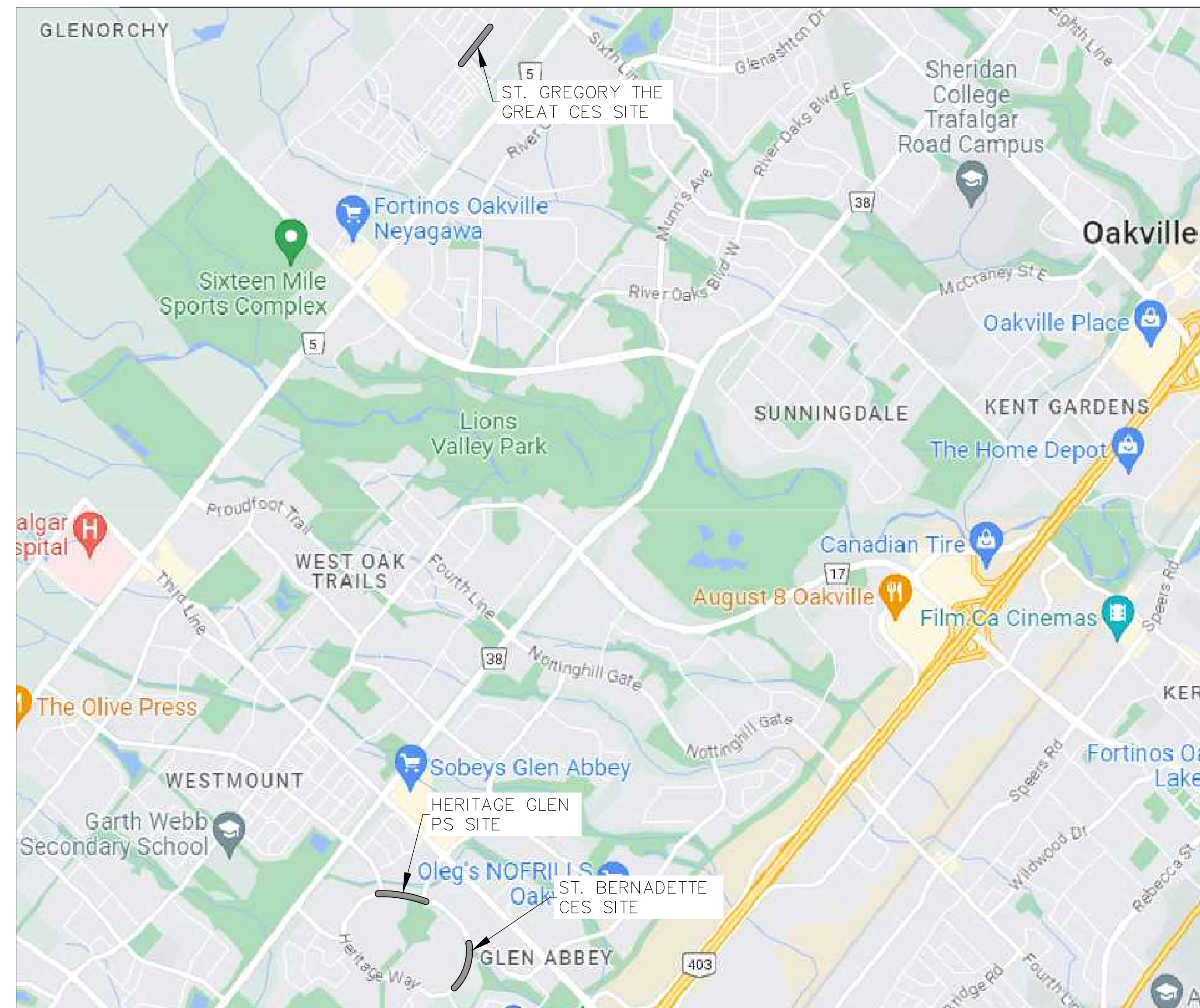




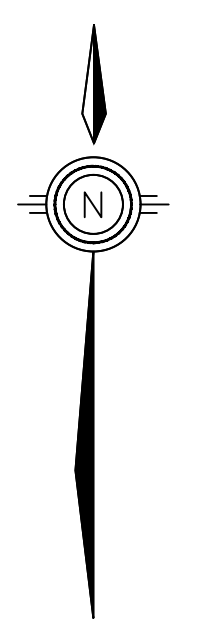
**Town of Oakville**  
Transportation and Engineering

# TRAFFIC CALMING MEASURES SIXTEEN MILE ROAD & HERITAGE WAY RFT##-####

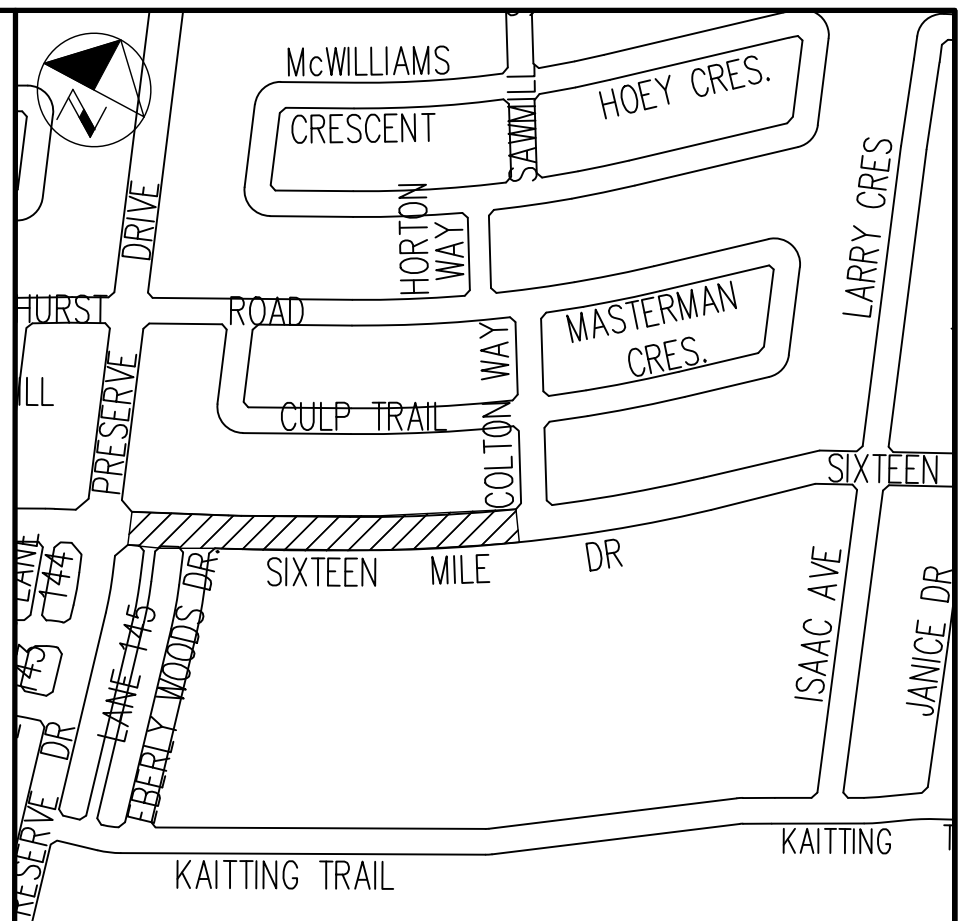
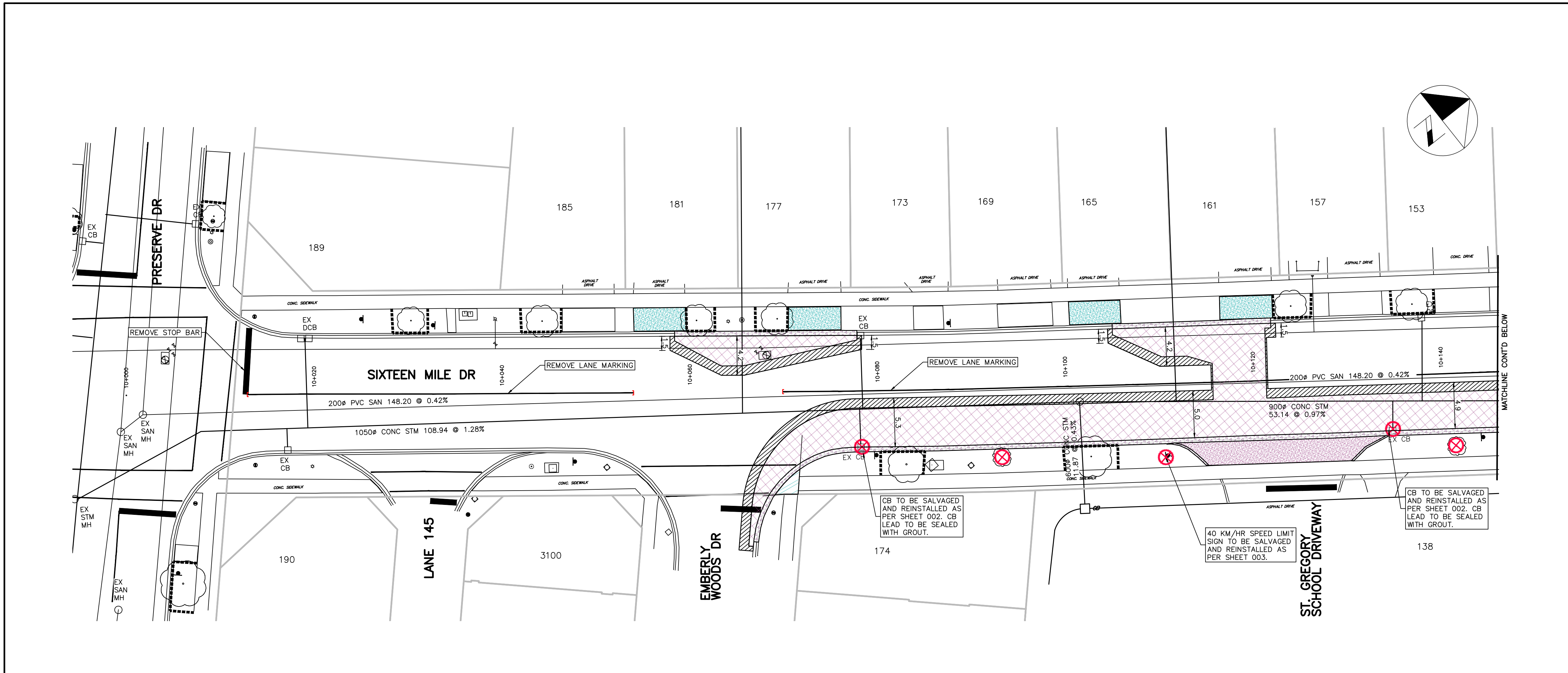
DRAWING LIST	
DRAWING NO.	DESCRIPTION
001	ST. GREGORY THE GREAT CES - REMOVALS PLAN
002	ST. GREGORY THE GREAT CES - NEW CONSTRUCTION
003	ST. GREGORY THE GREAT CES - PAVEMENT MARKING PLAN
004	ST. GREGORY THE GREAT CES - DETAILS
005	ST. BERNADETTE CES - REMOVALS PLAN - 10+000 TO 10+290
006	ST. BERNADETTE CES - REMOVALS PLAN - 10+290 TO 10+400
007	ST. BERNADETTE CES - NEW CONSTRUCTION - 10+000 TO 10+290
008	ST. BERNADETTE CES - NEW CONSTRUCTION - 10+290 TO 10+400
009	ST. BERNADETTE CES - PAVEMENT MARKING PLAN - 10+000 TO 10+290
010	ST. BERNADETTE CES - PAVEMENT MARKING PLAN - 10+290 TO 10+400
011	HERITAGE GLEN PS - REMOVALS PLAN
012	HERITAGE GLEN PS - NEW CONSTRUCTION
013	HERITAGE GLEN PS - PAVEMENT MARKING PLAN
014	DETAILS
TPP-1	ST. GREGORY THE GREAT CES - TREE PROTECTION PLAN
TPP-2	ST. GREGORY THE GREAT CES - TREE PROTECTION PLAN
TPP-3	ST. BERNADETTE CES - TREE PROTECTION PLAN
TPP-4	ST. BERNADETTE CES - TREE PROTECTION PLAN
TPP-5	HERITAGE GLEN PS - TREE PROTECTION PLAN
TPP-6	HERITAGE GLEN PS - TREE PROTECTION PLAN



