrian Tunnel which was likely constructed pre-1953 and situated within a cemetery offers a circulation pathway between the two sides of the cemetery (Plate 60-Plate 63). North of Holy Cross Cemetery to the end of Segment 2 is categorized by a light industrial sector.

Between Yonge Street along Bay Thorn Avenue/Thorny Brae Drive is categorized as by a commercial plaza and large subdivision built around the mid-twentieth century. The residential buildings located within the Bay Thorn Avenue/Thorny Brae Drive neighbourhood were found to be typical examples of mid-twentieth century buildings and therefore were found to not have CHVI (Plate 64-Plate 70).



Plate 42: View of John Street at Yonge facing southeast



Plate 43: View of Yonge Street at John facing west



Plate 44: View of Yonge Street at John Street facing north



Plate 45: View of Yonge Street at John Street facing south



Plate 46: Village of Thornhill Circa 1794 Sign located at Confederation Way, facing east

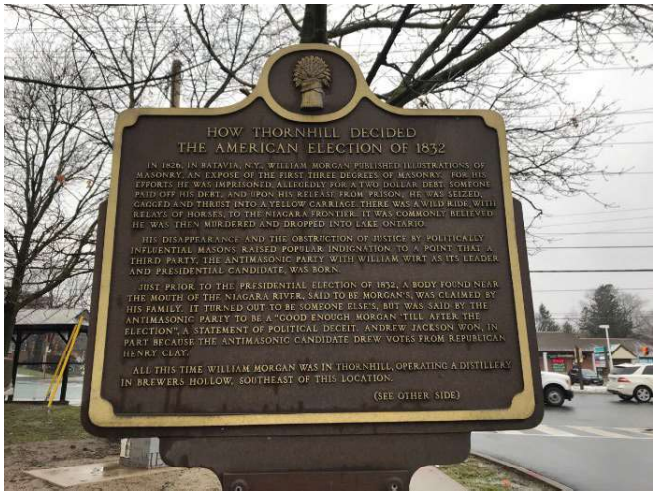


Plate 47: Plaque located at corner of John Street and Yonge Street



Plate 48: View of Yonge at John Street facing southwest



Plate 49:View of Colbourne Street facing east



Plate 50:View of Colbourne Street sidewalk marker at Yonge Street and Colbourne facing south

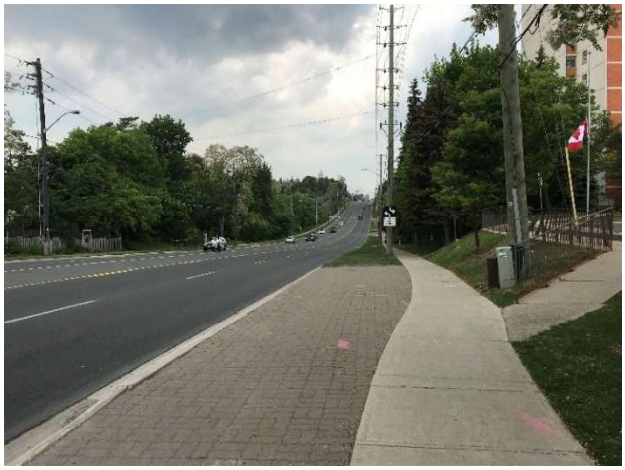


Plate 51: View of Yonge Street near Thornhill Summit Drive facing north



Plate 52: View of Yonge Street at Royal Orchard Boulevard facing south



Plate 53: View of Yonge Street at Royal Orchard Boulevard facing north



Plate 54: Front façade (west elevation) of the York Farmer's Market (7509 Yonge Street)



Plate 55: Southeast view of 'The Octagon' restaurant (7529 Yonge)



Plate 56: 180 Dudley Avenue facing West



Plate 57: Front Façade (south elevation) of Baythorn Public School



Plate 58: Front façade (east elevation) of St. Anthony's Catholic School



Plate 59: View of Royal Orchard Park facing east



Plate 60: Holy Cross Cemetery Yonge Street Entrance facing west



Plate 61: Holy Cross Cemetery facing northwest



Plate 62: View of Holy Cross Cemetery from Pedestrian Bridge facing southwest



Plate 63: View of Holy Cross Cemetery Pedestrian bridge facing northwest



Plate 64: View of commercial plaza at Yonge Street and Bay Thorn Drive facing northeast



Plate 65: View of commercial plaza at Yonge Street and Bay Thorn Drive facing northwest



Plate 66: West-southwest view of Donalbain Crescent



Plate 67: East-northeast view of Colonsay Drive



Plate 68: West-southwest view of Colonsay Road



Plate 69: Northwest view of Shieldmark Crescent



Plate 70: Northwest view of Kirk Drive

A 5.2.2.1 Summary of Built Heritage Resources and Cultural Heritage Landscapes in Segment 2

To date, a total of 48 potential or known built heritage resources and 17 potential or known cultural heritage landscapes were identified in Segment 2 of the Study Area. A detailed description of these properties is provided in the Inventory (**Section A 5.3**, **Table A 5-1**). Mapping of these properties in relation to the Study Area is provided in **Section A 5.3**, **Figure A 5-1 (A-H)**.

A 5.2.3 Segment 3 – Portal/Launch Shaft to Moonlight Lane

A field review of the Segment 3 (Portal/Launch Shaft to Moonlight Lane [At Grade]) Study Area was completed on November 5 2020, December 11 2020, and June 4, 2021 to confirm the presence of protected heritage properties and identify potential built heritage resources and cultural heritage landscapes. Segment 3 of the Study Area starts just beyond the limits of the proposed portal and launch shaft location, near the proposed Bridge Station, and traverses northward to Moonlight Lane which marks the northernmost Study Area limit. This segment, located within the City of Richmond Hill, also includes the proposed High Tech Station and proposed TSF.

Segment 3 of the Study Area is overwhelmingly defined by residential subdivisions, apartment buildings, and commercial properties that were constructed between 2000 and present day (Plate 71 to Plate 75). Two commercial properties, 115 16th Avenue and 125 16th Avenue, were noted that appeared to be over 40 years of age (Plate 76 and Plate 77). Research determined that they date between 1975 and 2002, respectively. These properties were not found to have potential CHVI due the relatively recent construction dates and common architectural style.

There are six (6) bridges located within Segment 3 of the Study Area. These are:

- Bridge Intersection at CN /GO Track and Hwy 407
    - No known heritage designations or protections
    - Constructed in 2008
    - Appears to be a common bridge type (concrete deck with steel beams/girders
- Bridge Intersection at CN/GO Track and Hwy 7
    - No known heritage designations or protections
    - Constructed between 1956 and 1975
    - Appears to be a common bridge type (concrete deck with steel beams/girders)
- Pedestrian Overpass Bridge and Towers at Richmond Hill Centre
    - Constructed in 2008
    - No known heritage designations or protections
    - Does not appear to be a common bridge type (covered walkway with metal bow arch truss)
- High Tech Road Overpass Structure (Plate 78)
    - Constructed in 1998
    - No known heritage designations or protections
    - Appears to be a common bridge type (concrete deck with concrete beams/girders, concrete caissons, concrete abutments)
- Bantry Ave Overpass Structure (Plate 79)
    - Constructed in 1999
    - No known heritage designations or protections
    - Appears to be a common bridge type (concrete deck with concrete caissons and abutments)

- 16th Avenue Bridge (Plate 80)
    - Constructed circa 1956 and possibly updated in the 1970s
    - No known heritage designations or protections
    - Appears to be a common bridge type (concrete deck with concrete caissons and abutments)
    - Appears to have been recently updated
    - Previously assessed and not identified as a BHR (ASI 2016)

All six bridges have recent construction dates and/or are common bridge types. Accordingly, these bridges were not identified as potential heritage resources and are not considered further in this study. Despite this general areas' recent construction, a single heritage property was identified at the northernmost point of Segment 3. This property includes the David Dunlap Observatory Lands located at 23 Hillsview Drive. This property is designated under Part IV of the *Ontario Heritage Act* under By-law 100-09. No other heritage properties were identified within the Segment 3 Study Area



Plate 71: South-southeast view of King William Crescent, looking towards Bantry Avenue



Plate 72: North view along Berwick Crescent



Plate 73: South-southeast view of the pedestrian path connecting Revelstoke Crescent and King William Crescent



Plate 74: View of Northern Heights facing 16th Avenue



Plate 75: View of Red Maple Parkette facing east



Plate 76: View of 115 16th Avenue Facing south



Plate 77: View of 125 16th Avenue facing southeast



Plate 78: View of High Tech bridge facing southeast



Plate 79: View of Bantry Avenue Bridge facing southwest



Plate 80: View of 16th Avenue Bridge facing northeast

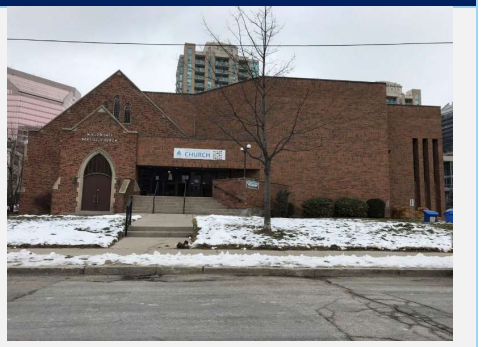
Summary of Built Heritage Resources and Cultural Heritage Landscapes in Segment 3

To date, there are no potential or known built heritage resources located within Segment 3 of the Study Area however, there is one known cultural heritage landscape. A detailed description of this property is provided in the Inventory (**Section A 5.3, Table A 5-1**). Mapping of these properties in relation to the Study Area is provided in **Section A 5.3**, **Figure A 5-1 (A-H)**.

A 5.3 Inventory of Built Heritage Resources and Cultural Heritage Landscapes

Following the completion of the background research and field review, an Inventory of Built Heritage Resources and Cultural Heritage Landscapes within, and adjacent to, the Study Area was compiled. The Inventory is provided in **Table A 5-1**. The locations of identified built heritage resources and cultural heritage landscapes in relation to the Study Area are depicted in **Section A 5.3**, **Figure A 5-1 (A-H)**.

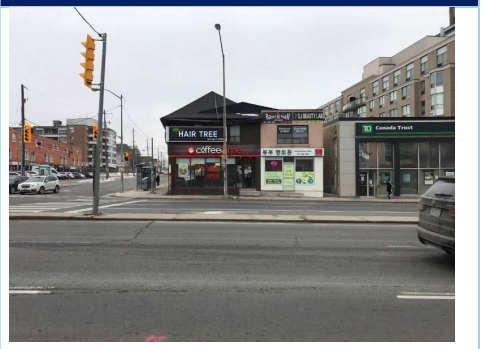
Table A 5-1: Inventory of Potential and Known Built Heritage Resources and Cultural Heritage Landscapes

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR1	-BHR -Willowdale Baptist Church	15 Olive Avenue, North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property contains a single-storey church that was originally constructed in 1924 (Willowdale Baptist Church 2020). An addition was built on the existence structure between 1987 and 1989, an image of the original structure taken by Ted Chimside, in 1958, is located in the column to the right. The church is a one and a half storey structure with an irregular-shaped plan and a gable flat roof with plain soffit eaves covered in decorative brickwork. The front façade (north elevation) features three multi-light pointed windows with plain lug sills and a decorative brick voussoir. The front façade features a segmental door from the original structure with a pointed multi-light shaped transom with decorative concrete trim. An offset multi-glass panelled entryway is located within the addition with ground floor steps with open and closed railing leading to the entryway. Above the pointed arched doorway is a sign for 'Willowdale Baptist Church'. Exterior Elements • Decorative brickwork • Three multi-light pointed windows with plain lug sills with decorative brick voussoir • Segmental door from the original structure with a pointed multi-light shaped transom with decorative stucco trim• Summary This property contains a one and a half-storey structure with Ontario Vernacular architectural influences that was constructed in 1924. This property may have design/physical, historical/associative, and/or contextual value	  Reference: Historic Public Library 2020

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR2	-CHL -Commercial Block/streetscape	5643-5647 Yonge Street, North York	- Identified during field review	This commercial block was identified during field review. The description below is based on field observations. Property Description Constructed between 1943 and 1953 with additions added between 1977 and 1981 this streetscape includes five (5) two storey commercial properties featuring rectangular plans and flat roofs with a mix of decorative brick and stucco exteriors. The streetscape features various sash style windows and glass panel entryways. The property at 5643 Yonge Street features unique single pane semi-elliptical windows with decorative voussoirs trim (Upper) and a glass panel canted entrance Exterior Elements • Commercial streetscape including 5643-5647 Yonge Street •Brick building exteriors • 2 storey massing and pedestrian scale • Buildings extend to property line/sidewalk • Sash Windows • Semi-Elliptical Windows with voussoirs trim (5643 Yonge Street) • Canted Entrance (5643 Yonge Street) Summary This commercial streetscape contains five (5) two-storey commercial buildings within a streetscape constructed between 1943 and 1953 with additions added between 1977 and 1981. As one of the few mid to late 20th commercial streetscapes within in this section of Yonge Street, this commercial streetscape may have design/physical, historical/associative, and/or contextual value.	
S1-CHR3	-BHR -Former Civic Building	5800 Yonge Street, North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property contains a two-storey civic building, formally owned by the Hydro Electric company for use as their head office building within the township of North York. The building includes modernist architectural influences that was originally constructed in 1963 and designed by architect Harry B Kohl. The front façade (west elevation) features an L-Shaped plan with a flat roof and a rounded dome with glass panelling. Landscape elements include mature trees and ground floor steps with open railings. This property has been nominated as a heritage property, but no formal protection is currently in place (Branch 2020) Exterior Elements • Modernist architectural style • L shaped plan with a flat roof • Round dome Summary	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				This property contains two storey former civic building constructed in 1962. As one of the few late 20th modernist buildings within in this section of Yonge Street, this property may have design/physical, historical/associative, and/or contextual value.	
S1-CHR4	-BHR -Residence	51 Drewy Avenue, North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property includes a Bungalow style residence that was constructed between 1922 and 1930. The residence is a simple two storey structure with a rectangular-shaped plan with a gable roof and projecting eaves. The building is clad in red brick while the front and rear additions are clad in clapboard-style siding. The front façade (north elevation) features an offset wood door with six horizontal panels and a shaped transom, with multiple lights. The front façade features two segmentally arched windows on the second storey. The right (east) window is sash one-over-one and the right (west) window is sash two-over-one. Both appear to retain the original wood window frames and have plain trims and a plain lug sill. The east and west facades feature a shed-style dormer with clapboard siding with three one over one single hung windows. Landscape elements on the property include grass, the concrete sidewalk and ground floor steps with no railing. Exterior Elements • Bungalow style residence • Rectangular plan • Gable roof • Shed style additions • Shed style dormers with three one-over-one windows • Offset left (east) interior chimney • Clapboard stye and red rick cladding • Offset wood door with six horizontal panels with a shaped multiple light transom • One (1) one over one single hung window with plain trim and plain lug sills (Upper) • One (1) two over one single hung window with plain trim and plain lug sills (Upper) Summary This property contains a one-and-a-half storey Bungalow style residence that was constructed between 1922 and 1930. This property may have historical/associative and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR5	-CHL -School (Drewry Secondary School)	70 Drewry Avenue, North York	-Identified during field review	This property was identified during field review the property description is provided below is based on field observations. <u>Property Description</u> Drewry Secondary School, located 70 Drewry Avenue, is a multi-level two-storey school/civic building that was constructed between 1959 and 1961. Both the lower two storey section on the left (west) and taller two storey section on the right(east) are clad in decorative brickwork with a flat roof. The school is currently in operation. The front façade (north elevation) of the taller section features numerous nine over nine-double hung windows with plain lug sills on the upper and lower levels of the original structure. There is no visible doorway on this section of the structure. The front façade (north elevation) of the two storey lower section includes a covered offset doorway with three glass panelled doors and a multi light transom and numerous triple light double hung widows set in a continuous trim and sill of unknown material. The building includes an addition located on the left (west) of the original structure and is clad in brick with an offset glass paneled gable style entry way, a flat roof and three one-over-one single hung window. Landscape elements on the property include grass, concrete sidewalks and pathways, and a parking lot, rear circulation pathways, a large playing fields, a basketball court and two auxiliary buildings associated with the school. These auxiliary buildings were constructed between 1989 and 1991. <u>Exterior Elements</u> • Flat roof • Brick cladding • Numerous single and double hung windows with plain lug sills and trim • An addition with as offset glass paneled gable style entry way • Landscape elements on the property include grass, concrete sidewalks and pathways, and a parking lot, rear circulation pathways, a large playing fields, a basketball court and two auxiliary buildings <u>Summary</u> This property contains a two-storey school that was constructed between 1959 and 1961. This property may have design/physical, historical/associative, and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR6	-BHR -Commercial Building	5926 Yonge Street, North York	- Listed on the City of Toronto Municipal Heritage Register	This property is listed on the City of Toronto Municipal Heritage Register. The property description provided below is based on field observations. <u>Property Description</u> This property contains a one and a half-storey commercial property with a rectangular shaped plan, hipped roof, and stucco siding. While the date of the original building is not known, a historic plaque notes the presence of the structure, formally a general store known as the CC. Charleton's store, with the previous frame structure replaced in 1907. The front façade (west elevation) features two one over two sash windows (upper) with plain lug sills and numerous single pane glass windows and glass door front entrances with ground floor steps with no railings. This building is highly altered but has known historical associations. <u>Exterior Elements</u> • Rectangular plan and hipped roof • Two one over two sash windows (upper) with plain lug sills • Numerous single pane glass windows (lower) • Glass entranceway <u>Summary</u> This property contains a two-storey structure that was re-constructed in 1907. The construction date of the previous frame building, formally a general store known as the CC. Charleton's store, is unknown. This property may have historical/associative and/or contextual value.	
S1-CHR7	-BHR -Commercial Building	5925 Yonge Street North York	-Previously identified as potential built heritage resource by Unterman McPhail Associates (2009)	This property was previously identified as a potential built heritage resource by Unterman McPhail Associates (2009). The following property description provided below is based on field observations. <u>Property Description</u> This property contains a two-storey commercial property with a rectangular shaped plan and flat roof. The building was constructed between 1957 and 1960. The front façade (east elevation) features multiple single pane glass doors and windows (lower) and five double pane horizonal sliding windows. The building is covered in painted brick. <u>Exterior Elements</u> • Brick cladding • Five double pane horizonal sliding windows Summary This property contains a two-storey commercial building that was constructed between 1957 and 1960. This property may have design/physical, historical/associative, and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR8	-BHR -Residence	15 Patricia Avenue, North York	Listed on the City of Toronto Heritage Register	This property is listed on the City of Toronto Heritage Register. The property description provided below is based on field observations. <u>Property Description</u> This property contains a two-and-a-half storey residence built circa 1900. The residence features a mix of Dutch Colonial and Queen Anne style influences. The building has an L-shaped plan with a gambrel roof with projecting eaves clad in asphalt shingles. The front façade (north elevation) has an offset (right) four light wooden doorway in a semi enclosed two storey porch that is supported by four piers and two balusters and has a second storey bay window. The second storey bay window (located above the entrance) has five (5) four-over-four sash-windows and a skirt roof. A two-storey bay window with a pyramidal roof is located on the northeast corner of the building. The two-storey bay window has multiple sash one-over-one windows, a skirt roof between the first and second storeys, and is topped with a pyramidal roof. <u>Exterior Elements</u> • Dutch Colonial and Queen Anne style influences • L-shaped plan • Gambrel roof • Projecting eaves • Asphalt shingles • Clapboard style siding • Wood door with four lights • Two storey front porch with semi-enclosed first storey, bay window on the second storey, and pyramidal roof. The porch is porch supported by four piers and two balusters • Two-storey bay window on the northeast corner of the building with multiple one-over-one sash windows, a skirt roof between the first and second storeys, and a pyramidal roof <u>Summary</u> This property contains a two and a half storey residence that was built circa 1900 residence and features Dutch Colonial and Queen Anne style influences. This property may have architectural/design value and contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR9	-BHR -Commercial Building	6075 Yonge Street, North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property contains a five-storey industrial building with Brutalist architectural influences that dates between 1968 and 1970. The building has a rectangular plan and a flat roof. The front façade (east elevation) features a recessed entrance, offset glass panelled door, and four levels of fixed single pane windows. The building is clad in concrete. Exterior Elements • Brutalist architecture influences • Recessed entrance • Offset glass panelled door • Fixed single pane windows • Concrete exterior Summary This property contains a five-storey commercial building with Brutalist architectural influences that was constructed between 1968 and 1970. Few buildings along this section of Yonge Street are constructed in this architectural style. Accordingly, this property may have design/physical, and/or contextual value.	
S1-CHR10	-BHR -Residence	12 Centre Avenue, North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property includes a Bungalow style residence that was constructed between 1943 and 1950. The residence is a simple one storey structure with a rectangular-shaped plan with a steeply pitched gable roof and projecting eaves. The front façade (north elevation) is clad in a mix of painted brick and stucco with one sash one over two window and one (1) sash one over one window with plain lug sill trims. Landscape elements on the property include grass, a concrete sidewalk/walkway with steps and ground floor steps with open railings. In addition, the front lawn features an original fence with wooden balustrades and iron rod balusters. A second structure resides on the property with a rectangular footprint and gable roof with pronounced projecting eaves clad in clapboard siding Exterior Elements • Bungalow style residence • Rectangular plan • Steeply pitched gable roof • Brick and stucco siding • One (1) sash one over two window • One (1) sash one over one window • Original wood/concrete/iron fence along front property line Summary	

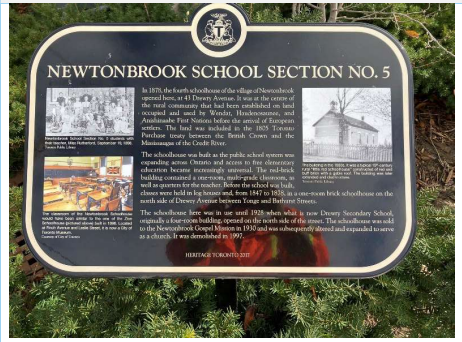
CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				This property contains a one-storey Bungalow style house constructed between 1943 and 1950. This residence is representative of this particular time period and may have significant design/physical, historical/associative, and/or contextual value.	
S1-CHR11	-CHL -Civic Building	155 Hilda Avenue, North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. <u>Property Description</u> The Newtonbrook Secondary Public School is a two-storey Mid-Century Modern school that was constructed between 1963 and 1965. The front façade (east elevation) features numerous multi-light floor to ceiling clad in brick laid out in a stretcher bond pattern. The façade features a recessed covered entryway with multi-light doorways and a decorative mosaic mural above the entryway. The property includes large playing fields, a track, baseball diamond, and auxiliary buildings associated with the school. The school is known for its athletics program, which is supported by the large field and pool on the property. Historically, Newtonbrook Secondary School was opened by then Prime Minister Lester B. Pearson in 1965. Rob Ford, former Mayor of Toronto, coached Newtonbrook Secondary School's football program until 2001. <u>Exterior Elements</u> • Flat roof • Low and flat two-storey massing • Brick cladding including brick pilasters and a keystone archway • Multi light floor to ceiling window • Decorative mosaic mural • Landscape elements including track, baseball diamond, and playing fields • Sports related property elements including, but not limited to, the pool and track field <u>Summary</u> This property contains a two-storey Mid-Century Modern school that was constructed between 1963 and 1965. This property may have design/physical, historical/associative, and/or contextual value.	 

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR12	-BHR -Residence	15 Athabaska, North York	-Identified during field review	This property was identified during the field review. The property description provided below is based on field observations. <u>Property Description</u> This property includes a Bungalow style residence that was constructed between 1950 and 1953. The residence is a simple one storey structure with a rectangular-shaped plan with a steeply pitched gable roof with projecting eaves and a gable style dormer with clapboard siding. The front facade (south elevation) is clad in red brick and clapboard siding with two single pane windows with plain lug sill trims and a single Victorian style hanging lantern. The front entryway includes a door with a multi-light shaped transom and decorative trim and a glass panelled screen door. Landscape elements on the property include grass, a concrete sidewalk/walkway and ground floor steps with an open railing. <u>Exterior Elements</u> • Bungalow style residence • Rectangular plan • Steeply pitched cross-gable roof • Red brick cladding • Gable style dormer with clapboard siding • Two (2) single pane windows with plain lug sill trims • Victorian style hanging lantern <u>Summary</u> This property contains a one-storey Bungalow style house constructed between 1950 and 1953. This residence is representative of this particular time period and may have significant design/physical, historical/associative, and/or contextual value.	
S1-CHR13	-BHR -Residence	17 Athabaska North York	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. <u>Property Description</u> This property includes a Victory style residence that was constructed between 1950 and 1953. The residence is a simple one storey structure with a rectangular-shaped plan with a steeply pitched gable roof with projecting eaves. The front facade (south elevation) is clad in buff brick with one square bay window with clapboard siding and a single over one sash window both with plain lug sill trims. The front entryway includes a door with plain lug sill trim and a glass panelled screen door. Landscape elements on the property include grass, a concrete sidewalk/walkway and ground floor steps with no railing. <u>Exterior Elements</u> • Victory style residence • Rectangular plan • Steeply pitched cross-gable roof • Buff brick cladding <u>Summary</u>	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				This property contains a one-storey Victory style house constructed between 1950 and 1953. This residence is representative of this particular time period and may have significant design/physical, historical/associative, and/or contextual value.	
S1-CHR14	-CHL -Commercial Block	6301-6313 Yonge Street, North York	-Identified during field review	This streetscape was identified during field review. The property description provided below is based on field observations. Description Constructed between 1950 and 1953, with additions added between 1964 and 1966, this streetscape includes two (2) two storey commercial properties featuring rectangular plans and flat roofs with a mix of decorative brick and stucco exteriors. The streetscape features various sash style windows and glass panel entryways with a mix of plain/molded trims/lugsills. The property at 6301 Yonge Street features a mix of single pane and one over two sash semi-elliptical windows with plain lug sills (Upper) and a canted entrance with board and batten siding Exterior Elements • Cohesive row of commercial buildings with similar scale/massing, architectural style, and construction date • Buildings extend to the sidewalk/public realm • Canted Entrance with board and batten siding (6301 Yonge Street) Summary This property contains five (5) two-storey commercial buildings within a streetscape constructed between 1950 and 1953 with additions added between 1964 and 1966. As one of the few late 20th commercial streetscapes within in this section of Yonge Street, these properties may have contextual value when considered as a group.	
S1-CHR15	-CHL -Commercial Streetscape	7039-7071 Yonge Street, Thornhill, Markham	-Identified during field review	This streetscape was identified during field review. The property description provided below is based on field observations. Description Constructed between 1947 and 1953, this streetscape includes a mix of seven (7) one and two storey commercial properties featuring rectangular plans and flat roofs with a mix of brick and stucco exteriors. The streetscape features various sash style windows and various glass panel style entryways. The property at 7057 Yonge Street features a brick arched entryway and front window with brick voussoirs trim. Exterior Elements • Cohesive row of commercial buildings with similar scale/massing, architectural style, and construction date • Buildings extend to the sidewalk/public realm • Brick arched entryway and front window with brick voussoirs trim (7057 Yonge Street) Summary This commercial streetscape was constructed between 1947 and 1953. As one of the few mid 20th commercial streetscapes within in this section of Yonge Street, these properties may have contextual value when considered as a group.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR16	-CHL -Residential Streetscape	40-48 Hendon Avenue, North York	-Identified During Field Review	This residential streetscape was identified during field review. The description provided below is based on field observations. Property Description Constructed between 1947 and 1953 this residential streetscape contains five (5) identical one and a half storey Victory style structures. The residences all feature a rectangular plan with steeply pitched gable roofs and flush eaves and exterior chimneys. The front facades (south elevation) are clad in stucco with quoins and include one two casement and one three casement window with moulded trims and slip sills. The front entryways feature a centered doorway with decorative entablatures trim bordered by engaged pilasters and a ground floor, open railing. A fence line, which separates the streetscape from Hendon Park, borders the properties on the east, west and north sides of the properties. Exterior Elements • Five identical Victory style residence • Rectangular plan • Steeply pitched cross-gable roof • Stucco siding and quoins • Exterior chimney • Decorative window and entryway trim Summary This streetscape contains five (5) identical one and a half storey Victory style structures constructed between 1947-1953. This property may have design/physical, historical/associative, and/or contextual value	
S1-CHR17	-CHL -Public/Municipal Park	50 Hendon Ave (Hendon Park), North York	-Identified During Field Review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property features a 3.5-hectare park and includes a one storey main building with an irregular shaped plan that was built in 1965. A secondary structure with a gable roof is located within the property. Landscape elements on the property include two ball diamonds, bike trails/circulation routes, stylized lamp posts, a drinking fountain, four outdoor tennis courts, a parking lot, splash pad, and playground (City of Toronto 2021). Hendon Park is encased by black iron fencing and features two entry points with identical stone pilasters with iron panels inscribed with 'Hendon Park'. Landscape Elements • 3.5 hectare park • Mature trees • Bike trails/circulation routes • Stylized lamp posts • Black iron fencing • Two entry points with identical stone pilasters with iron panels inscribed with 'Hendon Park'	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				Summary This property contains a 3.5 hectare park that was established in 1965. This park may have contextual value for the surrounding community.	
S1-CHR18	-BHR -Residence	20 Abitibi Avenue, North York	-Identified During Field Review	This property was identified during field review. The property description provided below is based on field observations. Property Description This property features a one and a half storey Bungalow style residence built between 1953-1956. The residence features a rectangular shaped plan with a hipped gambrel roof and projecting returned eaves clad in a mix of painted rusticated concrete blocks (lower level) and vertical planks (upper level) and an exterior chimney. The front façade (southern elevation) features one (1) two casement window, one (1) three casement window with side lights and one (1) sliding window all with plain lug sills and trims. The upper window features wooden fence style shutters. The offset entryway (right) features a shaped multi-light transom with a glass panelled screen door located within an open wood porch with a ground floor, open railing. Exterior Elements • One storey Bungalow style residence • Rectangular Plan • Hipped Gambrel Roof • Painted rusticated concrete blocks (lower level) and vertical planks (upper level) Summary This property contains a one and a half-storey structure with Bungalow style architectural influences that was constructed between 1953-1956. This property may have design/physical, historical/associative, and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S1-CHR19	-BHR -Residence	39 Highland Park Boulevard, Thornhill, Markham	-Identified During Field Review	This property was identified during field review. The property description provided below is based on field observations. <u>Property Description</u> This property features a one and a half storey Bungalow style residence built between 1950-1953. The structure features an L-shaped shaped plan with a cross gable roof and projecting eaves clad in clapboard siding. The front façade (southern elevation) features one (1) one over two sash window and one (1) three casement window with side lights all with plain lug sills and trims. The front façade features two entryways the first feature three lights and the second featuring a multi light transom both with glass panelled screen doors. The entryways are accessible by a wooden porch with ground floor steps and an open railing. <u>Exterior Elements</u> • One storey Bungalow style residence • L-shaped Plan • Cross gable roof • Clapboard siding <u>Summary</u> This property contains a one and a half-storey structure with Bungalow architectural influences that was constructed between 1950-1953. This property may have design/physical, historical/associative, and/or contextual value.	
S1-CHR20	-BHR -Historical Plaque	Plaque located at 43 Drewry Avenue, North York	-Identified During Field Review	This plaque was erected by Heritage Toronto in 2017. The contents illustrate the history of the fourth schoolhouse within the Village of Newtonbrook, located at 43 Drewry Avenue and the students within Newtonbrook School Section No. 5. The contents are transcribed below. <u>Plaque Content</u> *"**Newtonbrook School Section No. 5*** *In 1878, the fourth schoolhouse of the Village of Newtonbrook opened here, at 43 Drewry Avenue. It was at the centre o the rural community that had been established on land occupied and used by Wendat, Haudenosaunee, and Anishinaabe First Nations before the arrival of European settlers. The land was included in the 1805 Toronto Purchase treaty between the British Crown and the Mississauga's of the Credit River.* *The schoolhouse was built as the public school system was expanding across Ontario and access to free elementary education became increasingly universal. The red-brick building contained a one-room, multi-grade classroom, as well as quarters for the teacher. Before the school was built, classes were held in log houses and from 1847 to 1878, in a one room brick schoolhouse on the north side of Drewry Avenue between Yonge and Bathurst Streets.* *The schoolhouse here was in use until 1928 when what is now Drewry Secondary School, originally a four-room building, opened on the north side of the street. The*	

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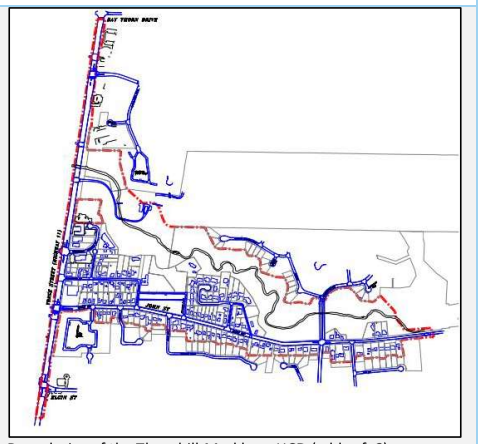
				schoolhouse was sold to the Newtonbrook Gospel Mission in 1930 and was subsequently altered and expanded to serve as a church. It was demolished in 1997." Also found on the plaque are three photographs, the first depicts the students of Newtonbrook School Section No. 5 dated September 19, 1898 with their teacher Miss Rutherford. The second, depicting the interior of the Zion Schoolhouse located at Finch Avenue and Leslie Street offered as a comparative example and lastly a photograph of the structure from the 1930s. <u>Summary</u> This property contains a historic plaque detailing the history of the property and as such may have historical/associative value.	
S2-CHR1	-CHL -Heritage Conservation District	Thornhill, Markham Ontario	Designated under Part V of the *Ontario Heritage Act* as the Thornhill-Markham HCD	The Thornhill-Markham HCD is designated under Part V of the *Ontario Heritage Act* under By-law 269-86. A full copy of the designation By-law can be found online. The 'Statement of Heritage Value' and 'Description of Heritage Attributes' are contained in Section 2.0 of the HCD Plan and are provided below. <u>Statement of Heritage Value</u> The Thornhill-Markham Heritage Conservation District is a distinct community in the City of Markham, characterized by a wealth of heritage buildings, historic sites, and landscapes. Although none of Thornhill's mills or the earliest houses have survived, a wealth of buildings, both residential and commercial, dating from the 1840s, '50s, and '60s remain – largely intact. The concentration of mid-19th century Georgian and Neo-Classical buildings in the historic village core is remarkable and constitutes the original basis of the village's heritage character. Other houses dating from the late 19th century through the early 20th century represent many of the styles developed during this prolific decades. Regency, Victorian vernacular, Victorian Gothic, Queen Anne, Edwardian, Foursquare, Arts and Crafts, and Craftsman Bungalow styles are all represented in the District. Many of the mid-20th century houses, including the Department of Veteran Affairs (DVA) housing, were built in the Cape Cod Cottage style, which shares the New England Georgian model with the old village houses of a century before, and many more recent houses have made an effort to reflect the heritage styles in the village. The ongoing development of Thornhill has maintained the scale and character of the older parts of the village, with a variety of lot sizes and siting, mostly modest-sized buildings, mature and rich planting and landscaping, a rural or modified-rural road profile, and a proliferation of white wooden picket fencing. This character is strongly	 Boundaries of the Thornhill-Markham HCD (add ref: 6)

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				maintained in most of the village. Although the mills and their ponds are long gone, the valleys are preserved in a mostly natural state as parkland with significant amounts of woodland. The preservation of the valleys respects and honours the mill-town origins of Thornhill. The quality of heritage resources in the District is indicated by the number of properties designated under Part IV of the *Ontario Heritage Act*, and the large number of buildings carrying "A" and "B" grades in the District Inventory. There are numerous properties with architectural and historical significance located in this HCD that together communicate the CHVI of this area.	

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S2-CHR2	-CHL -Heritage Conservation District	Thornhill, Vaughan Ontario	Designated under Part V of the *Ontario Heritage Act* as the Thornhill Vaughan HCD	The Thornhill Vaughan HCD is designated under Part V of the *Ontario Heritage Act* under By-law 306-88. A full copy of the designation By-law can be found online. The 'Statement of Heritage Value' and 'Description of Heritage Attributes' as presented in Section 2.5 of the HCD Plan are provided below: <u>Statement of Heritage Value</u> The Vaughan Thornhill Heritage Conservation District is a distinct community in the City of Vaughan, characterized by a wealth of heritage buildings, historic sites, and landscapes. Although none of Thornhill's mills or the earliest houses have survived, a wealth of buildings, both residential and commercial, dating from the 1830s, 40s, '50s remain – largely intact. These constitute the original bases of the village's heritage character. The continuing development of Thornhill saw new buildings erected decade by decade. Houses dating from the mid-19th century through the early 20th century represent many of the styles developed during those prolific decades. Victorian vernacular, Victorian Gothic, Queen Anne, Foursquare/Edwardian, Arts and Crafts, and Craftsman Bungalow styles are all represented in the District. Many of the mid-20th century houses, including the Department of Veteran Affairs (DVA) housing, were built in the Cape Cod Cottage style, which shares the New England Georgian model with the old village houses of a century before, and many of the most recent houses have made an effort to reflect the heritage styles in the village. The ongoing development of Thornhill has maintained the scale and character of the older parts of the village, with a variety of lot sizes and sitings, mostly modest-sized buildings, mature and rich planting and landscaping, and a rural or modified-rural road profile in many places. This character is strongly maintained in most of the village. Although the mills and their ponds are long gone, the river valley remains unbuilt, as woodland and grass (the golf course), and serves as a reminder of the mill-town origins of Thornhill. The quality of the heritage resources in the District is indicated by the number of properties carried on municipal, provincial and national inventories, as listed above on page 8 [of the HCD Plan].	

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S2-CHR3	-CHL -Market	7509 Yonge Street, Thornhill, Markham	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. <u>Property Description</u> Constructed in 1953, the York Farmers Marker features a one storey commercial building. The building features a rectangular plan, a flat roof, clad in stucco and a mural to the left with numerous two-over-two sash windows with plain lug sills. The front façade (east elevation) features an enclosed porch and a cross gable roof with glass doors and multi-light windows. Historically, the building operated as a farmer's market and also offered a space for the community events. Landscape elements on the property include a parking lot and a 'York Farmers Market' in Mid-Century Modern style. <u>Exterior Elements</u> • One storey market building • Flat roof • Stucco exterior • Mural • Two-over-two sash windows • Plain Lug Sills • Enclosed porch • Cross gable roof • Glass doors and multi light windows • 'York Farmers Market' Mid-Century Modern sign • Seasonal use of outdoor space to sell market wares <u>Summary</u> This property contains a one-storey commercial building with Ontario Vernacular architectural influences that was constructed in 1953. As one of the few late 20th commercial buildings within in this section of Yonge Street, this property may have design/physical, historical/associative, and/or contextual value.	 
S2-CHR4	-BHR -School (Thornhill Public School)	7554 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. At the time of the writing an individual inventory sheet for this property was not available. The property description provided below is based on field observations. <u>Property Description</u> Thornhill Public School, located at the corner of Arnold Avenue and Yonge Street, is a two-storey administrative building with Edwardian influences with a flat roof that is currently in operation. The front façade (west elevation) features numerous two-double hung windows and plain lug sills with decorative brick pilasters on the upper level. The front façade (west elevation) includes a centered multi light recessed doorway with a multi light transom with a brick keystone archway trimmed in brick voussoirs and dichromatic springer stones. Historically, the Thornhill schoolhouse building was located on Lot 30, Concession 1, Vaughan Township in 1847. In 1917 the Thornhill School Board purchased 1 and a 1/2 acres of land on the west side of Yonge St. opposite Elgin Avenue (present location) and planned to build a four-room brick school. The current school was opened in	

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				1923. Planned additions for the school occurred in 1953 and in the early 1990s (The Society for the Preservation of Historic Thornhill 2021a). Exterior Elements • Edwardian architectural style • Two storey scale • Flat roof • Decorative brickwork including brick pilasters and a keystone archway • Three bands of drip stones between the first and second storeys • Symmetrical, well-proportioned design • Multi light two-double hung windows and west facing entrance door • Plain lug sills Summary This property contains a two-storey school with Edwardian style influences that was opened in 1923. As one of the few examples of an early 20th century school along Yonge Street, this property may have design/physical, historical/associative, and/or contextual value.	
S2-CHR5	-BHR -Commercial Building	7529 Yonge Street, Thornhill, Markham	-Identified during field review	This property was identified during field review. The property description provided below is based on field observations. Property Description Originally built between 1965 and 1966, and reconstructed in 1992 following a fire, 'The Octagon' restaurant is a one and a half storey building in Octagon style with an irregular plan clad in polychrome red brick with matching quoins. The building features a truncated roof with decorative bargeboard trim and wooden baluster railings and five-gable style dormers clad in stucco with a decorative brick trims with decorative bargeboard trim and stained-glass windows. The lower-level building features numerous single light octagonal windows with voussoirs trim and Victorian style armed lanterns. An exterior stone chimney with a centered clock and decorative brickwork is located on the western elevation. The east elevation has a square tower and a Porte cochere with bargeboard trim and a truncated roof supported by a mix of columns and engaged columns with Doric capitals; both the tower and Porte cochere have wooden baluster railings on the roof. Landscape elements on the property include a parking lot, young trees located the at the front of the building, grass and pathways to the front entrance. Historically, The Octagon was called the Copper Kettle. In 1974 the current owners purchased the building and re-named it 'The Octagon' in reference to the unique shape of the building. Following the 1992 fire, which destroyed the original structure, the owners looked to design with what they described as a building featuring exotic woods and unique artifacts in an effort to create an elegant jewel box setting (The Octagon 2021). While this property is less than 40 years of age, the unique design and high level of craftsmanship may confer design/physical value. Exterior Elements • Octagonal architectural style and plan • Truncated roof with baluster railings • Bargeboard trim	

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				• Decorative polychrome brickwork • Porte cochere with bargeboard trim and a truncated roof • Doric style columns and engaged Doric columns • Exterior tower • Gable style dormers • Exterior stone chimney <u>Summary</u> This property contains a one and a half storey commercial building with unique architectural influences originally built between 1965 and 1966 and re-constructed in 1992 using the same footprint and design. While the current structure is less than 40 years old it was later rebuilt on the original building footprint which supports the character of the area and displays a high degree of craftsmanship and artistic merit and as such this property may have design/physical, historical/associative, and/or contextual value.	
S2-CHR6	-BHR -Residence	7616 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. At the time of the writing individual inventory sheets were not available. Property description is provided below based on field observations. <u>Property Description</u> This property contains a Victorian style residence that was constructed between 1878 and 1914. The residence is a simple two storey structure with an L-Shaped plan and offset cross gable roof with projecting eaves clad in buff brick (upper and lower) laid out in a stretcher bond pattern with dichromatic brick quoins and wood shingles on the upper level. The front façade (east elevation) includes a centered doorway with a flat transom, with multiple segmental lights and a covered veranda with a skirt-roof. The veranda half wall features half-circle cut outs with a flat arch and voussoirs trim, square columns in buff brick laid out in a stretcher bond pattern capped in stone and a bay window with a mansard roof. The façade features a mix of two over two segmental windows featuring dichromatic segmental voussoirs brickwork, dual wooden shutters, and plain lug sills (upper and lower) and paired three over one sash windows (upper) set in a continuous sill. The front gable features a projecting eaves with bargeboard trim with quatrefoil pattern outs and a fleur de lis at the apex. Landscape elements on the property include a mature tree on the east side of the house, grass, pathways to the front entrance, a flower garden and a sign for Mill Street & Co. <u>Exterior Elements Include:</u> • Residence with Gothic Revival style influences • L-shaped plan • Cross gable roof • Projecting eaves • Buff brick laid out in a stretcher bond pattern (upper and lower levels) • Dichromatic brick quoins • Wood shingles (upper level) • First storey bay window • Windows with dichromatic segmental voussoirs brickwork and plain lug sills (upper and lower levels)	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• Windows with paired three over one sash windows set in a continuous sill • Centered doorway with a flat transom and multiple segmental lights • Covered veranda with a skirt-roof • Half wall featuring half-circle cut outs with a flat arch and voussoirs trim capped in stone • Bargeboard <u>Summary</u> This property contains a two storey Victorian style residence that was constructed between 1878 and 1914 and as such this property may have design/physical, historical/associative, and/or contextual value.	
S2-CHR7	-BHR -Former Residence	7626 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. At the time of writing an HCD inventory sheet for this property was not available. Property description is provided below based on field observations. <u>Property Description</u> This property contains a two-and-a-half storey Victorian style residence that was built between 1878 and 1914. The building features an original structure and a rear addition with an irregular plan and a multi cross-gable roof with projecting eaves clad in red polychrome bricks laid out in a stretcher bond pattern with dichromatic brick quoins. The front façade (east elevation) includes a double-gable and a centered gable style dormer with a segmental attic window with dichromatic segmental voussoirs brickwork, plain lug sills and wooden shutters. The house features one over one two segmental windows featuring dichromatic segmental voussoirs brickwork and plain lug sills. The first storey has two bay windows and an open porch supported by wood baluster columns with flat roofs. Above the porch is a centered single French door (second level) with a flat transom and plain trim. The lower level features a centered semi-elliptical front entrance with a double glass panels and a single light shaped transom and side lights with moulded panels on the on the door and sides beneath the middle rail. Landscape elements on the property include mature trees at the front of the house, a front lawn, a bench, and a brick walkway with steps leading to the house and a sign for CBT psychology. <u>Exterior Elements</u> • Victorian style • Irregular plan • Brick laid out in a stretcher bond pattern (Upper and Lower Levels) • Dichromatic brick quoins • Double gable roof • Gable style dormer with a segmental attic window with dichromatic segmental voussoirs brickwork, plain lug sills and wooden shutters • Projecting eaves • Two bay windows • Numerous windows with dichromatic segmental voussoirs brickwork and plain lug sills (upper and lower levels) • Covered veranda • Above the porch is a centered single French door (second level) with a flat transom and plain trim	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• Lower level features a centered semi-elliptical front entrance with a double glass panels and a single light shaped transom and side lights with moulded panels on the on the door and sides beneath the middle rail Summary This property contains a two-and-a-half storey Victorian style former residence that was constructed between 1878 and 1914 and as such this property may have design/physical, historical/associative, and/or contextual value.	
S2-CHR8	-BHR -Former Residence	7636 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. At the time of the writing an HCD inventory sheet for this property was not available. Property description is provided below based on field observations. Property Description This property contains a Victorian style residence that was constructed between 1878 and 1914. The residence is a simple two storey structure with an L-Shaped plan and offset cross gable roof with projecting eaves with clapboard-style siding. The front façade (east elevation) includes a centered doorway with moulded panels with a flat transom (multiple lights), sides (multiple lights), and moulded panels beneath the middle rail. The front façade includes a covered veranda with a low hipped roof and Doric capital columns. The front façade features two over two sash windows featuring wooden shutters, and plain lug sills (upper and lower) and an additional two-over-two sash window (lower) with plain lug sills and wooden shutters located on the lower level (east elevation). The front gable features a projecting eaves with decorative bargeboard trim. Landscape elements on the property include a mature tree on the south side of the house, grass, brick pathways/steps to the front entrance, a flower garden, and a sign for the Thornhill Corporate Centre. Exterior Elements • Victorian style • L-shaped plan • Cross gable roof • Projecting eaves • Clapboard style siding • Centered multi light doorway with moulded panels with a flat transom • Covered veranda with a low hipped roof and Doric capital columns. • Four (4) two over two sash windows featuring wooden shutters, and plain lug sills (upper and lower storeys) • One (1) two-over-two sash window (lower storey) with plain lug sills and wooden shutters located on the lower level • Bargeboard trim Summary This property contains a two storey Victorian style former residence that was constructed between 1878 and 1914. This property may have design/physical, historical/associative, and/or contextual value.	

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S2-CHR9	-BHR -Former Residence	7666 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. At the time of the writing an HCD inventory sheet for this property was not available. Property description is provided below based on field observations. <u>Property Description</u> This property contains a two-and-a-half storey residence with Victorian style influences that was built between 1878 and 1914. The building has a rectangular plan and a cross-gable roof with projecting eaves. The front façade (east elevation) includes a centered two light attic window with lintel. The second storey includes two centered one-over-one sash windows with wooden shutters with plain lug sills. The first storey has an offset left (east) one-over-one sash window with wooden shutters with plain lug sills and lintels and an offset left (south) front entrance. The front façade also has covered veranda with a shed-style roof and an additional recessed entrance to left (south). The building is clad in red bricks laid out in a stretcher bond pattern and has an offset right (north) interior chimney. Landscape elements on the property include a mature tree at the front of the house, a front lawn, a driveway, a nearby parking lot and a rear new traditional commercial plaza. <u>Exterior Elements</u> • Victorian style influences • Rectangular plan • Cross gable roof • Projecting eaves • Centered two light attic window with lintel • Two centered one-over-one sash windows with wooden shutters with plain lug sills and lintels (second storey) • Covered veranda with a shed-style roof and an additional recessed entrance to left supported by piers • Clad in red bricks laid out in a stretcher bond pattern • Offset right (north) interior chimney <u>Summary</u> This property contains a two-and-a-half storey residence with Victorian style influences that was constructed between 1878 and 1914 and as such this property may have design/physical, historical/associative, and/or contextual value.	

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S2-CHR10	-BHR -Residence	14 John Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD. At the time of the writing an HCD inventory sheet was not available. Property description is provided below based on field observations. Property Description This property contains a two-storey residence with Ontario Vernacular style influences constructed between 1878 and 1914. The building has an L-Shaped plan with a cross-gable roof clad in clapboard. The front façade (north elevation) has a centered molded wood panel door with a gable-dormer style porch supported by two Doric capital columns, and three (3) sash two-over-two windows with moulded lintels and plain lug sills and wooden shutters. A small offset (left) plaque reads 'Morris Casey 1834 Laborer', additional writing is visible but was not legible during field observations. The building is clad in board and batten siding. Exterior Elements • Ontario Vernacular style • L-shaped plan • Cross gable roof • Projecting eaves • Clapboard siding • Centered molded wood panel door • Gable-dormer style porch supported by two Doric capital columns • Three (3) sash two-over-two windows with moulded lintels and plain lug sills and wooden shutters • Plaque that reads 'Morris Casey 1834 Laborer' Summary This property contains a two-storey residence that was constructed between 1878 and 1914 and as such this property may have design/physical, historical/associative, and/or contextual value.	
S2-CHR11	-BHR -Commercial Building	7562 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing property within the HCD. The description provided below is based on field observations. Property Description This is a single-storey commercial structure was constructed between 1995 and 1998. The structure has a flat roof and primarily glass front façade. Exterior Elements • Late twentieth-century commercial building • Large parking lot • Primarily glass front facade • Flat roof Summary This property contains a non-contributing single-storey late twentieth-century commercial building within the HCD. As such, this property is protected under *Part V*	

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				of the Ontario Heritage Act and must comply with the associated policies and guidelines.	
S2-CHR12	-BHR -Commercial Building	7582 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a multi-storey mixed use residential and commercial structure constructed between 1978 and 1988. The structure has a flat roof and red brick façade. The residential portion of the building features balconies with railings and glass patricians. The first storey commercial portion of the building has branded fabric eves. Exterior Elements • Mixed commercial and residential building • Balconies with railings and glass patricians • First floor commercial space with branded fabric eves • Large parking lot • Flat roof Summary This property contains a non-contributing multi-storey late twentieth-century mixed residential and commercial structure within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR13	-BHR -Commercial Building	7584 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a multi-storey mixed use residential and commercial structure constructed in 2013-2014. The structure has a flat roof and red brick façade. The residential portion of the building features inset balconies with railings and glass patricians. The first storey commercial portion is supported by concrete pillars and has a primarily glass facade. Exterior Elements • Mixed commercial and residential building • Balconies with railings and glass patricians • Commercial space with supported by concrete pillars • Primarily red brick façade • First floor primarily glass facade • Flat roof Summary This property contains a non-contributing multi-storey late twentieth-century mixed residential and commercial structure within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* under the HCD policies and guidelines.	

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S2-CHR14	-BHR -Commercial Building	7620 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a two-storey townhouse residential structure constructed between 1988 and 1995. The red brick structure has a hipped roof and features a tourelle, gabled dormers and corbel fenestration. It is surrounded by a brick courtyard lit by lanterns and trimmed with landscaping. The structure is sympathetic to but does not contribute to the HCD. Exterior Elements • Late twentieth-century residential townhouses • Two storey construction • Hipped roof with a tourelle and gabled dormers • Corbel fenestration • Brick courtyard • Lanterns and landscaping Summary This property contains a non-contributing two-storey late twentieth-century residential townhouses within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR15	-BHR -Commercial Building	7646 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a three-storey structure constructed between 1978 and 1988 of with Neoclassical influences fronting Yonge Street. The red brick structure has a hipped roof featuring two gabled dormers and a centre pediment. The front elevation is seven bays across, and features sash windows accented by sills, shutters and keystone lintels. The edges of the building are fenestrated with quoins and stairs lead to a stoop at the main entrance framed with a transom and pilasters. Exterior Elements • Late twentieth-century architecture with Neoclassical influences • Three storey construction • Hipped roof with gabled dormers and a centre pediment • Sash windows accented with sills, keystone lintels, and shutters • Quoins fenestration on the corners of the building • Front stoop • Front entrance framed with transom and pilasters Summary This property contains a non-contributing three-storey late twentieth-century structure with Neoclassical influences within the HCD. As such, this property is	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR16	-BHR -Historical Plaque	Plaque located at the corner of John and Yonge, Thornhill, Markham	Identified during field review	This plaque was erected *by The Society for the Preservation of Historic Thornhill on the Occasion of Thornhill's Bicentennial, 1994.* The contents illustrate the colourful early local history of Thornhill relating to the surrounding landscape and to a broader international history. The contents are transcribed bellow. Plaque Content ***"How Thornhill Decided the American Election of 1832*** *In 1826, in Batavia, N.Y. William Morgan Published Illustrations of Masonry, an expose of the first three degrees of masonry, for his efforts he was imprisoned, allegedly for a two-dollar debt. Someone paid off his debt, and upon his release from prison, he was seized, gagged, and thrust into a yellow carriage. There was a wild ride with relays of horses, to the Niagara Frontier. It was commonly believed he was then murdered and dropped into Lake Ontario.* *His disappearance and the obstruction of justice by politically influential masons raised popular indignation to a point that a third party, the antimasonic party with William Wirt as its leader and presidential candidate, was born.* *Just Prior to the presidential election of 1852, a body was found near the mouth of the Niagara River, said to be Morgan's was claimed by his family. It turned out to be someone else's but was said by the antomasonic party to be a good enough Morgan 'till after the election", a statement of political deceit. Andrew Jackson won, in part because the antimasonic candidate drew votes from Republican Henry Clay.* *All this time William Morgan was in Thornhill, operating a distillery in Brewers Hollow, southeast of this location."* ***Milburn Tavern*** *Milburn Tavern, built in 1829 west of Yonge Street at John (formerly Milburn Rd) was a meeting place for the local rebels of 1837. As a result of the owner, Joseph Milburn, a Quaker, was arrested and banished to Van Diemen's Land in Australia in 1837 until his pardon by Queen Victoria in 1843.* *A Tavern and Inn under various names such as the White Horse Tavern, Lemon's Inn and Queen's existed at this location until 1905. It was at Lemon's Inn on Friday, June 2, 1848, at 10:00 am that the trustees of the bankrupt estate of Thornhill's most prominent citizen, Benjamin Thorne, held an auction of his smaller possessions – horses and colts, sleighs, wagons, hogs, and ox cart. He was a wealthy owner of a number of mills who was financially ruined by the repeal of the corn laws in England in 1846. One month later, Thorne, aged 54, went to a rocky knoll behind his home (near Thornhill Country Club), and shot himself. He left behind a wife and eight children.* ***Brewers Hollow***	

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				A tributary of the Don that ran southeast of tis location, currently under John Street, was known as Brewers Hollow because of the existence of at least two breweries and a distillery in this area from 1820 to 1880. *Breweries were located close to water, near grist mills, from which the "Tailings" and damaged grain were used in the brewer's mash.* *Erected by the Society for the Preservation of historic Thornhill on the Occasion of Thornhill's Bicentennial, 1994* Summary This property contains a historic plaque detailing the history of the surrounding landscape, as such, this property may have design/physical, historical/associative, and/or contextual value.	
S2-CHR17	-BHR -Residence	5 Elizabeth Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a two-storey structure built prior to 1954 in Georgian Revival style with classical influences. It has a hipped roof and the elevation fronting Elizabeth Street is five bays across. The second storey has five sash windows accented with shutters and the first storey has four sash windows with shutters centred around a front door featuring a decorative portico supported by columns. An addition was added to the structure between 1970 and 1978. The property also includes a double garage with a steeply pitched front gable. The front lawn is lined with mature trees. Exterior Elements • Georgian style with classical influences • Symmetrical design • Front elevation is five bays across • Sashed windows accented by shutters • Portico leading to the central front entrance • Double garage with steeply pitched front gable roof • Mature trees lining the front lawn Summary This property contains a non-contributing two storey Georgian style structure with classical influences built prior to 1954, as such, this property may have design/physical, historical/associative, and/or contextual value.	

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S2-CHR18	-BHR -Residence	7 Elizabeth Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a two-storey residential structure built between 1988 and 1995. The structure has a hipped roof with an offset front gable and a light-colored brick façade. It features arched fenestration, decorative brick corbels, and quoins. A double garage is set substantially below grade. Exterior Elements • Late twentieth-century eclectic residential style • Hipped roof with off centred cross gable • Light brick façade • Arched fenestration • Decorative brick corbels • Decorative quoins • Double garage set substantially below grade Summary This property contains a non-contributing two-storey late twentieth-century residential structure within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR19	-BHR -Residence	17 Old Jane Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a two to three-storey residence built prior to 1954 in an Arts and Crafts style. The elevation fronting Old Jane Street is partially set into a bank. It has a flat roof with an eve separating the second storey from the first. The second storey has three enclosed bays with four plain square windows and an open bay surrounded by a railing. The first storey includes four enclosed bays with three double windows with shutters and a door with a decorative arched element with geometric embellishment atop. Stairs leading to the front entrance situated atop the bank include a railing. A driveway leads to the garage, which is set into the bank. The property includes a well manicured garden along the stairs and in front of the main entrance. Exterior Elements • Arts and Crafts style • Front elevation partially set into a back • Second floor open area enclosed with railing • Four bay length along front elevation • Staircase to leading to raised entrance • Decorative element above front entrance • Double windows with shutters • Well manicured landscape along staircase to front entrance • Railing along stairs to front entrance	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				Summary This property contains a non-contributing two storey Arts and Crafts style structure partially set into a bank. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR20	-BHR -Commercial Building	7681 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This is a single-storey commercial plaza originally constructed between 1954 and 1970 that is currently home to Scotia Bank and Tim Hortons. It has a façade of red brick with metal light grey metal coping and features a tower at the southwest corner of structure. The structure is sympathetic to but does not contribute to the surrounding HCD. Exterior Elements • Commercial Plaza • Large parking lot • Red brick facade • Light grey metal coping • Tower on the southwest corner Summary This property contains a non-contributing single-storey late twentieth-century commercial plaza located within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR21	-BHR -Residence	23 Elizabeth Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. Property Description This two-storey structure was constructed between 1978 and 1988. It is a residential structure with a light brick facade, hipped roof, and recessed arched entrance. It has sash windows with shutters and decorative quoins. The front yard is raised from Elizabeth Street, which it fronts, by a brick retaining wall. Exterior Elements • Late twentieth-century residential structure • Hipped roof • Recessed arched entrance • Decorative quoins • Brick retaining wall Summary This property contains a non-contributing two-storey late twentieth-century residential structure located within the HCD. As such, this property is protected	

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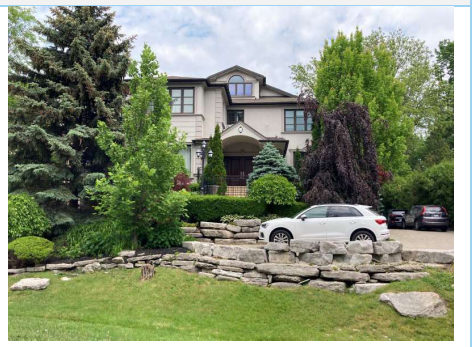
				under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR22	-BHR -Residence	12 Old Jane Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. <u>Property Description</u> This three-storey structure was constructed between 1988 and 1995. It is a residential structure with a stucco façade, hipped roof, and large front portico. The yard is extensively landscaped. <u>Exterior Elements</u> • Late twentieth-century residential structure • Hipped roof • Large portico • Extensive landscaping <u>Summary</u> This property contains a non-contributing three-storey late twentieth-century residential structure located within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR23	-BHR -Commercial Building	7700 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. <u>Property Description</u> This two-storey structure was constructed in the 1970s in a Brutalist architectural style with a façade of red brick and concrete. The east elevation fronting Yonge Street has no windows and a single entrance appearing small in scale compared to the structure. The concrete portion of the front façade features curved edges and vines are covering a section of the building. This is a Bell utility building. <u>Exterior Elements</u> • Brutalist style • Curved concrete outcrop • Red brick facade • Small entrance • No windows on front facade • Vines growing on the structure <u>Summary</u> This property contains a non-contributing two-storey red brick and concrete Brutalist style utility building constructed in the 1970s located within the HCD As such, this property is protected under *Part V of the Ontario Heritage Act* under the HCD policies and guidelines.	

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S2-CHR24	-BHR -Residence	7699 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act* as contributing attribute of the Thornhill-Markham HCD. The description provided below is based on information available in Markham Heritage Register and field observations. <u>Property Description</u> The building located at 7699 Yonge Street is a two-storey side gabled structure with a west elevation fronting Yonge Street. The original structure was built in 1846 in the Georgian Traditional style. There was a second floor added subsequently in the late nineteenth-century and a substantial modern brick renovation added to rear of the building in the twentieth century. The front façade of the original structure is stucco, accented by shutters. The first storey of the west elevation features five bays with two entrances, two slightly arched sash windows, one paired window, a central double door, and a double door located near the southern elevation. The entire first floor of the west elevation features a covered porch that is level with the surrounding lawn and supported by wooden columns. A central portico is framed by two wooden columns, above which is finial detail attached to a decorative second-floor cupola. The second storey features three bays with slightly arched sash windows including shutters. The central bay of the second storey has a rectangular cupola with a low profile and finial decoration. The original plan of the building fronting Yonge Street retains its heritage integrity and supports the heritage character of the area. A modern brick addition forms the east elevation and two thirds of the north and south elevation. It is five bays deep on the north and south elevations and three bays across on the east elevation. The addition features a mansard style roof. There is a cultural interpretive sign located on the front lawn of the western elevation of the structure entitled "*Yonge and Colborne Streets: Landmarks of this historic corner*" erected in cooperation with the City of Markham in 2015. There is also a plaque noting a former owner of the structure and proprietor of a hardware store at the location that reads *"John Carter, Gentleman, 1846, Thornhill Village Trustees-1967"*. The first owner is believed to by the Francis family who sold the house by the late 1840s. After the ownership period of John Carter, the house was under ownership Dr. Jon N. Reid, who added the second storey. Exterior Elements • Georgian Traditional style • Stucco façade • Front porch supported by decorative wooden columns • Sash windows with eight segments and slight arch • Shutter surrounding sash windows on the west elevation • Original 1846 plan of building and 19th century second storey addition • Central portico and cupola with finial decoration • Cultural Interpretive plaque in the front yard • Plaque commemorating John Carter <u>Summary</u> This property contains a two-storey Georgian Traditional house constructed in the	

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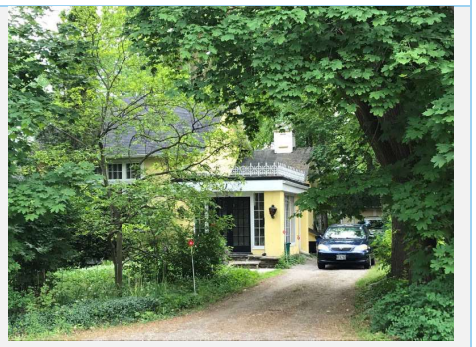
				mid-19th century. This property has known CHVI as a "Class A" property as part of the Thornhill Markham HCD.	
S2-CHR25	-BHR -Residence	11 Colborne Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act*. The description provided below is based on field observations. <u>Property Description</u> The north elevation of the building fronting 11 Colborne Street is set back from the street and partially obscured by mature deciduous trees that line much of the street. The structure has an irregular plan shape composed of a central large side gable section that is one and 1-1/2 or two storeys tall. Two shorter side gable wings protrude on each side and are fronted by two flat sections protruding from the north elevation fronting the Colborne. The structures façade is stucco. The entrance of the house has a stone stoop leading to a wooden framed glass double door on the northern elevation of the house. This portion of the eastern wing of the house has a roof crested with wrought iron decorative fencing. However, the heritage photograph found on the Markham Heritage Register indicated that this entrance is not original, and that the flat portions of the east and west wings once had an exposed rafter design. This structure was originally built for Fred S. Haines, Principle of the Ontario College of Arts from 1933 to 1952. <u>Exterior Elements</u> • Arts and Crafts style • Irregular three wing design featuring a 1-1/2 storey central gable and two shorter side gables fronted with flat roof segments • Mature wooded lot <u>Summary</u> This property contains an Arts and Crafts style structure built in 1919 associated with Fred S. Haines. This property has known CHVI as a "Class A" property as part of the Thornhill Markham HCD.	  Reference: Markham Heritage Register 2021

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR26	-BHR -Residence	7714 Yonge Street; W.D. Stark House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act and* Listed on the City of Vaughan's Buildings of Architectural and Historic Value The description provided below is based on field observations. Property Description The north elevation of the building fronting Yonge Street shows a small 1-1/2 storey Ontario Vernacular style cottage with Late Victorian influences. It was constructed in 1853 (City of Vaughan Heritage Register 2020). The east elevation faces Yonge Street and consists of three bays with a side gable roof. The roof of the building has a gabled dormer with a sash window and shutters accented by a cupola with a finial design. The first floor has a central entrance flanked by two sash windows; all are covered by a large porch supported by wooden columns. The porch has a low railing with finial decoration. Exterior Elements • Ontario Vernacular style cottage with Late Victorian influences • Side gable roof • 1-1/2 storeys • Three bay configurations • Gabled dormer • Finial accents • Sash windows with shutters Summary This property contains Ontario vernacular style cottage with Late Victorian influences built in 1853. It is within the Thornhill-Vaughan HCD and is listed on the City of Vaughan's Buildings of Architectural and Historic Value. This property has known CHVI as a contributing property as part of the Thornhill Markham HCD and as a listed heritage property.	
S2-CHR27	-BHR -Commercial Building	7707 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD. The description provided below is based on information available in Markham Heritage Register and field observations. Property Description The building located 7707 Yonge Street is a two-storey structure built in the Georgian Traditional style. The site was purchased in 1843 by Archibald Gallanough, shopkeeper and veterinarian, from the Sutton R. Frizzel portion of Lot 30, Concession 1, Markham. Mr. Gallanough built the house to include a general store and his veterinary clinic (Markham Heritage Register 2021). The light brown clapboard structure, originally constructed 1850, is currently used for commercial purposes. The west elevation fronts Yonge Street. The west elevation of the first storey features two bays, both have an entrance located on the north end of the bay. The entrances both exhibit a wooden door with a geometric decorative wooden inlay and a window, and a decorative wood transom. Four bay windows accented by a brick underlay are located immediately south of both doors. The second storey has five bays, four have sash windows (1 over 9) while the centre bay does not have a window. All four windows are accented by shutters.	

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				The building was moved to accommodate the widening of Yonge Street, but is in excellent condition. Recent alterations are sympathetic to the 19th century Georgian Traditional style (Markham Heritage Register 2021). A historic photograph retrieved form the Markham Heritage Register shows that alterations have been made to the first storey window and door configuration and a door was formerly present in the centre bay of the second storey. The first storey also historically had a covered porch. Despite the relocation of the building and changes to the configuration the building maintains its commercial use of the first storey and residential aesthetic to the second storey. The buildings relocation has allowed it to maintain its access to Yonge Street. Exterior Elements • Georgian Traditional style • Rectangular plan • Side gable roof • Rectangular sash windows • Wooden shutters • Decorative front doors with windows • Access to Yonge Street Summary This property contains a two storey Georgian Traditional style structure built in 1850. This property has known CHVI as a "Class A" property as part of the Thornhill Markham HCD.	 Reference: Markham Heritage Register 2021
S2-CHR28	-BHR -Residence	10 Colborne Street; The Ellen Ramsden House (Thornhill Village Library), Thornhill, Markham	Designated under Part IV and V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated individually under Part IV of the *Ontario Heritage Act* and under *Part V* of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD. The property description provided below is based on the individual designation By-Law Number 298-78 and the description of the property found in the Markham Heritage Register. Architectural Reasons for Designation The building at 10 Coulbourne Street in Thornhill Ontario, now the Thornhill Village Library, is recommended for designation for architectural reasons as it is a unique example of a modest domestic building of a Classical Revival style. The clapboard structure sits with its southern gable end to the street. Adapting to the medium gable roof, the second storey of the street façade is two bays across while the main level is three bays. The four street-side windows have large shutters of the original type with adjustable slats on the lower half. The boxed and returned cornice also includes a plain moulding frieze. Centrally placed, the main entrance is a single leaf, double panel door with a recessed mullioned transom of eighteen divisions and a pair of unfluted pilasters to either end. This in turn is headed by a simple but elegantly moulded entablature. Somewhat eclectic like most Ontario domestic buildings from the mid-nineteenth century, it remains in excellent condition. Historically this building was erected in 1851 as a home for Mrs. Ramsden. Historic Description The house was built for Mrs. Ellen Ramsden nee Frizzell. She died two years afterwards, and the house was deeded to her infant John A. Ramsden. There is a gap in the record, but it is known that John Grice Jr. operated a grocery store in the	

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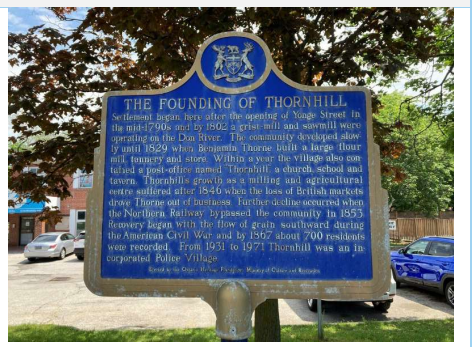
				building in the 1890s until around 1902. Veterinarian John Campbell rented it for while, and in 1911 it was again a residence, home to the Murcock McDonald family who occupied it for 20 years. It subsequently housed the Jim Tutt family, Bill and Mae Tucker, and finally Frank Tucker, who was a village trustee. Mr. Tucker sold the house to the Library Board in 1959, for $16,000. The branch was scheduled to be closed in 1971, but public outcry reversed the decision, and portables were added at the rear as expansion space. In 1977 the property was turned over to the City of Markham. Napier Simpson designed a restoration, including excavation for replacement foundation. In 1992 the portables were replaced with a new addition, which provided wheelchair access, and more space and amenities (Markham Heritage Register). Summary This property contains nineteenth-century Classical Revival style building is designated individually under Part IV of the *Ontario Heritage Act* and under *Part V* of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD. This property has known CHVI as a "Class A" property as part of the Thornhill Markham HCD and as an individually designated property.	 Reference: Markham Heritage Register 2021
S2-CHR29	-BHR -Commercial Building	7724 Yonge Street (Francis Block) , Thornhzill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act and* Listed on the City of Vaughan's Buildings of Architectural and Historic Value. The description provided below is based on information available in Vaughan Heritage Register and field observations. Property Description The east elevation of the building fronts Yonge Street. The building has a rectangular plan and consists of three Georgian style store fronts originally constructed in 1898 that have undergone some modern modifications (Vaughan Heritage Register 2020). The first floor has a substantial number of windows allowing pedestrians to view into the shops, these windows and associated entrances are covered by eves. The second floor of the northern most of the three sections has modern windows. The middle store front has three sash windows with lintels and sills, while shutters are only present on the north side of the north window and south side of the south window. The second storey of the southern store front has two sash windows with lintels and sills that both have a pair of shutters. Exterior Elements • Georgian style store front • Flat roof • Sash windows with lintels, sills, and shutters • Crown moulding • Eves at the top of the first storey • East elevation facing Yonge Street Summary This property contains a Georgian style commercial structure constructed in 1898 that is designated under Part V of the *Ontario Heritage Act and* Listed on the City of Vaughan's Buildings of Architectural and Historic Value. This property has known CHVI.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR30	-BHR -Commercial Building	7711-7715 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. <u>Property Description</u> This is the southern portion of a two-storey red brick structure constructed in 1950 in the former location of the Thornhill Hotel, which burned down in January 1950. It has a rectangular plan and houses multiple commercial store fronts. It comprises part of the modern infill included in the HCD and is typical of mid-century commercial architecture fronting many main streets in Ontario. The structure's west elevation fronts Yonge Street and has an eve running the entire length defining the first and second storeys of the structure and sheltering the commercial entrances. The second storey of the building has ten bays indicated by ten bay windows. An understated crown moulding runs the length of the west elevation defining the flat roof. The south half of the structure has an engraved stone under the crown moulding that reads *"Anstey Building 1950"* <u>Exterior Elements</u> • Typical mid-twentieth century main street commercial structure • Red brick façade • Two storey construction • Inscribed stone, denoting name and date • Crown moulding • 5 bay length (southern half of structure) • Eve length of the western elevation <u>Summary</u> This property contains a two-storey red brick commercial structure built in 1950 in the former location of the Thornhill Hotel within an HCD, as such, this property is protected under Part V of the *Ontario Heritage Act* and, as such, is protected under the HCD guidelines.	
S2-CHR31	-BHR -Commercial Building	7719, 7725 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing portion of the HCD. The description provided below is based on field observations. <u>Property Description</u> This is the northern portion of a two-storey red brick structure constructed in 1950 in the former location of the Thornhill Hotel, which burned down in January 1950. It has a rectangular plan and houses multiple commercial store fronts. It comprises part of the modern infill included in the HCD and is typical of mid-century commercial architecture fronting many main streets in Ontario. The structure's west elevation fronts Yonge Street and has an eve running the entire length defining the first and second storeys of the structure and sheltering the commercial entrances. The second storey of the building has ten bays indicated by ten bay windows. An understated crown moulding runs the length of the west elevation defining the flat roof. The north side of the structure has a stone that reads "MacNeil Building 1950".	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				Exterior Elements • Typical mid-twentieth century main street commercial structure • Red brick façade • Two storey construction • Inscribed stone, denoting a name and date • Crown moulding • 5 bay length (southern half of structure) • Eve length of the western elevation Summary This property contains a two-storey red brick commercial structure built in 1950 in the former location of the Thornhill Hotel within an HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR32	-BHR -Residence	19 Centre Street; Robert Shuter House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act* and Listed on the City of Vaughan's Buildings of Architectural and Historic Value. The description provided below is based on field observations. Property Description This is a two-storey Neoclassical style structure built in 1840 that appears to have a recent addition placed onto the rear of the originally rectangular plan (City of Vaughan Heritage Register 2020). The north elevation of the structure fronts Centre Street and sits behind a wooden clapboard fence that appears to be a recent addition to the property. The structure has a side gable roof and is three bays across on the north elevation. The top floor includes three sash windows with shutters. The first storey features a portico with classically decorated wood inlay supported by two Roman Doric columns flanked by two sash windows with shutters. Exterior Elements • Neoclassical symmetrical form • Sash windows with shutters • Three bay northern elevation • Portico with classical inlay • Roman Doric columns • Side gable roof • Stucco facade Summary This property contains a two-storey Neoclassical structure built in 1840 designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD and Listed on the City of Vaughan's Buildings of Architectural and Historic Value, as such, this property has known CHVI.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR33	-BHR -Commercial Building	7738 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing property as part of the Thornhill-Markham HCD. The description provided below is based on field observations. Property Description This is a one-storey gas station built between 1954-1970. It has an essentially rectangular plan with, glass façade, flat roof and is typical of a mid to late twentieth-century gas station. The structure comprises part of the modern infill included in the HCD. Exterior Elements • Gas pumping stations • Rectangular plan building • Glass facade • Flat roof Summary This contains a gas station and is located within the Markham-Thornhill HCD.As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	
S2-CHR34	-BHR -Historic Plaque	Plaque near corner of Yonge and Centre Street, Thornhill, Vaughan	Erected by the Ontario Heritage Foundation, Ministry of Culture and Recreation	This property is designated contains a plaque outlining the history of Thornhill. This plaque was observed during filed assessment and is within the Markham-Thornhill HCD. The Plaque Reads the Following: ***The Founding of Thornhill*** *Settlement began here after the opening of Yonge Street in the mid-1790s and by 1802 a grist mill and sawmill were operating on the Don River. The community developed slowly until 1829 when Benjamin Thorne built a large flour mill, tannery, and store. Within a year the village also contained a post-office named "Thornhill", a church, school and tavern. Thornhill's growth as a milling and agricultural centre suffered after 1846 when the loss of British markets drove Thorne out of business. Further decline occurred when the Northern Railway bypassed the community in 1853. Recovery began with the flow of grain southward during the American Civil War and by 1867 about 700 residents were recorded. From 1931 to 1971 Thornhill was an incorporated Police Village.* *Erected by the Ontario Heritage Foundation, Ministry of Culture and Recreation* Summary This property contains a plaque detailing the history of Thornhill within the Markham-Thornhill HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR35	-BHR -Commercial Building	7751 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing property as part of the Thornhill-Markham HCD. The description provided below is based on field observations. Property Description This is a two-storey red brick structure constructed in 1978 (Markham Heritage Register 2021). It has an essentially rectangular plan. The structure comprises part of the modern infill included in the HCD and is typical of mid to late twentieth- century small scale commercial/institutional architecture in Ontario. The structure's west elevation fronting Yonge Street is set back from the street by a parking lot associated with the structure, which houses a small educational facility. The building has white vinyl windows with white shutters. A white cornice and crown moulding mark the parapet wall surrounding the flat roof. Exterior Elements • Parking lot fronting Yonge • Red brick façade • Two storey construction • Crown moulding and cornice Summary This property contains a two storey red brick structure located within the Markham Thornhill HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR36	-BHR -Residence	18 Centre Street; Mason Cogswell House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act* and Listed on the City of Vaughan's Buildings of Architectural and Historic Value. The description provided below is based on field observations. Property Description This is a structure was constructed in 1840 and its south elevation fronts Centre Street (City of Markham Heritage Register 2021). This1-1/2-storey cottage Ontario Vernacular Cottage is influenced by Gothic Revival style. This structure has a side gable roof with a gabled dormer that has wood vergeboard. The dormer also has a sash window with a sill and shutters. It has a symmetrical layout featuring twin chimneys and a three-bay first storey including a door with a decorative glass transom light surrounding it flanked by sash windows with shutters on either side. The structure appears to have a single storey addition on the west elevation visible when viewing the south elevation. Exterior Elements • Ontario Vernacular Cottage with Gothic Revival influences • Symmetrical design with asymmetrical addition • Side gable roof • Twin chimneys • Gabled dormer with decorative vergeboard • Centred front door with a surrounding transom light • Sash windows with wood shutters	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				Summary This property contains Ontario Vernacular Cottage with Gothic Revival influences. It is designated under Part V of the *Ontario Heritage Act* and listed on the City of Vaughan's Buildings of Architectural and Historic Value. As such, this property has known CHVI.	
S2-CHR37	-BHR -Residence	12 Centre Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing part of the HCD. The description provided below is based on field observations. Property Description This Bungalow style structure was built prior to 1954. It has a gambrel roof and a red brick façade. There is a central dormer with a shed style roof on the top floor and large enclosed porch supported by two brick pillars located along the front elevation. The structure has a concrete foundation and concrete stairs lead to concrete stoop in front of the enclosed porch. Exterior Elements • Bungalow design • Red brick façade • Gambrel roof • Dormer with shed style roof • Large, enclosed porch supported by brick pillars • Concrete foundation • Concrete stairs and stoop Summary This property contains a two-storey Bungalow style house built prior to 1954 within an HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR38	-CHL -Public/Municipal Parkette	Northwest intersection of Centre Street and Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This is property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. It is a small parkette adjacently south of the Thornhill Pub where there are multiple historic plaques. A bronze plaque erected by the *Society for the Preservation of Historic Thornhill in 1994* highlights several topics. • A section of the plaque entitled "Old Victoria Hall' notes that Victoria Hall opened just north of this location in 1871. The hall was known its acoustics and was home to concerts and political meetings. It notes that at least two Prime Ministers spoke there including Sir John A McDonald and Mackenzie King. It notes that multiple similar venues were subsequently located in the same location. Notably, the Thornhill Pub is currently in this approximate location. • A section entitled "Mineral Water Bottling Plant" notes that in the late 1880s Thornhill was known for having health spas and bottling mineral water, due to many natural springs in the area.	

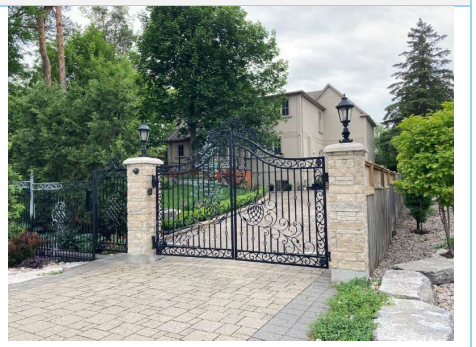
CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• The plaque also notes that a wagon yard and weigh scale was situated at this approximate location. An additional interpretive plaque at this location supplies a history of several local properties within Thornhill Vaughan HCD locate along the Yonge Street hill. <u>Summary</u> This property contains heritage plaque and interpretive sign denoting attributes of the local landscape and is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD, as such, this property may has known CHVI.	
S2-CHR39	-BHR -Commercial Building	7765 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing as part of the Thornhill-Markham HCD. The description provided below is based on information available in Markham Heritage Register and field observations. <u>Property Description</u> This is a mid-twentieth century single storey bank branch of brick construction. This architectural style is typical of bank branches of the era. The west elevation fronts Yonge Street and it has an irregular rectangular plan shape. The west elevation is comprised mainly of windows and an entrance. It features a field stone quoin along the west elevation. <u>Exterior Elements</u> • Single storey construction • Typical mid-century bank branch architecture • Field stone quoin <u>Summary</u> This property contains a single storey bank branch typical of the mid-twentieth century within an HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR40	-BHR -Commercial Building	7756 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based on field observations. <u>Property Description</u> This vernacular style structure was built in approximately 1900 near the location of the Old Victorian Hall referenced in the S2-CHR38 entry in this table. This structure has a combined flat and front gable roof with a stucco facade. The roof is lined with crown moulding and a decorative cornice sits atop the branded eve reading "Thornhill Pub". There is mixture of window styles, some with arched lintels and shutters. The first-floor façade is decorated with wooden inlay and etched windows. The structure is surrounded by a patio. <u>Exterior Elements</u> • Vernacular design • Flat and front gable roof • Moulded fascia	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• Mixture of window styles, some with arched lintels and shutters • Large, enclosed porch supported by brick pillars • First-floor façade is decorated with wooden inlay and etched windows Concrete stairs and stoop • Surrounded by patio Summary This property contains a two-storey vernacular style structure built in approximately 1900 located within the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR41	-BHR -Commercial Building	7775/7771 Yonge Street; Robert A. West General Store, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class B" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act*. The Markham Heritage Register notes that the structure was constructed in 1845 in the Classic Revival style. The description provided below is based on information available in the Markham Heritage Register and field observations. Property Description This structure is currently a primarily one storey modern commercial building with a stucco façade fronting Yonge Street. The Markham Heritage Register notes that it was originally constructed in 1845 in the Classical Revival style (Markham Heritage Register 2021). However, while it is apparent that a portion of the building may once have been a residential structure the building has since undergone extensive twentieth-century modification and the current footprint of the building appears to be entirely modern. Exterior Elements • Single storey construction • Extensive modern modification • Portion of possible two-storey nineteenth-century structure located along the southern elevation Summary This property contains a primarily single storey commercial structure that may encompass a building constructed in 1845 in the Classical Revival style. It is located within an HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR42	-CHL -Public/Municipal Park	26 Old Yonge Street; Thornhill Park, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	The frontage of this property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based on field observations. Property Description This property features a one storey main building with an irregular plan and roof built between 2002 and 2005. The landscape also includes a tennis court which has been utilized by the Thornhill Park Tennis Club since 1951, a baseball field, a small parkette identified as the Percy Bone Parkette which was not visible from the ROW and circulation routes/trails. This property was identified within the HCD as having significant natural features associated with the property. Exterior Elements -Mature Trees-Circulation Routes Summary This property contains a one storey main building with an irregular plan and roof, a tennis court, baseball field, a small parkette identified as the Percy Bone Parkette, and circulation routes/trails. This property is located within the HCD and as such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	 
S2-CHR43	-BHR -Residence	7780 Yonge Street; Robert West House, Thornhill, Vaughan	-Designated under Part IV and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value -Protected by an Ontario Heritage Trust (Trust) Heritage Conservation Easement Agreement (HCEA)	This property is designated under Part IV (by-law number unknown) and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. At the time of this writing the associated by-law was not available for viewing. As such, the below property description off of field observations and the construction date provided in the City of Vaughan's Heritage Register. Property Description Visibility was not clear at the time of this writing however an informational plaque associated with S2-CHR38 identifies this property as a neo-classical frame house built in 1837 by Robert West. Robert West had a store which was located directly across the street. In 2008, Louisa (Davie) Keith, a descendant of Robert West donated this property to the Thornhill Heritage Foundation established on April 19, 2008. Summary This property contains a neo-classical frame house built in 1837, located within the Vaughan HCD. This property has known CHVI.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR44	-BHR -Former Residence	7787 Yonge Street, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act*. The description provided below is based on information available in Markham Heritage Register and field observations. Property Description This is a two storey Georgian Traditional style house with a clapboard façade and hipped roof, originally constructed in 1846 (Markham Heritage Register 2021). The west elevation of the house fronts Yonge Street and has three bays. The first floor has two sash windows (two over two) with shutters flanking a central door. The door is decorated with a transom light and additional decorative windows separated by mullions along either side of the door framed by pilasters. The second storey is said to be an edition completed in 1914, it has three sash windows (3 over 1) with shutters. There is a gable dormer housing a sashed window centrally present along the west elevation of the hipped roof. Exterior Elements • Georgian Traditional style • Clapboard façade • Three bay west elevation • Symmetrical design • Door with transom light and pilasters • Hipped roof • Gabled dormer • Sash windows with shutters • Location fronting Yonge (was moved) Historic Notes Built as a 1-storey building in 1846 for George Medd, saddler. In 1914, Nelson Smellie enlarged the house, making it 2 storeys high. The Smellie family remained in the house until the 1960s. The house was bought by the Ring family in the mid 1960s and converted into the Byron E. Ring Funeral Home. In 1986 the house was moved to its present location, from its original site at 7783 Yonge Street (Markham Heritage Inventory 2021). Summary This property contains a two storey Georgian Traditional style house with a clapboard façade and hipped roof originally constructed in 1846, within the Markham-Thornhill HCD. This property has known CHVI.	