SOURCE: 2023 GOOGLE



A:\2024\Bentley\Dash 7.0 - Production\17.03 - Design\04 - Civil\Sheet\Oakville\_Cover.dwg



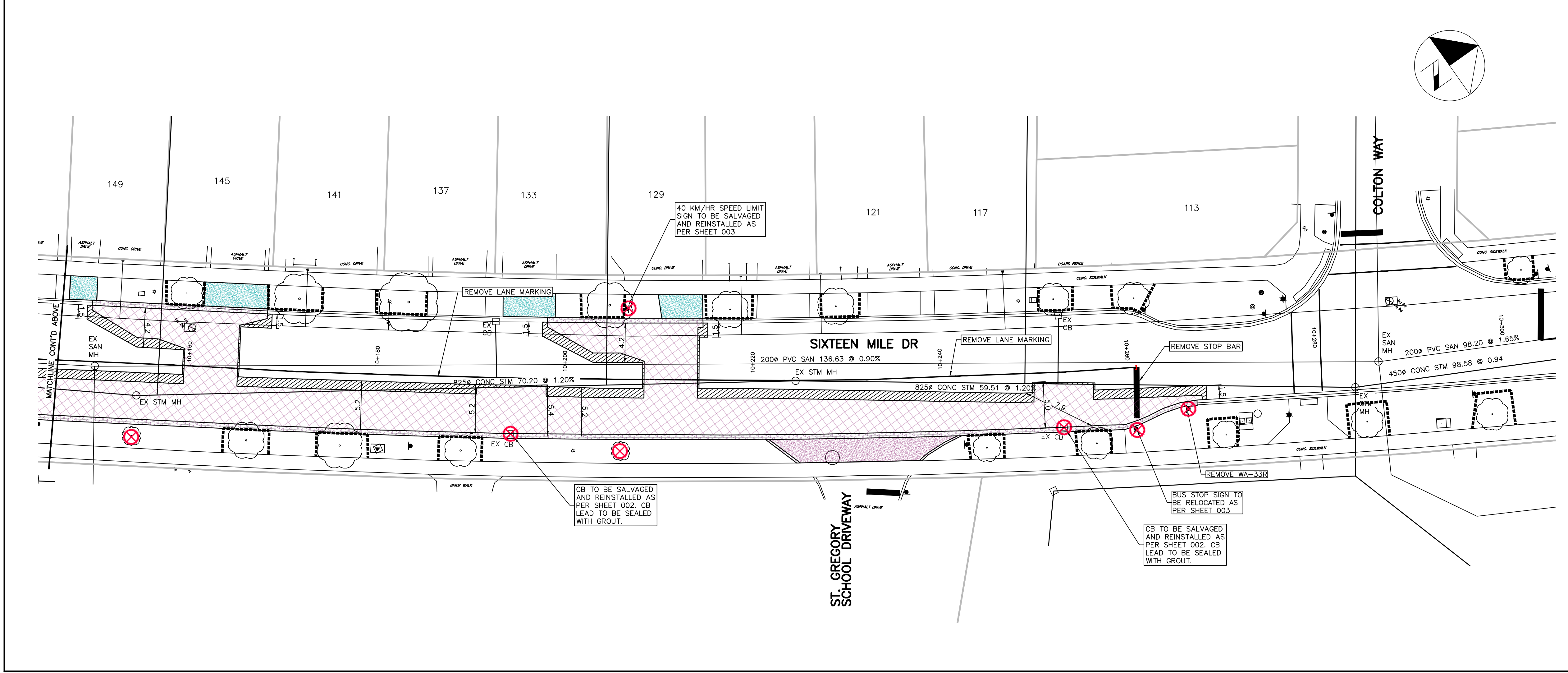
**KEY PLAN**  
N.T.S.

**LEGEND**

- [Hatched pattern] LIMIT OF CONSTRUCTION, MILL EX. ASPHALT (MIN. 150 WDE BY 50 DEEP)
- [Cross-hatched pattern] REMOVE ROAD ASPHALT
- [Blue hatched pattern] REMOVE CONCRETE SIDEWALK
- [Orange hatched pattern] REMOVE BRICK D/W & PRIVATE WALKWAYS.
- [Purple hatched pattern] REMOVE ASPH. D/W & PRIVATE WALKWAYS.
- [Green hatched pattern] REMOVE CONCRETE D/W APRON
- [Red hatched pattern] CURB REMOVAL
- [Red circle with X] CB, BUS SHELTER AND TREE REMOVAL
- [Red circle with dot] LIMITS OF PAVEMENT MARKINGS REMOVAL
- [Dashed line] TREE PROTECTION FENCING

**NOTE:**

- DRIVEWAY ACCESS TO BE MAINTAINED DURING CONSTRUCTION
- SIGN REMOVALS ARE NOTED IN PMP SHEETS
- MIN STEP JOINT TO BE 0.15m AS PER STANDARD DWG #7-8



1	23-05-30	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN	PVS	CH'KD	SH	DATE	17-01-2023
DRAWN	JS	CH'KD	PVS		

SCALE: 1:250

APPROVALS:

MUNICIPAL:

STAMP:

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

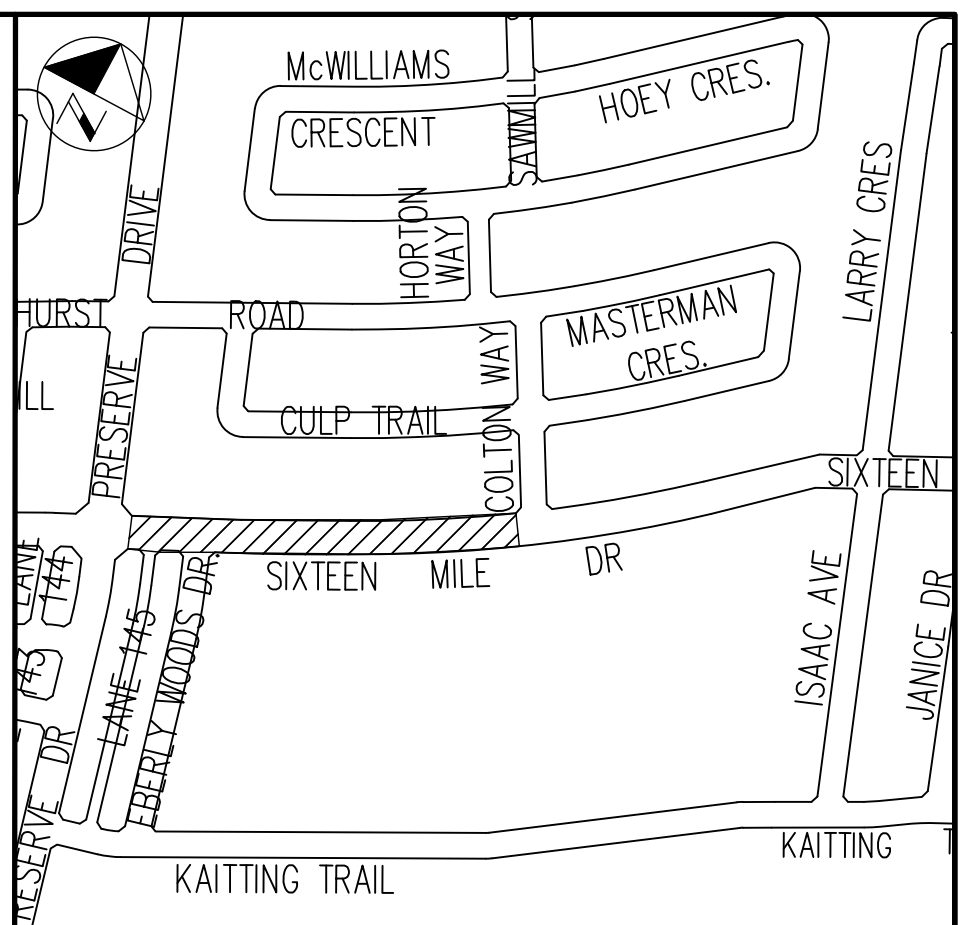
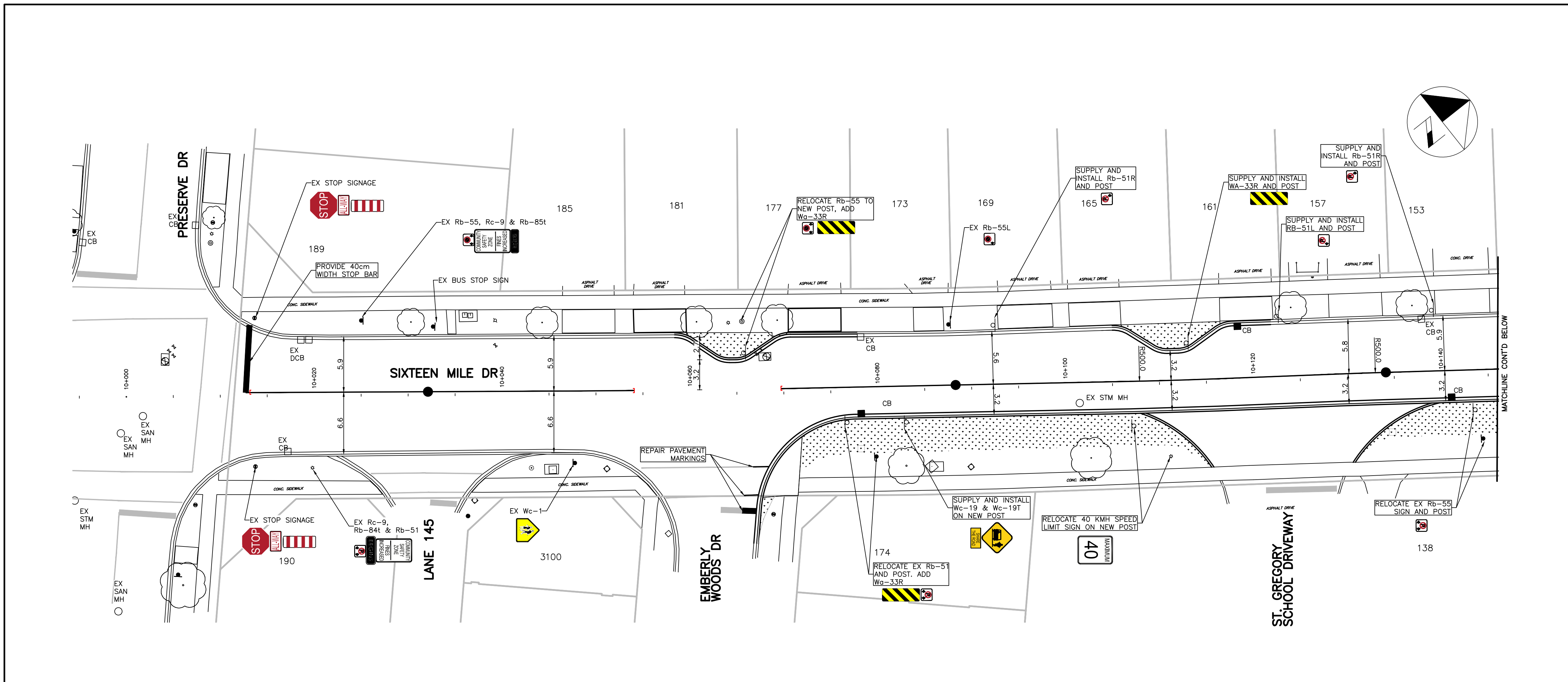
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London ON N6H 1T3 Canada  
tel 519 472 7328 fax 519 472 9354  
ibigroup.com

OAKVILLE  
**Town of Oakville**  
Transportation and Engineering

**REMOVALS PLAN**  
TRAFFIC CALMING INFRASTRUCTURE  
St. GREGORY CATHOLIC ELEM. SCH.  
FROM PRESERVE DR  
TO COLTON WAY

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 001 OF 014

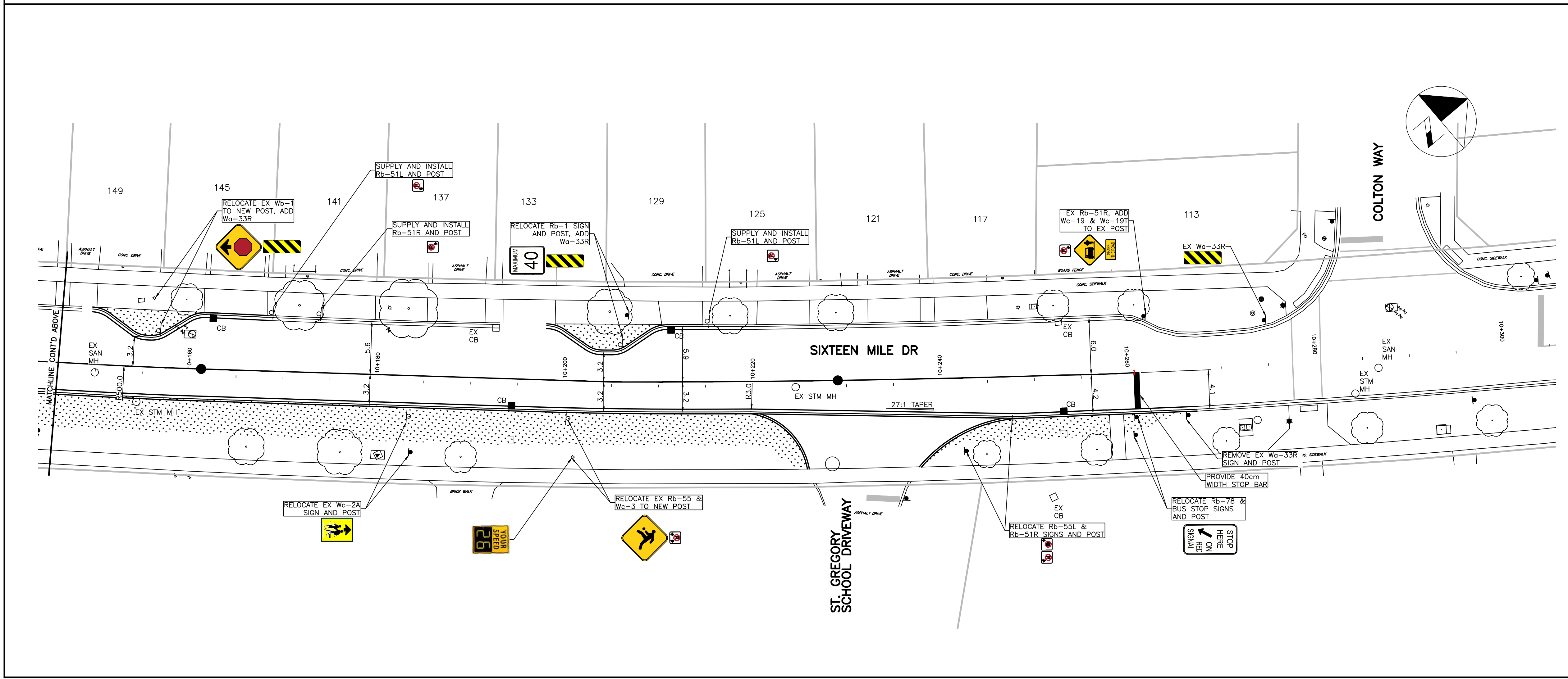




KEY PLAN  
N.T.S.

NOTE:  
1. ALL EXISTING SIGNS NOT LABELED ARE TO REMAIN IN PLACE

LEGEND  
 - 10cm WIDE, SOLID YELLOW  
 - LIMITS OF PAVEMENT MARKINGS



1	23-03-16	PVS	30% SUBMISSION	JS
2	23-04-24	PVS	30% RESUBMISSION	JS
3	23-05-08	PVS	30% RESUB, EMBERLEY RADIUS REVISION	JS
4	23-05-30	PVS	90% SUBMISSION	JS
5	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN	PVS	CH'KD	SH	DATE	17-01-2023
DRAWN	JS	CH'KD	PVS		

SCALE: 1:250  
 0 2.5 5 10 20

APPROVALS

MUNICIPAL

FIELD NOTES

STAMP  
 LICENSED PROFESSIONAL ENGINEER  
 2023-06-12  
 S. K. HAYMAN  
 PROVINCE OF ONTARIO

Jill Stephen, P.Eng.  
 Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
 Manager, Design and Construction