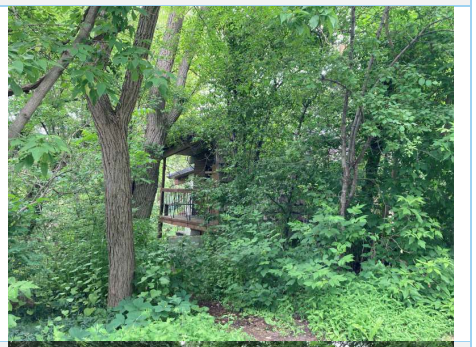
CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR45	-BHR -Thornhill Methodist Church	7788 Yonge Street; Thornhill Methodist Church, Thornhill, Vaughan	Designated under Part IV and V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act* and Listed on the City of Vaughan's Buildings of Architectural and Historic Value. The description provided below is based on field observations. Property Description This 1-1/2-storey church structure was constructed in 1846 in vernacular style with classical influences. Its east elevation fronting Yonge Street is three bays across and has a front gable roof. The façade is clapboard and there are two sash windows flanking the centre portico on the first storey. It has decorative wood moulding forming a large pediment under the gable roof and this is echoed in the portico design with a pediment above the main entrance. The central portico features a double door framed by pilasters on either side. Stairs lead to the church that sits on a raised elevation behind a white picket fence. Exterior Elements • 1-1/2 storey vernacular style with classical influences • Front gable roof • Large pediment under the roof • Front portico with pediment and pilasters • Front double door • Symmetrical sash windows framed with moulding and topped with lintels • Position atop a hill with stairs leading to the location • White picket fence Summary This property contains a church of vernacular style with classical influences. It is designated under Part V of the *Ontario Heritage Act* and listed on the City of Vaughan's Buildings of Architectural and Historic Value. As such, this property has known CHVI.	
S2-CHR46	-BHR -Residence	7802 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based on field observations. Property Description This two-storey structure was constructed on or before 1920. The east elevation visible from Yonge Street appears to not be the original frontage of the structure. From what can be seen from this vantage point the structure appears to have a side gable design with a central gable dormer pointed north. The building appears to have a mixture of board and batten and brick façade. The east elevation has a central brick chimney flanked by two sash windows with lintels. The first storey has an enclosed black porch with sash windows covered by a pent roof. Additions to the house have been built as recently as 2020 and the roof is clad in metal. Exterior Elements • Two-storey construction • Mix of board and batten and brick façade • Brick chimney • Sash windows with lintels • Gable dormer	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• Enclosed porch with sash windows covered by pent roof • Decorative wood detail at the top of the side gable • Original orientation of the frontage is north, not facing Yonge Summary This property contains a two-storey side gable structure. It is designated under Part V of the *Ontario Heritage Act* as part of the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR47	-BHR -Residence	7808 Yonge Street; George Munroe House, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based on field observations. Property Description This single-storey vernacular structure was constructed in 1856 (Vaughan Heritage Register 2020). The east elevation fronting Yonge Street is three bays across with a simple door flanked by plain sash windows. The structure has a stucco façade and a side gable roof. The property is overgrown and the house is in disrepair. Exterior Elements • Single- storey construction • Side gable roof • Three bay plan • Stucco façade • Plain door and sash windows Summary This property contains a single-storey side gable structure. It is designated under Part V of the *Ontario Heritage Act* as part of the HCD. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR48	-BHR -Residence	7820 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as non-contributing part of the Thornhill Vaughan HCD. The description provided below is based on field observations. Property Description This is a three-storey residence built in 2007. It is constructed in an eclectic style with multiple gables with varying pitches. The house has a stucco façade. The view of the house, which fronts Yonge Street is partially obscured by the front gate and landscaping. Exterior Elements • Modern home of eclectic style • Multiple gables of varying pitch • Masonry and wrought iron front gate • Fronts Yonge • Stucco façade • Asymmetrical design	

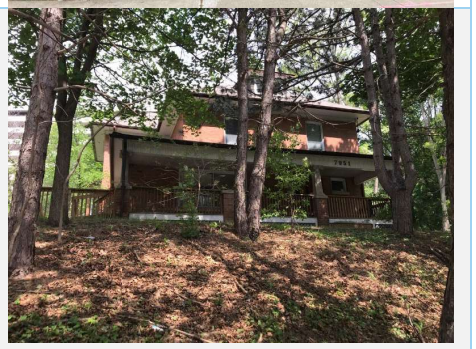
CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				Summary This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing part of the Thornhill Vaughan HCD and is a recent residential home. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR49	-BHR -Residence	7822 Yonge Street, Seager Cottage, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	This property is designated under Part V of the *Ontario Heritage Act* and listed on the City of Vaughan's Buildings of Architectural and Historic Value. The description provided below is based on field observations and the construction date provided in the City of Vaughan's Register. Property Description This structure was constructed in 1850 and its west elevation fronts Yonge Street. This1-1/2-storey cottage is constructed in the Ontario Vernacular style. The façade is composed of clapboard and it has a side gable roof. The structure has a raised porch and gabled dormer featuring a small plain window. The three-bay first floor has a centred front entrance flanked by sash windows (six over six) on either side. The front entrance also features two symmetrical lantern style lights. Exterior Elements • Ontario Vernacular style • Symmetrical 1-1/2-storey cottage layout • Side gable roof • Gabled dormer with simple window • First floor sash windows (six over six) • Raised porch entry • Central wood entrance with a simple geometrical inlay Summary This property contains a two-storey Ontario Vernacular style structure built in 1850. It is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD and is listed on the City of Vaughan's Buildings of Architectural and Historic Value. This property has known CHVI.	
S2-CHR50	-CHL -Residence and associated Outbuilding	42 Old Yonge Street; William Walton Armstrong House, Thornhill, Vaughan	Designated under Part IV and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part IV (under by law 66-2001) and Part V of the *Ontario Heritage Act*. At the time of this writing the associated by-law was not available for viewing. As such, the below property description off of field observations and the construction date provided in the City of Vaughan's Heritage Register. Property Description This structure was constructed in 1890 and its west elevation fronts Yonge Street (City of Vaughan Heritage Register 2020). This Ontario Vernacular style structure is two-storeys high and three bays across. It has a clapboard façade and a cross gable roof with a front gable located at the south elevation. The structure features plain sash windows and the first storey has a protruding bay window with a mansard style cupola located under the front gable. The remainder of the west elevation features a covered porch. Exterior Elements	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• Ontario Vernacular style • Cross gable roof • Protruding bay window installation under the front gable with a mansard style roof • Front porch housing the main entrance along the north end of the west elevation • Plain sash windows • Raised porch entry Summary This property contains a two-storey Ontario Vernacular style structure built in 1890. It is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD and is individually designated. This property has known CHVI.	

S2-CHR51	-CHL
	-Golf Course/Club House
		7859 Yonge Street Toronto Ladies Golf Club, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD. The description provided below is based on information available in Markham Heritage Register and field observations.
				
				Property Description
				The Ladies Golf Club of Toronto (LGCT) was constructed in 1922 and is the last surviving golf club in North America established for women by women. Ada Mackenzie (1891-1973), a repeat Canadian Amateur champion, was the driving force behind the founding of the Ladies Golf Club of Toronto. The property, originally a farm estate called "Brooklands", was purchased by LGCT in 1924 from Stafford Watson. The course was designed by golf course architect Stanley Thompson, and was inaugurated on August 23, 1926, when Ada Mackenzie won a match with Helen Paget of the Royal Ottawa Club.
				
				The clubhouse is the original Watson home, built for his son as a wedding present, with some later additions and renovations. The clubhouse is two-stories high and is constructed in a Colonial Revival style. The structure has a hipped roof with a fenestration pattern of arched dormers with windows across it. The front elevation of the first floor consists of seven bays with three sashed windows, two smaller windows, and two entrances. The main entrance is framed by a portico and the other entrance consists of a wooden door framed by transom light in an inset arch. The second floor has several sash windows with shutters and one arched window. There are additions on both sides of the building.
				
				Exterior Elements
				• Colonial Revival style clubhouse:
				  ○ Front Portico
				  ○ Second door framed by transom light
				  ○ Hipped roof
				  ○ Fenestration pattern of arched dormers
				  ○ Mix of arched and sash windows
				• Golf course landscape designed by golf course architect Stanley Thompson
				Summary
				This property contains a golf course and two storey Colonial Revival style clubhouse. This property is the last surviving golf club in North America established for women by women. The property is designated under Part V of the *Ontario Heritage Act* as a
					
					 
					Reference: Markham Heritage Register 2021

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				"Class A" property as part of the Thornhill-Markham HCD, and as such has known CHVI.	
S2-CHR52	-BHR -Residence	10 Mill Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing part of the Thornhill Vaughan HCD. The description provided below is based on information available in the Vaughan Heritage Register and field observations. Property Description This structure is noted as an example of 1950s modernism on the City of Vaughan Heritage Register (2020). An adequate view of the structure located on the property was not attainable during field assessment due to dense foliage on the property. Summary This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD as a non-contributing property. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR53	-CHL -Public/Municipal park	7877 Yonge Street; Toronto Radial Railway stop #17, Thornhill, Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD. The description provided below is based on information available in Markham Heritage Register and field observations. Property Description The Stop 17 waiting room was originally located at the west side of Yonge at Royal Orchard, it was moved to the Country Club Golf Course sometime after 1930 where it served as a refreshment stop and rain shelter, until it was relocated, restored, and moved to this location in November 2000. It is a small wooden vernacular structure with a rectangular plan and hipped shingle roof. This building served as a waiting room at Stop 17 for the Radial Railway Line from Toronto at the turn of the twentieth-century, the line opened in 1897 and ran into the 1920s when the popularity of cars decreased the need for public transportation and the line was closed. This property is also home to Cricklewood Park. East of the location stands an imposing Georgian house locally known as the Cricklewood, although until 1956 the house and surrounding lands were known as Brooklands. A portion of this park is located within the Thornhill-Markham HCD. Exterior Elements • Stop 17 waiting room, an example of vernacular architecture • Cricklewood Park Landscape Summary This property is designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD and contains Stop 17 of the Toronto Radial Railway and Cricklewood Park. This property has known CHVI.	 

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
					 Reference: Markham Heritage Register 2021
S2-CHR54	-CHL -Golf Course	7994 Yonge Street (Mortimer House); 8000 Yonge Street, Thornhill, Vaughan	-Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD -Listed on the City of Vaughan's Buildings of Architectural and Historic Value	The frontage of this property is designated under Part V of the *Ontario Heritage Act*. The description provided below is based on field observations and the construction date provided in the City of Vaughan's Register. <u>Property Description</u> The City of Vaughan Heritage Register notes that this property contains a Georgian style structure constructed in 1843, however the presence of this structure could not be confirmed during field assessment. The remainder of the property includes a golf course, clubhouse, associated buildings and a Neo-Classical building (8000 Yonge Street). The Neo-Classical building consists of a two-storey structure constructed in a Neo-Classical style house with a hipped roof built prior to 1954. The east elevation fronts Yonge Street and has a fenestration pattern of evenly placed sash windows accented by sills, lintels, and shutters. The structure is five bays wide and has a centred front door flanked by two windows on the first storey, while the second storey has five sashed windows with shutters. The front door is accessible through a raised stoop leading to a portico with a gabled dormer supported by classically styled pillars. This structure was listed on the City of Vaughan's Buildings of Architectural and Historic Value <u>Exterior Elements (8000 Yonge Street)</u> • Neo-Classical style • Hipped roof • Fenestration pattern of evenly placed sash windows accented by sills, lintels, and shutters • Two-storey construction • Raised stoop • Gabled portico supported by pillars • Centred walkway through front yard <u>Summary</u> The frontage of this property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD, and the Neo-Classical building is listed on the City of Vaughan's Buildings of Architectural and Historic Value. It contains a two-storey structure constructed prior to 1954 in the Neo-Classical style as such this property may have design/physical, historical/associative, and/or contextual value	 

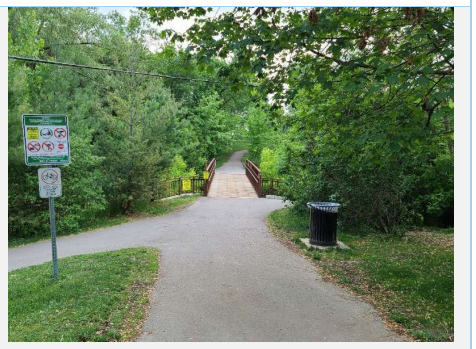
CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				and must is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan	
S2-CHR55	-BHR -Residence	7951 Yonge Street "Edwardian House", Thornhill, Markham	Listed on the City of Markham's Heritage Registrar	This property is listed in the Markham Heritage Register. The description provided below is based on information available in Markham Heritage Register and field observations. <u>Property Description</u> This property contains a two-storey structure built in 1910 in the Edwardian style (Markham Heritage Register 2021). It features a large, covered veranda supported by plain pillars, plain sash windows, and a gabled dormer on the roof. The house is set back considerably from Yonge Street and the west elevation, fronting Yonge, is obscured considerably by a mature treeline. <u>Exterior Elements</u> • Edwardian style • Two storey construction • Extensive covered veranda • Mature treeline • Gabled dormer <u>Summary</u> This property contains two storey structure dating to 1910 built in the Edwardian style and is listed on the City of Markham's Heritage Registrar, as such, it may have design/physical, historical/associative, and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR56	-CHL -Holy Trinity Anglican Cemetery	8004 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based field observations and preliminary desktop research. <u>Property Description</u> This property is home to the Holy Trinity Cemetery founded in 1830. An onsite plaque erected by the Society for the Preservation of Historic Thornhill and Holy Trinity Anglican Church, with the Assistance of the Ontario Ministry of Culture and Recreation details the history of the surrounding landscape and site history described below (The Society for the Preservation of Historic Thornhill 2021b). *Thornhills first official cemetery was the churchyard of Holy Trinity Church built on this site in 1830 and moved to Brooke Street in 1950. The Parish Hall was added in 1928 and serves a Baptist congregation. The historic burying ground remains to serve parishioners who have settled here since the early 1800's. The oldest headstone dated 1804, commemorates Rebecca Wilson who fled New Jersey with her family Loyalist refugees in 1793. Other headstones record the drama of immigration and rugged settlement, War in 1812, Rebellion in 1837, fire, flood, epidemic and of greater wars. The reality of daily life is dominant. These men, women and children lived by the seasons, working with their hands and minds to create our community.* Today the Thornhill Baptist Church occupies a lot fronting Yonge while the cemetery is located behind the church with access to Yonge just south of the church. The historic plaque referenced above is located on or just adjacent to the property. In addition to the cemetery and church, the plaque references the early history of Thornhill. The plaque references surviving properties from the original village including: • 8000 Yonge Street-The Mortimer House • 8038 Yonge Street, Soules Inn and later temperance stagecoach depot • 8046, 8054, 8064-Old houses from the village • 8201-Langstaff School circa. 1811 Other 'survivors' named from the historic time are Cricklewood, Sunnyside Manor, Holy Trinity Church and the Methodist Church on Centre Street <u>Exterior Elements</u> • Cemetery with Burial Grounds • Access to Yonge Street • Historic Plaque <u>Summary</u> This property is a historic cemetery founded in 1830 designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. This property has known CHVI.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR57	-BHR -Thornhill Baptist Church	8018 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based field observations and preliminary desktop research. Property Description This site is home to the two-storey Thornhill Baptist Church constructed in 1928. This site was previously home to the Holy Trinity Church constructed in 1830 and moved to Brooke Street in 1950. The church is constructed in a vernacular style with Neo-Gothic influences. It features an off-centre front gable with a one storey hipped roof element protruding from the south elevation. There is a large portico with a front gable that is adorned with a cross and double doors framed by pilasters and a large lintel. The windows along the east elevation are arched and there are concrete steps with a railing leading to concrete stoop. While the cemetery itself was constructed in the early twentieth-century, it is situated in front of a historic cemetery dating to the early nineteenth-century. Exterior Elements • Vernacular style with Gothic influences • Front gable roof • Red brick façade • Hipped roof protruding from the southern elevation • Front portico with gable • Cross adorning the front portico • Concrete steps with railing leading to concrete stoop • Front door with decorative lintel and pilasters • Arched window fenestration Summary This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. It contains a two-storey church constructed in 1928, as such, it may have design/physical, historical/associative, and/or contextual value.	
S2-CHR58	-CHL -Residential Complex	8038 Yonge Street; Soules Inn, Thornhill, Vaughan	Designated under Part IV and V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This property is designated under Part IV (under by-law 51-83) and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The associated by-law was not available for viewing at the time this report was written. As such the below property description is based off of field observations. Property Description This is a two-storey structure is constructed in a Georgian style with classical influences. The east elevation fronts Yonge Street and has a fenestration pattern of evenly placed sash windows accented by sills and shutters. The structure is five bays wide and has a centred front door flanked by two windows on the first storey, while the second storey has five sashed windows with shutters. The front door is accessible through a slightly raised stoop leading to a shallow portico supported by classically styled pilasters with a decorative moulding over the door. The property contains numerous residential units in addition to the historical Georgian-style residence. Exterior Elements	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				• Georgian style with classical influences • Two-storey construction • Second storey fenestration pattern of evenly placed sash windows accented by sills and shutters • Centred door accessible through a low stoop • Portico supported by classically styled pilasters with a decorative moulding over the door Centred front door <u>Summary</u> This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD and contains a two-storey structure constructed in 1860 in the Georgian style with classical influences. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR59	-BHR -Former Residence	8054 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing part of the Thornhill Vaughan HCD. The description provided below is based on field observations. <u>Property Description</u> This is a 1-1/2-storey structure built prior to 1954 in an Ontario Vernacular Cottage with Gothic style influences. The east elevation fronts Yonge Street and it features a side gable roof with a centre gable with vergeboard. The front door is covered by a portico. The structure has three bays and has a centred front door flanked by sash windows with shutters on the first floor. The front door is accessible through steps that are a modern intervention and modern signage obstructs some of the front façade. <u>Exterior Elements</u> • Ontario Vernacular style with Gothic Revival influences • 1-1/2 storey construction • Side gable roof • Centre gable with vergeboard • Sashed windows with shutters • Centred front door • Front portico supported by columns <u>Summary</u> This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing part of the Thornhill Vaughan HCD and contains a 1-1/2 storey structure constructed prior to 1954 in an Ontario Vernacular style. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR60	-CHL -Thornhill; Anglican Church Rectory	8088 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD	This designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD. The description provided below is based on information available in Markham Heritage Register and field observations. Property Description This is a 1-1/2-storey structure built in 1860 in an Ontario Vernacular style with Gothic Revival influences (Markham Heritage Register 2021). Its east elevation fronts Yonge Street and it features a side gable roof with a centre gable with vergeboard that houses a sashed window with shutters. The three bays of the first storey include a door decorated with a transom light flanked by two sash windows with shutters. There is a brick fence structure located in front of the west elevation of the house. Exterior Elements • Ontario Vernacular style with Gothic Revival influences • 1-1/2 storey construction • Side gable roof • Centre gable with vergeboard • Sashed windows with shutters • Centred front door with transom light • Brick fence at west elevation Summary This property is designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD and contains a 1-1/2 storey structure constructed in 1860 in an Ontario Vernacular. As such, this property is protected under *Part V of the Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	
S2-CHR61	-CHL -Commercial Building	8100 Yonge Street, Thornhill, Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (non-contributing)	This property is designated under Part V of the *Ontario Heritage Act* as a non-contributing property of the HCD. The description provided below is based on field observations. Property Description This is a single-storey commercial plaza originally constructed between 1978-1988. The structure is clad in brick and features a canted portico supported by two piers. Exterior Elements • Commercial Plaza • Large parking lot • Red brick facade Summary This property contains a non-contributing single-storey late twentieth-century commercial plaza located within the HCD. As such, this property is protected under Part V of the *Ontario Heritage Act* and must comply with the associated policies and guidelines of the HCD Plan.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR62	-CHL -School	201 Bay Thorn Drive; Baythorn Public School, 201 Bay Thorn Drive	Identified during field review	This property was identified during field review. The description provided below is based field observations. Property Description Baythorn Public School is a single storey structure constructed in 1966-1967. The school is built in a Modernist style typical of similar institutions of the era. It is set within a large subdivision built at a similar time and as such represents the cultural cohesion of the surrounding neighbourhood. Property Elements • Modernist architecture of mid-twentieth century school design • Single storey construction • Brick construction • Large glass windows • Field and baseball diamonds Summary This property contains a school constructed in 1966-1967, as such, it has possible design/physical, historical/associative, and/or contextual value.	
S2-CHR63	-CHL -Public/Municipal Park	110 Royal Orchard Boulevard, Thornhill, Markham	Identified during field review	This property was identified during field review. The description provided below is based field observations. Property Description Royal Orchard Park is located within a mid-twentieth century subdivision and includes circulation paths and a peaceful woodland setting. The park crosses Royal Orchard Boulevard and contains a bridge, which crosses a small water course. The Heintzman House, or Sunnyside Manor, is located adjacently west and is one of the oldest homes in Markham. Property Elements • Bridge crossing a small water course • Circulation paths connecting parts of the surrounding subdivision • Woodland setting • Setting within mid-twentieth century subdivision Summary This property is a park set within a mid-twentieth century subdivision that includes circulation paths through the community and over a watercourse, as such, it has possible design/physical, historical/associative, and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
					
S2-CHR64	-CHL -School	141 Kirk Drive; St. Anthony Catholic School, Thornhill, Markham	Identified during field review	This property was identified during field review. The description provided below is based field observations. <u>Property Description</u> St. Anthony Catholic School is located within a mid-twentieth century subdivision and was built in 1969-1970. It is a one storey brick structure with multiple hipped roof pavilions situated throughout. A large multi-storey portion of the building is visible at the rear when viewing the west elevation from Kirk Drive. <u>Property Elements</u> • Typical mid-twentieth century school design • Single storey construction • Brick construction • Hipped roof pavilion design • Multi-storey component in the rear • Playing fields <u>Summary</u> This property contains a school constructed in 1966-1967, as such, it has possible design/physical, historical/associative, and/or contextual value.	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
S2-CHR65	-CHL -Cemetery	Holy Cross Cemetery, Thornhill, Markham	Identified during field review	This property was identified during field review. The description provided below is based field observations and preliminary desktop research. Property Description Holy Cross Cemetery was consecrated in 1954 includes a mausoleum and ground burials as well as an onsite funeral home (Catholic Cemeteries & Funeral Services, Archdiocese of Toronto 2021). Property Elements • Cemetery • Circulation routes • Mature trees/plant8ngs • Watercourse • Burials and associated markers • Funeral Home • Mausoleum • Pedestrian underpass to connect east and west sides of property Summary This property is a Catholic cemetery consecrated in 1954, as such, it has possible design/physical, historical/associative, and/or contextual value.	
S3-CHR1	-CHL -Observatory	23 Hillsview Drive (David Dunlap Observatory Lands), Richmond Hill	Designated under Part IV of the *Ontario Heritage Act* under By-law 100-09	The David Dunlap Observatory Lands is designated under Part IV of the *Ontario Heritage Act* under By-law 100-09. A full copy of the designation By-law can be found online. The following 'Description of Property', 'Statement of Heritage Value' and 'Description of Heritage Attributes' are contained within the By-Law Description of Property The sprawling property located at 123 Hillsview Drive encompasses Parts of Lots 42 and 43, Concession 1, former Township of Markham,. The Property is known as the David Dunlap Memorial Observatory. This property is designate as a CHL. In particular, the section of the property extending from Hillsview Drive in the north to the fence line at the boundary of Lot 41 to the south and from the CNR tracks in the west to a surveyed line located 150 metres east of the easternmost row of the University of Toronto's former experimental tree plantation. This area encompasses a wide range of important cultural resources. Principally these include: the Observatory Building (originally known as the Great Telescope Dome) and telescope; the Administration Building; Elms Lea (Observatory House); the Radio Shack; the natural topographic rise and earthwork enhancements in the area of the Observatory Building; the designed landscaping associated with the Administration Building; the vestigial landscape elements and plantings associated with Elms Lea and the University of Toronto's Department of Forestry's experimental tree plantation. Property Elements: • the siting of the Observatory Building and the Administration Building at the highest local elevation, enhanced and modified ·to a 'podium, form by significant earthworks for the placement of the buildings.the laying out of the site to follow the cardinal points with the Observatory Building as due	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				north and the Administration Building due east. This directional emphasis remained an essential design determinant for site layout right through the 1960s[1] and extended throughout most major elements of the site -including the interior plan of the Administration Building (see below), the siting of the Radio Shack, the location of the elliptical traffic island with north-south pedestrian walk-way through its center and sun dial at its southern end, the placement of the flag pole, the orientation of the rows of the University's Department of Forestry experimental tree plantation. (a) Elms Lea c.1864, the picturesque dichromatic brick farmhouse originally designed for Alexander Marsh. While subject to several renovations and minor additions associated with its use within the DDO complex, the original exterior appearance is largely intact, and the interior plan remains legible. It is an eclectic expression combining elements of Classical, Gothic Revival and Italianate derivation in a well integrated composition. Key heritage attributes of the exterior include: - the three bay symmetrical facade; - the 'T' plan with original kitchen 'tail; - the side gabled roof with relatively steeply pitched centre gable; - the bracketed eave at the facade, eave returns and verges with distinctive pendant bracket; - the dichromatic brickwork with buff brick accent detailing which include: quoins; stringcourses; arches; decorative 'reflecting' of brackets in brickwork and cross pattern with margins at gables. The Flemish bond coursing pattern at the facade and the complex cambered ('flat') arches in red brick. - The treatment of openings including: the quarter round windows with quarter fanlights at the gables; the 6/6 small pane wood sash; the French doors flanking the center bay of the facade; the prominence given to the openings of the center bay including the main entrance with transom (with distinctive lancet light divisions) and sidelights and the semi-circularly arched opening containing French doors at the balcony which 'breaks' the eaves at the centre gable. - the rear 2 storey gable roofed 'tail' with dichromatic brickwork and voussoir cambered ('flat) arches at the window openings. Key heritage attributes of the interior include: - the centre hall plan; - the grand winder stair and balustrade at main hall. The curved rail and soffit of the main stair create a spiraling, floating effect within the space. - the plaster paterae featuring acanthus leaves in main hall and north reception room;	

[1] The north-south axial emphasis continued into the 1980s reflected in the Town designed Observatory Park and Elvis Stojko Arena on what has become known as the 'Panhandle' (described as Parts 2 and 3 on Plan 65R-29959). The "Panhandle" does not form part f the Property and is not included here for designation.

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				- the high wood bases throughout; - the moulded door and window architraves; - the remaining 4 panel doors; - the original wood fireplace surrounds at the north reception room and 'tail' with c. 1933 fireboxes and hearths; - the tile floor, tiled dado and moulded tile dado cap at 'master bathroom'; - the king post truss roof structure of the main roof. (b) the Observatory Building (originally known as the Great Telescope Dome), 61' in diameter, designed and built to house the 74" telescope, 2nd largest in the world at that time and prototype for the use of pyrex mirrors of that scale, with rotating copper dome incorporating retractable shutters for astronomical viewing. The building expresses the Machine Age aesthetic of the period, the building being an 'envelope' for the instrument and its function. The DDO 74" reflecting telescope, still the largest optical telescope in the country, is one of Canada's most significant scientific artifacts (as well as continuing to be a viable instrument for astronomical observation). A 'leading edge' technical achievement at the global level upon its fabrication, much innovative design went into its housing and support allowing for its rotation and the cleaning and re-aluminizing of its 5000 lb. primary mirror. Most of the apparatus and associated electrical system for these operations remains original (with some replacement parts) and these partake of the high level of significance of the telescope itself. Key heritage attributes of the exterior include: - the circular form broken only by the entrance vestibule facing due south; - the hemispherical dome clad in flat seam copper panels; - the galvanized metal cladding of the walls and the 'rhythm' created by the regular spacing of pilasters and louvered shutters; - the symmetry of the facade; - the beveled base into which the pilasters terminate; - the network of steel stairs and 'catwalks'; - the double leaved metal clad paneled entrance doors with moulded surround and transom with tripartite geometric pattern. - the retractable shutters. Within this structure form, material and function are virtually indivisible. Thus, all aspects of the interior are included, highlighted by, but not restricted to: - the semi-circular corridor formed around the service core at the first floor with galvanized metal wall cladding; - the multi-pane steel sash (louvered shutters on exterior); - the telescope; - the concrete support pier (formed independently from the building itself;	

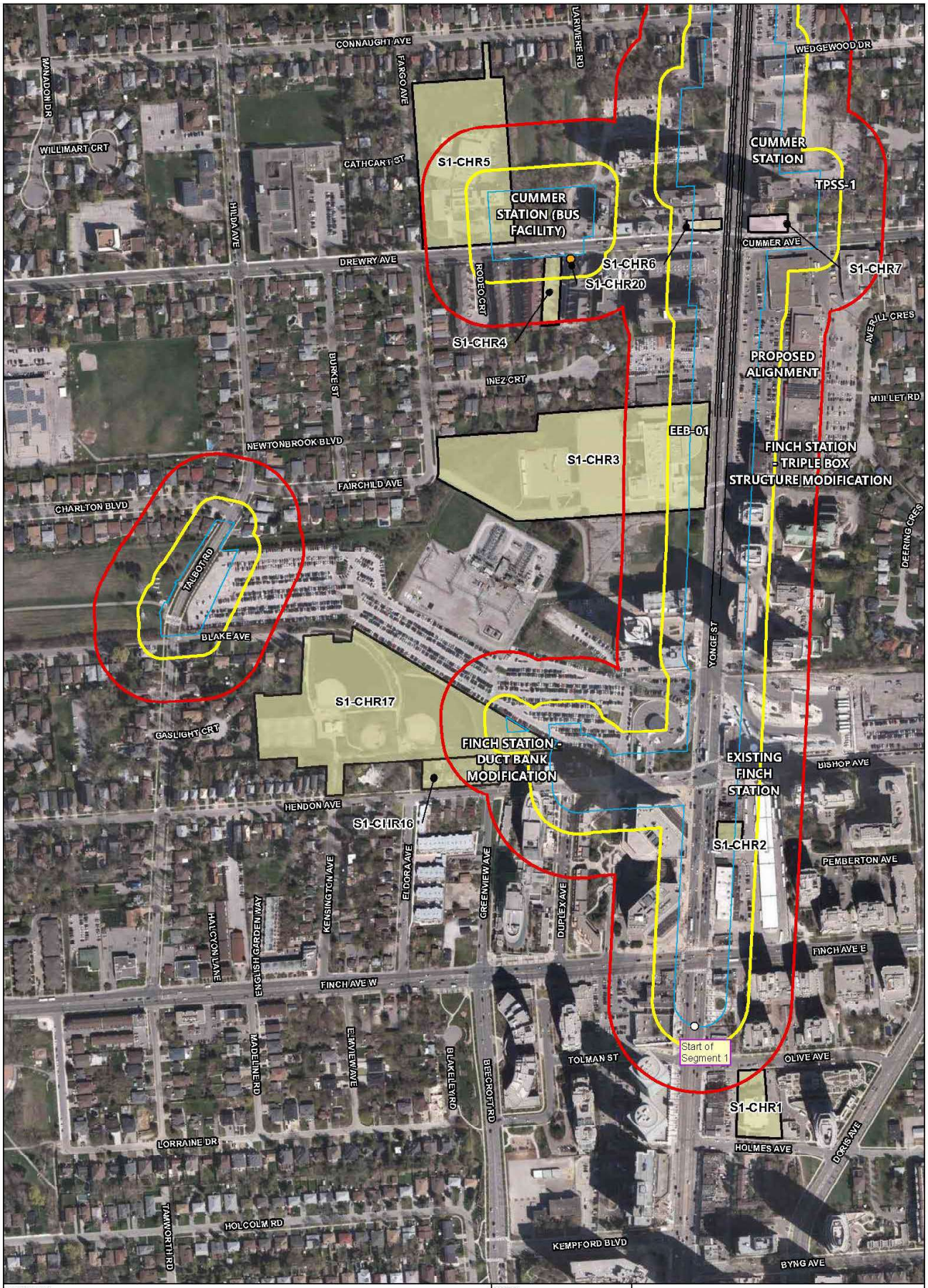
CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				- the telescope tube; - the interior stair and 'catwalk' system; - the apparatus associated with the rotation of the telescope; - the apparatus associated with the rotation of the dome and opening of the shutters including the cable pulley system; - the carriage/elevator and all associated components such as the vacuum chamber, floor hatch and pulley system associated with the mirror cleaning/re-aluminizing process - the electrical system with much original wiring. (c) the Administration Building, a prototypical example of Beaux-Arts classicism rendered masterfully in stone and incorporating three copper 'observatory domes'. The Administration Building is a major architectural achievement. Mathers and Haldenby successfully combined an eloquent memorial to the patron's husband, David Dunlap, with a functional administrative and research facility supporting the astronomical Observatory. Literally at its core the building integrates the sacred and scientific bringing the cardinal point orientation of the site into the interior where, directly in line with the main entrance, at the termination of the building's eastern axis, accessed across the compass rose inlaid into the floor, through a monumental, temple-like double height space and then through a pilastered arch, resides the memorial to David Dunlap. The memorial, incised and gold-leafed into a panel at the marble wall, is at the centre of the cross hall. At the cross halls the ceremonial space is further defined by fluted pilasters. Throughout this area both wall and floor finishes are marble and the ceilings arched. Around this sacred core and the highly articulated Library a functional lay-out of offices, laboratories and support services was arranged. Key heritage attributes of the exterior include: - the classical Beaux-Arts symmetrical form and footprint; - the 5 bay main block with projecting central pavilion and angled side pavilions; - the focal treatment of the center bay incorporating semi-circular main entrance portico with Corinthian columns and Tuscan pilasters and approached via stone steps, Palladian window (with moulded architrave and keystone), balcony with wrought iron railing, stepped (up) and splayed section of stone parapet incorporating stone balustrade and urns surmounted by the largest dome placed in symmetrical relationship with the smaller domes of the side pavilions. - the wall treatment combining sandstone and limestone and contrasting the texture of the rock faced general coursing with cut stone accents (including quoins, stringcourses, parapet copings, window and door surrounds) and carved elements (including panels with swag and floral patera at the stone parapets, freestanding urns surmounting the central dome parapet, balusters at the central dome parapet, - Corinthian columns at the front portico including circular dentillated entablature with fluted frieze and a floral patera above each of the column capitals;	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				- the main entrance treatment consisting of a wide door of 6 fielded panels (with original hardware), with both wood and stone surrounds. The wood surround includes fluted pilasters and architrave featuring 'the lamp of knowledge' in relief as its central motif and floral emblem at its raised comers. The stone surround is in the form of a moulded architrave. - The window treatment typically incorporating a stone apron panel with bas relief floral patera at 2nd storey. The multi-pane window sash typically 12/8 at end - 2 storey, and 12/12 at ground storey. Oculus windows with broached stone voussoirs at side pavilions and centre bay of rear elevation. - The domes clad in flat seam copper panels; - The symmetrical 9 bay rear elevation; - The side entrances each featuring a door with six fielded panels (with original hardware), stone sill and moulded architrave, with semi-circular fanlight above, approached via stone steps and landing with curved wrought iron rail with newel set into 'return' of first step. Key heritage attributes of the interior include: - the symmetrical Beaux-Arts footprint and floor plan; - the true cardinal point orientation of the halls and straight-line relationship between the main entrance and the memorial wall; - the open two storey volume of the main hall and mezzanine with groin vaulted ceiling featuring the marble stair with swan necked bronze rail, tapered newels and alternating baluster types accented with floral motifs at every second baluster; - the relationship of the main stair landing to the Palladian window with fluted marble colonnade surround; - the chamfered marble cladding and flooring of the hall; - the compass rose of coloured marble inlaid in the marble floor; - the 'lantern' type light fixture suspended from the apex of the cross vault; the patterned cast bronze vent covers; - the Greek key pattern in marble carried around the Hall at 2nd storey floor level; - the unifying use of decoration in marble, wood .and bronze including the patera (spiral disc) and the stylized floral patera carried from the exterior; - the pilastered entry to the memorial space at the center of the cross hall from the north, south and west; - the fine jointed marble wall cladding and marble flooring of the dedication area; - the marble memorial bench; - the incised and gold-leafed dedication panel with red marble border; - the terrazzo flooring and brick wall finish at the remaining sections of the cross hall; - the barrel vaulted ceiling of the cross hall; - the original entrances to the rooms off the cross hall with transoms above the door openings;	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				- the bronze framed panels along the walls of the cross hall designed to display images of astronomical phenomena illuminated with back-lighting; - the acorn light fixtures in the cross halls and Lecture Room; - all the finishes and features of the Library including: the plastered cornice, frieze with dentillation and fluting accented by a raised floral motif, pilastered fireplace surround with dentillated mantel and black marble at the firebox face and hearth, the paneled walls, built-in book shelves and display cabinet, the doors composed of three major panels with the top and bottom panels decorated with a patera (spiral disc motif) and architraves with gold leafed um motif accenting the comers, the two original suspended bronze chandeliers; - the original raised dais, slate chalkboard in the Lecture Room; - the typical door type of six 'frosted' lights above two panels, simple wood entablature (from office side), patera centered on the lower panel and original bronze hardware; - the parquet flooring of the offices and Library; - the colonnade treatment which defines the mezzanine area with plaster wall finish between; - the doors with two large panels, each with patera at the bathroom entry - marble stalls and terrazzo floors at the bathrooms; - the 'Donor's Room', originally the office/reception space of Jessie Dunlap, finished with a marble fireplace with moulded and dentillated wood surround, moulded chair rail, base, plaster cornice and parquet floors; - the original built-in wood cabinets at the technical and shop areas; - the observatory domes including: their pulley rotation and shutter retraction systems; the 24" c.1960 telescope in the centre dome and most particularly the 19" telescope built by C.A. Chant's astronomical colleague at University of Toronto, R.K. Young in 1929. (d) the elliptical island within the driveway with paving designed to represent Kepler's 2nd Law of Planetary Motion and wallrway/axis through the center from sun dial to Observatory Building. The island, along with the curved hedge, flagpole and plantings around the Administration Building represent a 1950s attempt to realize something of the grand scheme originally envisaged for the site and continued the compass and cosmological orientation established from the outset. The following are the cultural attributes which express the associative/historical values of the Property: (a) landscape features such as the former lane to Yonge Street, the line of mature spruce which screen Elms Lea, the vestigial orchard to the south of the house, the row of hickories between the house yard and the field, the line of maples to the north of the lane and the old field pattern, which, along with Elms Lea itself, represent the 19th century Marsh farmstead era of the property;	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				(b) Elms Lea c.1864, the Alexander Marsh family residence throughout the latter half of the19th century, which, with the transformation of the site into the DDO in 1935, became Observatory House, the home of C.A. Chant, 'the father of Canadian Astronomy' and the visionary behind the creation of the DDO; (c) the Observatory Building (originally known as the Great Telescope Dome) from which major discoveries of international importance were made including Helen Hogg's work on variable stars in globular clusters and C.T. Bolton's investigation of Cygnus X-1 as a black hole. The Observatory Building and especially the telescope also represents an important period in the development of astronomy in Canada and particularly at the University of Toronto -a period in which astronomy grew from its infancy as a faculty to where major world class discoveries were being made, the best known of which being the confirmation of 'black holes' by C.T. Bolton; (d) the Radio Shack from which the determination of the absolute flux density of Cas A at 320 MHz was made; (e) the original components which comprised the DDO at its initiation/dedication in 1935 -the Observatory Building (originally known as the Great Telescope Dome), Administration Building and Observatory House (Elms Lea). This event was considered of national importance (attended by the Prime Minister), and indeed throughout the British Empire; (f) the complex overall land pattern within the identified area. Comprised of the original survey grid field pattern overlain with the formal geometry of the Beaux Arts observatory core and the curvilinear road network containing all fields, lawns and plantings; (g) Donald Drive, the curvilinear 'new' approach road named to commemorate the Observatory's patron Jessie Donald Dunlap; and (h) the experimental tree plantation planted by University of Toronto's Dept. of Forestry as representing one of the founding objectives of the facility, i.e., its use by other academic disciplines. The following are the cultural attributes/relationships which express the contextual values of the Property: (a) as a result of its early insertion into the then rural landscape, its unique function and associated architecture, as well as its international reputation, the site is a landmark; (b) the traditional views to the west (toward Yonge Street) from Elms Lea and the Administration Building and the views to the Observatory Building and the Administration Building from the west (though now partially obscured by mature trees) reflecting the visual prominence of the structures sited at (the Observatory Building, the Administration Building) or near (Elms Lea) the top of the knoll; (c) the views from the south to the Observatory Building, particularly along the direct north/south axis which was carried into the Town's design of Observatory Park on the leased 'Panhandle' lands, reflecting its visual prominence having been sited at the top of the knoll; (d) the form of the Town designed Observatory Park, sub-division and adjacent buildings to the south reflecting the influence of the Observatory and its site	

CHR No.	Type	Location	Heritage Recognition	Description of Known or Potential Cultural Heritage Value or Interest (CHVI)	Photographs/Digital Image
				design principles (the lands originally having been surveyed to provide an approach to the Observatory from the south); (e) the traditional relationship of the Observatory to the CNR line; and (f) the traditional relationship of the Observatory to Hillsview Drive, formerly the 'narrow lane' which divided Lot 43 into north and south halves.	