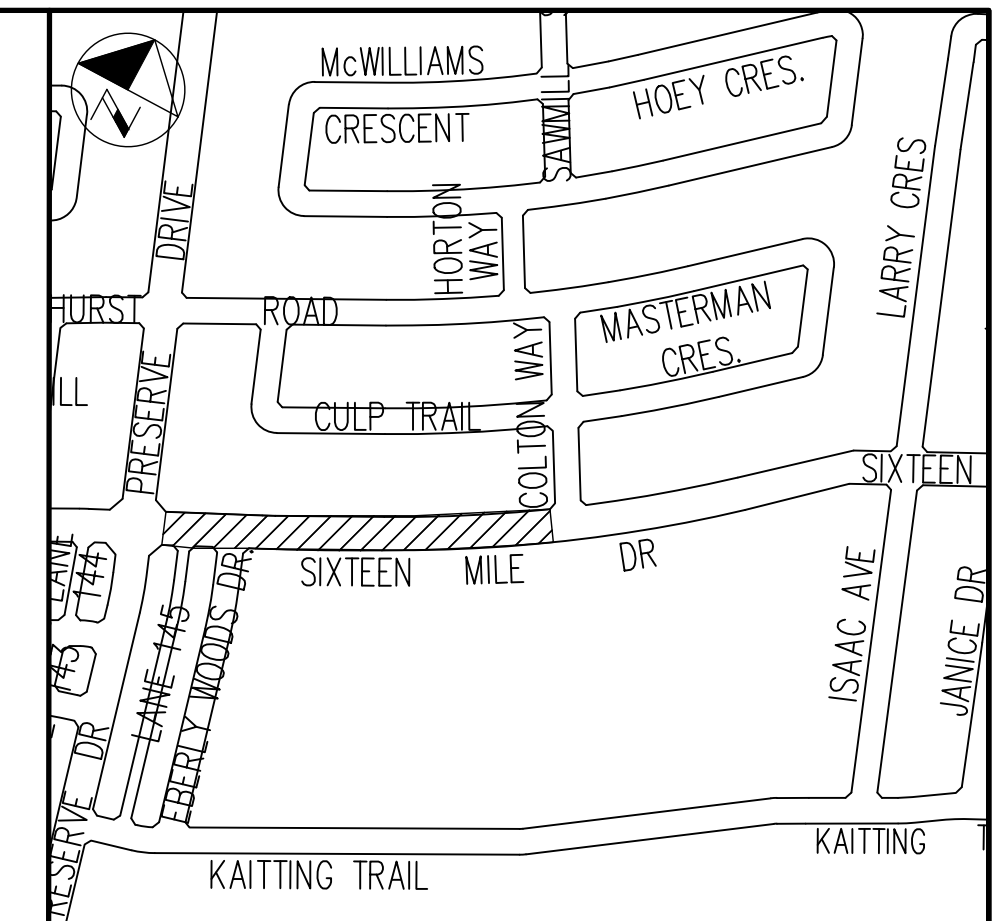


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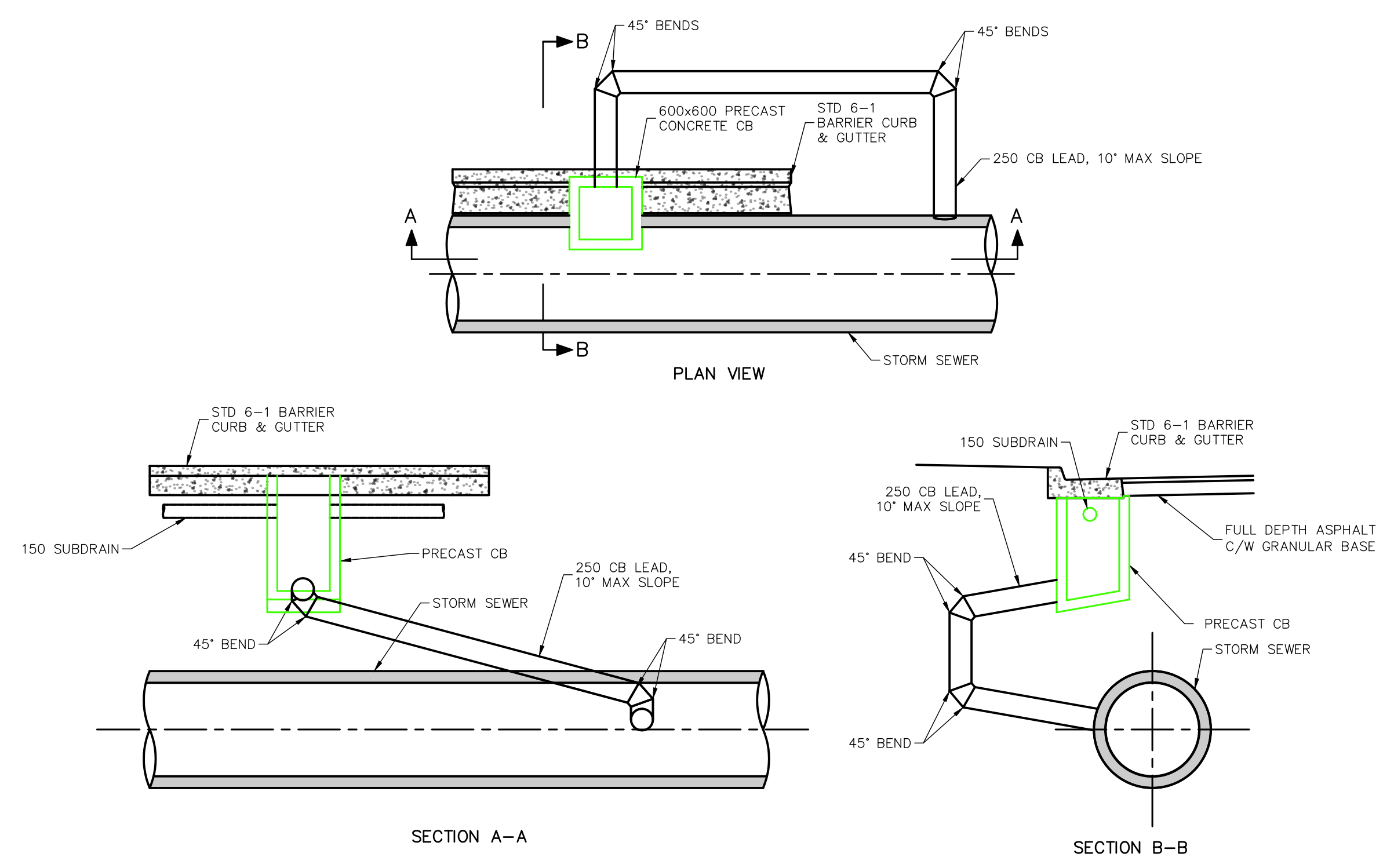
OAKVILLE  
**Town of Oakville**  
 Transportation and Engineering

PAVEMENT MARKING PLAN  
 TRAFFIC CALMING INFRASTRUCTURE  
 St. GREGORY CATHOLIC ELEM. SCH.  
 SIXTEEN MILE DRIVE  
 FROM PRESERVE DR  
 TO COLTON WAY

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 003 OF 014



KEY PLAN  
N.T.S.



PRECAST CATCHBASIN CONNECTION DETAIL  
SCALE: N.T.S.

1	23-05-25	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU CAD
DESIGN	PVS	CH'KD	SH	DATE
DRAWN	JS	CH'KD	PVS	17-01-2023

SCALE	1:250	0 2.5 5 10 20	REFERENCES
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APPROVALS	FIELD NOTES
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MUNICIPAL

STAMP

LICENSED PROFESSIONAL ENGINEER  
2023-06-12  
S. A. HAYMAN  
PROVINCE OF ONTARIO

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

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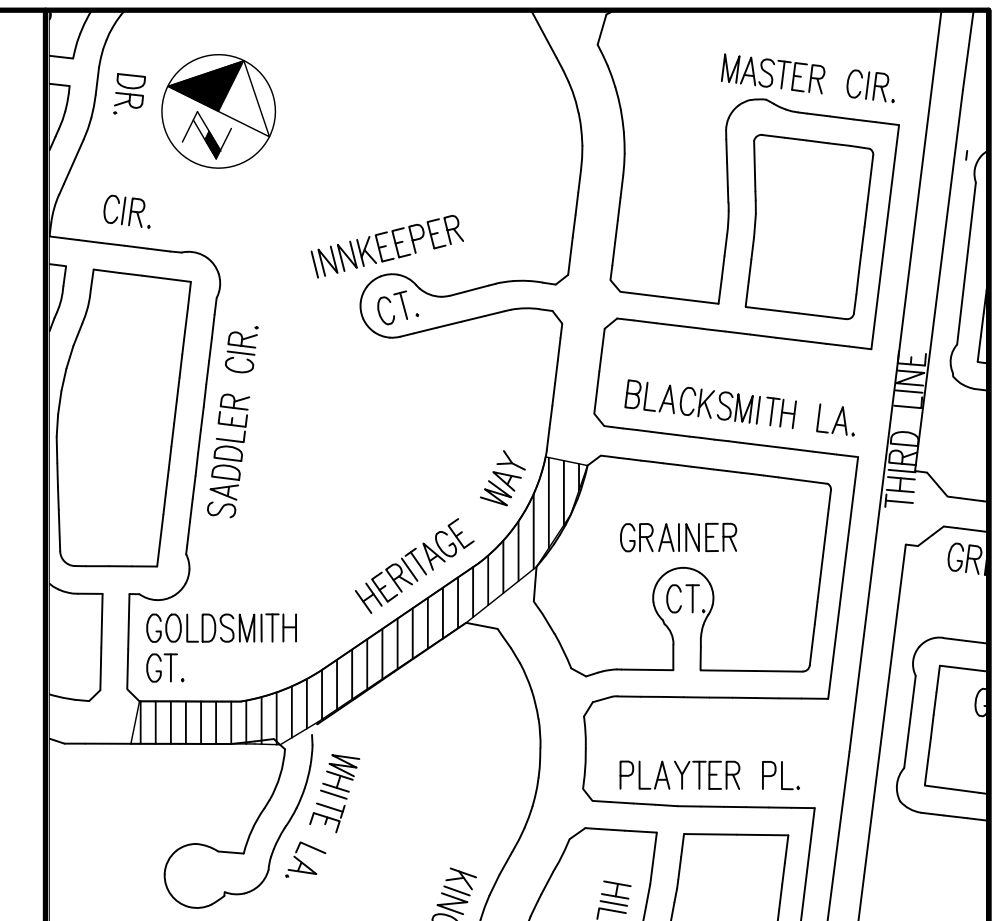
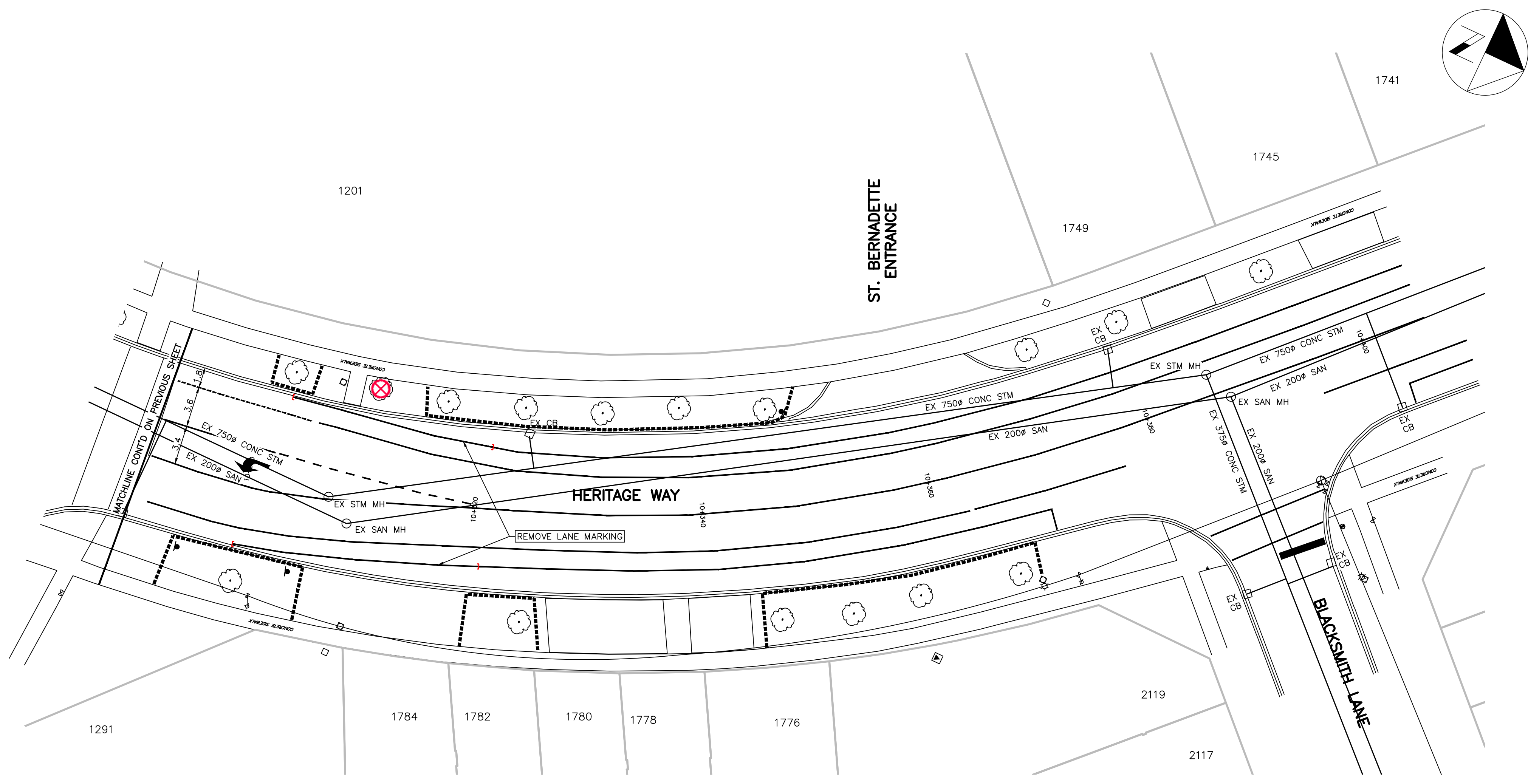
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**Town of Oakville**  
Transportation and Engineering

DETAILS

TRAFFIC CALMING INFRASTRUCTURE  
St. GREGORY CATHOLIC ELEM. SCH.  
SIXTEEN MILE DRIVE  
FROM PRESERVE DR  
TO COLTON WAY

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 004 OF 014





KEY PLAN  
N.T.S.

LEGEND

- LIMIT OF CONSTRUCTION. MILL EX. ASPHALT (150 WIDE BY 50 DEEP)
- REMOVE ROAD ASPHALT
- REMOVE CONCRETE SIDEWALK
- REMOVE BRICK D/W & PRIVATE WALKWAYS.
- REMOVE ASPH. D/W & PRIVATE WALKWAYS.
- CURB REMOVAL
- CB, BUS SHELTER AND TREE REMOVAL
- LIMITS OF PAVEMENT MARKINGS REMOVAL
- TREE PROTECTION FENCING

NOTE:  
 1. DRIVEWAY ACCESS TO BE MAINTAINED DURING CONSTRUCTION  
 2. SIGN REMOVALS ARE NOTED IN PMP SHEETS  
 3. MIN STEP JOINT TO BE 0.15m AS PER STANDARD DWG #7-8

1	23-05-30	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN	PVS	CH'KD	SH	DATE	17-01-2023
DRAWN	JS	CH'KD	PVS		

SCALE 1:250

APPROVALS

MUNICIPAL

STAMP  
  
 Jill Stephen, P.Eng.  
 Director, Transportation and Engineering  
 Philip Kelly, M.Sc., P.Eng.  
 Manager, Design and Construction

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 London ON N6H 1T3 Canada  
 Tel: 519-472-7328 Fax: 519-472-9354  
 ibigroup.com

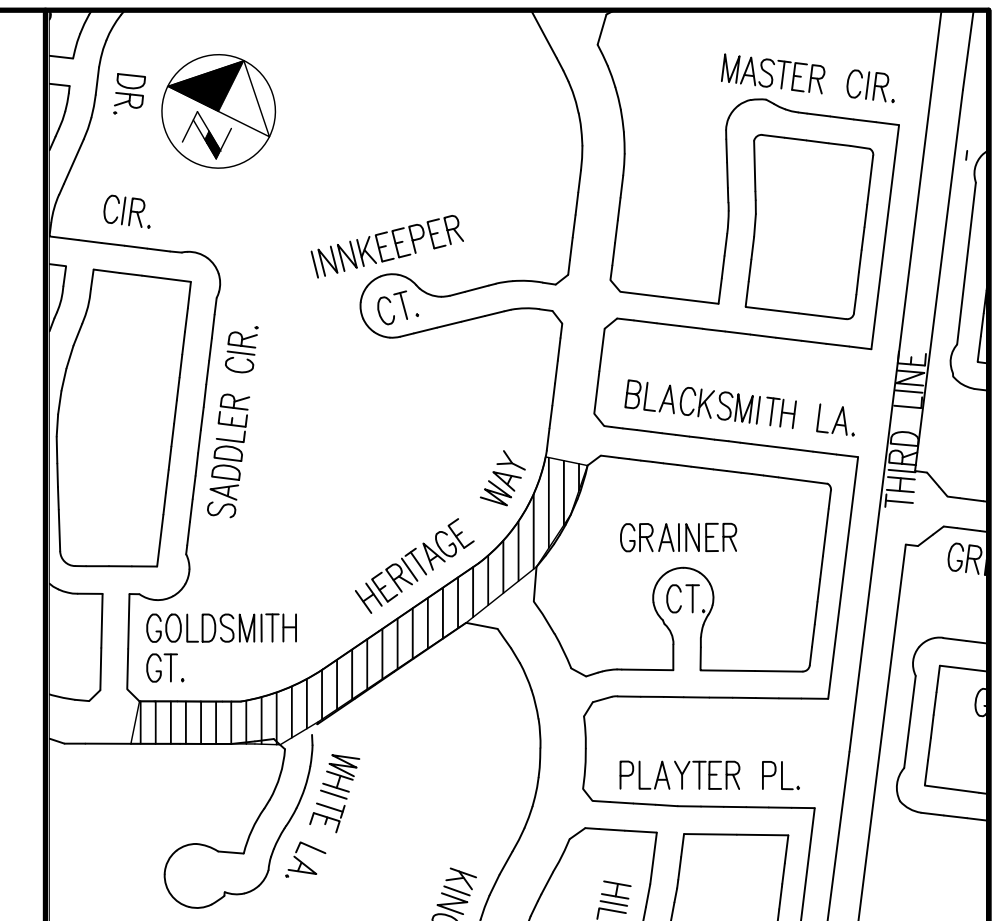
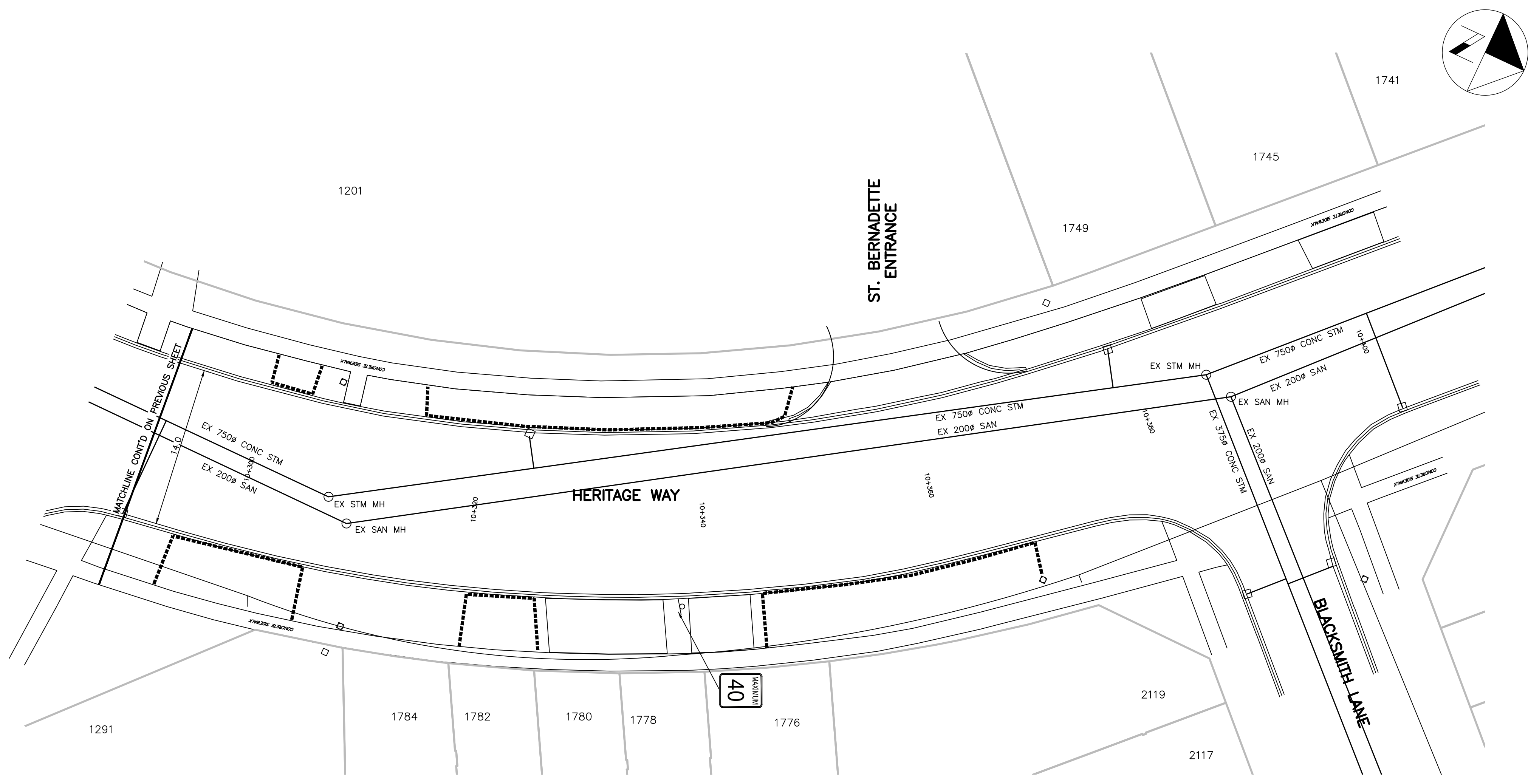
**OAKVILLE**  
**Town of Oakville**  
 Transportation and Engineering