Document Path: D:\PROJECTS\OGTW2005_YNSE\GIS\WK\DC\CULTURAL\DRAFT_11\FIGURE_5_FullInventory_DDP_v11.mxd

LEGEND

- Heritage Plaque
- Study Area Start and End Point
- Proposed Alignment
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 55 110 220 330 440 550 Metres

NOTES:
- Imagery Courtesy of ESRI Clarity Online Basemap service. Scene date is July 2018.
- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

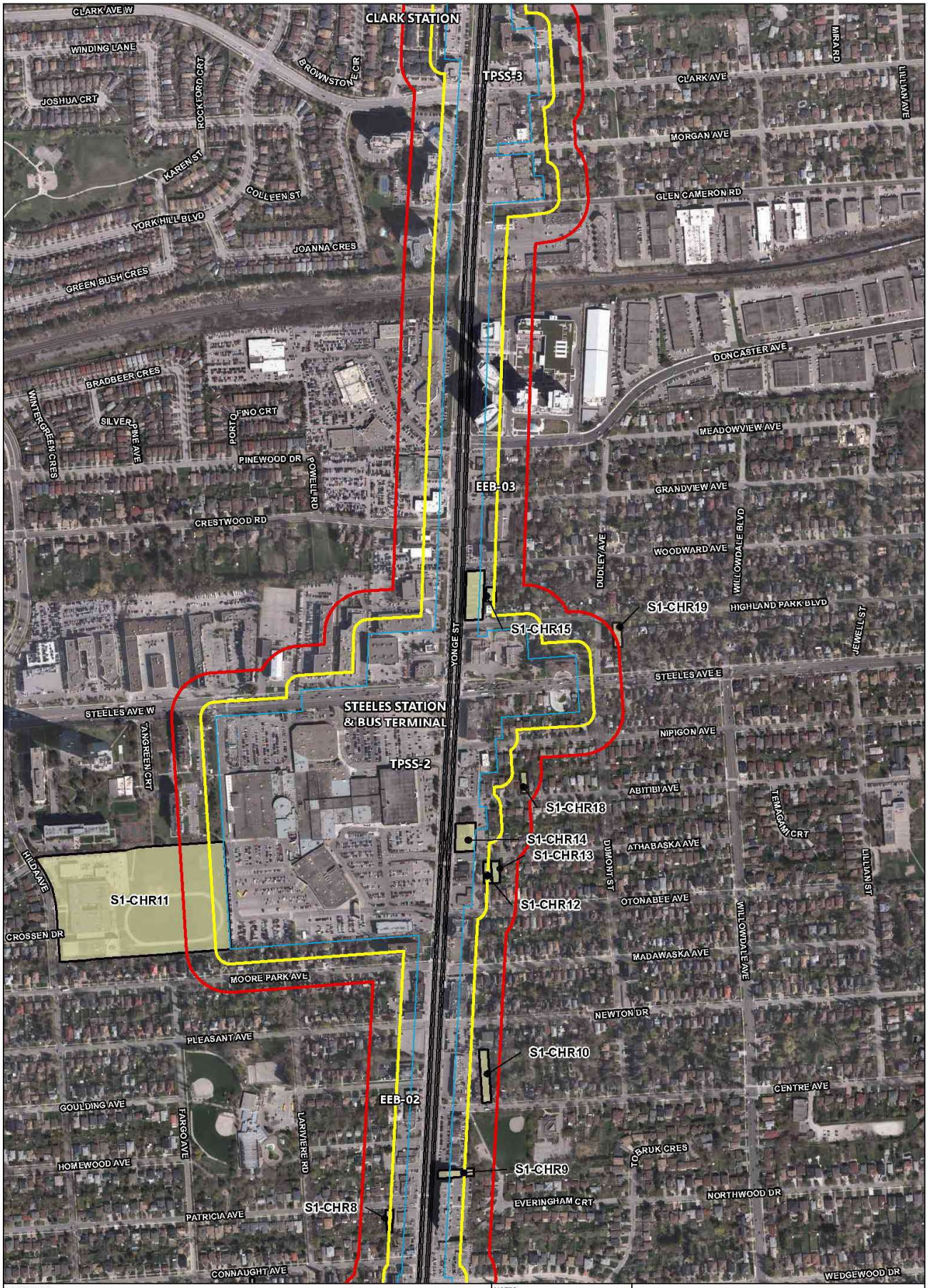
METROLINX

One

CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1A
SCALE: 1:4,000	DATE: Dec 2021



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LEGEND

- Proposed Alignment
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 87.5 175 350 525 700 875 Metres

NOTES:
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- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

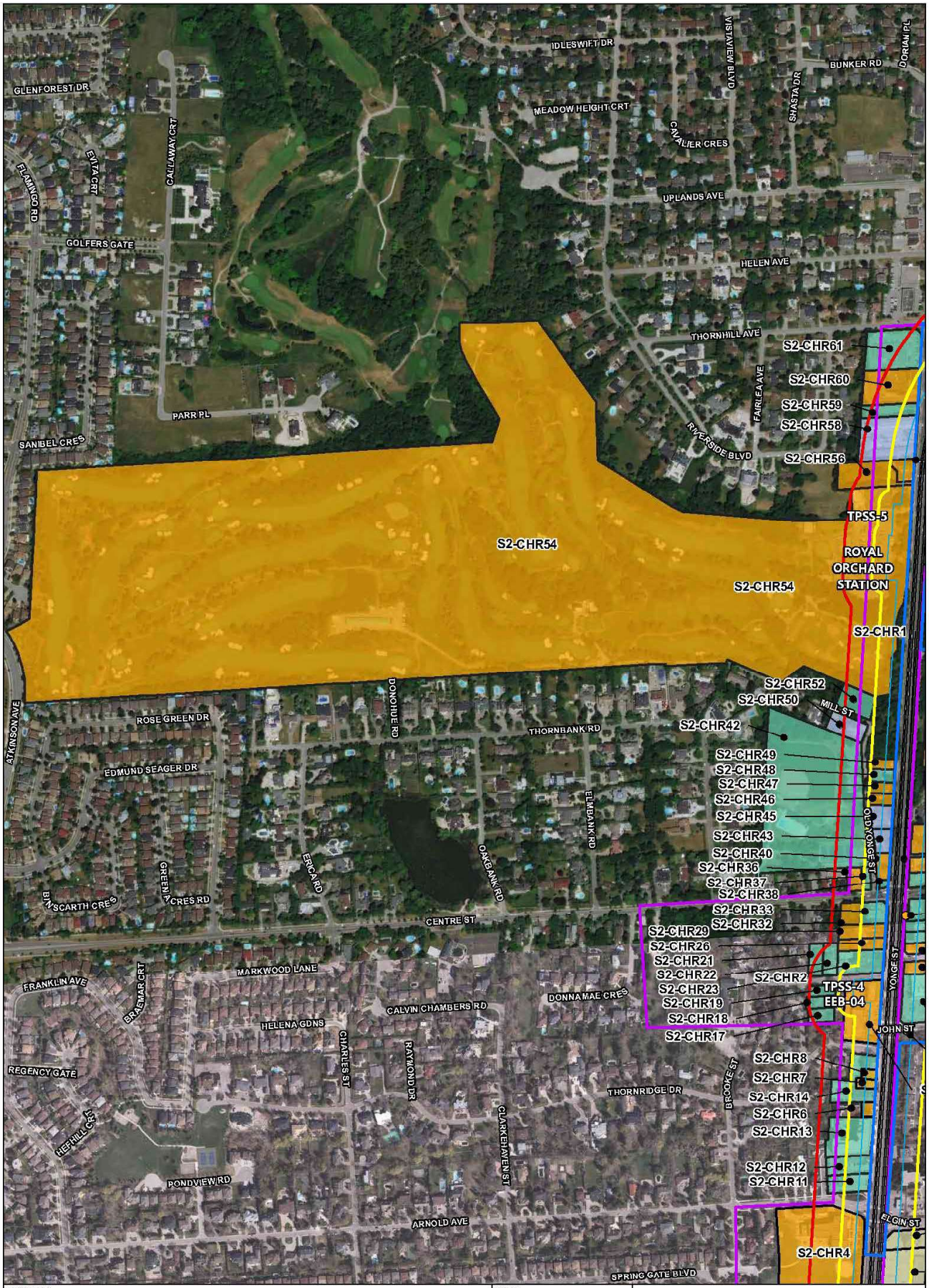
Datum: NAD83
Projection: MTM Zone 10N

METROLINX

CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1B
SCALE: 1:6,000	DATE: Dec 2021



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LEGEND

- Heritage Plaque
- Proposed Alignment
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Markham Thornhill HCD - Designated Part V of the OHA
- Vaughan Thornhill HCD - Designated under Part V of the OHA
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 87.5 175 350 525 700 875 Metres

NOTES:
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- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

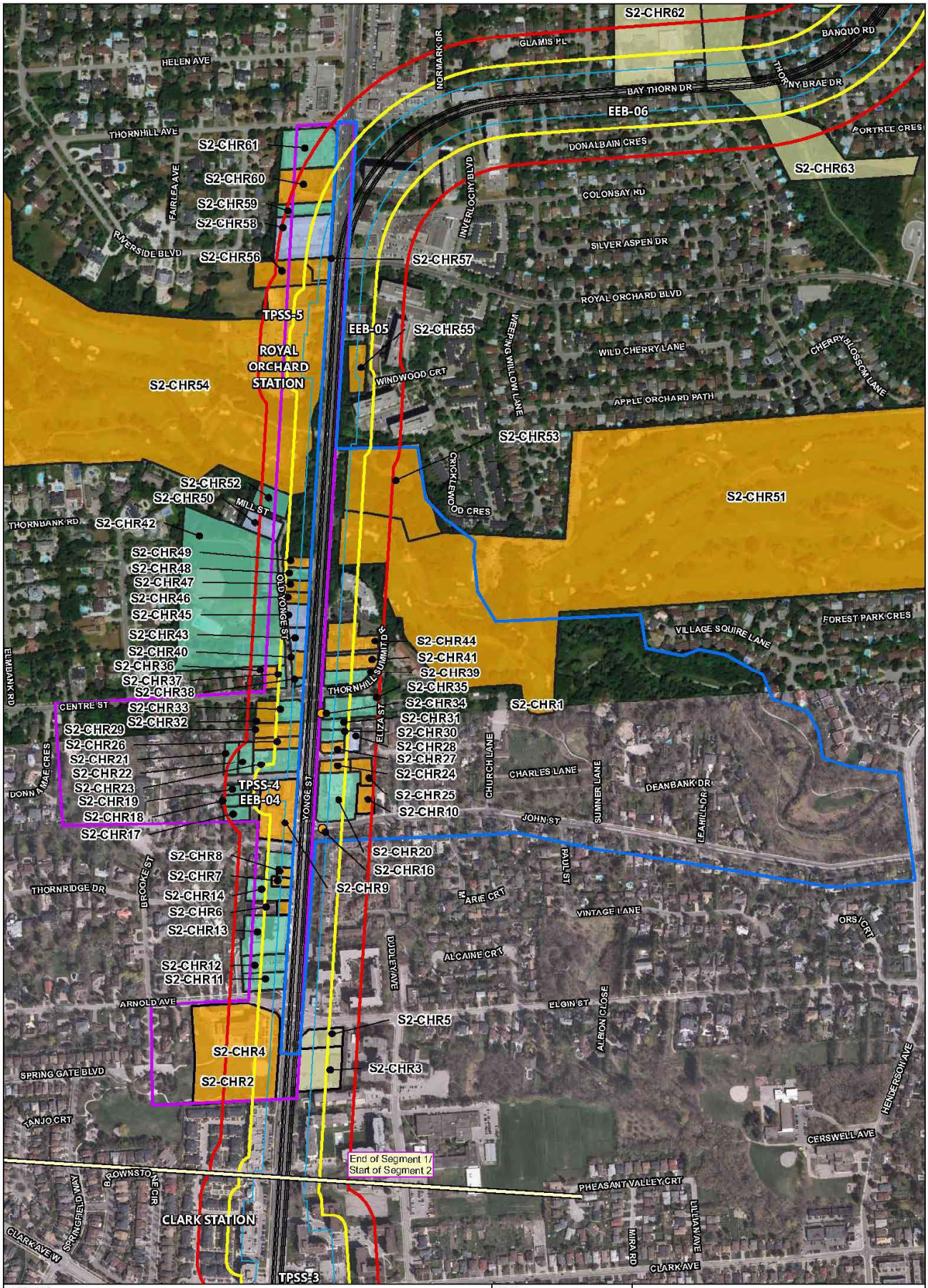
METROLINX

One

CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1C
SCALE: 1:6,000	DATE: Dec 2021



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LEGEND

- Heritage Plaque
- Proposed Alignment
- Study Area Segment Breakline
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Markham Thornhill HCD - Designated Part V of the OHA
- Vaughan Thornhill HCD - Designated under Part V of the OHA
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 87.5 175 350 525 700 875 Metres

NOTES:
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- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

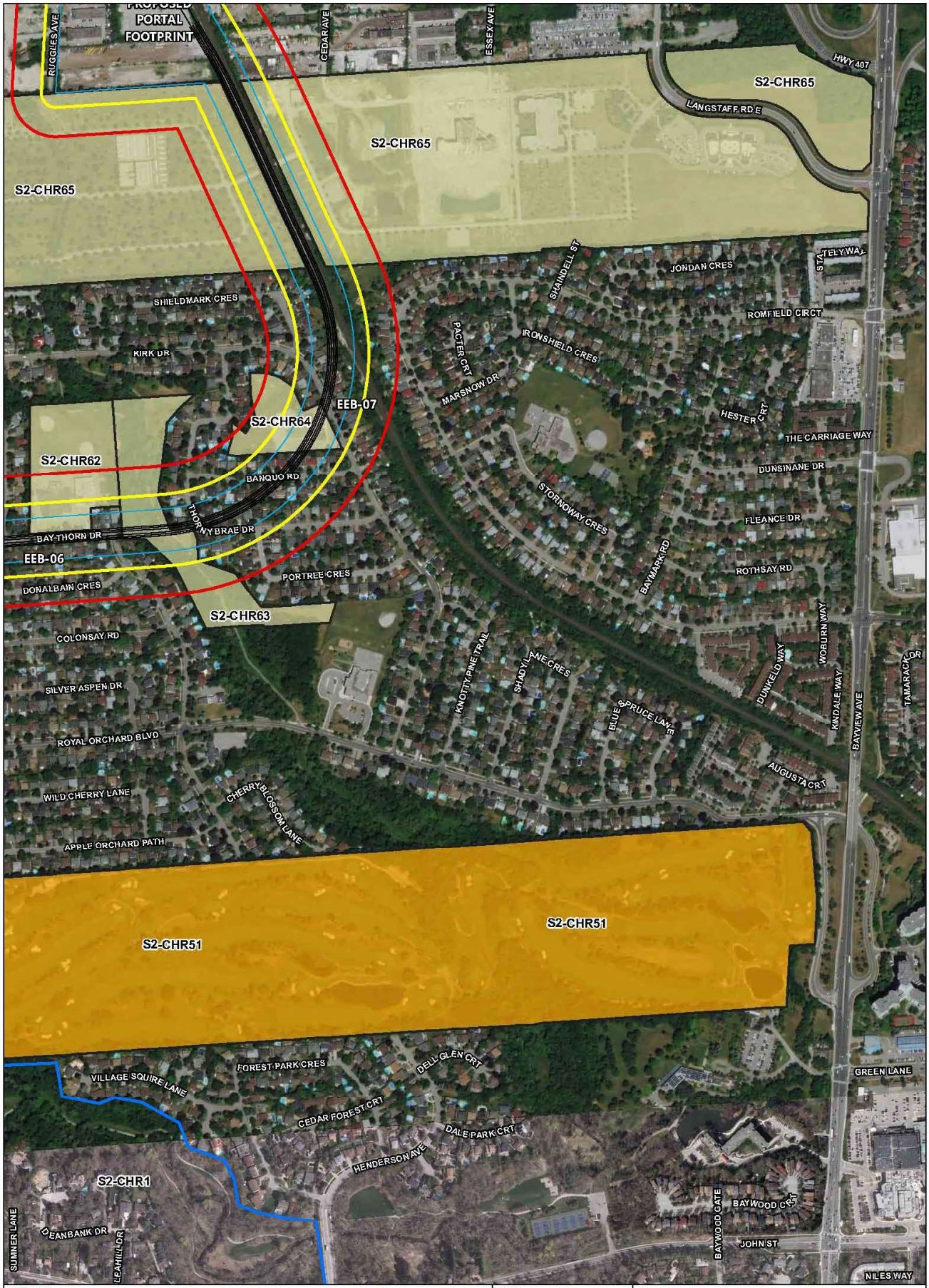
METROLINX

CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005 | FIGURE: A 5-1D

SCALE: 1:6,000 | DATE: Dec 2021



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LEGEND

- Proposed Alignment
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Markham Thornhill HCD - Designated Part V of the OHA
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 87.5 175 350 525 700 875 Metres

NOTES:
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- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

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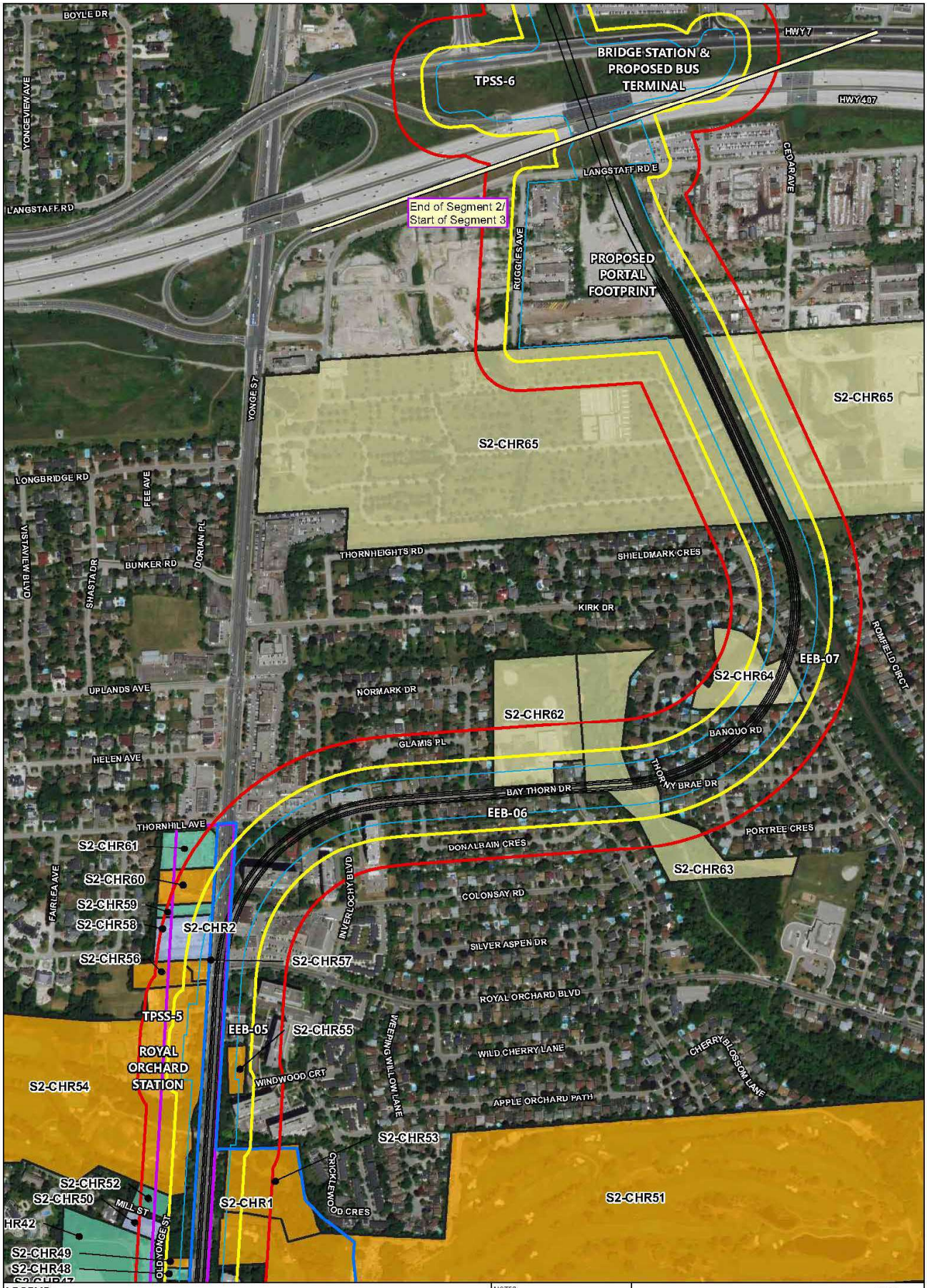
CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1E
SCALE: 1:6,000	DATE: Dec 2021



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LEGEND

- Proposed
- Study Area Segment
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Markham Thornhill HCD - Designated Part V of the OHA
- Vaughan Thornhill HCD - Designated under Part V of the OHA
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 87.5 175 350 525 700 875 Metres

NOTES:
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- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

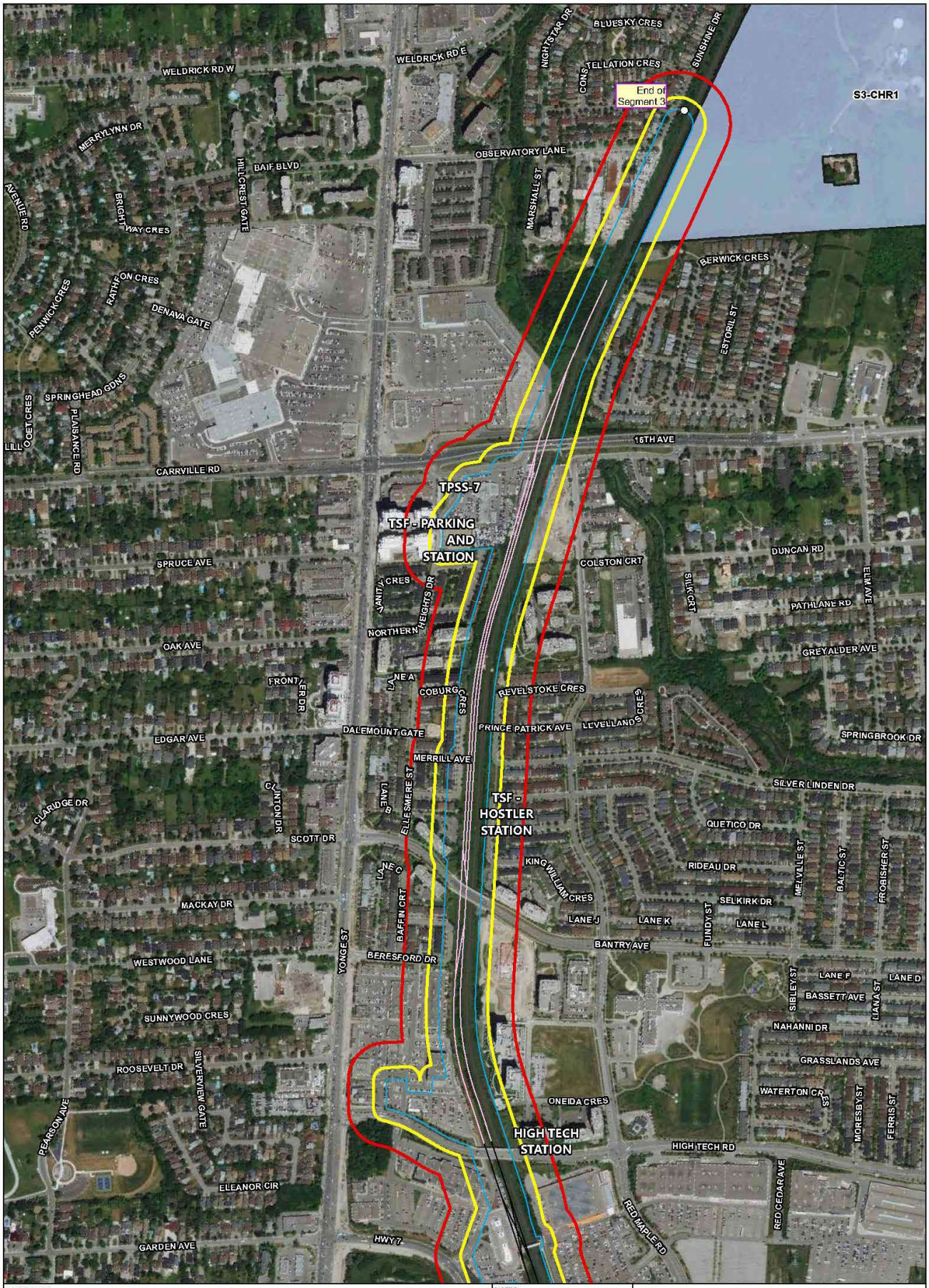
METROLINX

One

CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1F
SCALE: 1:6,000	DATE: Dec 2021



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LEGEND

- Study Area Start and End
- Proposed
- Proposed Train Storage Facility
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 100 200 400 600 800 1,000 Metres

NOTES:
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- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

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CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1G
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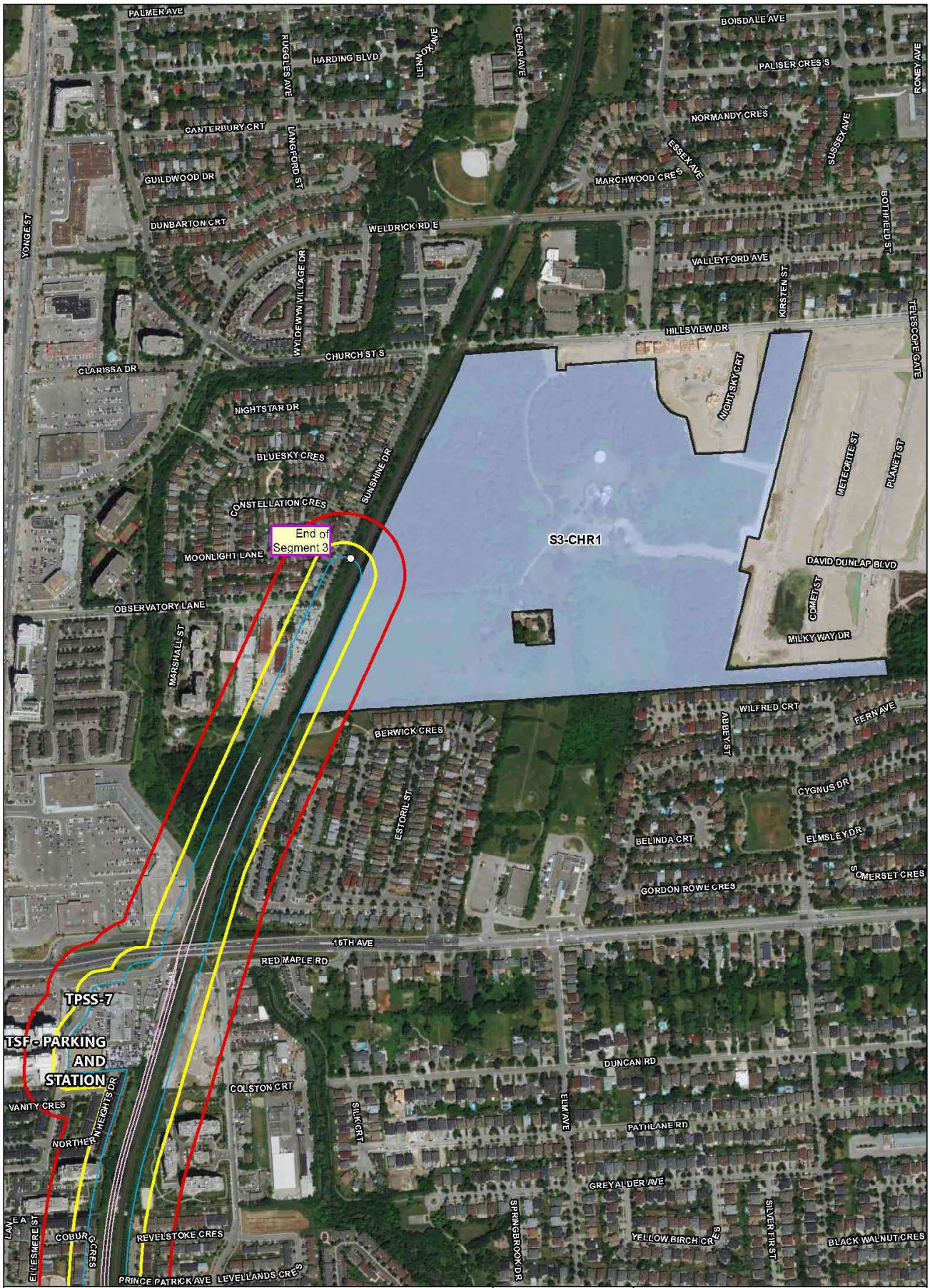

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LEGEND

- Study Area Start and End
- Proposed Train Storage Facility
- Project Footprint
- 25 Metre Study Zone
- 50 Metre Study Zone
- Inventoried Property

Cultural Heritage Status

- Designated under Part V of the Ontario Heritage Act (Contributing)
- Designated under Part IV of the Ontario Heritage Act
- Listed Heritage Property
- Designated under Part V of the Ontario Heritage Act (Non-contributing)
- Previously Identified
- Identified During Field Review

0 87.5 175 350 525 700 875 Metres

NOTES:
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- All other data acquired through various Open Source Online Open Data Catalogues
- Study area located in Town of Aurora

Datum: NAD83
Projection: MTM Zone 10N

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CULTURAL HERITAGE REPORT: YONGE NORTH SUBWAY EXTENSION PROJECT

Inventory of Built Heritage Resources and Cultural Heritage Landscapes

PROJECT N°: OGTW2005	FIGURE: A 5-1H
SCALE: 1:6,000	DATE: Dec 2021

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PART B – YNSE EPR ADDENDUM PRELIMINARY IMPACT ASSESSMENT

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APPENDICES

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B 1.0 Purpose

The purpose of this section is to document the cultural heritage impact assessment that was carried out as part of the Yonge North Subway Extension (YNSE) EPR Addendum, including identification of potential impacts, a description of proposed avoidance/mitigation/compensation measures (if required), and monitoring activities.

B 2.0 Methodology

B 2.1 Impact Assessment Criteria

The MHSTCI (2017) *Standards & Guidelines for Conservation of Provincial Heritage Properties–Information Bulletin 3: Heritage Impact Assessment for Provincial Heritage Properties (Information Bulletin 3)* and the MHSTCI (2019) guidance document titled *MTCS Sample Tables and Language for "Cultural Heritage Report: Existing Conditions and Preliminary Impact Assessment" and Environmental Project Reports (EPR) under Transit Project Assessment Process (TPAP) for Proponents and their Consultants* gives guidance on the how to complete cultural heritage impact assessments for public bodies prescribed under the *Ontario Heritage Act*, such as Metrolinx (Government of Ontario 2014). The purpose of the impact assessment is to identify and assess the proposed activity to determine impacts (positive or negative, direct or indirect) that the proposed activity may have on the cultural heritage value or interest (CHVI) of identified built heritage resources and cultural heritage landscapes. For the purpose of this document, an impact is a change in an identified cultural heritage resource resulting from a particular activity (MHSTCI 2019). In order to make predictions about potential impacts, additional factors were considered, including the scale or severity of impacts, and whether they are to be temporary or permanent, reversible or irreversible (MHSTCI 2019).

For this preliminary impact assessment, the following definitions of direct, indirect, and positive impacts are used:

- **Direct Adverse Impact**: A permanent or irreversible impact that negatively affects the CHVI of a property or results in the loss of one or more heritage attributes on all or part of the property.
- **Indirect Adverse Impact**: An impact that is the result of an activity on or near the property that may adversely affect its CHVI and/or heritage attributes.
- **Positive Impact**: An impact that may positively affect a property by conserving or enhancing its CHVI and/or heritage attributes (Government of Ontario 2017).

As outlined in the 2019 MHSTCI TPAP guidance document, a direct adverse impact would have a permanent and irreversible negative affect on the CHVI of a property or result in the loss of one or more heritage attributes on all or part of the property. Examples of direct adverse impacts include, but are not limited to:

- Removal or demolition of all or part of any heritage attribute.
- Removal or demolition of any building or structure on the property whether or not it contributes to the CHVI of the property (i.e. non-contributing buildings).

- Any land disturbance, such as a change in grade and/or drainage patterns that may adversely affect the property, including archaeological resources.
- Alterations to the property in a manner that is not sympathetic, or is incompatible, with the CHVI of the property. This may include necessary alterations, such as new systems or materials to address health and safety requirements, energy-saving upgrades, building performance upgrades, security upgrades or servicing needs.
- Alterations for access requirements or limitations to address such factors as accessibility, emergency egress, public access, security.
- Introduction of new elements that diminish the integrity of the property, such as a new building, structure or addition, parking expansion or addition, access or circulation roads, landscape features changing the character of the property through the removal or planting of trees or other natural features, such as a garden, or that may result in the obstruction of significant views or vistas within, from, or of built and natural features.
- Change in use for the property that could result in permanent, irreversible damage to, or negate, the property's CHVI.
- Continuation or intensification of the use of a property without prior conservation of its heritage attributes.

An indirect adverse impact would be the result of an activity on or near the property that may adversely affect its CHVI and/or heritage attributes. Examples of indirect adverse impacts include, but are not limited to:

- Shadows that alter the appearance of a heritage attribute or change the visibility of an associated natural feature, or plantings, such as a tree row, hedge or garden.
- Isolation of a heritage attribute from its surrounding environment/context, or from other significant cultural heritage features.
- Vibration damage to a structure due to construction or activities on, or adjacent to, the property.
- Alteration or obstruction of a significant view of, or from, the property from a key vantage point.

Positive impacts are those that may positively affect a property by conserving or enhancing its CHVI and/or heritage attributes. Examples of positive impacts may include, but are not limited to:

- Changes or alterations that are consistent with accepted conservation principles, such as those articulated in MHSTCI's Eight Guiding Principles in the Conservation of Historic Properties, Heritage Conservation Principles for Land Use Planning, Parks Canada's Standards and Guidelines for the Conservation of Historic Places in Canada.
- Adaptive re-use of a property–alteration of a heritage property to fit new uses or circumstances of the property in a manner that retains its CHVI.
- Public interpretation or commemoration of the heritage property.

The results of the preliminary impact assessment are presented in **Section B 3.0** of this report.

B 2.2 Methodology

The cultural heritage existing conditions information was used as the basis from which the potential impacts (positive or negative, direct or indirect) of constructing, operating and maintaining the Project were identified.

A four-step process was followed to assess potential impacts associated with the Project and to identify mitigation measures and monitoring activities (as required):

- **Step 1** – Identify potential impacts resulting from the construction and operation of the Project;
- **Step 2** – Establish mitigation measures to eliminate or reduce potential adverse effects, as well as monitoring activities to verify and validate that mitigation measures are functioning effectively;
- **Step 3** – Carry out consultation with stakeholders/regulatory authorities; update impact assessment results and/or proposed mitigation and monitoring measures as appropriate; and,
- **Step 4** – Document impact assessment results.

For the purposes of differentiating the various types of potential environmental impacts associated with the Project, impacts were characterized and grouped as follows:

Table B 2-1 Characterization of Potential Impacts

Type	Description
Construction Impacts	• Potential temporary impacts (e.g., disruption/disturbance) to existing Study Area features or receptors due to construction activities associated with the Project (e.g., construction of new tracks, tunnelling, and bridge modifications).
Operations and Maintenance Impacts	• Potential permanent impacts to existing Study Area features (i.e., displacement or removal) or receptors due to operations and/or maintenance activities associated with the Project (e.g., operation of the new subway system/trains and operation of train storage facility).

The impact assessment outlined in this report was based on the project design available at the time of authoring this report (see Section B 3.0 for description of project components and APPENDIX A for project component depictions). Following the impact assessment, mitigation measures and vibration monitoring activities were identified to avoid or reduce project impacts based on a combination of general best management practices and Project-specific mitigation measures, as appropriate. As a conservative approach, a range of potential impacts on known and potential built heritage resources and cultural heritage landscapes was identified where specific direct or indirect impacts are not known at this time. In such cases, the potential impacts and associated mitigation recommendations have been categorized based on the nature of the impact; and, for each such potentially affected property, this report outlines a range of alternative mitigation options ordered from most (presented first in each property-specific entry) to least preferred (presented last in each property-specific entry). Potential impacts will be refined/confirmed as part of the Project detailed design, and the corresponding mitigation measures will be implemented. As part of this

process, mitigation measures may be refined, subject to any required technical studies to be undertaken and/or consultation with the MHSTCI, Ontario Heritage Trust and/or the municipalities, as outlined in Section B 3.0 below.

B 2.3 Mapping

The GIS mapping database initially prepared during the existing conditions phase was updated and augmented with additional data collected and updated mapping was prepared to assist in the analysis of potential effects. The locations of identified built heritage resources and cultural heritage landscapes in relation to proposed work are provided in **Figure A 5-1 (A-H)** (See **Section A.5.3** in Baseline Conditions section of report).

B 3.0 Impact Assessment

Detailed designs for Project components such as Stations and Emergency Exit Buildings (EEBs) were still under development at the time of preparing the EPR Addendum and this report. As a result, impact assessment followed a conservative approach described in Section B 2.2 above. This impact assessment is based on the conceptual designs contained in APPENDIX A.

B 3.1 Segment 1 – Finch Station to Clark Station

The preliminary impact assessment to evaluate the potential impacts of the proposed work on potential and known built heritage resources and cultural heritage landscapes in Segment 1 is contained in **Table B 3-1**. This table also contains proposed mitigation measures, including vibration monitoring and recommendations for further cultural heritage reporting. The impact assessment is based on conceptual designs and therefore presents a range of anticipated impacts, mitigation options, and mitigation measures for Segment 1 of the Study Area.

Segment 1 of the Study Area starts at the existing Finch Station and traverses northward to Clark Station. This segment is inclusive of Clark Station and also includes the proposed Cummer Station, Cummer Station Bus Loop, Steeles Station, and Steeles Station Bus Terminal. **Figure A 5-1 (A-H)** provides an overview of the infrastructure proposed in this segment in relation to identified built heritage resources and cultural heritage landscapes.

B 3.1.1 Description of Proposed Work

The proposed infrastructure in Segment 1 includes, but is not limited to:

- Below grade subway alignment from (from approximately 70 metres south of Finch Avenue West to 190 metres north of Clark Avenue West)
- Finch Station Modifications
- Below grade transition box structure along Talbot Road (south of Charleton Boulevard)
- Emergency Exit Building-01 (EEB-01)
- Traction Power Substation-01 (TPSS-01)
- Cummer Station and Proposed Bus Loop
- EEB-02
- Steeles Station, Proposed Bus Terminal and Ancillary Features
- TPSS-02
- EEB-03
- Clark Station, Proposed Bus Station and Ancillary Features (Options 1 and 2)
- TPSS-03

Table B 3-1 Preliminary Impact Assessment and Mitigation Measures for Built Heritage Resources and Cultural Heritage Landscapes in Segment 1

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S1-CHR1	15 Olive Avenue, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR1 and may include: -Proposed below-grade subway alignment located approximately 150+ m north-northwest of S1-CHR1.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR1 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR1, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR2	5643-5647 Yonge Street, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR2 and may include: -Proposed below-grade subway alignment located approximately 10 m west of S1-CHR2.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR2 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR2, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S1-CHR3	5800 Yonge Street, City of Toronto	Identified during field review	Based on the current conceptual design, project components in the vicinity of S1-CHR3 and may include: -Construction of EEB-01 within, or adjacent to, S1-CHR3. -Construction of TPSS-1 within, or adjacent to, S1-CHR3. -Proposed below-grade subway alignment 10 m east of S1-CHR3.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR3 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes of the property, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Modification of the building to fit a new use.	i. **Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes of the property. For option C, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
				technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	**i. Preferred Option D:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration of the property (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
			E. Relocation of all or part of the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation -During Design, incorporate commemoration signage in consultation with City of Toronto Heritage Preservation Services, to communicate the cultural heritage value of the relocated structure on the property to the public.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			F. Demolition of all or part of the building.	i. **Preferred Option F:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During design, incorporate commemoration signage in consultation with City of Toronto's Heritage Preservation Services, to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR3, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR4	51 Drewry Avenue, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR4 and may include: -Construction of proposed bus loop approximately 15 m north-northwest of S1-CHR4.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR4 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR4, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR5	70 Drewry Avenue, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR5 and may include: -Construction of proposed bus loop approximately 10 m east of S1-CHR5.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR5 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR5, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and, -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR6	5926 Yonge Street, City of Toronto	Listed on the City of Toronto Municipal Heritage Register.	Based on the current conceptual design, project components in the vicinity of S1-CHR6 and may include: -Construction of Cummer Station within, or adjacent to, S1-CHR6. -Proposed below-grade subway alignment 10 m east of S1-CHR6.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR6 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Consult with the City of Toronto as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option A.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the building, (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Modification of the building to fit a new use.	i. **Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C**: a. If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Consult with the City of Toronto as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option C. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute	**i. Preferred Option D:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.
			E. Relocation of all or part of the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, incorporate commemoration signage in consultation with City of Toronto Heritage Preservation Services, to communicate the cultural heritage value of the relocated structure on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI, a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister's approval.
			F. Demolition of all or part of the building.	i. **Preferred Option F:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required:

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
				-Consult with City of Toronto Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -Complete an interpretation/commemoration Strategy framework in consultation with the City of Toronto Heritage Preservation Services. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR6, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** if vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions of the building to determine if the structure is vulnerable to vibration impacts -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR7	5925 Yonge Street, City of Toronto	Previously identified as potential built heritage resource by Unterman McPhail Associates (2009).	Based on the current conceptual design, project components in the vicinity of S1-CHR7 and may include: -Construction of Cummer Station within, or adjacent to, S1-CHR7. -Proposed below-grade subway alignment 10 m west of S1-CHR7.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR7 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes of the property, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. - Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Modification of the building to fit a new use.	i. **Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes of the property. For Option C, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	**i. Preferred Option D:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
			E. Relocation of all or part of the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation -During Design, incorporate commemoration signage in consultation with City of Toronto Heritage Preservation Services, to communicate the cultural heritage value of the relocated structure on the property to the public.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			F. Demolition of all or part of the building.	i. **Preferred Option F:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER, HIA, or SCP. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During design, incorporate commemoration signage in consultation with City of Toronto's Heritage Preservation Services, to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR7, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR8	15 Patricia Avenue, City of Toronto	Listed on the City of Toronto Heritage Register	Based on the current conceptual design, project components in the vicinity of S1-CHR8 and may include: -Proposed below-grade subway alignment located approximately 50 m east of S1-CHR8.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR8 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR8, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions of the building to determine if the structure is vulnerable to vibration impacts; -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR9	6075 Yonge Street, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR9 and may include: -Proposed below-grade subway alignment located approximately 20 m west of S1-CHR9.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR9 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR9, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR10	12 Centre Avenue, North York	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR10 and may include: -Proposed below-grade subway alignment located approximately 80 m west of S1-CHR10.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR10 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR10, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR11	155 Hilda Avenue, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR11 and may include: -Proposed bus terminal and ancillary features proposed approximately 250+ m from S1-CHR11.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR11 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
S1-CHR12	15 Athabaska Ave, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR12 and may include: -Proposed below-grade subway alignment located approximately 60 m west of S1-CHR12.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR12 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR12, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR13	17 Athabaska Ave, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR13 and may include: -Proposed below-grade subway alignment located approximately 75 m west of S1-CHR13.	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			1. No anticipated impacts from the Project	
			No impact: S1-CHR13 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR13, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR14	6301-6313 Yonge Street, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR14 and may include: -Proposed below-grade subway alignment located approximately 10 m west of S1-CHR14.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR14 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR14, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR15	7039-7071 Yonge Street, City of Markham	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR15 and may include: -Proposed below-grade subway alignment located approximately 10 m west of S1-CHR15.	
			1. No anticipated impacts from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			No impact: S1-CHR15 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR15, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR16	40-48 Hendon Avenue, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR16 and may include: -Proposed Finch Station modifications within approximately 50 m of S1-CHR16. -Proposed below-grade subway alignment 250+ m east of S1-CHR16.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR16 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR16, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR17	Hendon Park, 50 Hendon Ave, City of Toronto	Identified during field review.	**Based on the current conceptual design, project components in the vicinity of S1-CHR17 and may include:** -Proposed Finch Station modifications within S1-CHR17.	
			1. No anticipated impacts from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			No impact: S1-CHR17 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes of the property, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. - Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	**i. Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the property and Options A and B are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Toronto's Heritage Preservation Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building located in Hendon Park related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR17, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR18	20 Abititi Ave, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR18 and may include: -Proposed construction of Steeles Station and TPSS-2 approximately 115 m west of S1-CHR18.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR18 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S1-CHR18, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S1-CHR19	39 Highland Park Boulevard, City of Markham	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR19 and may include: -Proposed below-grade subway alignment located approximately 250+ m west of S1-CHR19.	
			1. No anticipated impacts from the Project	
			No impact: S1-CHR19 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
S1-CHR20	Plaque located at 43 Drewry Avenue, City of Toronto	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S1-CHR20 and may include: -Construction of proposed bus loop approximately 15 m north of S1-CHR20.	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			1. No anticipated impacts from the Project	
			No impact: S1-CHR20 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the plaque.

B 3.2 Segment 2 – Clark Station to Portal/Launch Shaft

The preliminary impact assessment to evaluate the potential impacts of the proposed work on built heritage resources and cultural heritage landscapes in Segment 2 is contained in **Table B 3-2**. This table also contains proposed mitigation measures and recommendations for further work. The impact assessment is based on conceptual designs and therefore presents a range of anticipated impacts, mitigation options, and mitigation measures for Segment 2 of the Study Area.

Segment 2 Study Area starts just beyond the limits of Clark Station and extends northward to the proposed portal structure and launch shaft location, just south of Langstaff Road East within the Town of Markham and City of Vaughan. It should be noted that this segment is inclusive of the entirety of the proposed portal and launch shaft footprint area, extending north to the proposed Bridge Station and west from the CN rail corridor towards Ruggles Avenue. It also includes the proposed Royal Orchard Station. **Figure A 5-1** (**A-H)** provides an overview of the infrastructure proposed in this segment in relation to identified built heritage resources and cultural heritage landscapes.