REMOVALS PLAN - 10+290  
 TO 10+400  
 TRAFFIC CALMING INFRASTRUCTURE  
 St. BERNADETTE CATHOLIC ELEM. SCH.  
 HERITAGE WAY  
 FROM BLACKSMITH LANE TO GOLDSMITH GATE

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 006 OF 014







KEY PLAN  
N.T.S.

LEGEND

	PROPOSED ASPHALT
	PROPOSED SIDEWALK
	PROPOSED CURB
	PROPOSED ASPHALT AT SCHOOL ENTRANCE
	PROPOSED SOD
	DROPPED CURB
	PROPOSED/RELOCATED CB
	PROPOSED CONCRETE PAD
	TREE PROTECTION FENCING

1	23-05-30	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU CAD
DESIGN	PVS	CH'KD	SH	DATE 17-01-2023
DRAWN	JS	CH'KD	PVS	

SCALE	0 2.5 5 10 20	REFERENCES
1:250		

APPROVALS	FIELD NOTES
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MUNICIPAL

STAMP

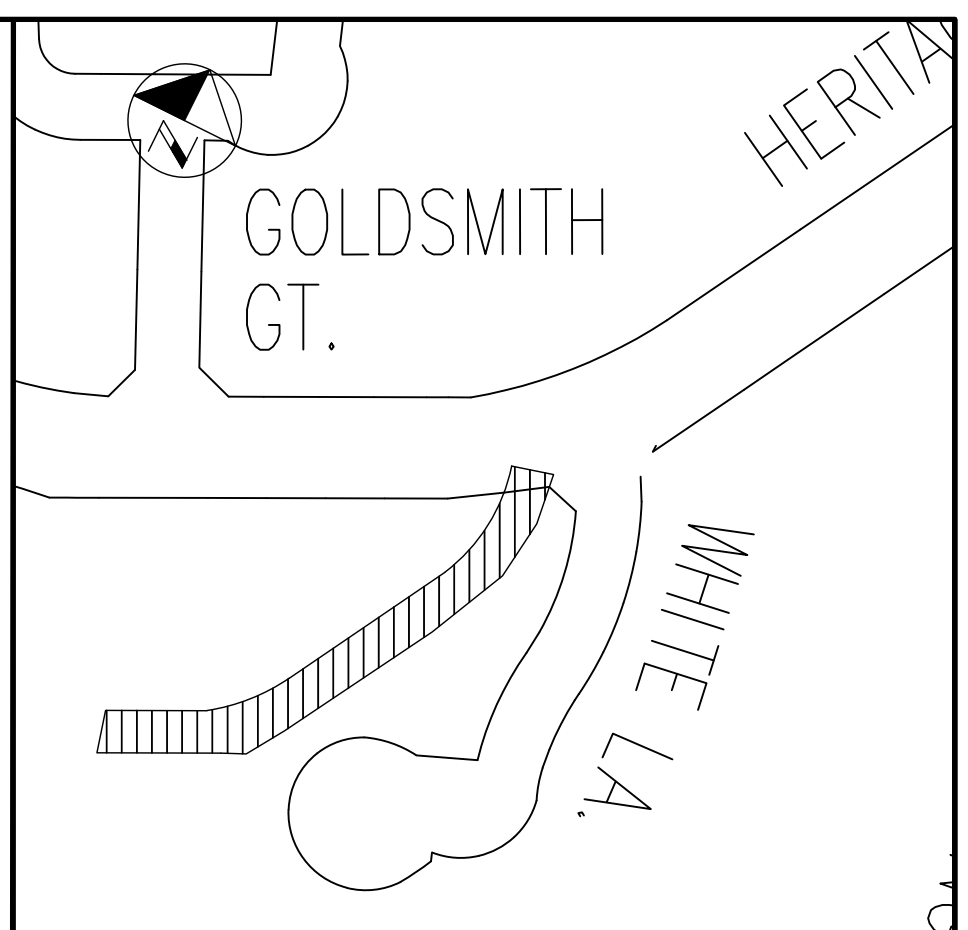
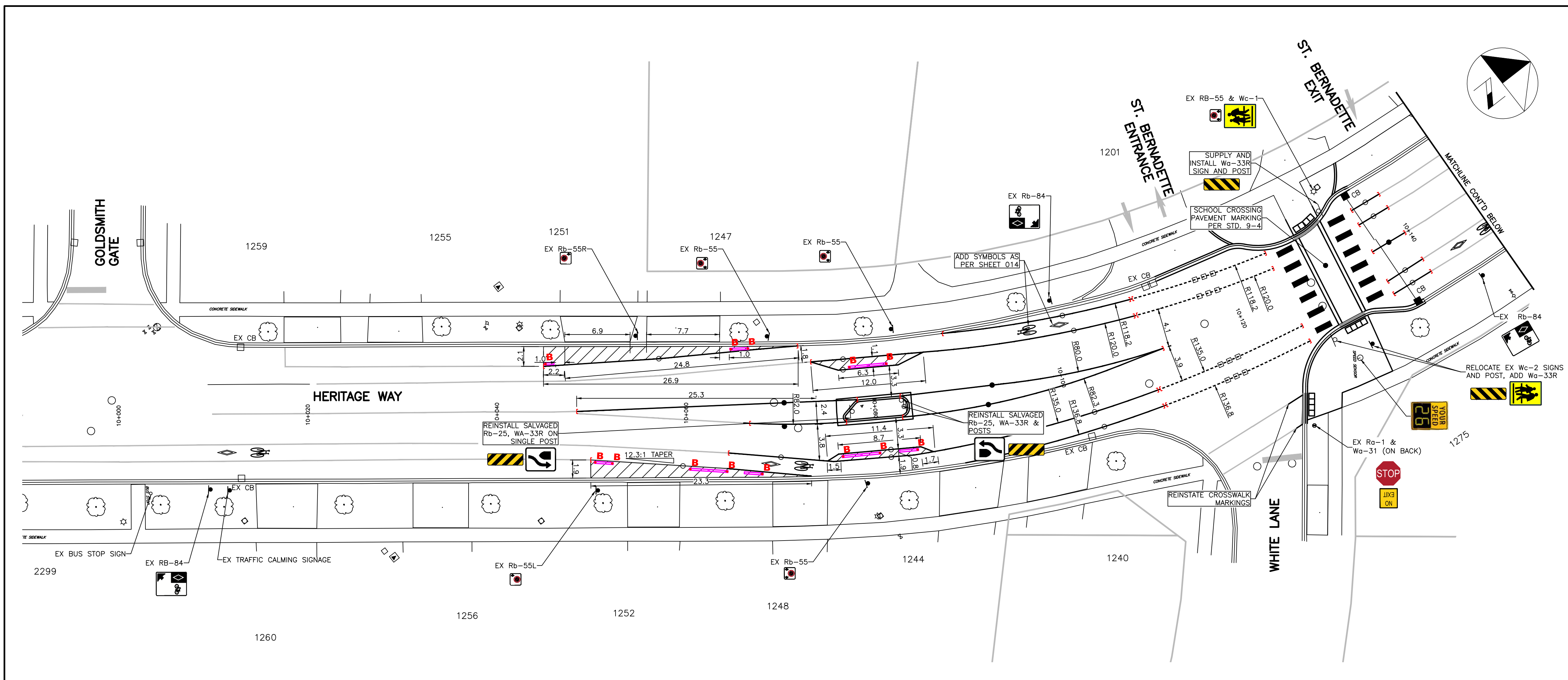
Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