3.2.1 Description of Proposed Work

The proposed infrastructure in Segment 2 includes, but is not limited to:

- Below grade subway alignment from approximately 190 metres north of Clark Avenue to approximately 300 metres south of Highway 407
- Emergency Exit Building (EEB-4)
- Traction Power Substation (TPSS-4)
- Royal Orchard Station
- Emergency Exit Building (EEB-5)
- Traction Power Substation (TPSS-5)
- Emergency Exit Building (EEB-6)
- Emergency Exit Building (EEB-7)
- TBM Launch Shaft
- At grade subway alignment from approximately 300 metres south of Highway 407 to Highway 407

Table B 3-2 Preliminary Impact Assessment and Mitigation Measures for Built Heritage Resources and Cultural Heritage Landscapes in Segment 2

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR1	Thornhill Markham HCD, City of Markham	Designated under Part V of the *Ontario Heritage Act*.	**Based on the current conceptual design, project components in the vicinity of S2-CHR1 include:** - Construction of EEB-4 and TPSS-4 within the HCD. -Proposed below-grade subway alignment located within the HCD. -Construction of EEB-5 and TPSS-5 within the HCD. -Construction of Royal Orchard Station within the HCD.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR1 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the HCD.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment into the HCD causing a physical impact, including introduction of new elements to the HCD, alterations to contributing property or diminishment in integrity of the HCD due to the introduction of new elements. Note: The impacts to individual properties within the HCD, including Contributing Properties (listed/Part IV Designated) and Non-Contributing Properties are provided in separate CHR entries.	i. **Preferred Option A:** Avoidance - Design the project to avoid the Thornhill-Markham HCD. ii. **Alternative Option A:** While avoidance of the HCD altogether seems unlikely, the following mitigation measures are required: a. Any encroachment in the HCD resulting in a physical impact, including but not limited to, the demolition or removal of a building, or alterations to the exterior portions of a property visible from the street, then the following is required: -Consult with City of Markham Heritage Services regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. If required, completed any cultural heritage technical studies, such as CHERs and HIAs. -Evaluate and document the existing conditions of a contributing property including the heritage attributes prior to designing alterations. -Record, repair and restore where possible, if elements of the HCD are impacted by the Project -New elements and alteration must be complimentary and subordinate to the cultural heritage value and heritage attributes of the HCD. -If demolition, removal or significant alteration to any building or structure in the HCD is necessary for the Project, this action should be limited to only those buildings that have been identified in the HCD Plan as "non-contributing". Work proposed within non-contributing properties must follow the HCD Plan guidelines. b. In addition, consult the HCD Design Guidelines and follow requirements for alterations to: heritage buildings, non-contributing buildings, new buildings, commercial features and streetscape elements, and landscape features. Proposed work must support and enhance the HCD. -The heritage attributes of properties that are "listed" or designated under Part IV of the *Ontario Heritage Act*, as defined in their respective listing reports or designation by-laws, should be maintained and enhanced in any proposed alteration to the property.
			3. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent To the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR1, including a sufficient buffer (within 250m) between Project components/activities and the buildings within the HCD. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
			B. Obstruction/alteration of views identified in the Thornhill-Markham HCD.	i. **Preferred Option B**: Design the Project to conserve and not obstruct views as identified in the HCD Plan. ii. **Alternative Option B**: If impact on identified views cannot be avoided, then the following is required: -Consult with City of Markham Heritage Services regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. -Limit Impact on identified view corridors by designing new features to blend with the architectural style and landscape aesthetic style of the HCD. Make new additions complimentary to, subordinate to, and distinguishable from the existing landscape (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
S2-CHR2	Thornhill Vaughan HCD, City of Vaughan	Designated under Part V of the *Ontario Heritage Act*.	**Based on the current conceptual design, project components in the vicinity of S2-CHR2 include:** -Construction of EEB-4 and TPSS-4 within the HCD. -Proposed below-grade subway alignment located within the HCD. -Construction of EEB-5 and TPSS-5 within the HCD. -Construction of Royal Orchard Station within the HCD.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR2 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the HCD.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Encroachment into the HCD causing a physical impact, including introduction of new elements to the HCD, alterations to contributing property or diminishment in integrity of the HCD due to the introduction of new elements. Note: The impacts to individual properties within the HCD, including Contributing Properties (listed/Part IV Designated) and Non-Contributing Properties are provided in separate CHR entries.	i. **Preferred Option A**: Avoidance - Design the project to avoid the Thornhill-Markham HCD ii. **Alternative Option A**: While avoidance of the HCD altogether seems unlikely, the following mitigation measures are required: a. Any encroachment in the HCD resulting in a physical impact, including but not limited to, the demolition or removal of a building, or alterations to the exterior portions of a property visible from the street, then the following is required: -Consult with City of Vaughan Cultural Heritage Division regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. If required, completed any cultural heritage technical studies, such as CHERs and HIAs. -Evaluate and document the existing conditions of a contributing property including the heritage attributes prior to designing alterations. -Record, repair and restore where possible, if elements of the HCD are impacted by the Project -New elements and alteration must be complimentary and subordinate to the cultural heritage value and heritage attributes of the HCD. -If demolition, removal or significant alteration to any building or structure in the HCD is necessary for the Project, this action should be limited to only those buildings that have been identified in the HCD Plan as "non-contributing". Work proposed within non-contributing properties must follow the HCD Plan guidelines. b. In addition, consult the HCD Design Guidelines and follow requirements for alterations to: heritage buildings, non-contributing buildings, new buildings, commercial features and streetscape elements, and landscape features. Proposed work must support and enhance the HCD. -The heritage attributes of properties that are "listed" or designated under Part IV of the *Ontario Heritage Act*, as defined in their respective listing reports or designation by-laws, should be maintained and enhanced in any proposed alteration to the property.
			3. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent To the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR2, including a sufficient buffer (within 250m) between Project components/activities and buildings within the HCD. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (Review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
			B. Obstruction/alteration of views identified in the Thornhill-Markham HCD.	i. **Preferred Option B**: Design the Project to conserve and not obstruct views as identified in the HCD Plan. ii. **Alternative Option B**: If impact on identified views cannot be avoided, then the following is required: -Consult with City of Vaughan Cultural Heritage Division regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. -Limit Impact on identified view corridors by designing new features to blend with the architectural style and landscape aesthetic style of the HCD. Make new additions complimentary to, subordinate to, and distinguishable from the existing landscape (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
S2-CHR3	7509 Yonge Street, City of Markham	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S2-CHR3 and may include: -Proposed below-grade subway alignment 65 m west of S2-CHR3.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR3 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR3, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR4	Thornhill Public School, 7554 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR4 include: -Proposed below-grade subway alignment 40 m east of S2-CHR4.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR4 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the Thornhill-Vaughan HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent To the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR4, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR5	7529 Yonge Street, City of Markham	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S2-CHR5 and may include: -Proposed below-grade subway alignment 50 m west of S2-CHR5.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR5 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR5, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR6	7616 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR6 include: -Proposed below-grade subway alignment 10 m east of S2-CHR6.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR6 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the Thornhill-Vaughan HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR6, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR7	7626 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR7 include: -Proposed below-grade subway alignment 10 m east of S2-CHR7.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR7 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the Thornhill-Vaughan HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR7, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR8	7636 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR8 include: -Proposed below-grade subway alignment 10 m east of S2-CHR8.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR8 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the Thornhill-Vaughan HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent To the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR8, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR9	7666 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR9 include: -Proposed below-grade subway alignment 10 m east of S2-CHR9. -Construction of EEB-4 and TPSS-4 within, or adjacent to S2-CHR9.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR9 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the Thornhill-Vaughan HCD in order to determine and obtain any approval or permits required.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes identified in HCD Plan. However, for any physical impact to the property, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. - Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option B:** If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan
			C. Modification of a building to fit a new use.	i. **Preferred Option C: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option C:** If avoidance of the whole property or Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. - Complete Adaptive Reuse Study for the reuse of the building, if appropriate.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute	i. **Preferred Option D: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property or Options A, B, or C are not feasible, and if a physical impact to a heritage attribute cannot be avoided, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. - Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.
			E. Relocation of all or part the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property ii. **Alternative Option E** a. If avoidance of the property and Options A, B, C or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building components should be retained and conserved and/or restored. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the City of Vaughan Cultural Heritage Division. Incorporate commemoration signage to communicate the cultural heritage value of the relocated building on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister approval.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			F. Demolition of all or part of the building.	i. **Preferred Option F: Avoidance** - Design Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the City of Vaughan Cultural Heritage Division. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR9, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural condition of the building to determine if the structure is vulnerable to vibration impacts; -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy of protective measure in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR10	14 John Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR10 include: -Proposed below-grade subway alignment 80 m west of S2-CHR10.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR10 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR10, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR11	7562 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR11 include: -Proposed below-grade subway alignment 50 m east of S2-CHR11.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR11 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR12	7582 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR12 include: -Proposed below-grade subway alignment 25 m east of S2-CHR12.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR12 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR13	7584 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR13 include: -Proposed below-grade subway alignment 10 m east of S2-CHR13.	
			1. No anticipated impacts from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			No impact: S2-CHR13 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR14	7620 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR14 include: -Proposed below-grade subway alignment 15 m east of S2-CHR14.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR14 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR15	7646 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR15 include: -Proposed below-grade subway alignment 15 m east of S2-CHR15.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR15 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR16	Plaque located at the corner of John and Yonge, City of Markham	Located within the Thornhill Markham HCD.	Based on the current conceptual design, project components in the vicinity of S2-CHR16 include: -Proposed below-grade subway alignment 10 m west of S2-CHR16.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR16 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR17	5 Elizabeth Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR17 include: -Proposed below-grade subway alignment 100 m east of S2-CHR17.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR17 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR18	7 Elizabeth Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill	Based on the current conceptual design, project components in the vicinity of S2-CHR18 include: -Proposed below-grade subway alignment 100 m east of S2-CHR18.	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
		Vaughan HCD (Non-Contributing Property).	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR18 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR19	17 Old Jane Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR19 include: -Proposed below-grade subway alignment 100 m east of S2-CHR19.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR19 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR20	7681 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Markham HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR20 include: -Proposed below-grade subway alignment 15 m west of S2-CHR20. -Construction of EEB-4 and TPSS-4 within, or adjacent to S2-CHR20.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR20 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the HCD. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Encroachment or construction within a non-contributing property in the HCD that may cause a physical impact, including introduction of new elements to the HCD or diminishment in integrity of the HCD due to the introduction of new elements.	i. **Preferred Option A**: Avoidance - Design the project to avoid the Thornhill-Markham HCD. ii. **Alternative Option A**: While avoidance of the HCD altogether seems unlikely, the following mitigation measures are required: a. Any encroachment in the HCD resulting in a physical impact, including but not limited to, the demolition or removal of a building, or alterations to the exterior portions of a property visible from the street, then the following is required: -Consult with City of Markham Heritage Services regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. If required, completed any cultural heritage technical studies, such as an HIA. -New elements and alteration must be complimentary and subordinate to the cultural heritage value and heritage attributes of the HCD. -If demolition, removal or significant alteration to any building or structure in the HCD is necessary for the Project, this action should be limited to only those buildings that have been identified in the HCD Plan as "non-contributing". Work proposed within non-contributing properties must follow the HCD Plan guidelines. b. In addition, consult the HCD Design Guidelines and follow requirements for alterations to: non-contributing buildings, new buildings, commercial features and streetscape elements, and landscape features. Proposed work must support and enhance the HCD.
S2-CHR21	23 Elizabeth Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR21 include: -Proposed below-grade subway alignment 120 m east of S2-CHR21.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR21 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR22	12 Old Jane Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR22 include: -Proposed below-grade subway alignment 95 m east of S2-CHR22	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR22 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR23	7700 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill	Based on the current conceptual design, project components in the vicinity of S2-CHR23 include: -Proposed below-grade subway alignment 15 m east of S2-CHR23. -Construction of EEB-4 and TPSS-4 within, or adjacent to S2-CHR23.	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
		Markham HCD (Non-Contributing Property).	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR23 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the HCD. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment or construction within a non-contributing property in the HCD that may cause a physical impact, including introduction of new elements to the HCD or diminishment in integrity of the HCD due to the introduction of new elements.	i. **Preferred Option A**: Avoidance - Design the project to avoid the Thornhill-Markham HCD. ii. **Alternative Option A**: While avoidance of the HCD altogether seems unlikely, the following mitigation measures are required: a. Any encroachment in the HCD resulting in a physical impact, including but not limited to, the demolition or removal of a building, or alterations to the exterior portions of a property visible from the street, then the following is required: -Consult with City of Markham Heritage Services regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. If required, completed any cultural heritage technical studies, such as an HIA. -New elements and alteration must be complimentary and subordinate to the cultural heritage value and heritage attributes of the HCD. -If demolition, removal or significant alteration to any building or structure in the HCD is necessary for the Project, this action should be limited to only those buildings that have been identified in the HCD Plan as "non-contributing". Work proposed within non-contributing properties must follow the HCD Plan guidelines. b. In addition, consult the HCD Design Guidelines and follow requirements for alterations to: non-contributing buildings, new buildings, commercial features and streetscape elements, and landscape features. Proposed work must support and enhance the HCD.
S2-CHR24	7699 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR24 include: -Proposed below-grade subway alignment 10 m west of S2-CHR24. -Construction of EEB-4 and TPSS-4 within, or adjacent to S2-CHR24.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR24 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes.	i. **Preferred Option A: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes identified in HCD Plan. However, for any physical impact to the property, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes.	i. **Preferred Option B: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan
			C. Modification of a building to fit a new use.	i. **Preferred Option C: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the whole property or Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute	i. **Preferred Option D: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property or Options A, B, or C are not feasible, and if a physical impact to a heritage attribute cannot be avoided, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.
			E. Relocation of all or part the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building components should be retained and conserved and/or restored. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the City of Markham Heritage Services. Incorporate commemoration signage to communicate the cultural heritage value of the relocated building on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister approval.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			F. Demolition of all or part of the building.	i. **Preferred Option F: Avoidance** - Design Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the City of Markham Heritage Services. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR24, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural condition of the building to determine if the structure is vulnerable to vibration impacts; -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration; o Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy of protective measure in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR25	11 Colborne Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR25 include: -Proposed below-grade subway alignment 85 m west of S2-CHR25.	
			1. No anticipated impacts from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			No impact: S2-CHR25 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR25, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR26	W.D. Stark House, 7724 Yonge Street, City of Vaughan	Designated under Part V of the O*ntario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR26 include: -Proposed below-grade subway alignment 15 m east of S2-CHR26.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR26 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR26, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR27	7707 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR27 include: -Proposed below-grade subway alignment 15 m west of S2-CHR27.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR27 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR27, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR28	10 Colborne Street; The Ellen Ramsden House (Thornhill Village Library), City of Markham	Designated under Part IV and V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR28 include: -Proposed below-grade subway alignment 55 m west of S2-CHR28.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR28 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR28, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR29	7724 Yonge Street (Francis Block) , City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR29 include: -Proposed below-grade subway alignment 15 m east of S2-CHR29.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR29 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR29, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR30	7711-7715 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR30 include: -Proposed below-grade subway alignment 10 m west of S2-CHR30.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR30 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR31	7719-7725 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR31 include: -Proposed below-grade subway alignment 10 m west of S2-CHR31	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR31 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR32	19 Centre Street, Robert Shuter House, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR32 include: -Proposed below-grade subway alignment 60 m east of S2-CHR32.	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR32 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR32, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR33	7738 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing).	Based on the current conceptual design, project components in the vicinity of S2-CHR33 include: -Proposed below-grade subway alignment 20 m east of S2-CHR33.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR33 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR34	Plaque near corner of Yonge Street and Centre Street, City of Vaughan	n/a	Based on the current conceptual design, project components in the vicinity of S2-CHR34 include: -Proposed below-grade subway alignment 10 m west of S2-CHR34	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR34 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR35	7751 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR35 include: -Proposed below-grade subway alignment 30 m west of S2-CHR35.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR35 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR36	Mason Cogswell House, 18 Centre Street, City of Vaughan	Designated under Part V of the O*ntario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR36 include: -Proposed below-grade subway alignment 55 m east of S2-CHR36.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR36 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property <u>However, note:</u> Consult with City of Vaughan Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR36, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR37	12 Centre Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR37 include: -Proposed below-grade subway alignment 40 m east of S2-CHR37.	
			1. No anticipated impacts from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			No impact: S2-CHR37 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR38	Public/Municipal Parkette, northwest intersection of Centre Street and Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR38 include: -Proposed below-grade subway alignment 5 m east of S2-CHR38.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR38 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the structures in the Parkette related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR38, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR39	7765 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill-Markham HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR39 include: -Proposed below-grade subway alignment 5 m west of S2-CHR39.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR39 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR40	7756 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR40 include: -Proposed below-grade subway alignment 10 m east of S2-CHR40.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR40 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the structures in the Parkette related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR40, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR41	Robert A. West General Store, 7775/7771 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class B" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR41 include: -Proposed below-grade subway alignment 15 m west of S2-CHR41.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR41 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR41, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR42	Thornhill Park, 26 Old Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing).	Based on the current conceptual design, project components in the vicinity of S2-CHR42 include: -Proposed below-grade subway alignment 60 m east of S2-CHR42.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR42 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR43	Robert West House, 7780 Yonge Street, City of Vaughan	Designated under Part IV and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR43 include: -Proposed below-grade subway alignment 10 m east of S2-CHR43.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
		Protected by an Ontario Heritage Trust Heritage Conservation Easement Agreement (HCEA).	No impact: S2-CHR43 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division and the Ontario Heritage Trust as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR43, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR44	7787 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR44 include: -Proposed below-grade subway alignment 15 m west of S2-CHR44.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR44 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR44 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

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S2-CHR45	Thornhill Methodist Church, 7788 Yonge Street, City of Vaughan	Designated under Part IV and V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR45 include: -Proposed below-grade subway alignment 15 m east of S2-CHR45.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR45 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR45 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. if damage is identified, then implement additional corrective steps.
S2-CHR46	7802 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR46 include: -Proposed below-grade subway alignment 15 m east of S2-CHR46.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR46 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR46 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR47	George Munroe House, 7808 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR47 include: -Proposed below-grade subway alignment 15 m east of S2-CHR47.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR47 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR47 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

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S2-CHR48	7820 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR48 include: -Proposed below-grade subway alignment 60 m east of S2-CHR48.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR48 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR49	7822 Yonge Street, Seager Cottage, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR49 include: -Proposed below-grade subway alignment 15 m east of S2-CHR49.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR49 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR49 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR50	William Walton Armstrong House, 42 Old Yonge Street, City of Vaughan	Designated under Part IV and Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR50 include: -Proposed below-grade subway alignment 65 m east of S2-CHR50.	
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR50 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR50 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR51	7859 Yonge Street Toronto Ladies Golf Club, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR51 include: -Proposed below-grade subway alignment 10 m west of S2-CHR51 and 250+ m west of the clubhouse building.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR51 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR52	10 Mill Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR52 include: -Proposed below-grade subway alignment 90 m east of S2-CHR52.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR52 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR53	Toronto Radial Railway Stop #17, 7877 Yonge Street, City of Markham	Designated under Part V of the *Ontario Heritage Act* as a "Class A" property as part of the Thornhill-Markham HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR53 include: -Proposed below-grade subway alignment 10 m west of S2-CHR53.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR53 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR53 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR54	Mortimer House, 7994-8000 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR54 include: -Proposed below-grade subway alignment 10 m east of S2-CHR54. -Construction of EEB-5 and TPSS-5 within, or adjacent to S2-CHR54. -Proposed construction of Royal Orchard Station within, or adjacent to, S2-CHR54.	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
		Listed on the City of Vaughan's Buildings of Architectural and Historic Value.	**1. No anticipated impacts from the Project**	
			No impact: S2-CHR54 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. However, note: Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the Thornhill-Vaughan HCD in order to determine and obtain any approval or permits required.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes identified in HCD Plan. However, for any physical impact to the property, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			C. Modification of a building to fit a new use.	i. **Preferred Option C: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the whole property or Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	i. **Preferred Option D: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property or Options A, B, or C are not feasible, and if a physical impact to a heritage attribute cannot be avoided, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			E. Relocation of all or part the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building components should be retained and conserved and/or restored. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the City of Vaughan Cultural Heritage Division. Incorporate commemoration signage to communicate the cultural heritage value of the relocated building on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister approval.
			F. Demolition of all or part of the building.	i. **Preferred Option F: Avoidance** - Design Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the City of Vaughan Cultural Heritage Division. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR54, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural condition of the building to determine if the structure is vulnerable to vibration impacts; -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy of protective measure in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR55	"Edwardian House", 7951 Yonge Street, City of Markham	Listed on the City of Markham's Heritage Register.	Based on the current conceptual design, project components in the vicinity of S2-CHR55 and may include: -Proposed below-grade subway alignment 15 m west of S2-CHR55. -Construction of EEB-5 and TPSS-5 within, or adjacent to S2-CHR55. -Proposed construction of Royal Orchard Station within, or adjacent to, S2-CHR55.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR55 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Markham Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Consult with the City of Markham as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option A.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with City of Markham Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the building, (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Modification of the building to fit a new use	i. **Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C**: a. If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For option C, the following is required: -Consult with City of Markham Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Consult with the City of Markham as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option C. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	**i. Preferred Option D:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Markham Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.
			E. Relocation of all or part of the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Markham Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the City of Markham as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval/consent for Option E. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, incorporate commemoration signage in consultation with City of Markham Heritage Services, to communicate the cultural heritage value of the relocated structure on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI, a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister's approval.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			F. Demolition of all or part of the building.	i. **Preferred Option F:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and options., B., C., D., and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Markham as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the City of Markham as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option F. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -Complete an interpretation/Commemoration Strategy framework in consultation with the City of Markham Heritage Services. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR55, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** if vibration impact cannot be avoided, then the following is required: -Documentation (Review and establish) of the structural conditions of the building to determine if the structure is vulnerable to vibration impacts -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR56	Holy Trinity Anglican Cemetery, 8004 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR56 include: -Proposed below-grade subway alignment 35 m east of S2-CHR56.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR56 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR56 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR57	Thornhill Baptist Church, 8018 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR57 include: -Proposed below-grade subway alignment 10 m east of S2-CHR57.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR57 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR57 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (Review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR58	Soules Inn, 8038 Yonge Street, City of Vaughan	Designated under Part IV and V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR58 include: -Proposed below-grade subway alignment 10 m east of S2-CHR58.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR58 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR58 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR59	8054 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR59 include: -Proposed below-grade subway alignment 10 m east of S2-CHR59.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR59 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR60	Thornhill Anglican Church Rectory, 8088 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR60 include: -Proposed below-grade subway alignment 25 m east of S2-CHR60.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR60 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
			2. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR60 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S2-CHR61	8100 Yonge Street, City of Vaughan	Designated under Part V of the *Ontario Heritage Act* as part of the Thornhill Vaughan HCD (Non-Contributing Property).	Based on the current conceptual design, project components in the vicinity of S2-CHR61 include: -Proposed below-grade subway alignment 125+ m east of S2-CHR61.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR61 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property. <u>However, note:</u> Consult with City of Vaughan's Cultural Heritage Division as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.
S2-CHR62	Baythorn Public School, 201 Bay Thorn Drive, City of Markham	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S2-CHR62 and may include: -Construction of EEB-06 within, or adjacent to S2-CHR62. -Proposed below-grade subway alignment 30 m south of S2-CHR62.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR62 is not anticipated to be impacted by the undertaking.	i. Preferred Option: Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes of the property, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Modification of the building to fit a new use	i. **Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes of the property. For Option C, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	**i. Preferred Option D:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			E. Relocation of all or part of the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order o inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation -During Design, incorporate commemoration signage in consultation with City of Markham's Heritage Services, to communicate the cultural heritage value of the relocated structure on the property to the public.
			F. Demolition of all or part of the building.	i. **Preferred Option F:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During design, incorporate commemoration signage in consultation with City of Markham's Heritage Services, to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR62, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR63	Royal Orchard Park, 110 Royal Orchard Boulevard, City of Markham	Identified during field review.	**Based on the current conceptual design, project components in the vicinity of S2-CHR63 include:** -Proposed below-grade subway alignment beneath S2-CHR63.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR63 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
S2-CHR64	St. Anthony Catholic School, 141 Kirk Drive, City of Markham	Identified during field review.	**Based on the current conceptual design, project components in the vicinity of S2-CHR64 and may include:** -Construction of EEB-07 within, or adjacent to S2-CHR64. -Proposed below-grade subway alignment beneath S2-CHR64.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR64 is not anticipated to be impacted by the undertaking.	i. Preferred Option: Continued Avoidance of the property.
			2. Potential direct adverse impact from the Project (ordered from most to least preferred)	
			A. Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	i. **Preferred Option A:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option A:** If avoidance of the whole property is not feasible, then: a. Design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			B. Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	i. **Preferred Option B:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option B:** a. If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes of the property, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).
			C. Modification of the building to fit a new use.	i. **Preferred Option C:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option C:** a. If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes of the property. For option C, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			D. Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	**i. Preferred Option D:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option D:** a. If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).
			E. Relocation of all or part of the building.	i. **Preferred Option E: Avoidance** - Design the Project to avoid the property. ii. **Alternative Option E:** a. If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. b. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order o inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation -During Design, incorporate commemoration signage in consultation with City of Markham's Heritage Services, to communicate the cultural heritage value of the relocated structure on the property to the public.

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			F. Demolition of all or part of the building.	i. **Preferred Option F:** Avoidance - Design the Project to avoid the property. ii. **Alternative Option F:** a. If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with City of Markham's Heritage Services as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, such as a CHER, HIA, or SCP. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During design, incorporate commemoration signage in consultation with City of Markham's Heritage Services, to communicate the cultural heritage value of the demolished structure on the property to the public.
			3. Potential indirect adverse impact from the Project	
			A. Vibration impacts to the building related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR64, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
S2-CHR65	Holy Cross Cemetery, 8361 Yonge Street, City of Markham	Identified during field review.	Based on the current conceptual design, project components in the vicinity of S2-CHR65 include: -Proposed below-grade subway alignment within 10 m of S2-CHR65.	
			1. No anticipated impacts from the Project	
			No impact: S2-CHR65 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.
			2. Potential indirect adverse impact from the Project	

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
			A. Vibration impacts to the property related to the Project on or adjacent to the property.	i. **Preferred Option A: Avoidance** - Design the Project to avoid vibration damage to S2-CHR65 including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. ii. **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration; -Implement vibration mitigating measures on the construction site and/or at the building; -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded; and -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.

B 3.3 Segment 3 – Portal/Launch Shaft to Moonlight Lane

The preliminary impact assessment to evaluate the potential impacts of the proposed work on built heritage resources and cultural heritage landscapes in Segment 3 is contained in **Table B 3-3**. This table also contains proposed mitigation measures. The impact assessment is based on conceptual designs and therefore presents a range of anticipated impacts, mitigation options, and mitigation measures for Segment 3 of the Study Area.

Segment 3 Study Area starts at Highway 407 and continues north to just south of Constellation Crescent. **Figure A 5-1 (A-H)** provides an overview of the infrastructure proposed in this segment in relation to identified built heritage resources and cultural heritage landscapes.

B 3.3.1 Description of Proposed Work

The proposed infrastructure in Segment 3 includes, but is not limited to:

- At grade subway alignment from Highway 407 to approximately 130 metres north of High Tech Road
- Traction Power Substation (TPSS-6)
- Bridge Station, Proposed Bus Terminal and Ancillary Features
- High Tech Station
- At grade train storage facility alignment
- Train Storage Facility (TSF) Transportation Building
- Train Storage Facility (TSF) and Ancillary Features
- Traction Power Substation (TPSS-7)

Table B 3-3 Preliminary Impact Assessment and Mitigation Measures for Built Heritage Resources and Cultural Heritage Landscapes in Segment 3

CHR#	Name/Address/Location	Heritage Recognition	Type and Description of Potential/Anticipated Impact	Mitigation Measures: i. Mitigation Options ii. Mitigation Recommendations
S3-CHR1	David Dunlap Observatory, 23 Hillsview Drive, City of Richmond Hill	Designated under Part IV of the *Ontario Heritage Act* under By-law 100-09.	Based on the current conceptual design, project components in the vicinity of S3-CHR1 include: -Proposed below-grade subway alignment 350+ m west of buildings contained within S3-CHR1.	
			1. No anticipated impacts from the Project	
			No impact: S3-CHR1 is not anticipated to be impacted by the undertaking.	i. **Preferred Option:** Continued Avoidance of the property.

B 4.0 Summary of Potential Impacts, Mitigation Measures and Monitoring Activities

The following table summarizes the key project components/activities, potential impacts to built heritage resources and cultural heritage landscapes, and commitments to mitigation measures, monitoring and future work identified through the YNSE EPR Addendum process.

Where identified, future cultural heritage technical studies such as CHERs, HIAs, and SCPs, must be prepared using the following guidance documents:

- *Standards & Guidelines for Conservation of Provincial Heritage Properties* (MHSTCI 2010)
- *Standards & Guidelines for Conservation of Provincial Heritage Properties: Heritage Identification & Evaluation Process* (MTCS 2014)
- *Standards & Guidelines for Conservation of Provincial Heritage Properties: Information Bulletin 2, Strategic Conservation Plans for Provincial Heritage Properties* (MTCS 2017)
- *Standards & Guidelines for Conservation of Provincial Heritage Properties: Information Bulletin 3, Heritage Impact Assessments for Provincial Heritage Properties* (MTCS 2017)

Table B 4-1 Summary of Cultural Heritage Potential Effects, Mitigation and Monitoring Requirements

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
CONSTRUCTION	• **Built Heritage Resources and Cultural Heritage Landscapes identified during the field review or previously identified in a cultural heritage study**	• No anticipated impacts from the Project	• **Preferred Option:** Continued Avoidance of the property.	• n/a
		Potential direct adverse impact from the Project (ordered from most to least preferred)		
		• Direct Impact A: Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid the property. • **Alternative Option A:** If avoidance of the whole property is not feasible, then design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. Consult with the local municipality to determine and obtain any approval or permit required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.	• n/a
		• Direct Impact B: Introduction of new physical elements and/or alterations without impacting the heritage attributes of the property	• **Preferred Option B:** Avoidance - Design the Project to avoid the property. • **Alternative Option B:** If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes of the property, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.of the project. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).	• n/a
		• Direct Impact C: Modification of the building to fit a new use.	• **Preferred Option C:** Avoidance - Design the Project to avoid the property. • **Alternative Option C:** If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes of the property. For option C, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.	• n/a
		• Direct Impact D: Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	• **Preferred Option D:** Avoidance - Design the Project to avoid the property. • **Alternative Option D:** If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA.-Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design Project to integrate new physical elements with the building and to be	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			sympathetic and compatible with the architectural style and/or landscape design/configuration of the property (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).	
		• Direct Impact E: Relocation of all or part of the building.	• **Preferred Option E:** Avoidance - Design the Project to avoid the property. • **Alternative Option E:** If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. • If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation -During Design, incorporate commemoration signage in consultation the local municipality, to communicate the cultural heritage value of the relocated structure on the property to the public.	• n/a
		• Direct Impact F: Demolition of all or part of the building.	• **Preferred Option F:** Avoidance - Design the Project to avoid the property. • **Alternative Option F:** If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During design, incorporate commemoration signage in consultation with City of Toronto's Heritage Preservation Services, to communicate the cultural heritage value of the demolished structure on the property to the public.	• n/a
		Potential indirect adverse impact from the Project		
		• Indirect Impact A: Vibration impacts to the building related to the Project on or adjacent to the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid vibration damage to the property, including a sufficient buffer (within 250m) between Project components/activities and the building/structure. The vibration buffer will be refined once property-specific impacts/vibration study are known/completed. • **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration. -Implement vibration mitigating measures on the construction site and/or at the building.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			-Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded. -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.	
CONSTRUCTION	• **Built Heritage Resource or Cultural Heritage Landscape listed on a municipal heritage register**	• No anticipated impacts from the Project.	• **Preferred Option:** Continued Avoidance of the property.	• n/a
		Potential direct adverse impact from the Project (ordered from most to least preferred)		
		• Direct Impact A: Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes of the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid the property. • **Alternative Option A:** If avoidance of the whole property is not feasible, then design Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Consult with the local municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option A.	• n/a
		• Direct Impact B: Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	• **Preferred Option B:** Avoidance - Design the Project to avoid the property. • **Alternative Option B:** If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the building, (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).	• n/a
		• Direct Impact C: Modification of the building to fit a new use.	• **Preferred Option C:** Avoidance - Design the Project to avoid the property. • **Alternative Option C:** If avoidance of the property and Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Consult with the local municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option C. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
		• Direct Impact D: Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute	• **Preferred Option D:** Avoidance - Design the Project to avoid the property. • **Alternative Option D:** If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.	• n/a
		• Direct Impact E: Relocation of all or part of the building.	• **Preferred Option E:** Avoidance - Design the Project to avoid the property. • **Alternative Option E:** If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, incorporate commemoration signage in consultation with the municipality, to communicate the cultural heritage value of the relocated structure on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI, a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister's approval.	• n/a
		• Direct Impact F: Demolition of all or part of the building.	• **Preferred Option F:** Avoidance - Design the Project to avoid the property. • **Alternative Option F:** If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -Complete an interpretation/commemoration Strategy framework in consultation with the municipality. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
		Potential indirect adverse impact from the Project		
		• Indirect Impact A: Vibration impacts to the building related to the Project on or adjacent to the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid vibration damage to the property, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. • **Alternative Option A:** if vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions of the building to determine if the structure is vulnerable to vibration impacts. -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration. -Implement vibration mitigating measures on the construction site and/or at the building. -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded. -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.	• n/a
CONSTRUCTION	• **Property Designated under Part IV of the *Ontario Heritage Act***	• No anticipated impacts from the Project.	• **Preferred Option:** Continued Avoidance of the property.	• n/a
		Potential direct adverse impact from the Project (ordered from most to least preferred)		
		• Direct Impact A: Encroachment onto the property causing a physical impact to the property, while avoiding physical; impact to the building and/or the heritage attributes of the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid the property. • **Alternative Option A:** If avoidance of the whole property is not feasible, then design the Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes of the property. However, for any physical impact to the property, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option A.	• n/a
		• Direct Impact B: Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes of the property.	• **Preferred Option B:** Avoidance - Design the Project to avoid the property. **Alternative Option B:** If avoidance of the property or Option A. is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option B. -Design Project to integrate new physical elements with the building and to be sympathetic and compatible with the architectural style and/or landscape	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			design/configuration (consideration of Parks Canada's *Standards & Guidelines for the Conservation of Historic Places in Canada*, 2010).	
		• Direct Impact C: Modification of the building to fit a new use.	• **Preferred Option C:** Avoidance - Design the Project to avoid the property. • **Alternative Option C:** If avoidance of the property and Option A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option C. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.	• n/a
		• Direct Impact D: Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute.	• **Preferred Option D:** Avoidance - Design the Project to avoid the property. • **Alternative Option D:** If avoidance of the property and Options A, B, and C are not feasible, and if the physical impact to a heritage attribute cannot be avoided, then the following is required: -Consult with local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option D. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored.	• n/a
		• Direct Impact E: Relocation of all or part of the building.	• **Preferred Option E: Avoidance - Design the Project to avoid the property.** • **Alternative Option E:** If avoidance of the property and Options A, B, C, or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval/consent for Option E.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			-Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order o inform what building component should be retained and conserved. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, incorporate commemoration signage in consultation with municipality, to communicate the cultural heritage value of the relocated structure on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI, a Strategic Conservation Plan (SCP) for type ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Ministers approval.	
		• Direct Impact F: Demolition of all or part of the building.	• **Preferred Option F:** Avoidance - Design the Project to avoid the property. • **Alternative Option F:** If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. -Consult with the municipality as part of the detailed design phase and prior to issuance of the draft Environmental Assessment Report in regard to the terms of the heritage easement agreement on the property and if required, obtain approval/consent for Option F. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -Complete an interpretation/Commemoration Strategy framework in consultation with the local municipality. Incorporate commemoration signage to communicate the cultural heritage value of the demolished structure on the property to the public.	• n/a
		Potential indirect adverse impact from the Project		
		• Indirect Impact A: Vibration impacts to the building related to the Project on or adjacent to the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid vibration damage to the property, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. • **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural condition of the building to determine if the structure is vulnerable to vibration impacts. -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration. -Implement vibration mitigating measures on the construction site and/or at the building. -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded. -Conduct regular condition surveys and reviews during construction to evaluate efficacy of protective measure in place prior to construction. If damage is identified, then implement additional corrective steps.	• n/a
CONSTRUCTION	• **Heritage Conservation District designated under Part V of the *Ontario Heritage Act***	• No anticipated impacts from the Project.	• **Preferred Option:** Continued Avoidance of the HCD.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
		Potential direct adverse impact from the Project (ordered from most to least preferred)		

		• Direct Impact A: Encroachment into the HCD causing a physical impact, including introduction of new elements to the HCD, alterations to contributing property or diminishment in integrity of the HCD.	• **Preferred Option A:** Avoidance - Design the project to avoid the HCD.
			• **Alternative Option A:** While avoidance of the HCD altogether seems unlikely, the following mitigation measures are required:
			  • Any encroachment in the HCD resulting in a physical impact, including but not limited to, the demolition or removal of a building, or alterations to the exterior portions of a property visible from the street, then the following is required:
			  -Consult with the municipality regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. If required, completed any cultural heritage technical studies, such as CHERs and HIAs.
			  -Evaluate and document the existing conditions of a contributing property including the heritage attributes prior to designing alterations.
			  -Record, repair and restore where possible, if elements of the HCD are impacted by the Project
			  -New elements and alteration must be complimentary and subordinate to the cultural heritage value and heritage attributes of the HCD.
			  -If demolition, removal or significant alteration to any building or structure in the HCD is necessary for the Project, this action should be limited to only those buildings that have been identified in the HCD Plan as "non-contributing". Work proposed within non-contributing properties must follow the HCD Plan guidelines.
			  • In addition, consult the HCD Design Guidelines and follow requirements for alterations to: heritage buildings, non-contributing buildings, new buildings, commercial features and streetscape elements, and landscape features. Proposed work must support and enhance the HCD.
			  -The heritage attributes of properties that are "listed" or designated under Part IV of the *Ontario Heritage Act*, as defined in their respective listing reports or designation by-laws, should be maintained and enhanced in any proposed alteration to the property.
				• n/a

		Potential indirect adverse impact from the Project		

		• Indirect Impact A: Vibration impacts to the building related to the Project on or adjacent to the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid vibration damage and include a sufficient buffer (within 250m) between Project components/activities and the buildings within the HCD. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed.
			• **Alternative Option A:** If vibration impact cannot be avoided, then the following is required:
			  -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration.
			  -Implement vibration mitigating measures on the construction site and/or at the building.
			  -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded.
			  -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.
				• n/a

		• Indirect Impact B: Obstruction/alteration of views identified in the HCD.	• **Preferred Option B:** Design the Project to conserve and not obstruct views as identified in the HCD Plan.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			• **Alternative Option B:** If impact on identified views cannot be avoided, then the following is required: -Consult with the local municipality regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. -Limit Impact on identified view corridors by designing new features to blend with the architectural style and landscape aesthetic style of the HCD. Make new additions complimentary to, subordinate to, and distinguishable from the existing landscape (consideration of Parks Canada's *Standards and Guidelines for the Conservation of Historic Places in Canada*, 2010).	
CONSTRUCTION	• **Contributing Property within an HCD (Designated under Part V of the *Ontario Heritage Act*)**	• No anticipated impacts from the Project.	• **Preferred Option:** Continued Avoidance of the HCD. However, consult with the local municipality as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.	• n/a
		Potential direct adverse impact from the Project (ordered from most to least preferred)		
		• Direct Impact A: Encroachment onto the property causing a physical impact to the property, while avoiding physical impact to the building and/or the heritage attributes.	• **Preferred Option A:** Avoidance - Design the Project to avoid the property. • **Alternative Option A:** If avoidance of the whole property is not feasible, then design the Project to encroach onto the property as close to the property line as possible, while avoiding all impacts to the building and/or heritage attributes identified in the HCD Plan. However, for any physical impact to the property, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.	• n/a
		• Direct Impact B: Introduction of new physical elements and/or alterations to the building without impacting the heritage attributes.	• **Preferred Option B:** Avoidance - Design the Project to avoid the property. • **Alternative Option B:** If avoidance of the property or Option A is not feasible and if introduction of a new physical element and/or alteration to the building is proposed without impacting the heritage attributes, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan	• n/a
		• Direct Impact C: Modification of a building to fit a new use.	• **Preferred Option C:** Avoidance - Design the Project to avoid the property. • **Alternative Option C:** If avoidance of the whole property or Options A and B are not feasible, then consider retention of the building by modifying the building to fit a new use in order to retain its cultural heritage value and heritage attributes. For Option C, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete Adaptive Reuse Study for the reuse of the building, if appropriate.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
		• Direct Impact D: Introduction of new elements and/or alterations that results in a physical impact to a heritage attribute	• **Preferred Option D:** Avoidance - Design the Project to avoid the property. • **Alternative Option D:** If avoidance of the property or Options A, B, or C are not feasible, and if a physical impact to a heritage attribute cannot be avoided, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to alteration, in order to inform what building components should be retained and conserved and/or restored. -Design the Project to be consistent with the Policies and Guidelines set out in the HCD Plan.	• n/a
		• Direct Impact E: Relocation of all or part the building.	• **Preferred Option E:** Avoidance - Design the Project to avoid the property. • **Alternative Option E:** If avoidance of the property and Options A, B, C or D are not feasible, complete a structural/engineering assessment to demonstrate the movability of the building or part of the building from this property to a new site. Identify a suitable site for relocation prior to undertaking Option E. If relocation or partial relocation of the building is possible and cannot be avoided, then the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to relocation, in order to inform what building components should be retained and conserved and/or restored. -Stabilize the interior and exterior of the building before relocation. -Prepare the new site, i.e. construction of a new foundation, prior to relocation. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the local municipality. Incorporate commemoration signage to communicate the cultural heritage value of the relocated building on the property to the public. -Prepare, once the building is relocated, by Metrolinx in consultation with MHSTCI a Strategic Conservation Plan (SCP) for the ongoing protection, use and maintenance of a building. SCP requires MHSTCI Deputy Minister approval.	• n/a
		• Direct Impact F: Demolition of all or part of the building.	• **Preferred Option F:** Avoidance - Design Project to avoid the property. • **Alternative Option F:** If avoidance of the whole property and Options A, B, C, D, and E are not feasible, and if demolition or partial demolition of the building on the property cannot be avoided, the following is required: -Consult with the local municipality as part of the detailed design phase regarding any physical impact to the property in order to determine and obtain any approval or permits required. If required, complete any cultural heritage technical studies, which may include a CHER or HIA. -Complete detailed documentation of the property that includes the identification of salvageable materials and/or heritage attributes prior to demolition. -During Design, complete an Interpretation/Commemoration Strategy Framework in consultation with the local municipality. Incorporate commemoration signage to	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			communicate the cultural heritage value of the demolished structure on the property to the public.	
		Potential indirect adverse impact from the Project		
		• Indirect Impact A: Vibration impacts to the building related to the Project on or adjacent to the property.	• **Preferred Option A:** Avoidance - Design the Project to avoid vibration damage to the property, including a sufficient buffer (within 250m) between Project components/activities and the building. Note, the vibration buffer will be refined once property-specific impacts/vibration study are known/completed. • **Alternative Option A:** If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural condition of the building to determine if the structure is vulnerable to vibration impacts. -Establish vibration limits based on building conditions, founding soil conditions and type of construction vibration. o Implement vibration mitigating measures on the construction site and/or at the building. -Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded. -Conduct regular condition surveys and reviews during construction to evaluate efficacy of protective measure in place prior to construction. If damage is identified, then implement additional corrective steps.	• n/a
CONSTRUCTION	• **Non-Contributing Property within an HCD (Designated under Part V of the *Ontario Heritage Act*)**	• No anticipated impacts from the Project.	• **Preferred Option:** Continued Avoidance of the HCD. However, consult with the local municipality as part of the detailed design phase regarding any physical impact to the HCD in order to determine and obtain any approval or permits required.	• n/a
		Potential direct adverse impact from the Project (ordered from most to least preferred)		
		• Direct Impact A: Encroachment or construction within a non-contributing property in the HCD that may cause a physical impact, including introduction of new elements to the HCD or diminishment in integrity of the HCD due to the introduction of new elements.	• **Preferred Option A:** Avoidance - Design the project to avoid the HCD. • **Alternative Option A:** Any encroachment in the HCD resulting in a physical impact, including but not limited to, the demolition or removal of a building, or alterations to the exterior portions of a property visible from the street, then the following is required: -Consult with the local municipality regarding any physical impact to the HCD in order to determine and obtain any approval or permits required. If required, completed any cultural heritage technical studies, such as an HIA. -New elements and alteration must be complimentary and subordinate to the cultural heritage value and heritage attributes of the HCD. -If demolition, removal or significant alteration to any building or structure in the HCD is necessary for the Project, this action should be limited to only those buildings that have been identified in the HCD Plan as "non-contributing". Work proposed within non-contributing properties must follow the HCD Plan guidelines. b. In addition, consult the HCD Design Guidelines and follow requirements for alterations to: non-contributing buildings, new buildings, commercial features and streetscape elements, and landscape features. Proposed work must support and enhance the HCD.	• n/a
CONSTRUCTION	• **Known (listed or designated) and potential (identified during the field review or previously identified) Built Heritage Resources and Cultural Heritage Landscapes, including HCDs**	• Vibration impacts to heritage buildings/structures related to the Project on or adjacent to the property.	• If vibration impact cannot be avoided, then the following is required: -Documentation (review and establish) of the structural conditions, founding soil conditions and type of construction vibration. -Implement vibration mitigating measures on the construction site and/or at the building.	• n/a

Project Phase	Environmental Components	Potential Impacts	Mitigation Measures	Monitoring Activities
			-Monitor vibration during construction using seismographs, with notification by audible and/or visual alarms when limits are approached or exceeded. -Conduct regular condition surveys and reviews during construction to evaluate efficacy or protective measures in place prior to construction. If damage is identified, then implement additional corrective steps.	
CONSTRUCTION	• **Properties that meet, or have the potential to meet, O. Reg. 10/06 of the *Ontario Heritage Act***	• Direct impacts, such as removal, demolition, or transfer from Provincial control	• As required, requests for Ministers Consent must be completed as part of the detailed design phase for properties that meet, or have the potential to meet, O. Reg. 10/06 of the Ontario Heritage Act and have the potential to be impacted by the YNSE Project. Ministers Consent is required where properties that meet, or have the potential to meet, O. Reg. 10/06 are subject to direct impacts such as removal, demolition, alteration of heritage structures/landscapes, or transfer from provincial control.	• n/a
OPERATION	• **Known (listed or designated) and potential (identified during the field review or previously identified) Built Heritage Resources and Cultural Heritage Landscapes, including HCDs**	• No impacts are anticipated during operations	• n/a	• n/a

***NOTES:**

Regulations, standards and guidance documents referenced herein are current as of the time of writing and may be amended from time to time.
If clarification is required regarding regulatory requirements, consult with the appropriate regulatory agencies.

B 5.0 Assessor Qualifications

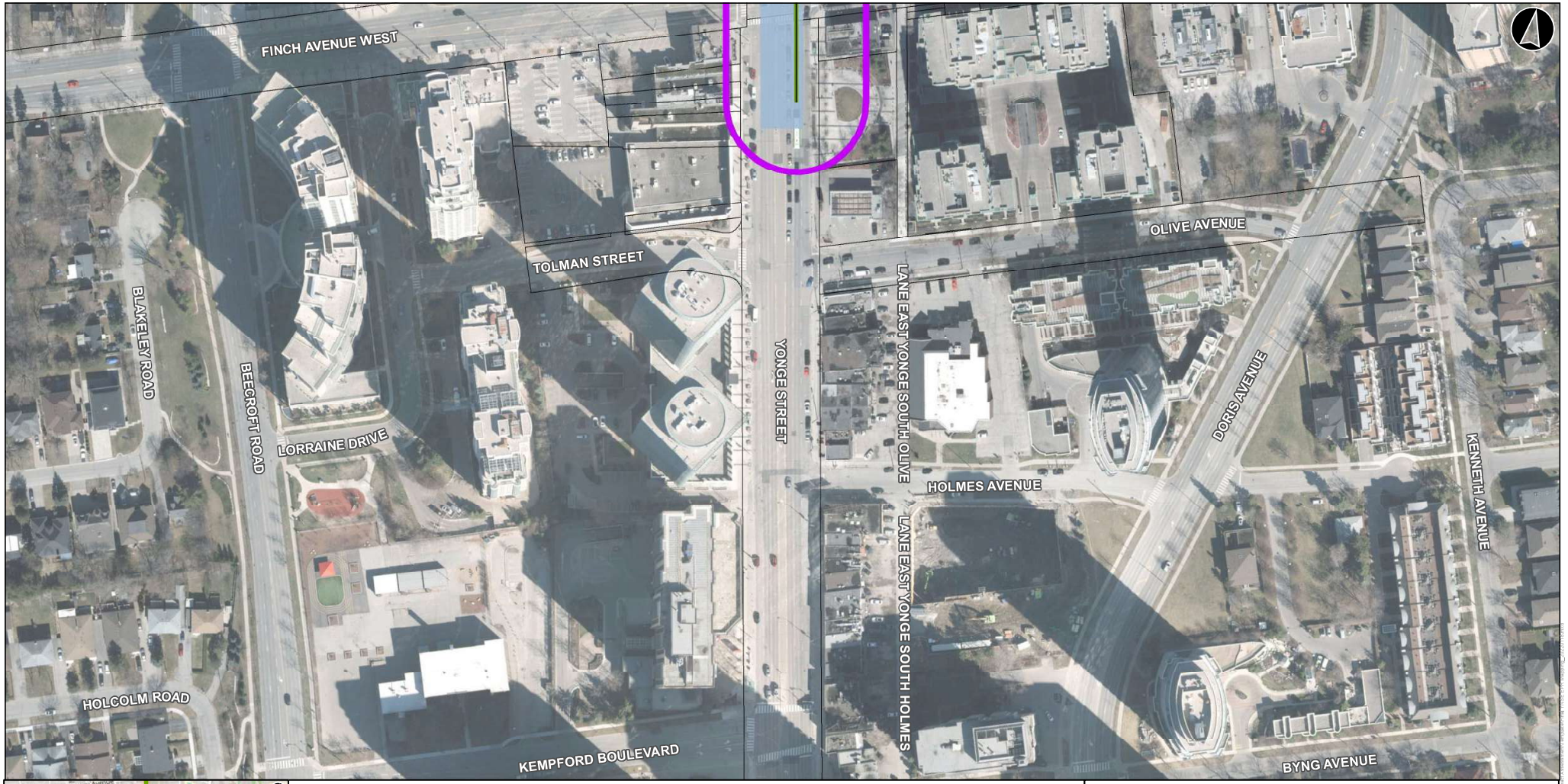
This report was prepared and reviewed by OneT+ Cultural Heritage team and the qualifications of the assessors involved in the preparation of this report are provided in **Appendix B**.

B 6.0 Permits/Approvals

At present, no potential or known PHPPS have been identified as part of the YNSE project. However, should direct impacts to heritage properties be confirmed as design advances, requisite cultural heritage studies in the form of CHERs and/or HIAs will be completed, as required.

In addition, should future studies and evaluation determine the need for recognition of a PHPPS under O. Reg. 10/06 of the *Ontario Heritage Act*, Metrolinx must obtain Minister's Consent where direct impacts are anticipated to a PHPPS. If required, requests for Ministers Consent must be completed as part of the detailed design phase for properties that meet, or have the potential to meet, O. Reg. 10/06 of the *Ontario Heritage Act* and have the potential to be impacted by the YNSE Project. Ministers Consent is required where properties that meet, or have the potential to meet, O. Reg. 10/06 are subject to direct impacts such as removal, demolition, alteration of heritage structures/landscapes, or transfer from provincial control.

APPENDIX A: IMPACT ASSESSMENT CONCEPTUAL PLANS / MAPPING





Legend

- Study Area
- Existing Finch Station
- Proposed Subway Alignment (Below Grade)
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

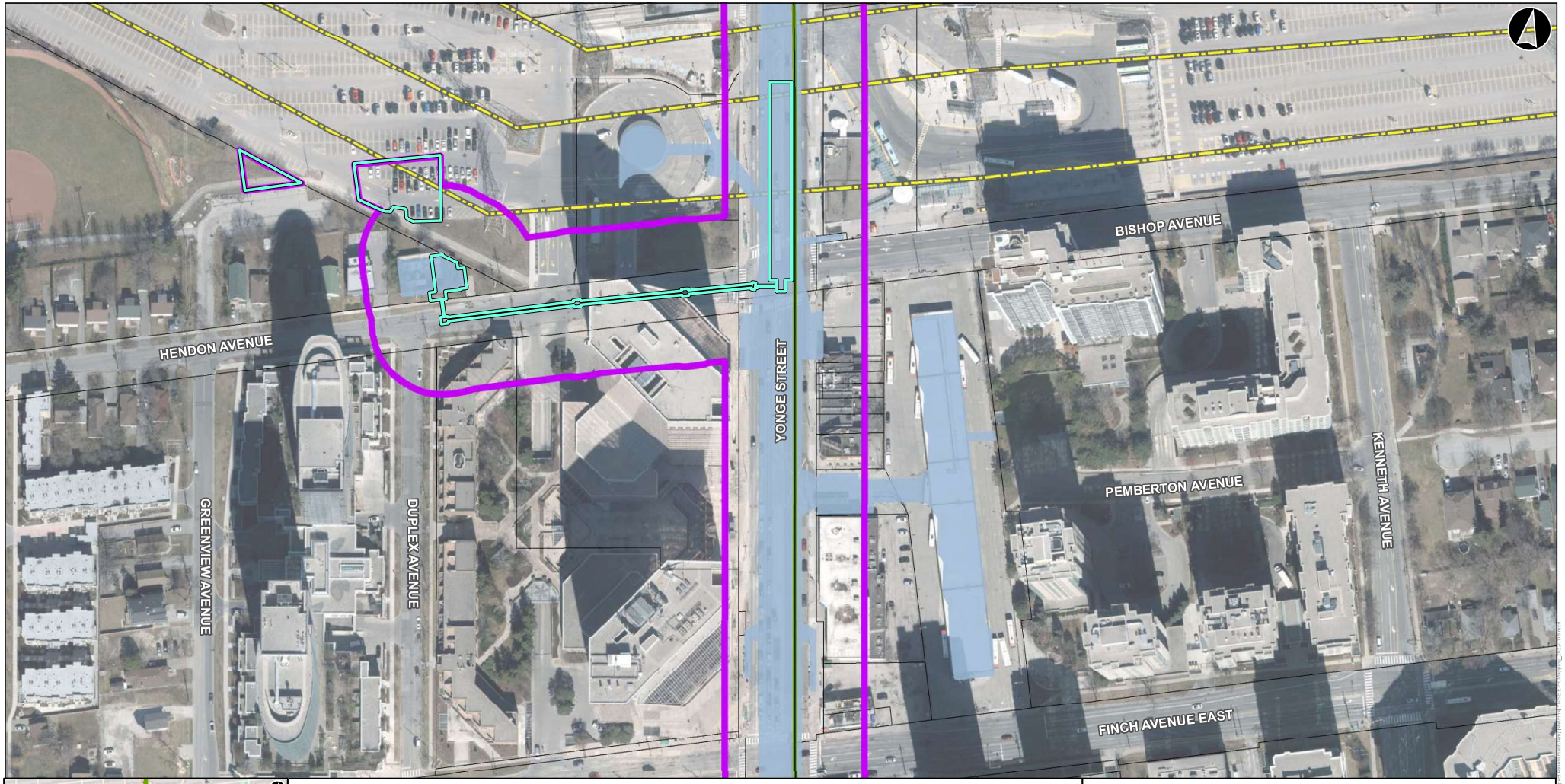
0 25 50
Metres
Datum: NAD27 MTM zone 10

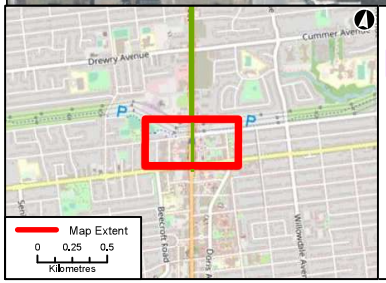
Segment 1 - Figure 1

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	





Legend

- Study Area
- Existing Finch Station
- Proposed Finch Station Modifications
- Proposed Subway Alignment (Below Grade)
- Existing Hydro One Transmission
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 1 - Figure 2

METROLINX
Infrastructure Ontario
One

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	
P 067400	Rev 0	





Legend

- Study Area
- Existing Finch Station
- Proposed Finch Station Modifications
- Proposed Transition Box Structure (Below Grade)
- Proposed Subway Alignment (Below Grade)
- Proposed Extraction Shaft
- Proposed TPSS Location
- Proposed EEB Location
- Existing Hydro One Transmission
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50 75
Metres
Datum: NAD27 MTM zone 10

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Segment 1 - Figure 3

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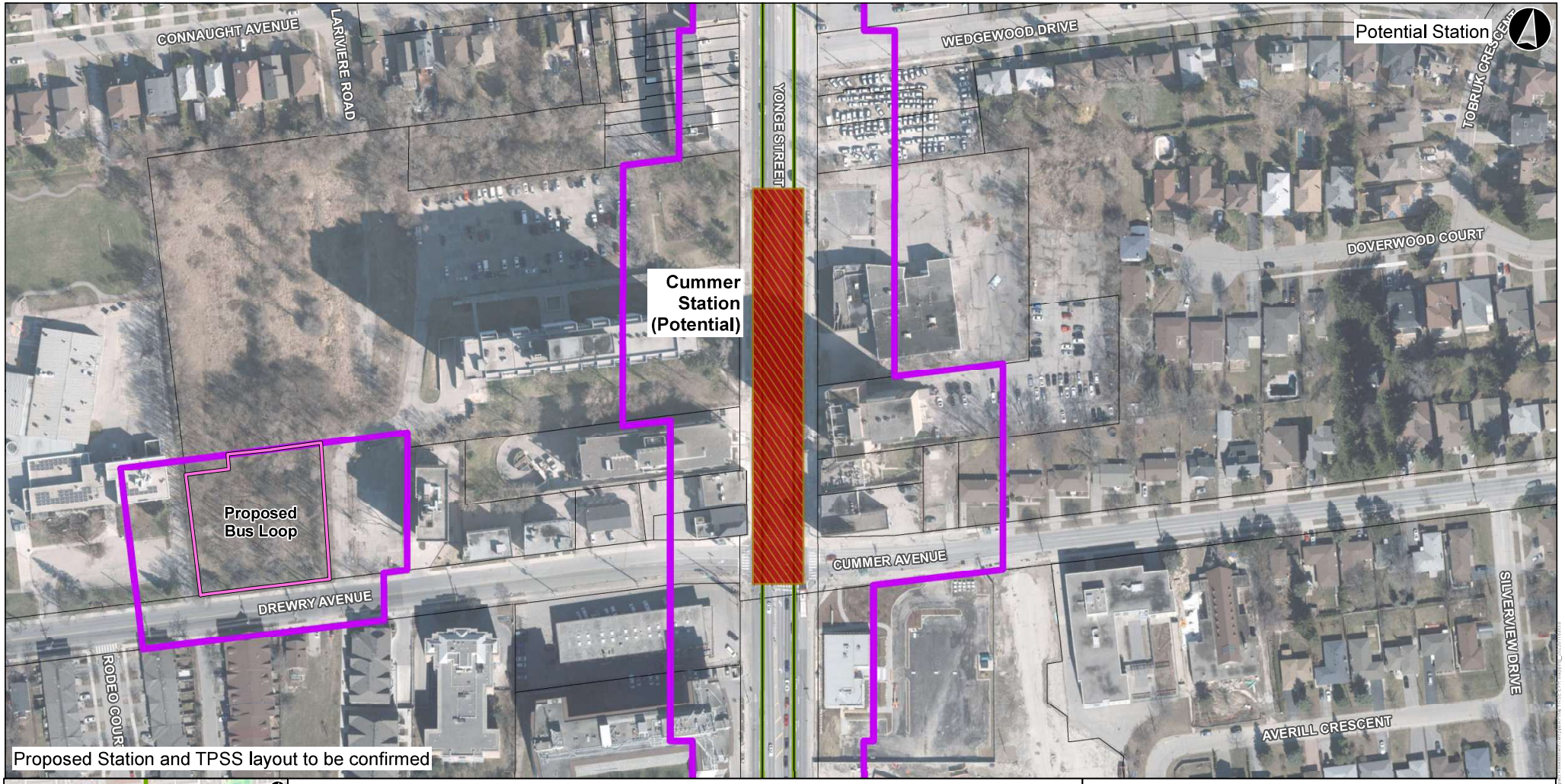
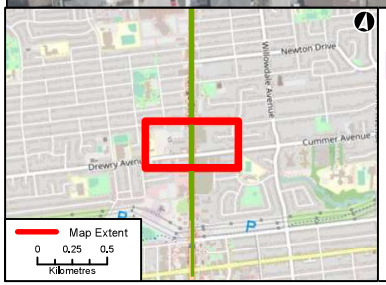
P 067400	Rev 0

METROLINX
Infrastructure Ontario
One





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Potential Station Platform Area
- Proposed Bus Loop
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

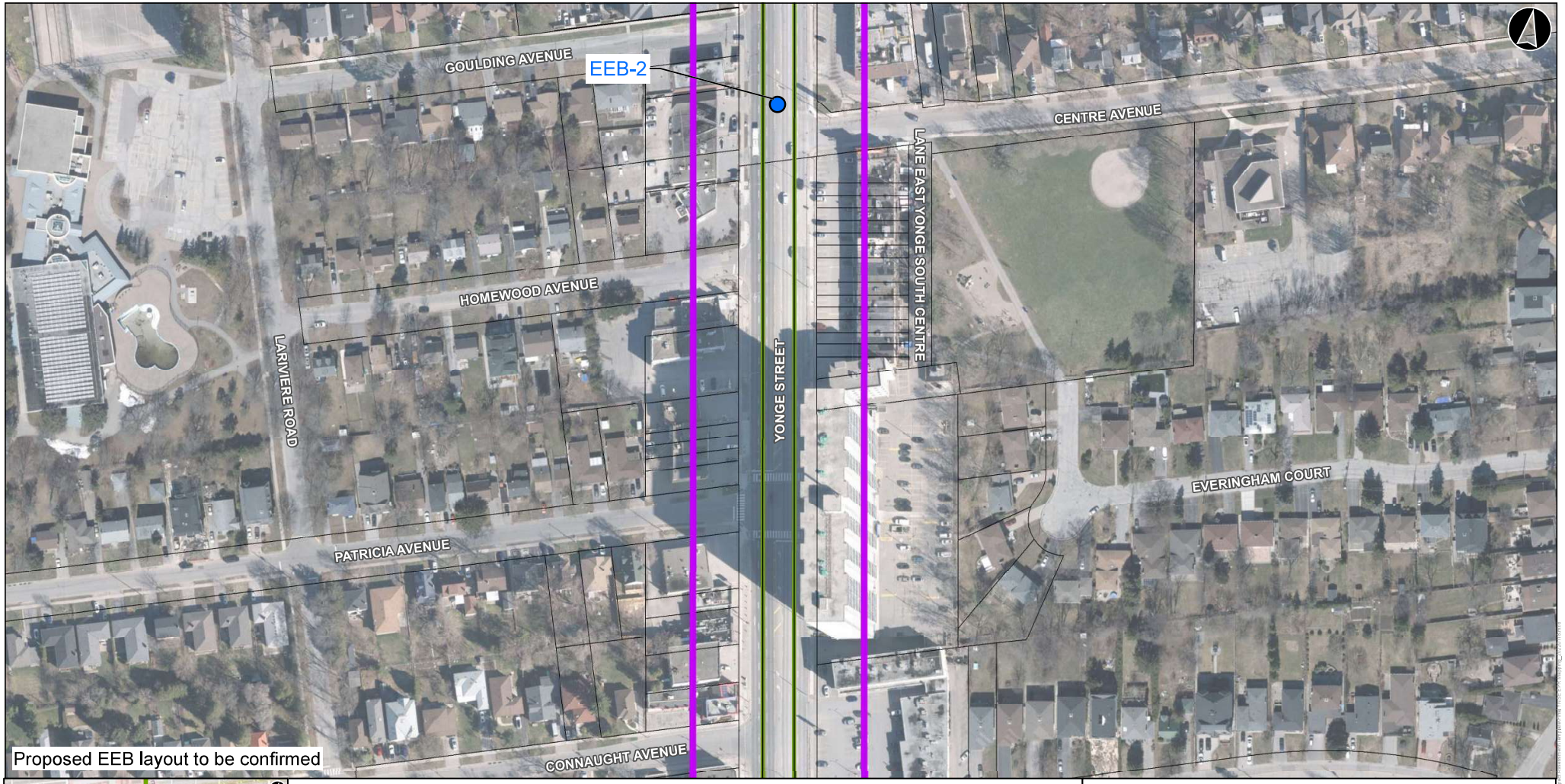
Segment 1 - Figure 4

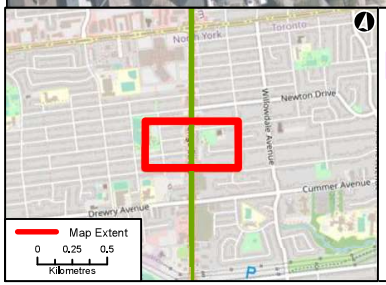
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One+





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Proposed EEB Location
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 1 - Figure 5

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

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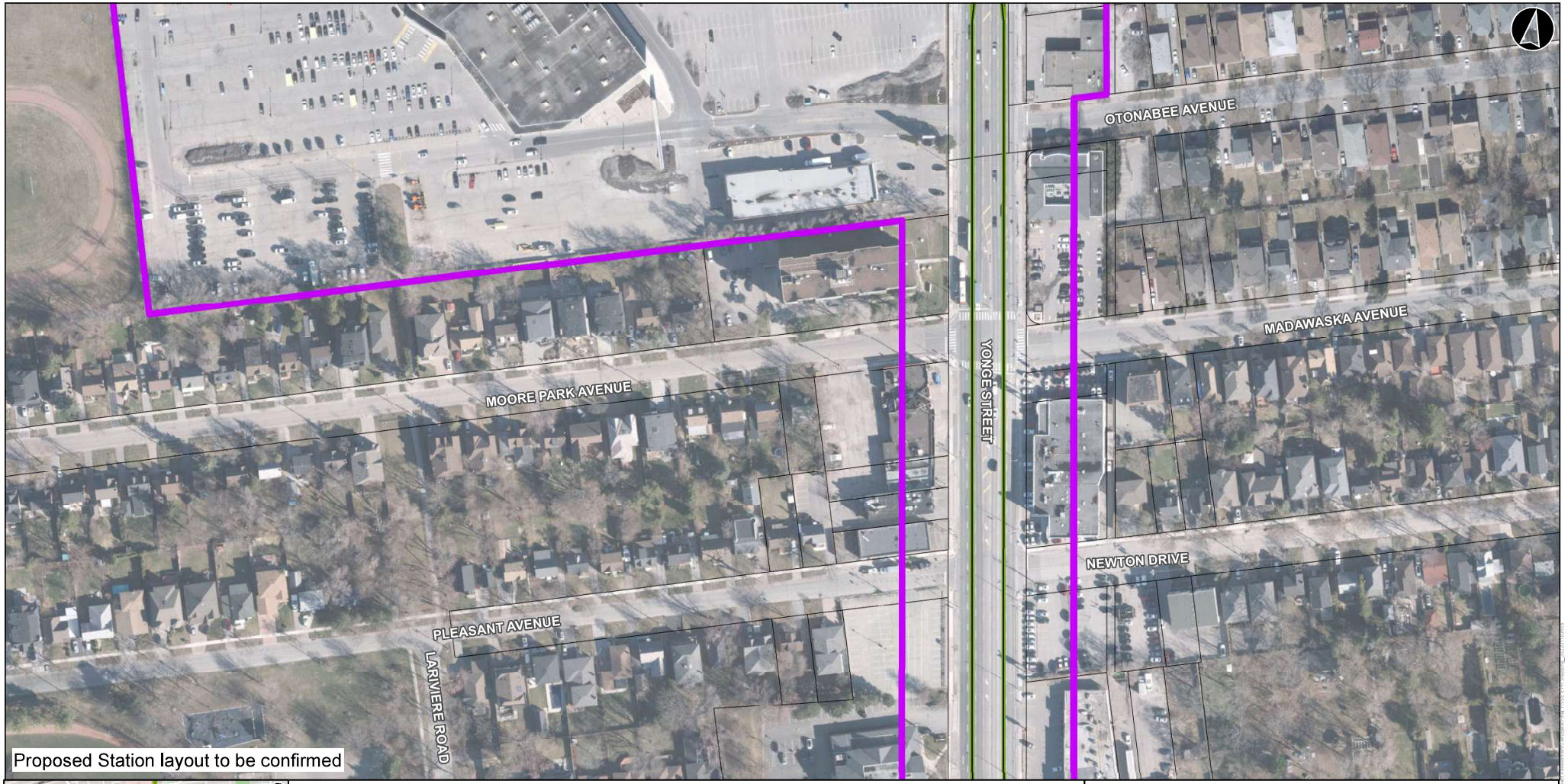
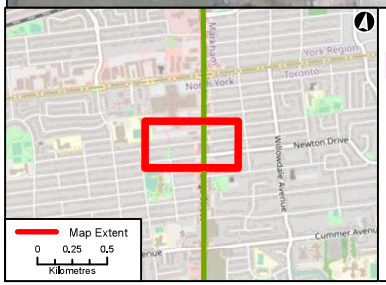
P 067400	Rev 0





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

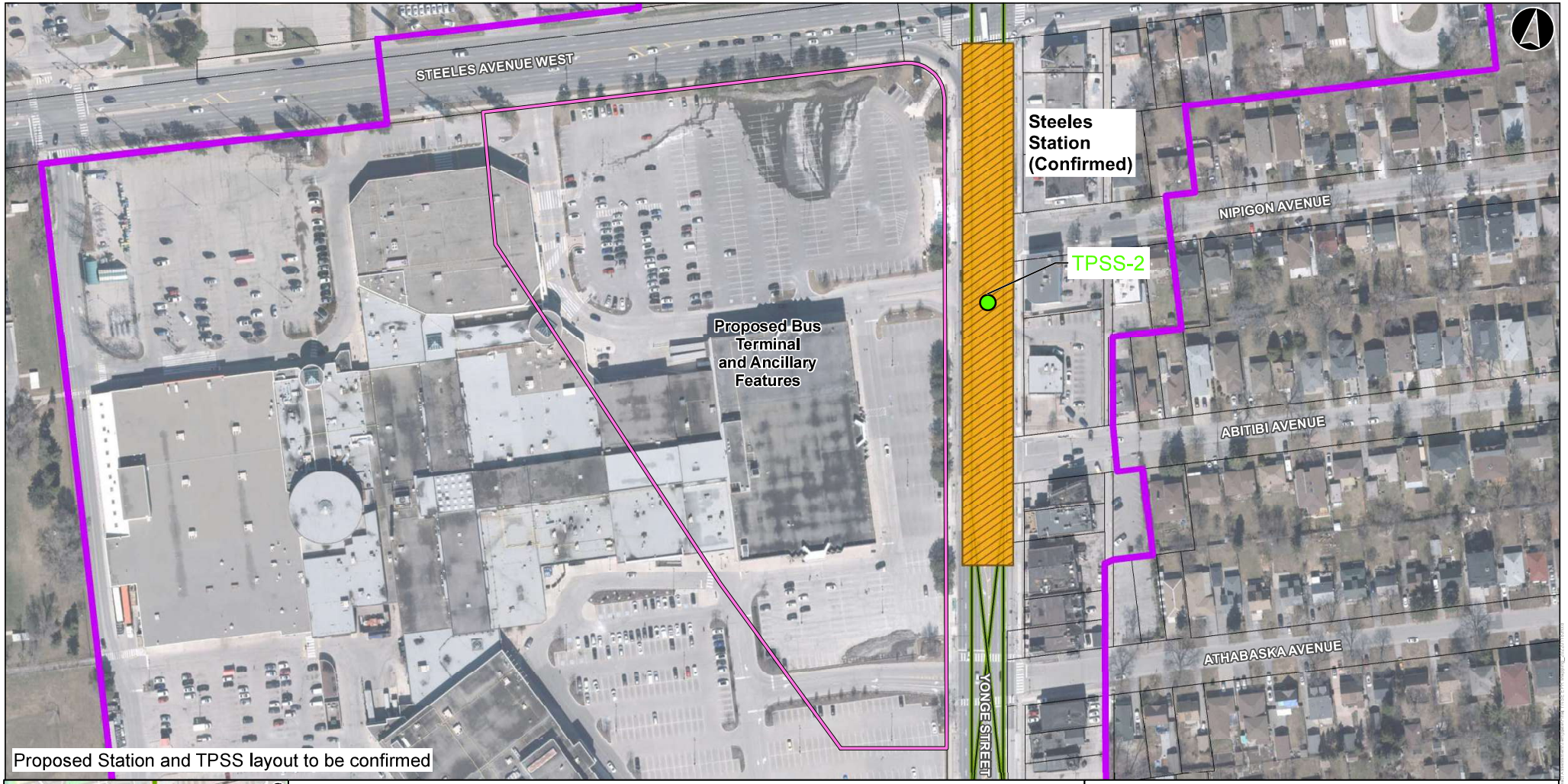
0 25 50
Metres
Datum: NAD27 MTM zone 10

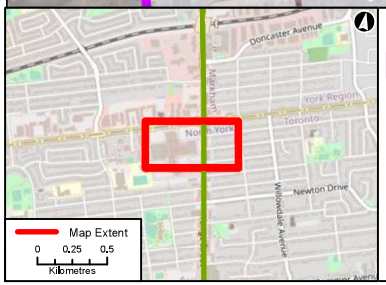
Segment 1 - Figure 6

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One+
P 067400	Rev 0	





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Confirmed Station Platform Area
- Proposed Bus Terminal and Ancillary Features
- Proposed TPSS Location
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

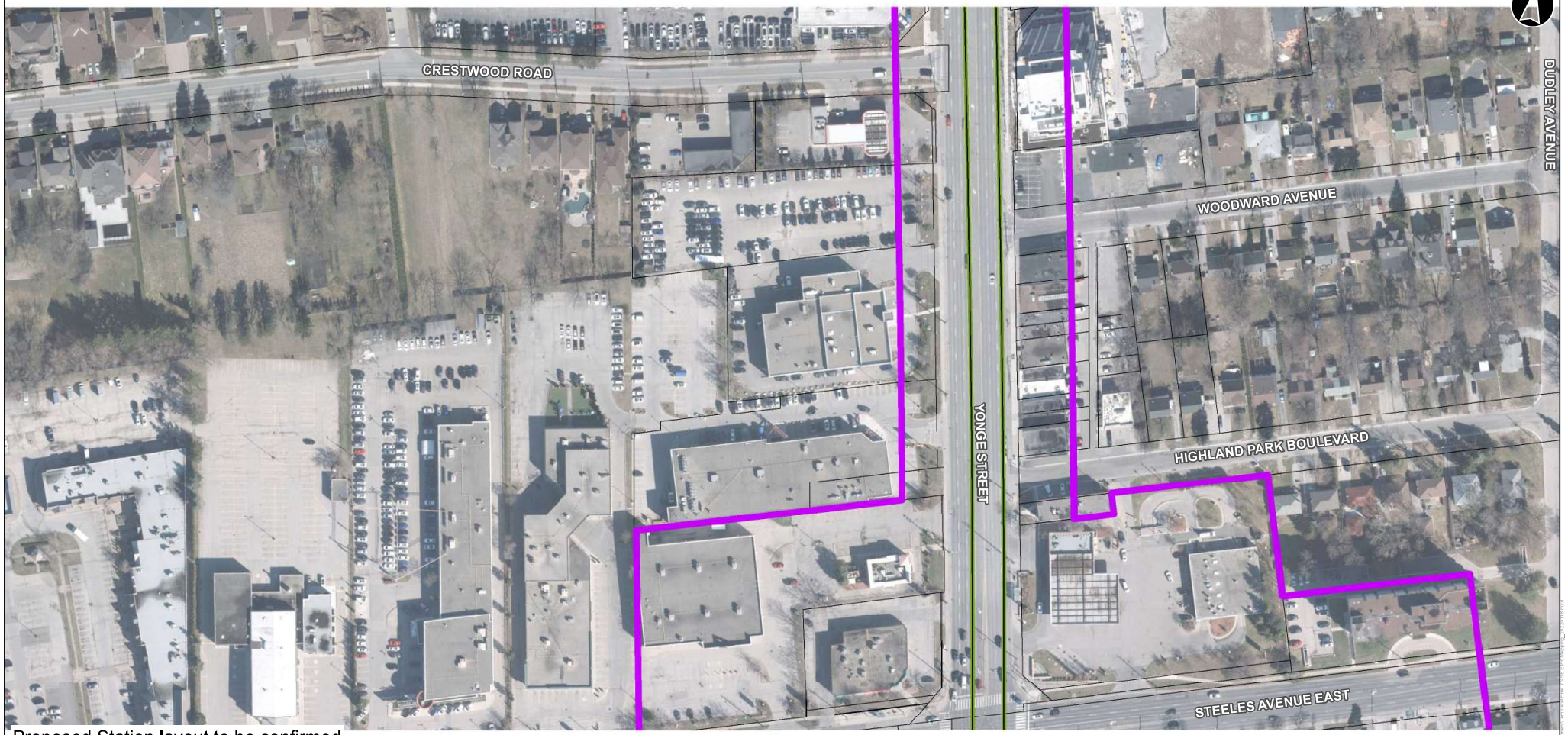
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 1 - Figure 7

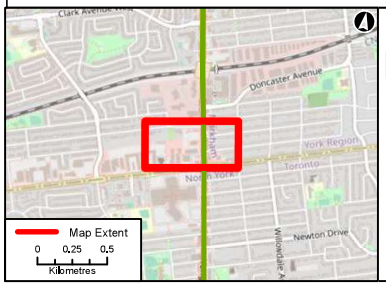
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0



Proposed Station layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

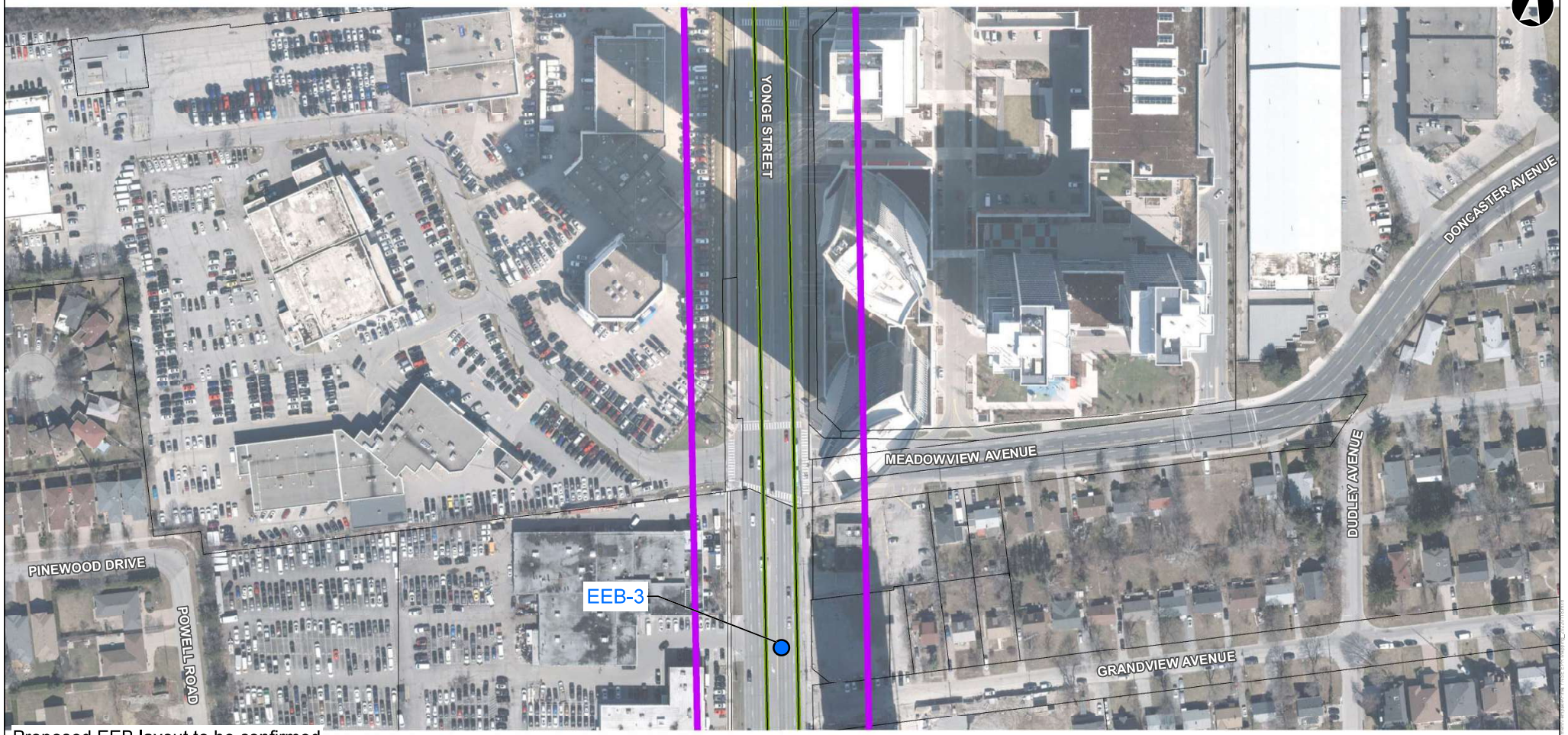
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 1 - Figure 8

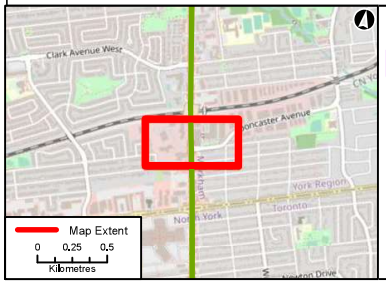
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	



Proposed EEB layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Proposed EEB Location
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

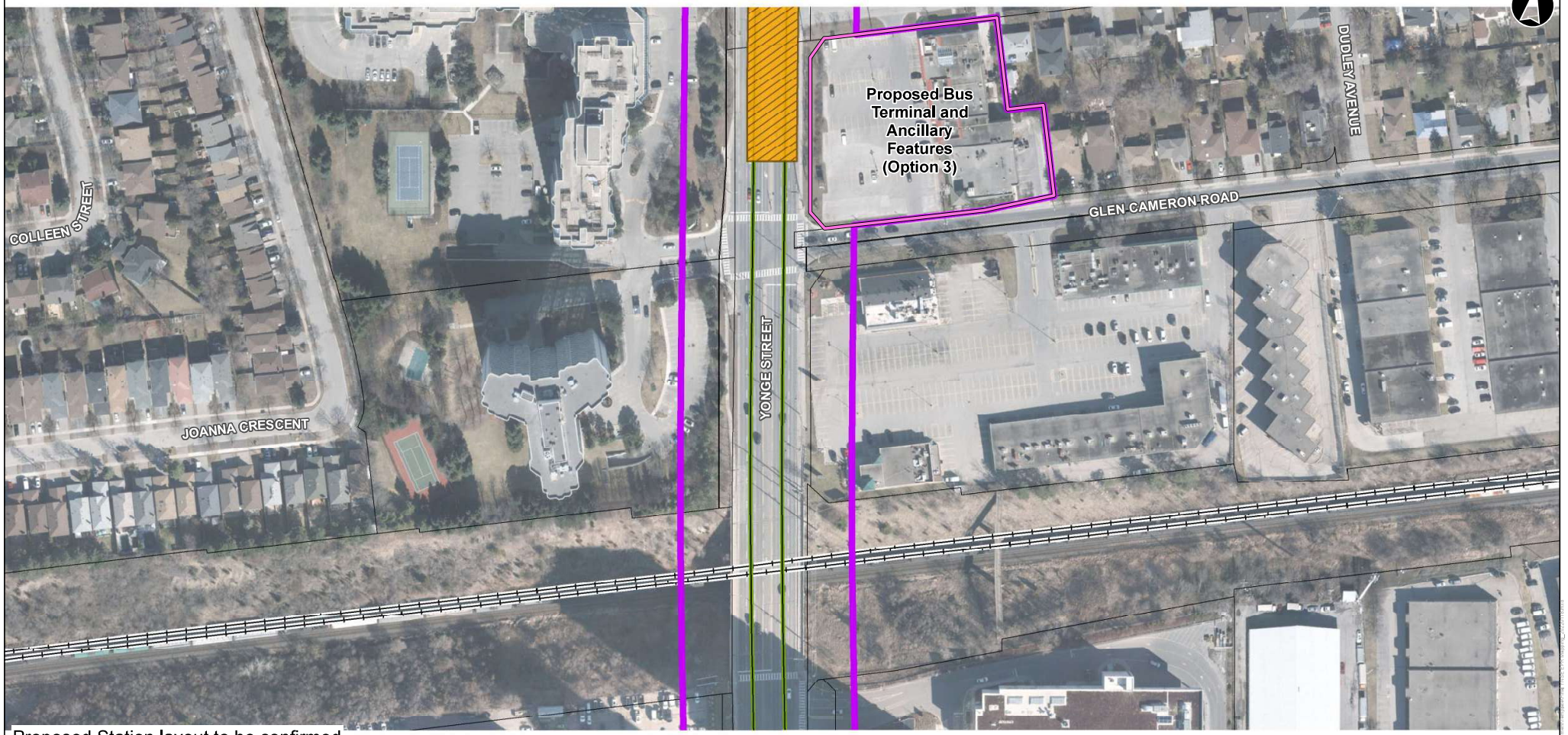
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 1 - Figure 9

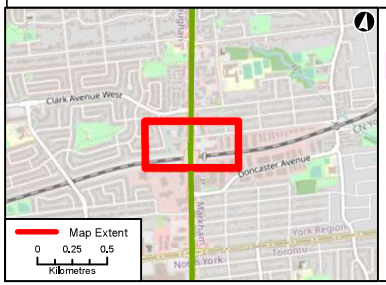
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	



Proposed Station layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Confirmed Station Platform Area
- Proposed Bus Terminal and Ancillary Features
- Existing CN Track
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