**OAKVILLE**  
**Town of Oakville**  
Transportation and Engineering

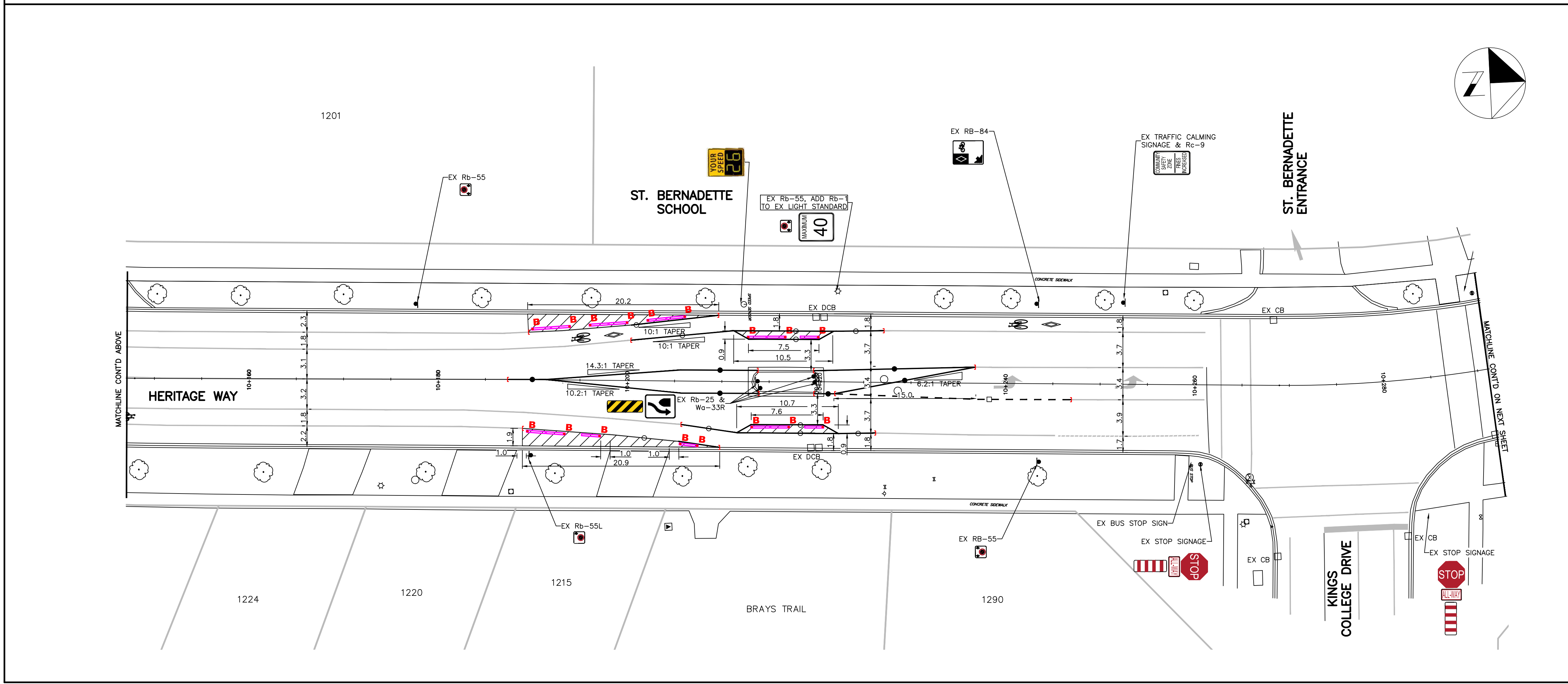
NEW CONSTRUCTION – 10+290  
TO 10+400  
TRAFFIC CALMING INFRASTRUCTURE  
St. BERNADETTE CATHOLIC ELEM. SCH.  
HERITAGE WAY  
FROM BLACKSMITH LANE TO GOLDSMITH GATE

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 008 OF 014



KEY PLAN  
N.T.S.

- NOTE:  
1. ALL EXISTING SIGNS NOT LABELED ARE TO REMAIN IN PLACE
- LEGEND
- 10cm WIDE, SOLID YELLOW
  - 10cm WIDE, SOLID WHITE
  - 10cm WIDE, DASHED WHITE, DASH IS 1-1-1
  - 20cm WIDE, DASHED WHITE ELEPHANTS FEET - 0.2-0.2-0.2
  - 45CM WIDE, SOLID WHITE, 45° ANGLE, 6m APART
  - LIMITS OF PAVEMENT MARKINGS
  - PRECAST CURB - SEE SHEET 014
  - FLEXIBLE BOLLARD - SEE SHEET 014



1	23-03-16	PVS	30% SUBMISSION	JS
2	23-04-24	PVS	30% RESUBMISSION	JS
3	23-05-08	PVS	30% RESUBMISSION, MEDIAN REVISION	JS
4	23-05-30	PVS	90% SUBMISSION	JS
5	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU/ CAD
DESIGN	PVS	CH'KD	SH	DATE
DRAWN	JS	CH'KD	PVS	17-01-2023

SCALE	1:250	0	2.5	5	10	20
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APPROVALS	FIELD NOTES
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MUNICIPAL

STAMP

LICENSED PROFESSIONAL ENGINEER  
2023-06-17  
S. HAYMAN  
PROVINCE OF ONTARIO

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

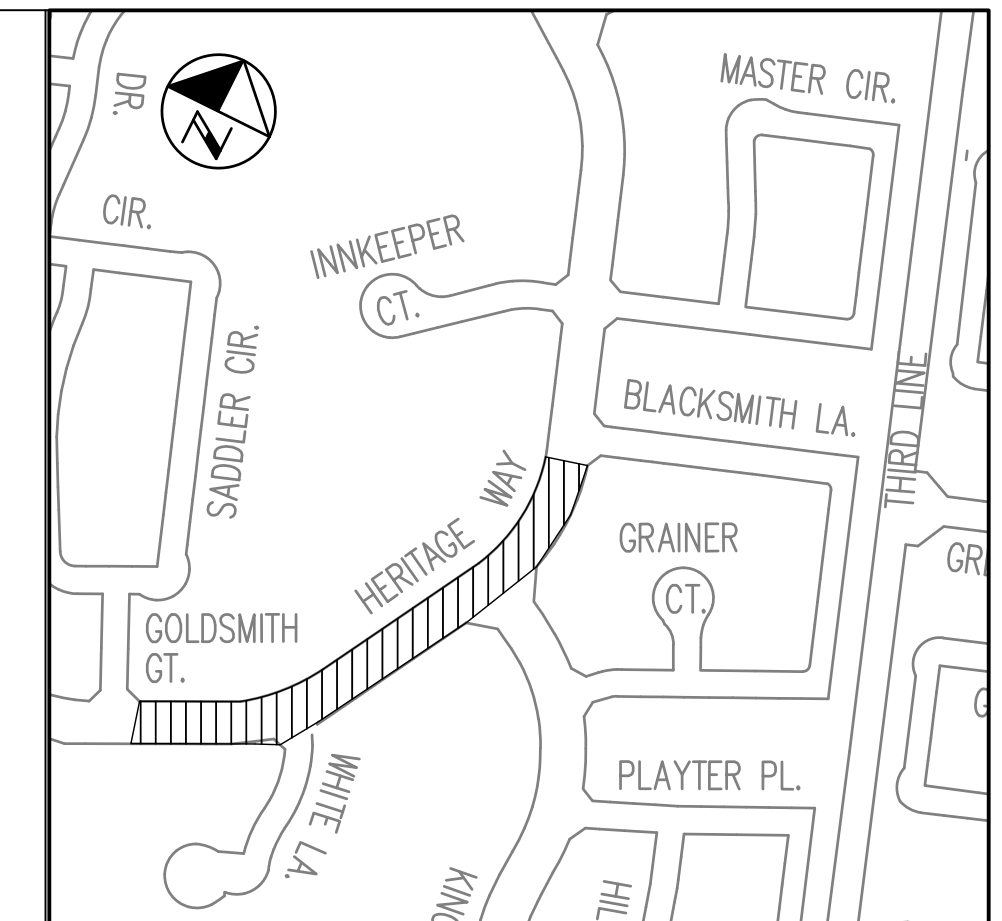
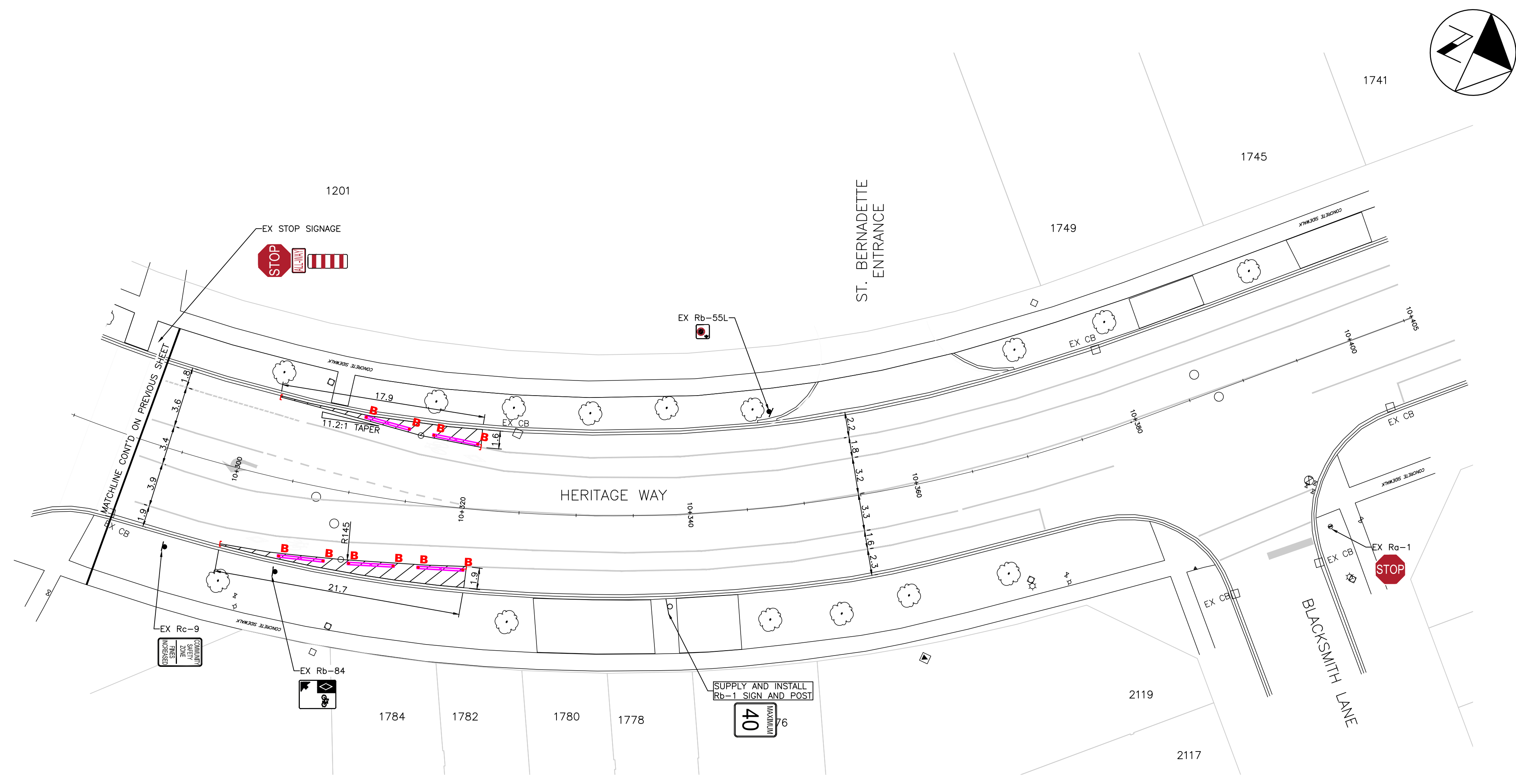
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OAKVILLE  
**Town of Oakville**  
Transportation and Engineering