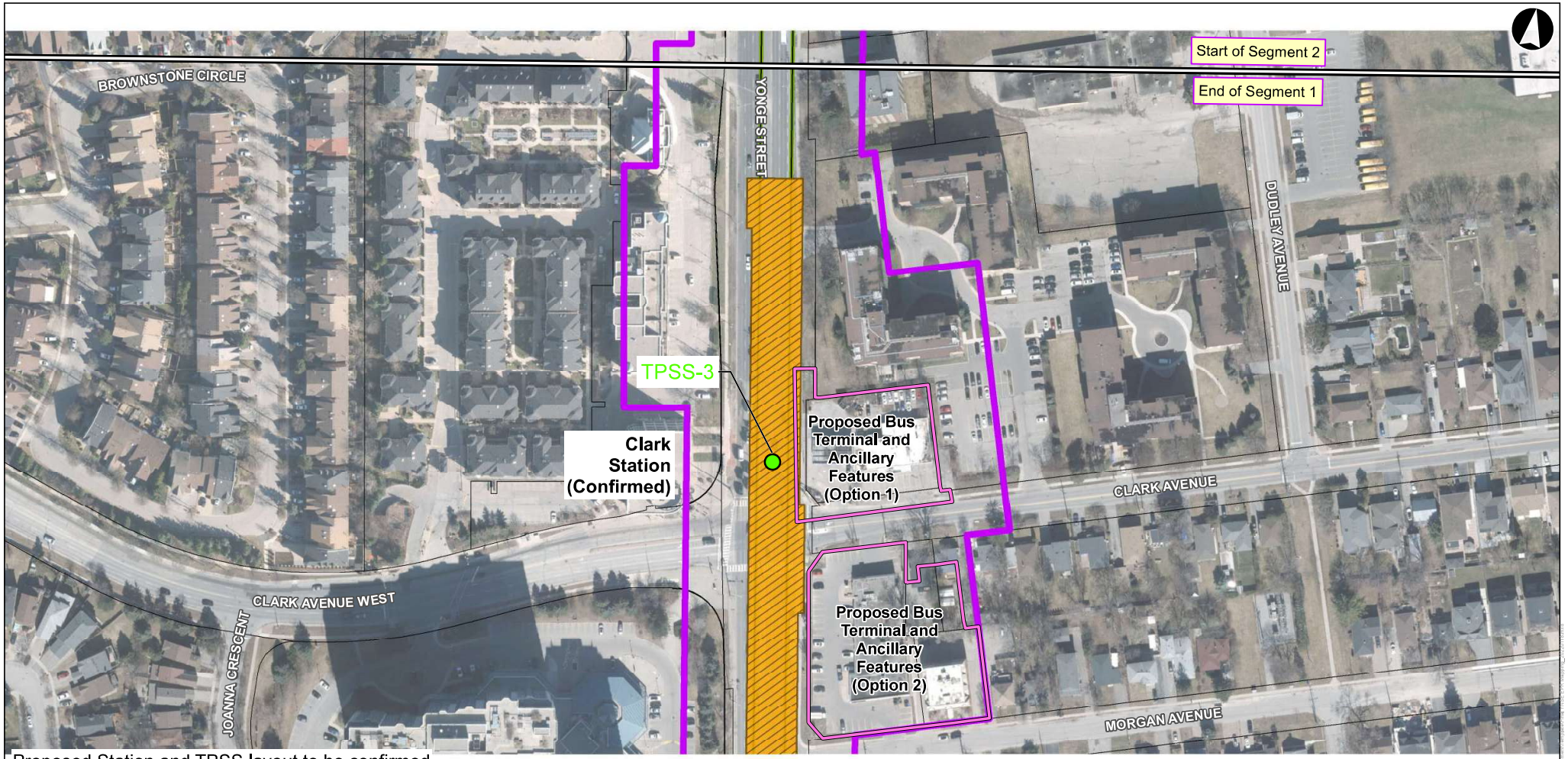
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 1 - Figure 10

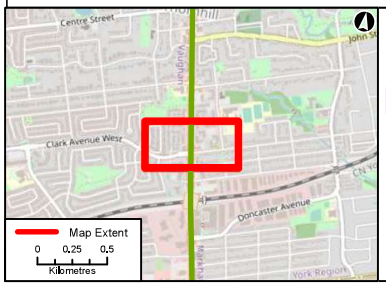
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	



Proposed Station and TPSS layout to be confirmed



Legend

- Study Area Segment Breakline
- Study Area
- Proposed Subway Alignment (Below Grade)
- Confirmed Station Platform Area
- Proposed Bus Terminal and Ancillary Features
- Proposed TPSS Location
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

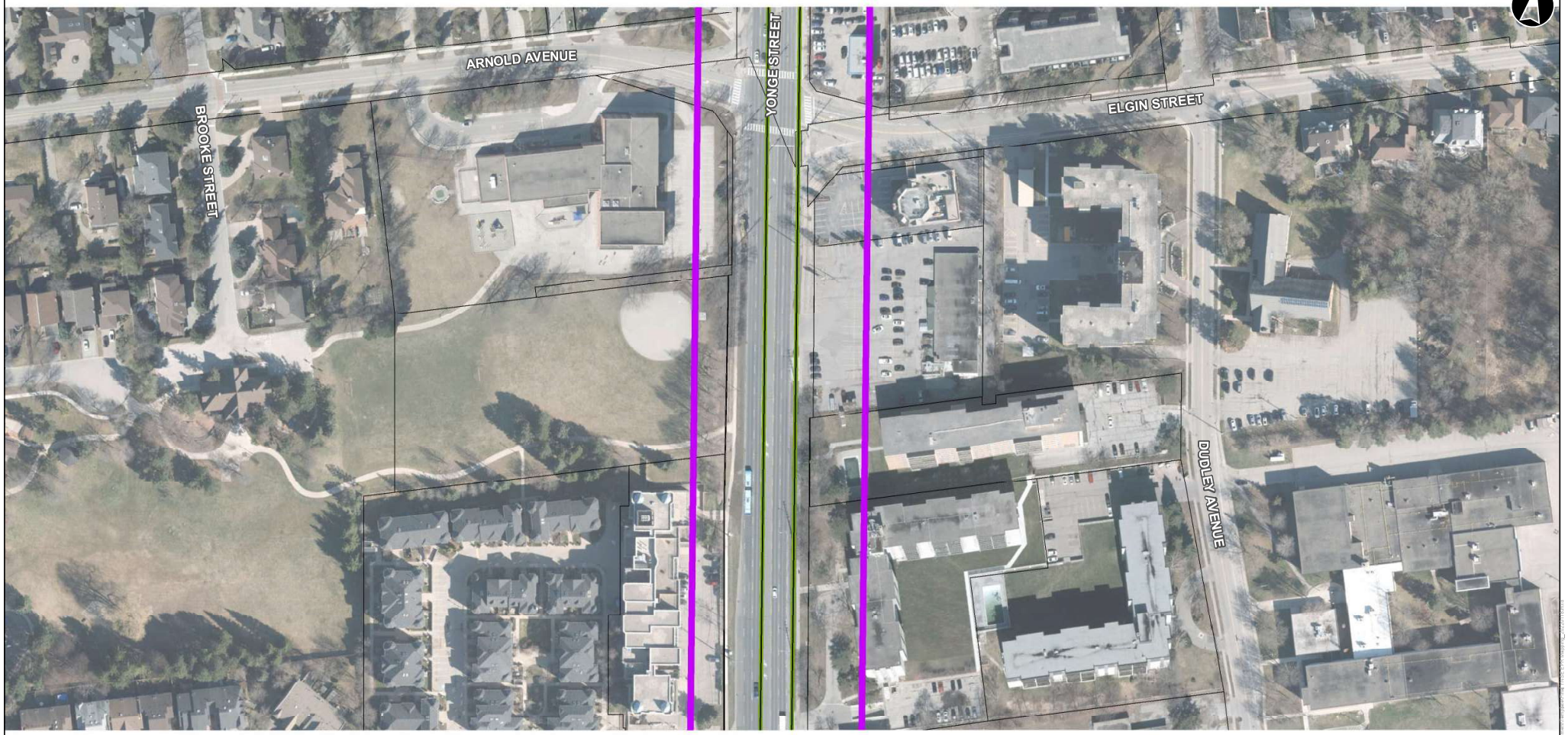
0 25 50
Metres
Datum: NAD27 MTM zone 10

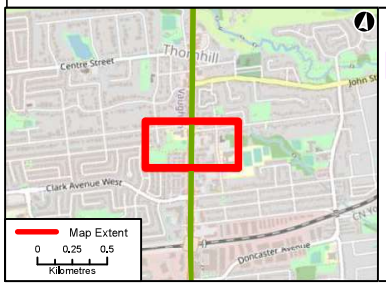
Segment 1/2 - Figure 11

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

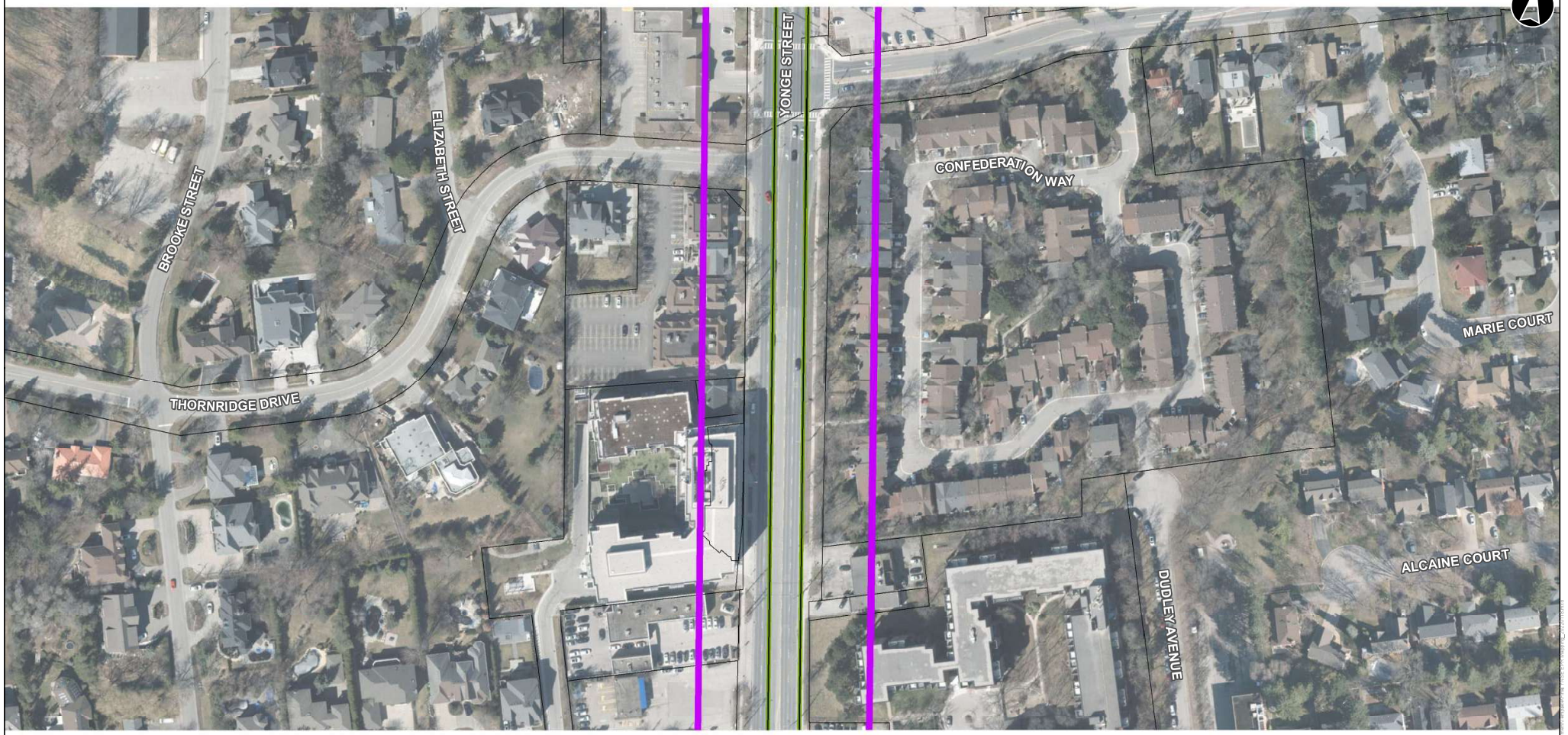
0 25 50
Metres
Datum: NAD27 MTM zone 10

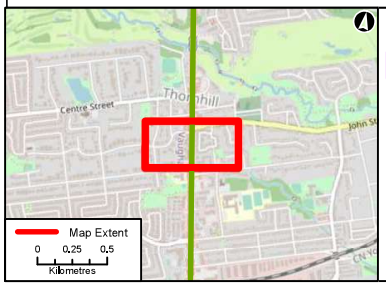
Segment 2 - Figure 12

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

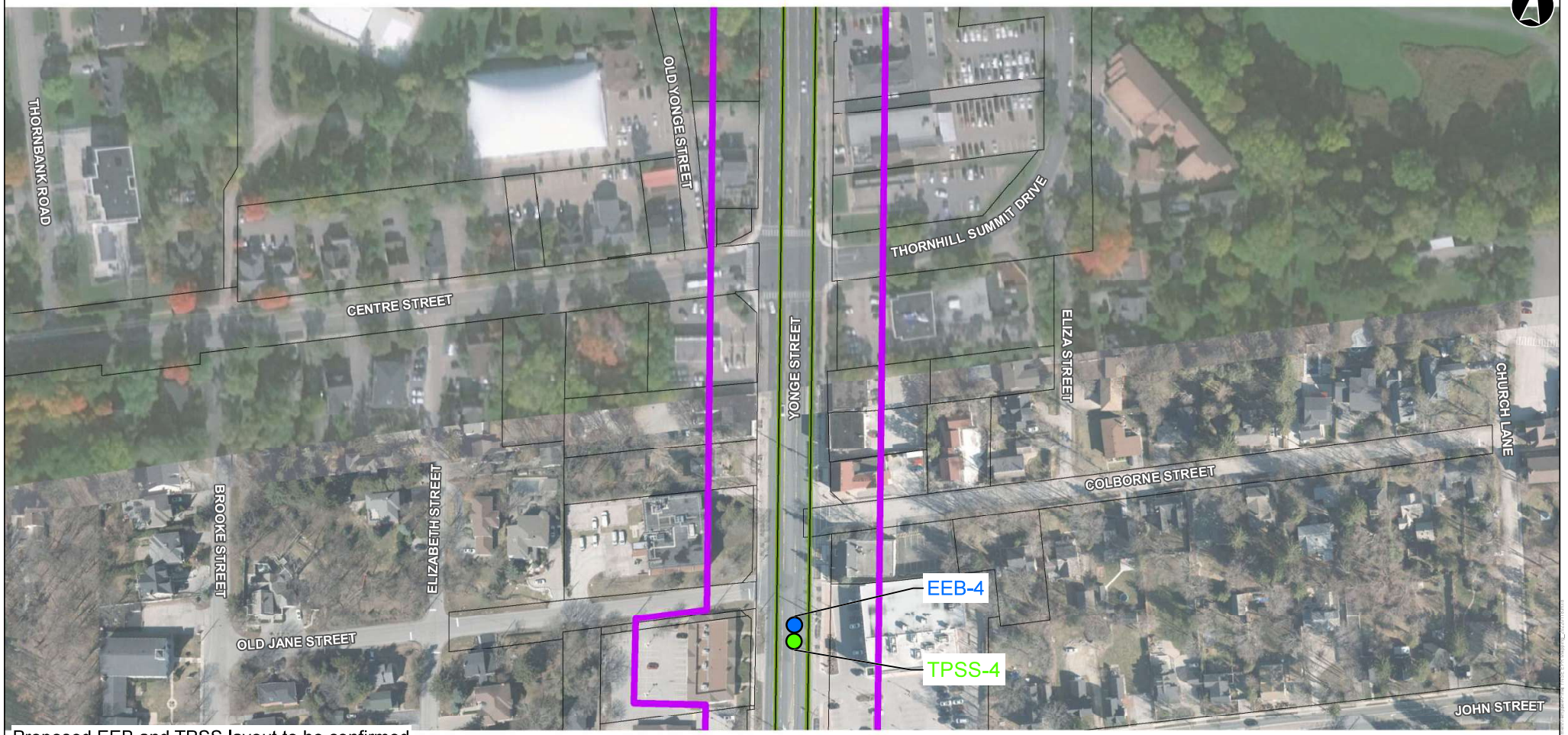
Segment 2 - Figure 13

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One+



Proposed EEB and TPSS layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Proposed TPSS Location
- Proposed EEB Location
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

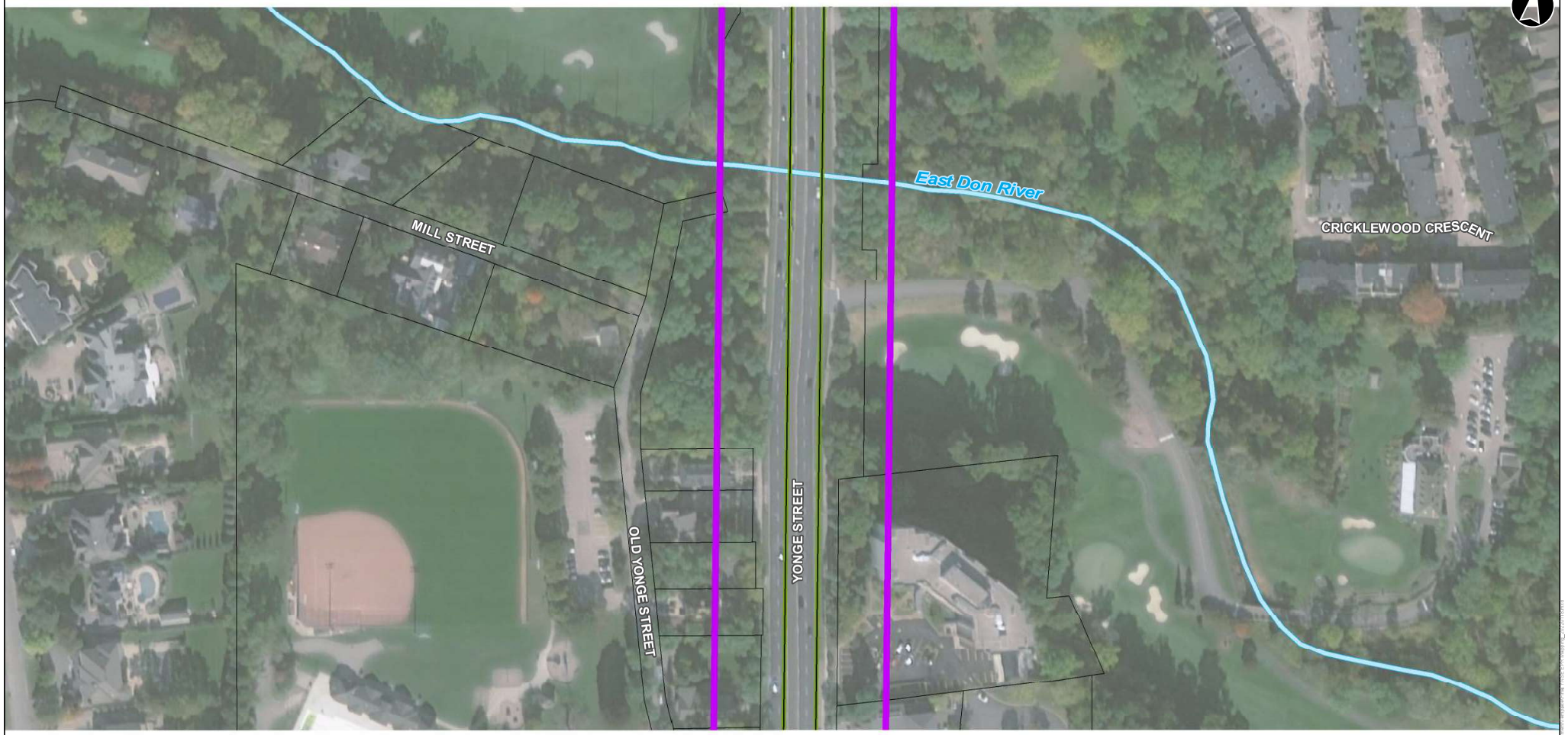
0 25 50
Metres
Datum: NAD27 MTM zone 10

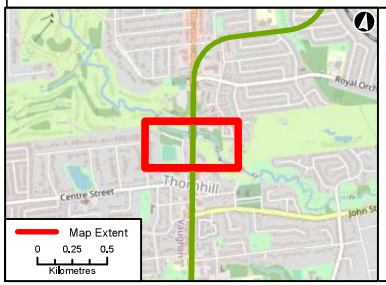
Segment 2 - Figure 14

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Watercourse
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

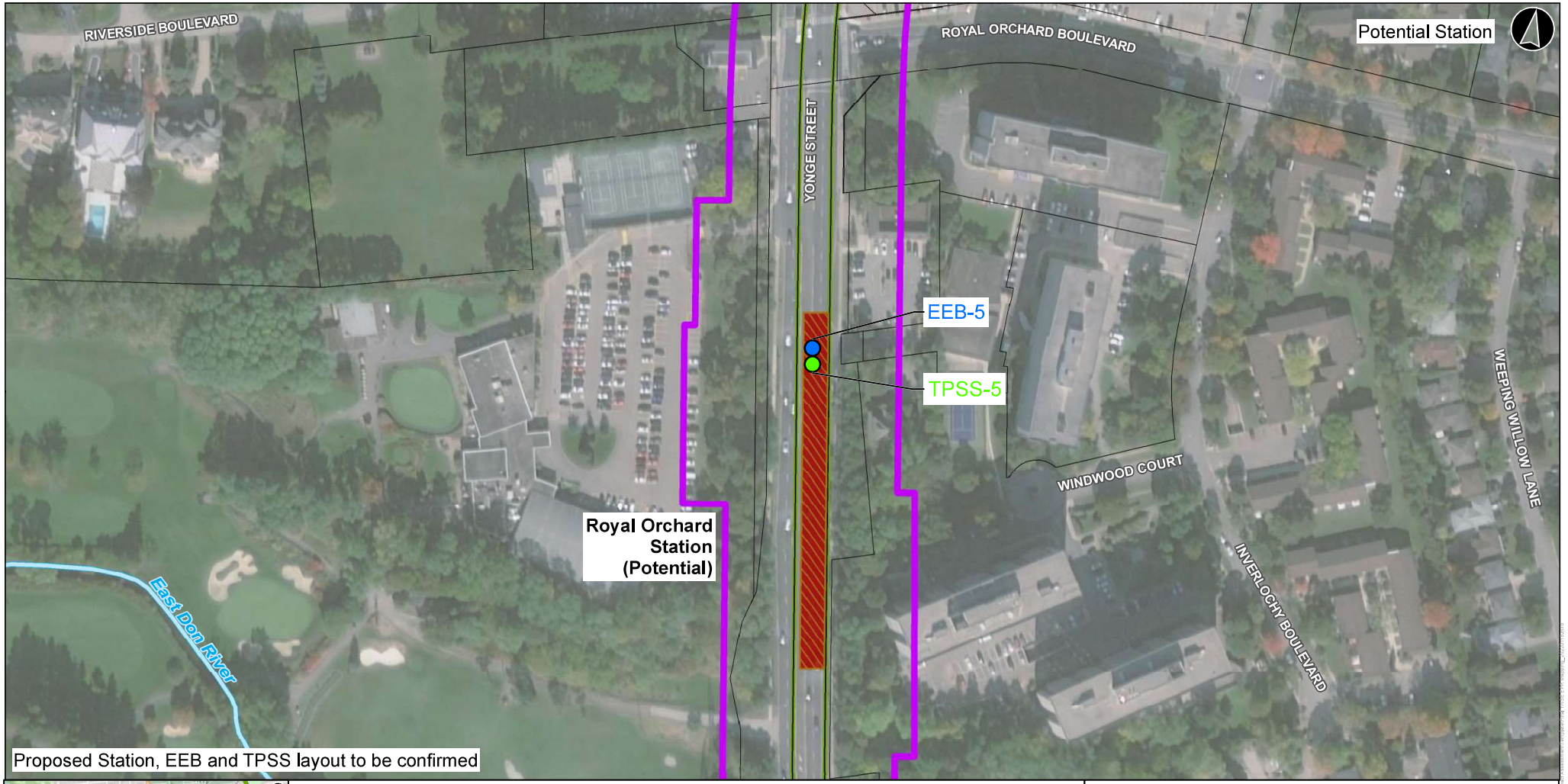
0 25 50
Metres
Datum: NAD27 MTM zone 10

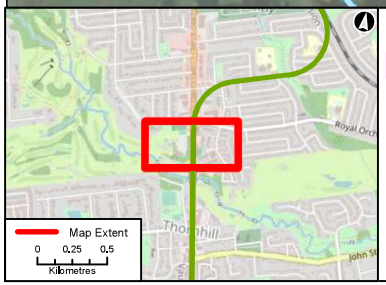
Segment 2 - Figure 15

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One+
P 067400	Rev 0	





Legend

- Study Area
- Property Fabric
- Proposed Subway Alignment (Below Grade)
- Potential Station Platform Area
- Proposed TPSS Location
- Proposed EEB Location
- Watercourse

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

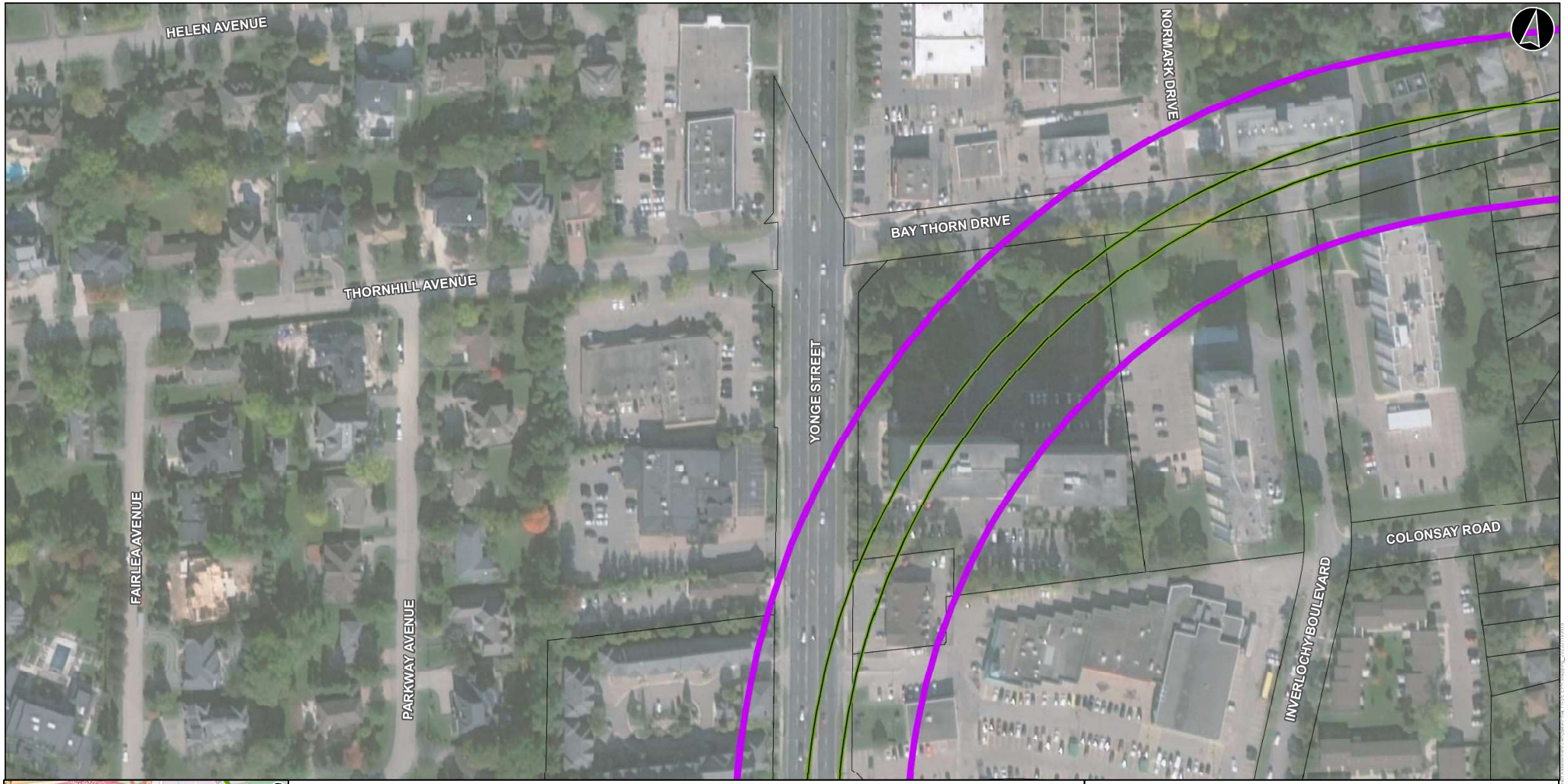
Segment 2 - Figure 16

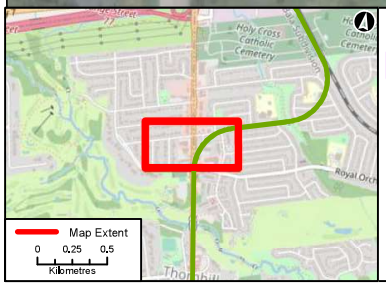
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 2 - Figure 17

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One



Proposed EEB layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Proposed EEB Location
- Watercourse
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 2 - Figure 18

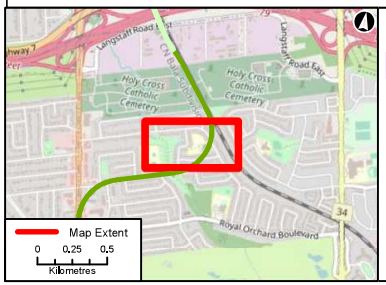
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600	One
P 067400	Rev 0	



Proposed EEB layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Proposed EEB Location
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Watercourse
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

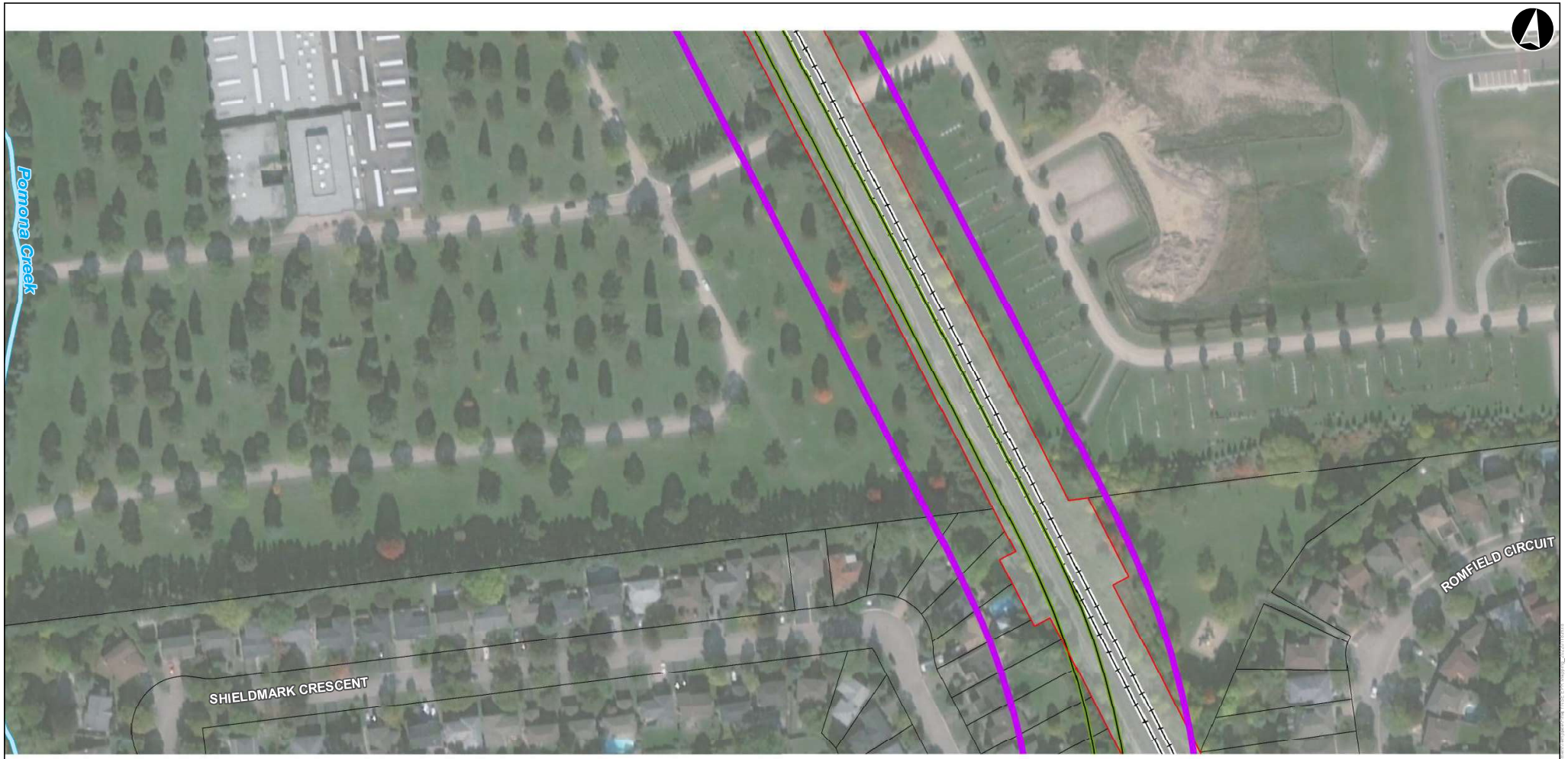
Segment 2 - Figure 19

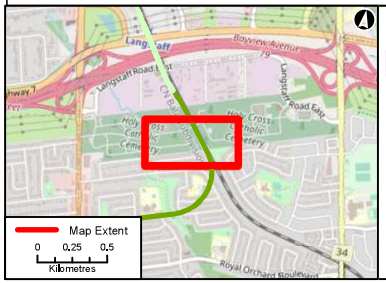
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One+





Legend

- Study Area
- Proposed Subway Alignment (Below Grade)
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Watercourse
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

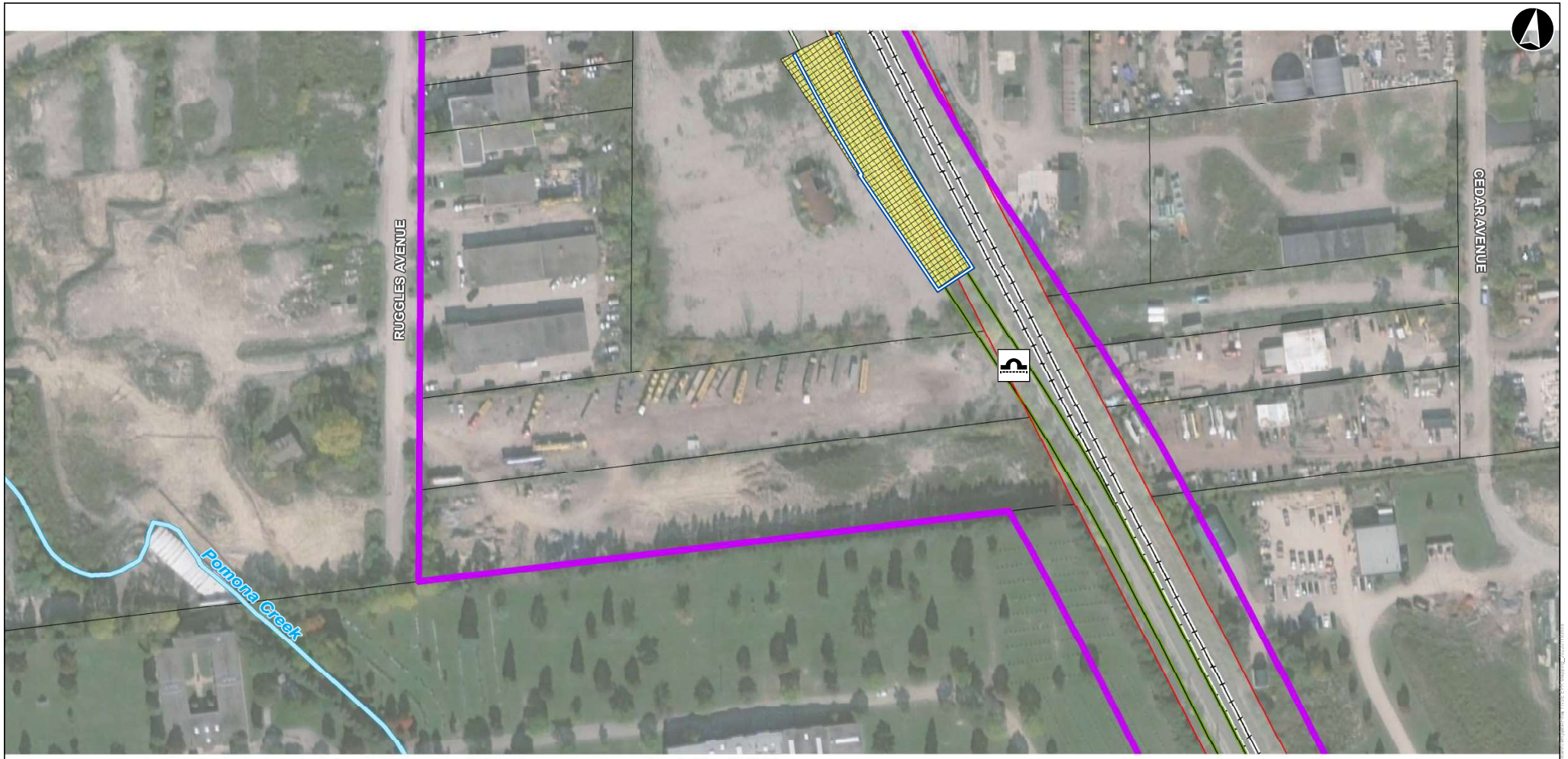
Segment 2 - Figure 20

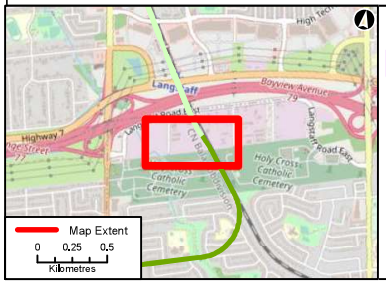
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One+





Legend

- Study Area
- Proposed Subway Alignment (At Grade)
- Proposed Subway Alignment (Below Grade)
- Proposed Launch Shaft
- Proposed Portal Structure
- Proposed Culvert Relocation
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Watercourse
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

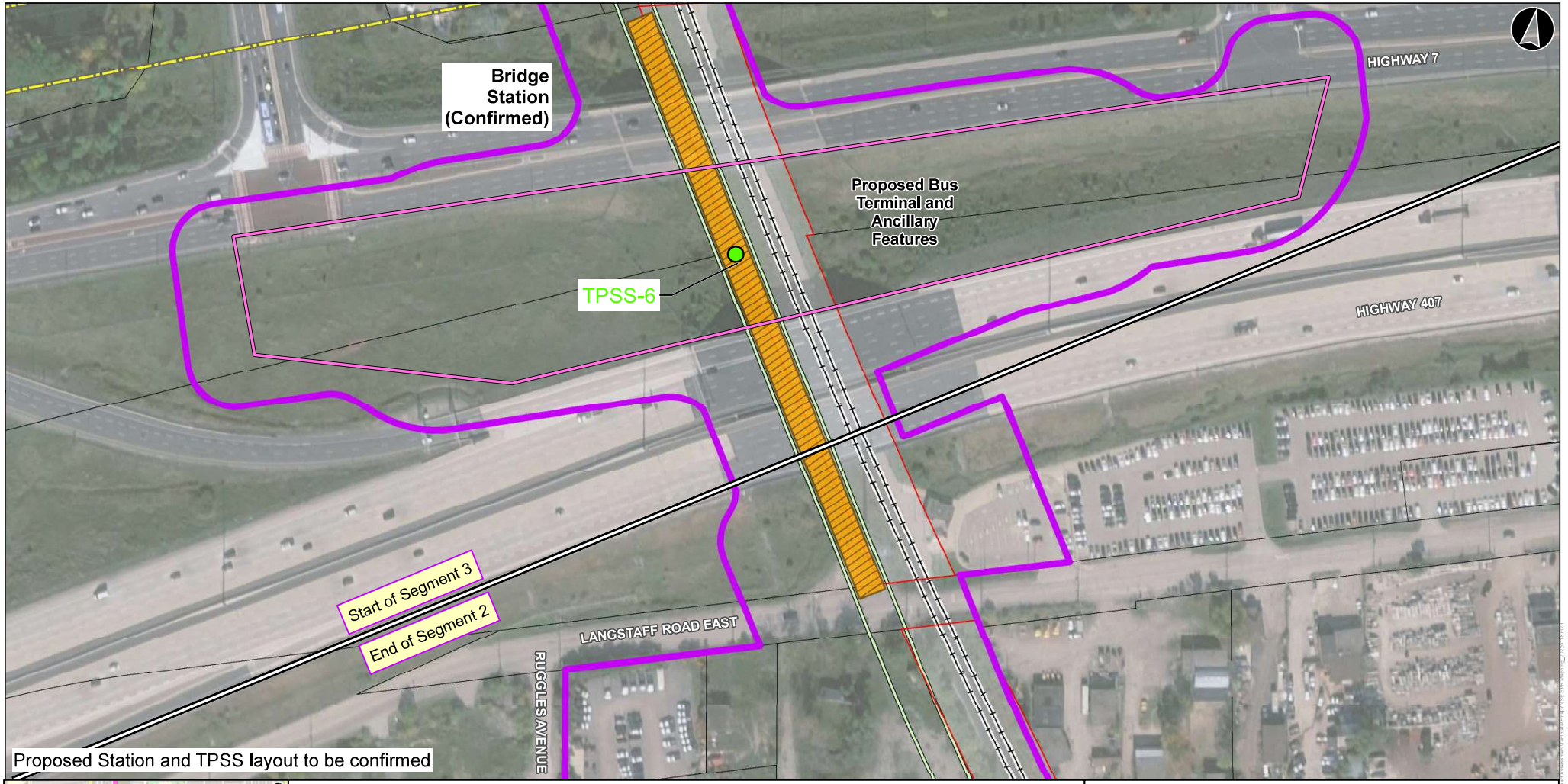
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 2 - Figure 21

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0





Legend

- Study Area Segment Breakline
- Study Area
- Proposed Subway Alignment (At Grade)
- Confirmed Station Platform Area
- Proposed Bus Terminal and Ancillary Features
- Proposed TPSS Location
- Proposed Launch Shaft
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Existing Hydro One Transmission
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

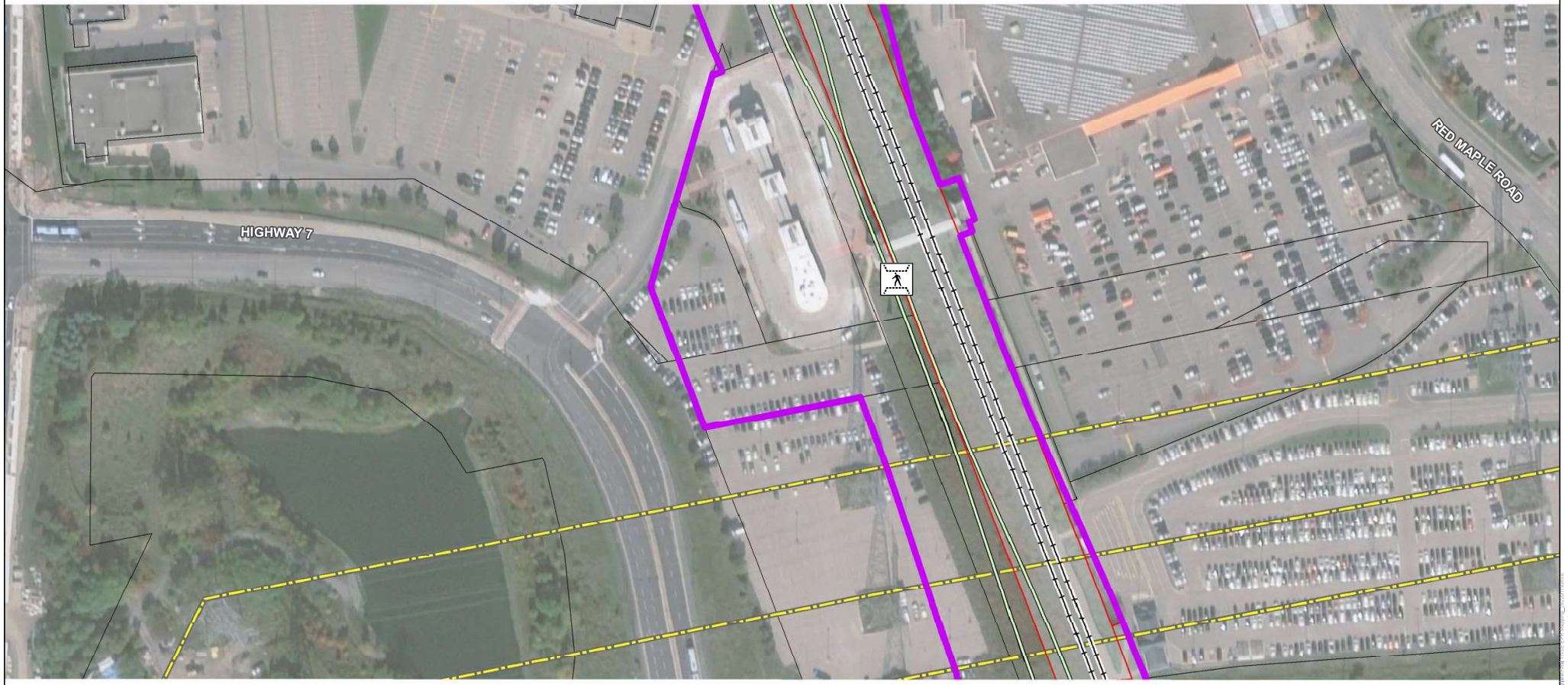
Segment 2/3 - Figure 22

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One





Legend

- Study Area
- Proposed Subway Alignment (At Grade)
- Proposed Temporary Pedestrian Bridge
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Existing Hydro One Transmission
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

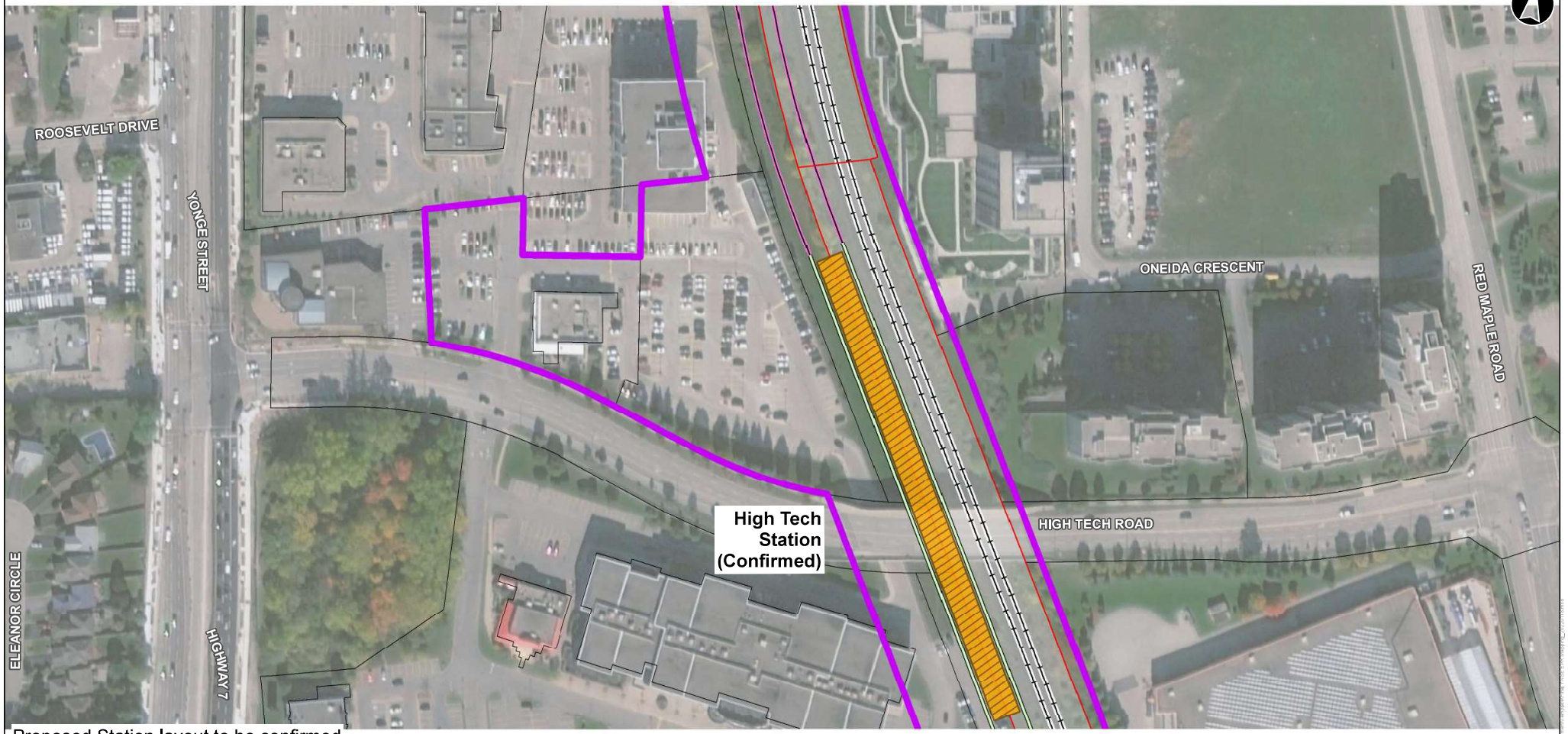
Segment 3 - Figure 23

METROLINX
Infrastructure Ontario

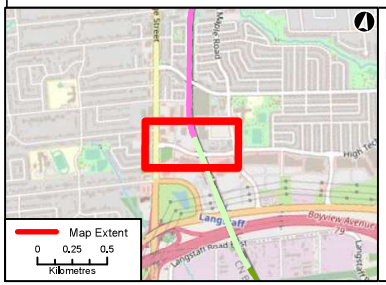
Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One



Proposed Station layout to be confirmed



Legend

- Study Area
- Proposed Subway Alignment (At Grade)
- Proposed Train Storage Facility Alignment
- Confirmed Station Platform Area
- Existing CN Track / Metrolinx Richmond Hill Corridor
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

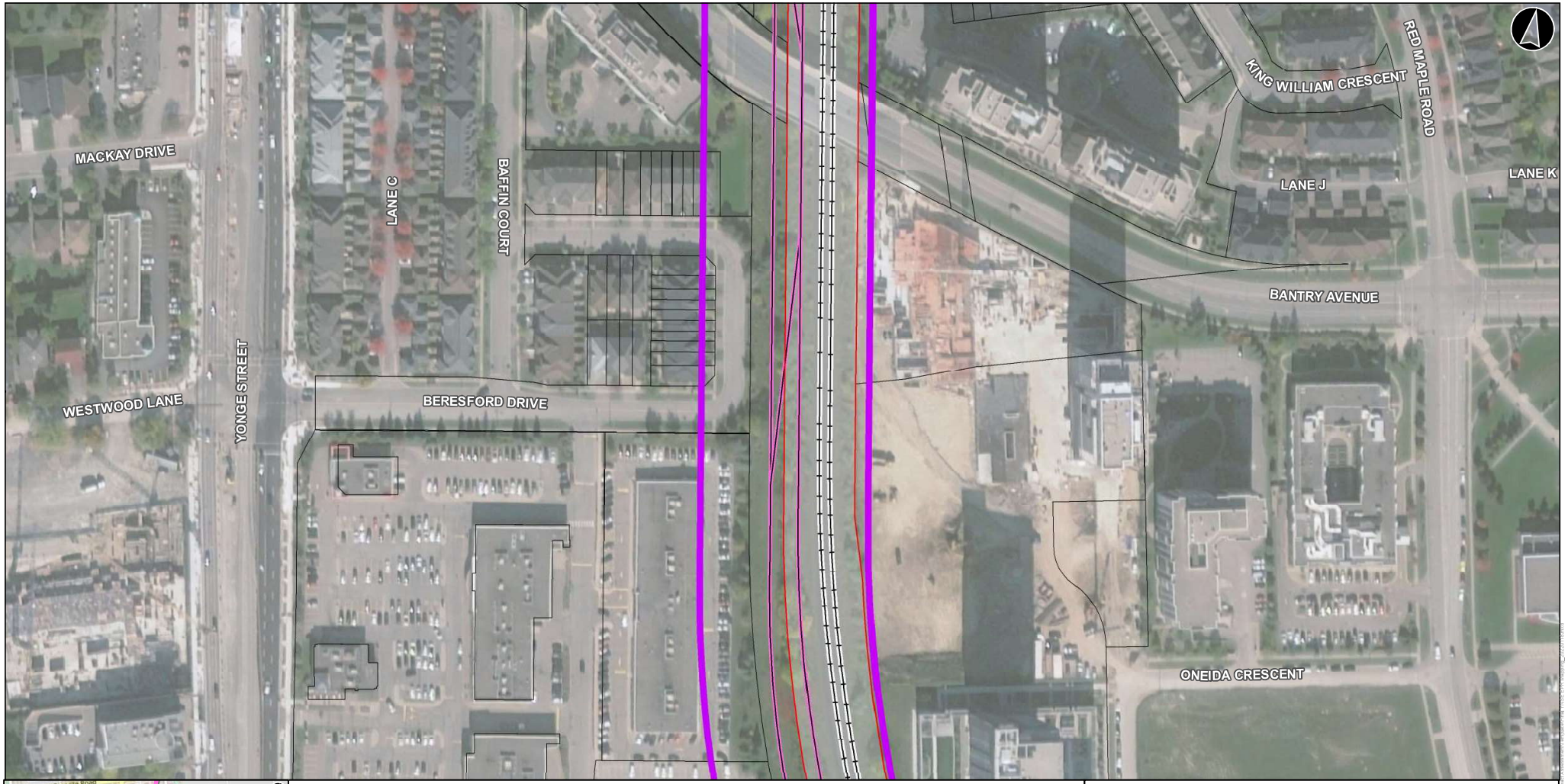
Segment 3 - Figure 24

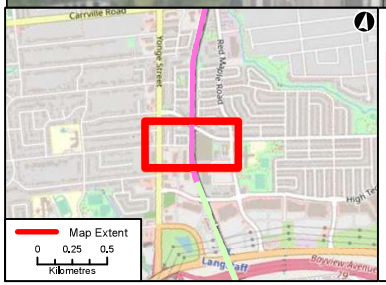
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One





Legend

- Study Area
- Proposed Train Storage Facility Alignment
- Existing CN Track / Metrolinx Richmond Hill Corridor
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

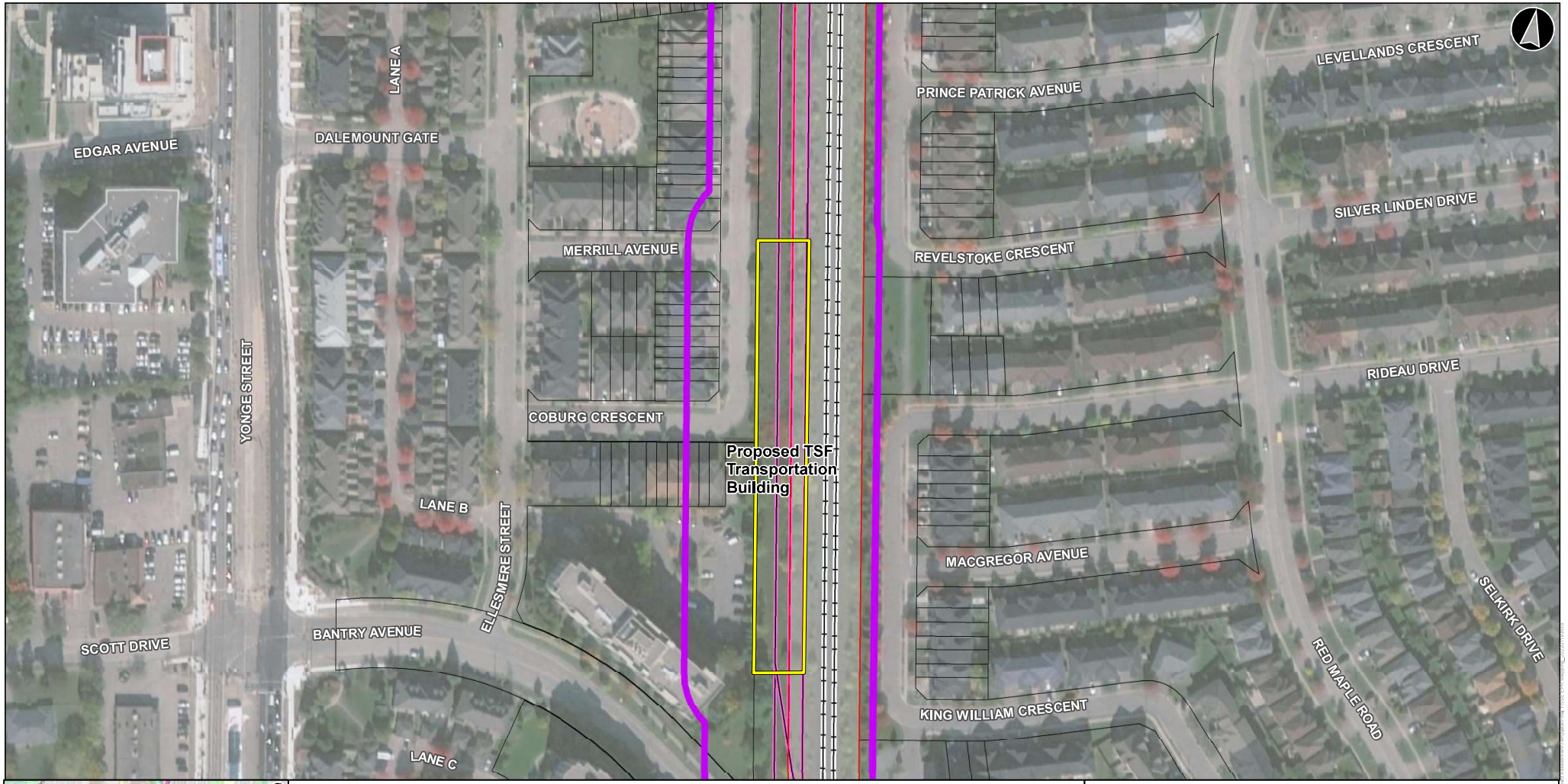
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 3 - Figure 25

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0





Legend

- Study Area
- Proposed Train Storage Facility Alignment
- Proposed TSF Transportation Building
- Existing CN Track / Metrolinx Richmond Hill Corridor
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

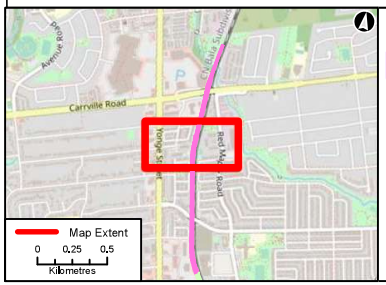
Segment 3 - Figure 26

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0





Legend

- Study Area
- Proposed Train Storage Facility Alignment
- Existing CN Track / Metrolinx Richmond Hill Corridor
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

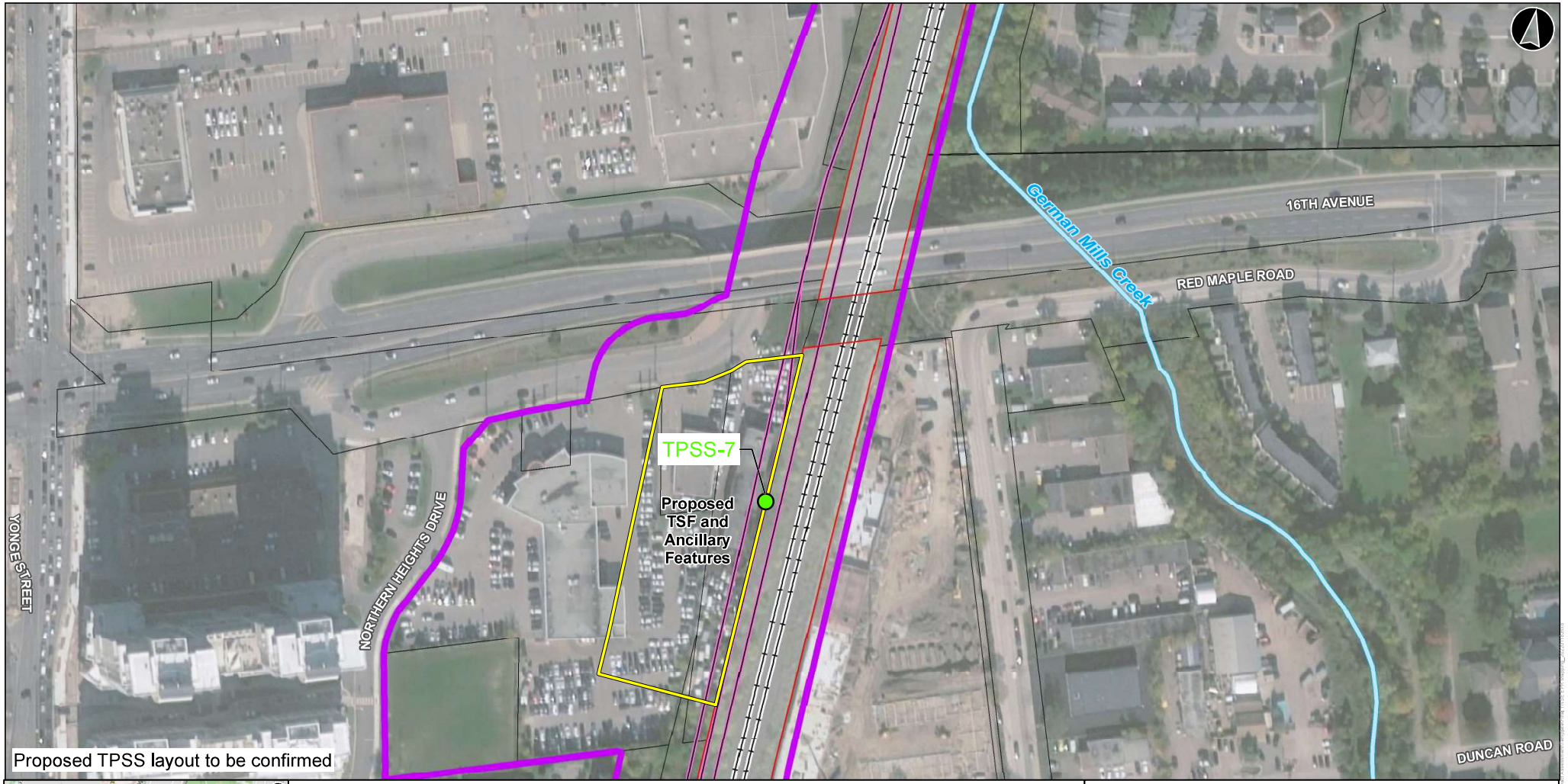
Segment 3 - Figure 27

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One





Legend

- Study Area
- Proposed Train Storage Facility Alignment
- Proposed TSF and Ancillary Features
- Proposed TPSS Location
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Watercourse
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

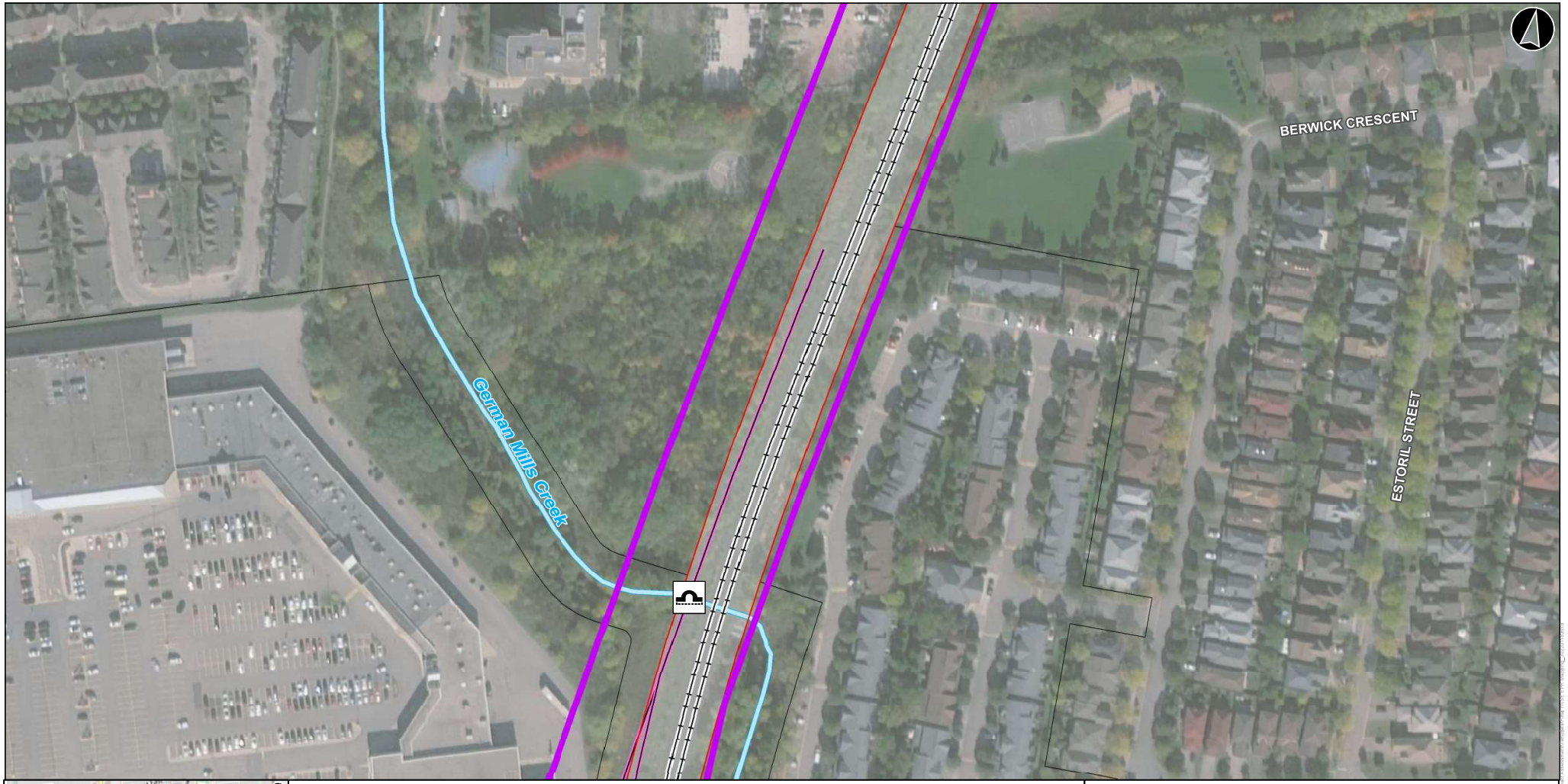
0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 3 - Figure 28

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0





Legend

- Study Area
- Proposed Train Storage Facility Alignment
- Proposed Culvert Replacement
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Watercourse
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 3 - Figure 29

METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0





Legend

- Study Area
- Existing CN Track / Metrolinx Richmond Hill Corridor
- Watercourse
- CN Right-of-Way
- Property Fabric

Designs are conceptual and subject to change.

Yonge North Subway Extension (YNSE)
YNSE EPR Addendum Mapping

0 25 50
Metres
Datum: NAD27 MTM zone 10

Segment 3 - Figure 30

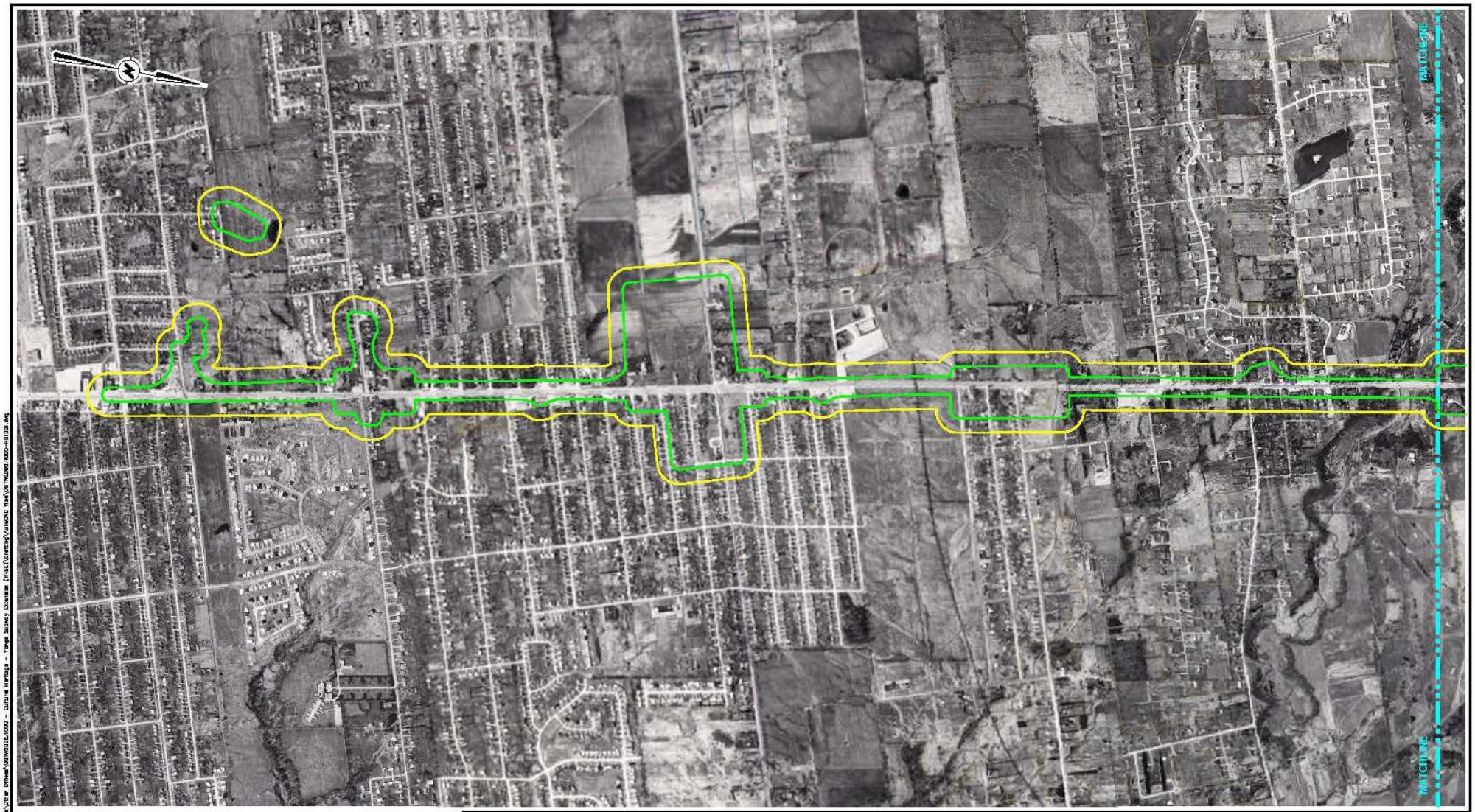
METROLINX
Infrastructure Ontario

Data Sources:
Aerial imagery provided by ESRI dated 2019.
Mapping contains open data from TRCA & Municipal/Provincial Data Catalogues.

Jan, 2022	1:1,600
P 067400	Rev 0

One

APPENDIX B:
AERIAL PHOTOGRAPHS



LEGEND:

- 25m BUFFER STUDY ZONE
- 50m BUFFER STUDY ZONE

0 100 300 500m

SCALE 1:12500

One

Gannett Fleming Canada ULC & IBI Group

DWN BY:	SJL
CHKD BY:	CD
DATUM:	NAD83
PROJECTION:	UTM Zone 17
SCALE:	1:12500

PROJECT:

CULTURAL HERITAGE ASSESSMENT
EXISTING CONDITIONS & IMPACT ASSESSMENT
YOUNG NORTH SUBWAY EXTENSION (YNSE)
TORONTO, ONTARIO

TITLE:

AERIAL PHOTOGRAPHS - 1959

DATE:	NOVEMBER 2021
PROJECT No:	OG TW2005.4000
REV No:	1
PLATE No:	A1

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LEGEND:

25m BUFFER STUDY ZONE

50m BUFFER STUDY ZONE

0 100 300 500m

SCALE 1:12500

One+

Gannett Fleming Canada ULC & IBI Group

DWN BY:	SJL
CHK'D BY:	CD
DATUM:	NAD83
PROJECTION:	UTM Zone 17
SCALE:	1:12500

PROJECT:

CULTURAL HERITAGE ASSESSMENT
EXISTING CONDITIONS & IMPACT ASSESSMENT
YOUNG NORTH SUBWAY EXTENSION (YNSE)
TORONTO, ONTARIO

TITLE:

AERIAL PHOTOGRAPHS - 1959

DATE:	NOVEMBER 2021
PROJECT No:	OGTW2005.4000
REV No:	1
PLATE No:	A2

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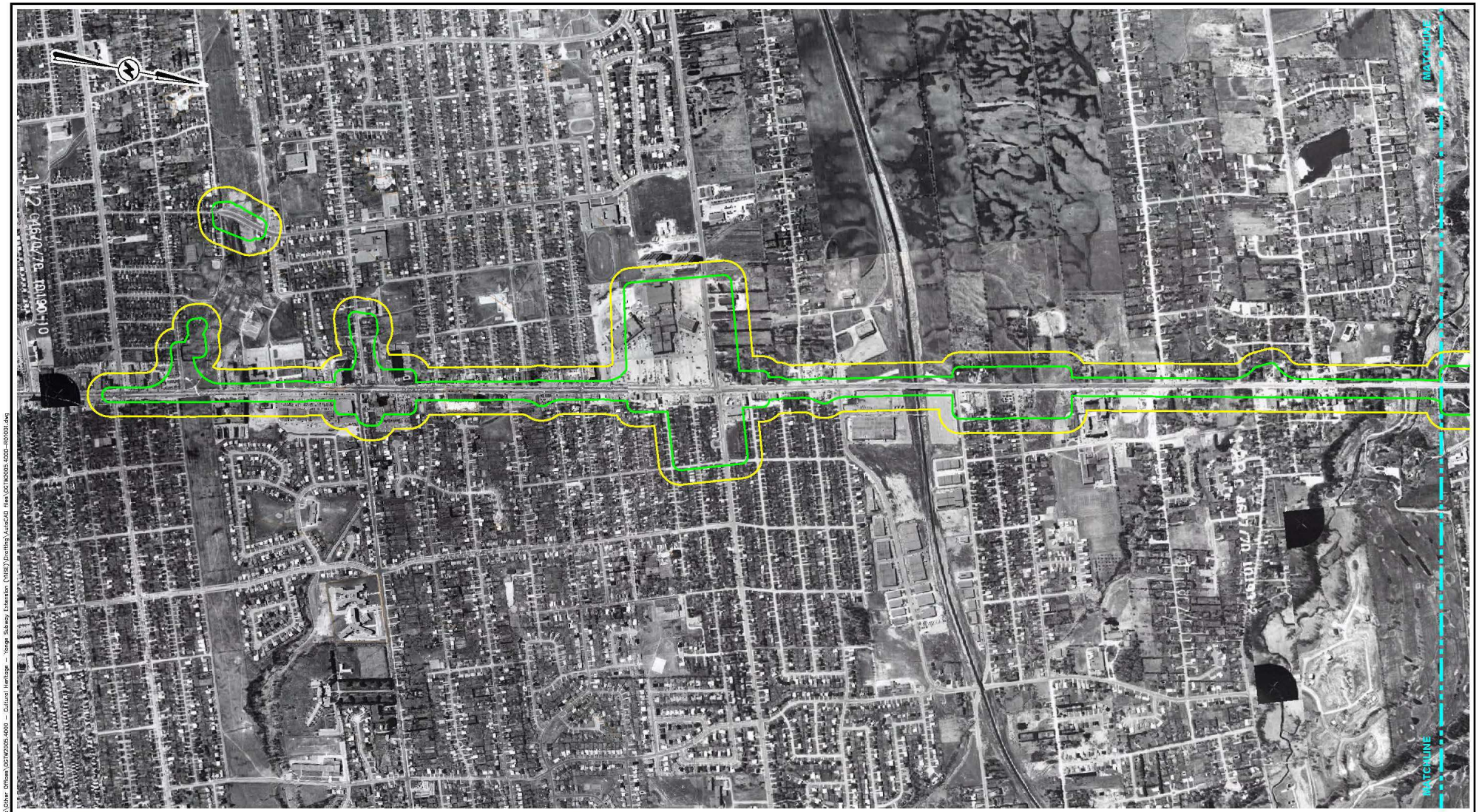

LEGEND:
- 25m BUFFER STUDY ZONE
- 50m BUFFER STUDY ZONE

0 100 300 500m
SCALE 1:12500

One+
Gannett Fleming Canada ULC & IBI Group

DWN BY:	SJL
CHK'D BY:	CD
DATUM:	NAD83
PROJECTION:	UTM Zone 17
SCALE:	1:12500

PROJECT:
CULTURAL HERITAGE ASSESSMENT
EXISTING CONDITIONS & IMPACT ASSESSMENT
YOUNG NORTH SUBWAY EXTENSION (YNSE)
TORONTO, ONTARIO

TITLE:
AERIAL PHOTOGRAPHS - 1970

DATE:	NOVEMBER 2021
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PLATE No:	B1

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LEGEND:

25m BUFFER STUDY ZONE

50m BUFFER STUDY ZONE

0 100 300 500m

SCALE 1:12500

One+

Gannett Fleming Canada ULC & IBI Group

DWN BY:	SJL
CHK'D BY:	CD
DATUM:	NAD83
PROJECTION:	UTM Zone 17
SCALE:	1:12500

PROJECT:

CULTURAL HERITAGE ASSESSMENT
EXISTING CONDITIONS & IMPACT ASSESSMENT
YOUNG NORTH SUBWAY EXTENSION (YNSE)
TORONTO, ONTARIO

TITLE:

AERIAL PHOTOGRAPHS - 1970

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LEGEND:
- 25m BUFFER STUDY ZONE
- 50m BUFFER STUDY ZONE

0 100 300 500m
SCALE 1:12500

One+
Gannett Fleming Canada ULC & IBI Group

DWN BY:	SJL
CHK'D BY:	CD
DATUM:	NAD83
PROJECTION:	UTM Zone 17
SCALE:	1:12500

PROJECT: CULTURAL HERITAGE ASSESSMENT
EXISTING CONDITIONS & IMPACT ASSESSMENT
YOUNG NORTH SUBWAY EXTENSION (YNSE)
TORONTO, ONTARIO

TITLE: AERIAL PHOTOGRAPHS - 1977

DATE:	NOVEMBER 2021
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PLATE No:	C1

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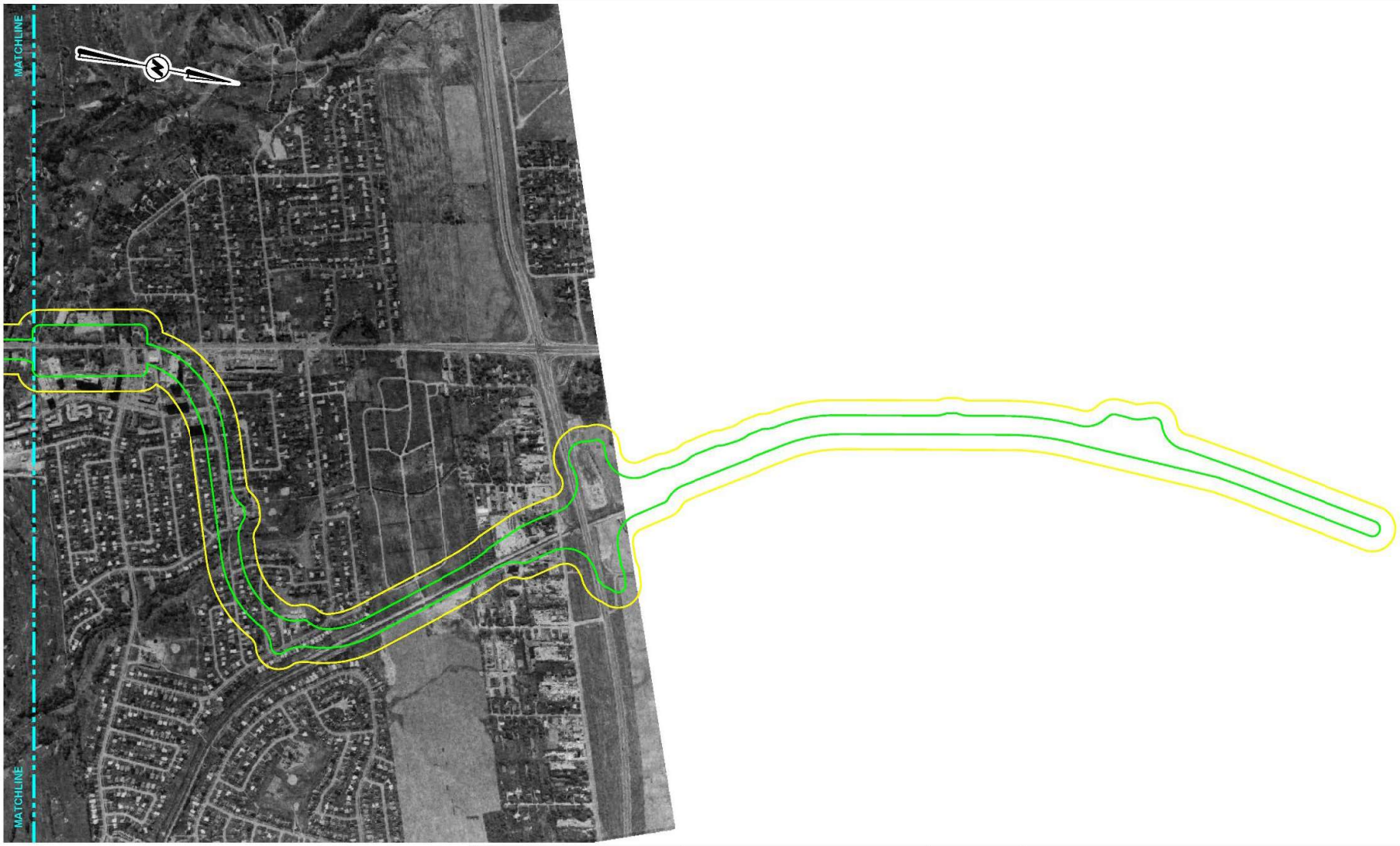

LEGEND:

- 25m BUFFER STUDY ZONE
- 50m BUFFER STUDY ZONE

0 100 300 500m

SCALE 1:12500

One

Gannett Fleming Canada ULC & IBI Group

DWN BY:	SJL
CHK'D BY:	CD
DATUM:	NAD83
PROJECTION:	UTM Zone 17
SCALE:	1:12500

PROJECT:

CULTURAL HERITAGE ASSESSMENT
EXISTING CONDITIONS & IMPACT ASSESSMENT
YOUNG NORTH SUBWAY EXTENSION (YNSE)
TORONTO, ONTARIO

TITLE:

AERIAL PHOTOGRAPHS - 1977

DATE:	NOVEMBER 2021
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PLATE No:	C2

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APPENDIX C:
ASSESSOR QUALIFICATIONS

ASSESSOR QUALIFICATIONS

Heidy Schopf, MES, CAHP – Built Heritage and Cultural Landscape Team Lead - Ms. Schopf is a Senior Cultural Heritage Specialist at Wood and has worked in the field of Cultural Resource Management since 2007. She is a Professional Member of CAHP. She has worked on a wide variety of projects throughout Ontario, including cultural heritage resources assessments, heritage impact assessments, heritage documentation reports (photographic and 3D/LiDAR), cultural heritage evaluations, strategic conservation plans, HCD studies and plans, heritage feasibility studies, and archaeological assessments. Ms. Schopf has extensive experience applying local, Provincial, and Federal heritage guidelines and regulations to evaluate protected and potential cultural heritage properties. She is skilled at carrying out impact assessments and developing mitigation measures to conserve the heritage attributes of properties where changes are proposed. Ms. Schopf has completed hundreds of cultural heritage projects under a variety of processes, including: *Environmental Assessment Act, Planning Act, Ontario Heritage Act, Transit Project Assessment Process,* Renewable Energy Approval, and Ontario Energy Board.

Peter Popkin, Ph.D., CAHP, MCIfA, Associate Archaeologist – Dr. Popkin is an Associate Archaeologist at Wood. Peter has over 20 years of professional experience in both consulting and academic archaeology within Canada and internationally. In Ontario he has successfully undertaken consultant archaeology projects triggered by: the Planning Act (subdivisions, site plans, re-zoning, official plan amendments, consent), the Environmental Assessment Act (individual and Class EAs, provincial and federal EAs), the Environmental Protection Act (Renewable Energy Approvals O.Reg 359/09), as well as the Aggregates Resources Act (aggregate pit extensions), and has managed projects under the National Energy Board Act (now the Canadian Energy Regulator Act). Dr. Popkin has lectured in archaeology at York University, the University of Toronto and Wilfrid Laurier University in Ontario, as well as University College London, King's College London, and Birkbeck College, in the UK. Dr. Popkin holds a Professional Archaeological Licence (P362) from the MHSTCI, is a Professional Member of the Canadian Association of Heritage Professionals (CAHP) and is a full Member of the Chartered Institute for Archaeologists (MCIfA). Dr. Popkin received his Ph.D. from the Institute of Archaeology, University College London, London, UK (2009).

Chelsea Dickinson B.A., Cultural Heritage Specialist and Research Archaeologist (R1194) - Ms. Dickinson has been working in consulting archaeology since 2015. During this time, Ms. Dickinson has developed a variety of archaeological skills, from background research to Stage 4 excavations laboratory work, and environmental assessments (EA) conducted for the development of wind and solar farms, hydro line corridors and municipal roadway. Ms. Dickinson has had the privilege of working alongside a multitude of First Nation community members while conducting archaeological assessments in both Northern and Southern Ontario. Ms. Dickinson holds an honorary Degree in Near Eastern and Classical Archaeology from Wilfrid Laurier University, and a Post-Graduate Certificate in Geographical Information Systems from Fanshawe College. Ms. Dickinson holds an Applied Research Licence (R1194) from the Ontario MHSTCI.

Luke Fischer, MA, CAHP - Cultural Heritage Specialist: Mr. Fischer is an intermediate Heritage Specialist and Senior Archaeologist who has been working in the Cultural Heritage field since 2002. In addition to his experience in Ontario, he has worked on linear corridor studies in Alberta, British Columbia, and Illinois. Mr. Fischer has successfully authored and managed the production of Cultural Heritage Evaluation Reports and Heritage Impact Assessments for multiple clients during his time at Wood. Mr. Fischer is a member of the Canadian Association of Heritage Professionals (CAHP) and sits on the London Advisory Committee on Heritage (LACH). Mr. Fischer's graduate studies included the examination of Ontario architecture and built landscape as it applies to social themes common to anthropological discourse. Mr. Fischer holds a Professional Archaeology License (P219) issued by the Ontario Ministry of Heritage, Sport, Tourism and Culture Industries.