PAVEMENT MARKING PLAN -  
10+000 TO 10+290  
TRAFFIC CALMING INFRASTRUCTURE  
St. BERNADETTE CATHOLIC ELEM. SCH.  
HERITAGE WAY  
FROM BLACKSMITH LANE TO GOLDSMITH GATE

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
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CONTRACT NO. RFT--2023	DRAWING NO. SHEET 009 OF 014
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KEY PLAN  
N.T.S.

NOTE:  
1. ALL EXISTING SIGNS NOT LABELED ARE TO REMAIN IN PLACE

- LEGEND**
- 10cm WIDE, SOLID YELLOW
  - 10cm WIDE, SOLID WHITE
  - 10cm WIDE, DASHED WHITE, DASH IS 1-1-1
  - 20cm WIDE, DASHED WHITE ELEPHANTS FEET - 0.2-0.2-0.2
  - 45CM WIDE, SOLID WHITE, 45° ANGLE, 6m APART
  - LIMITS OF PAVEMENT MARKINGS
  - PRECAST CURB - SEE SHEET 014
  - FLEXIBLE BOLLARD - SEE SHEET 014

1	23-03-16	PVS	30% SUBMISSION		JS
2	23-04-24	PVS	30% RESUBMISSION		JS
3	23-05-08	PVS	30% RESUBMISSION, MEDIAN REVISION		JS
4	23-05-30	PVS	90% SUBMISSION		JS
5	23-06-12	PVS	100% SUBMISSION		JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN		PVS	CH'KD SH	DATE	
DRAWN		JS	CH'KD PVS	17-01-2023	

SCALE	1:250	0 2.5 5 10 25	REFERENCES
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APPROVALS	FIELD NOTES
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MUNICIPAL

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

STAMP  
LICENSED PROFESSIONAL ENGINEER  
2023-06-12  
S. A. HAYMAN  
PROVINCE OF ONTARIO

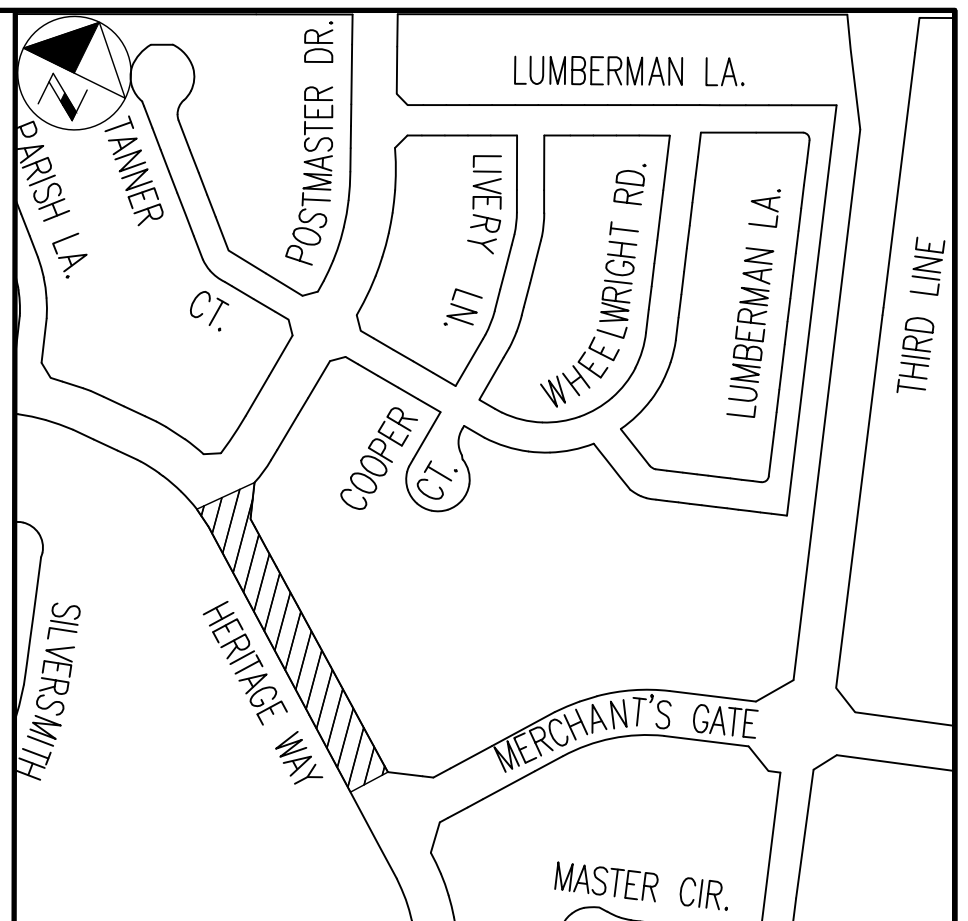
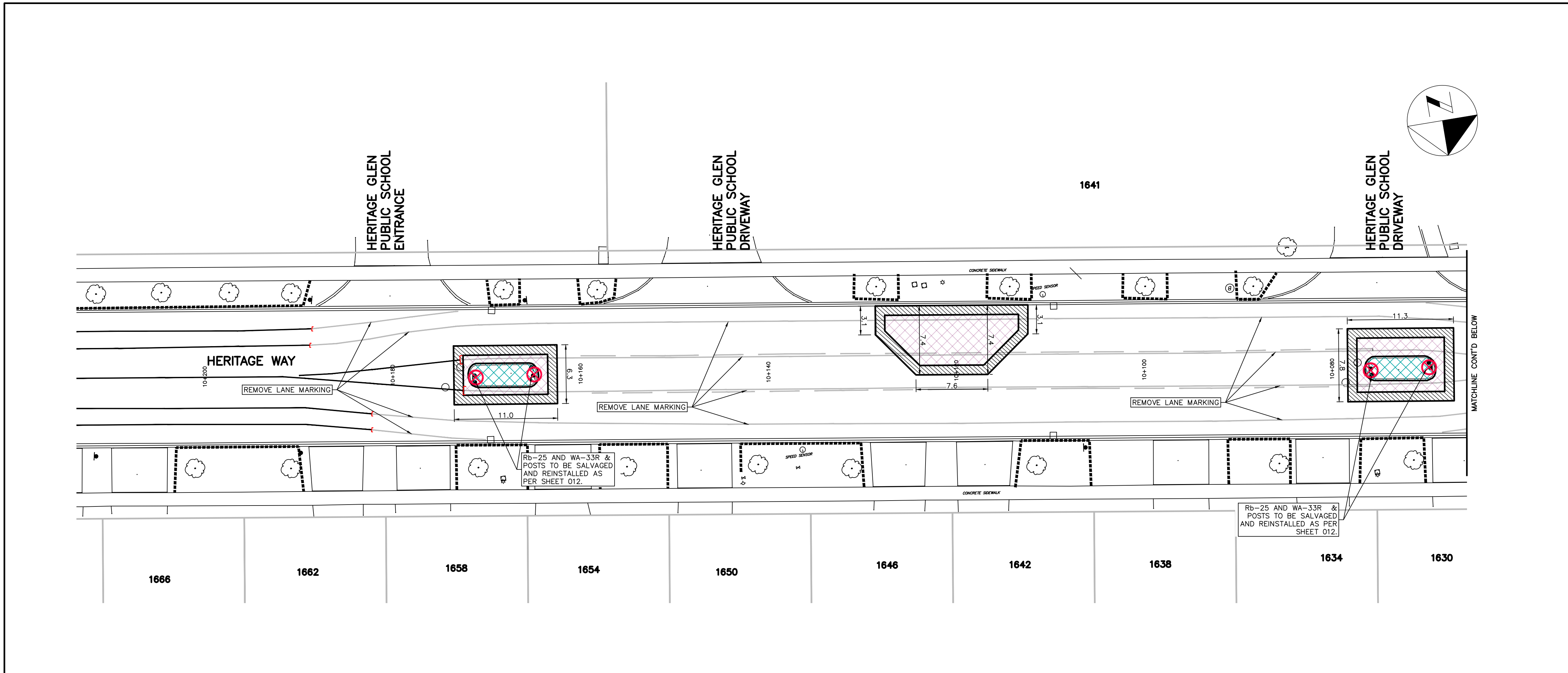
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London ON N6H 1T3 Canada  
Tel 519 472 7328 Fax 519 472 9354  
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**Town of Oakville**  
Transportation and Engineering

**PAVEMENT MARKING PLAN -  
10+290 TO 10+400**  
**TRAFFIC CALMING INFRASTRUCTURE**  
**ST. BERNADETTE CATHOLIC ELEM. SCH.**  
**HERITAGE WAY**  
**FROM BLACKSMITH LANE TO GOLDSMITH GATE**

CONSULTANT FILE NO. <b>142042</b>	MUNICIPAL DRAWING NO.
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CONTRACT NO. <b>RFT--2023</b>	DRAWING NO. SHEET <b>010</b> OF <b>014</b>
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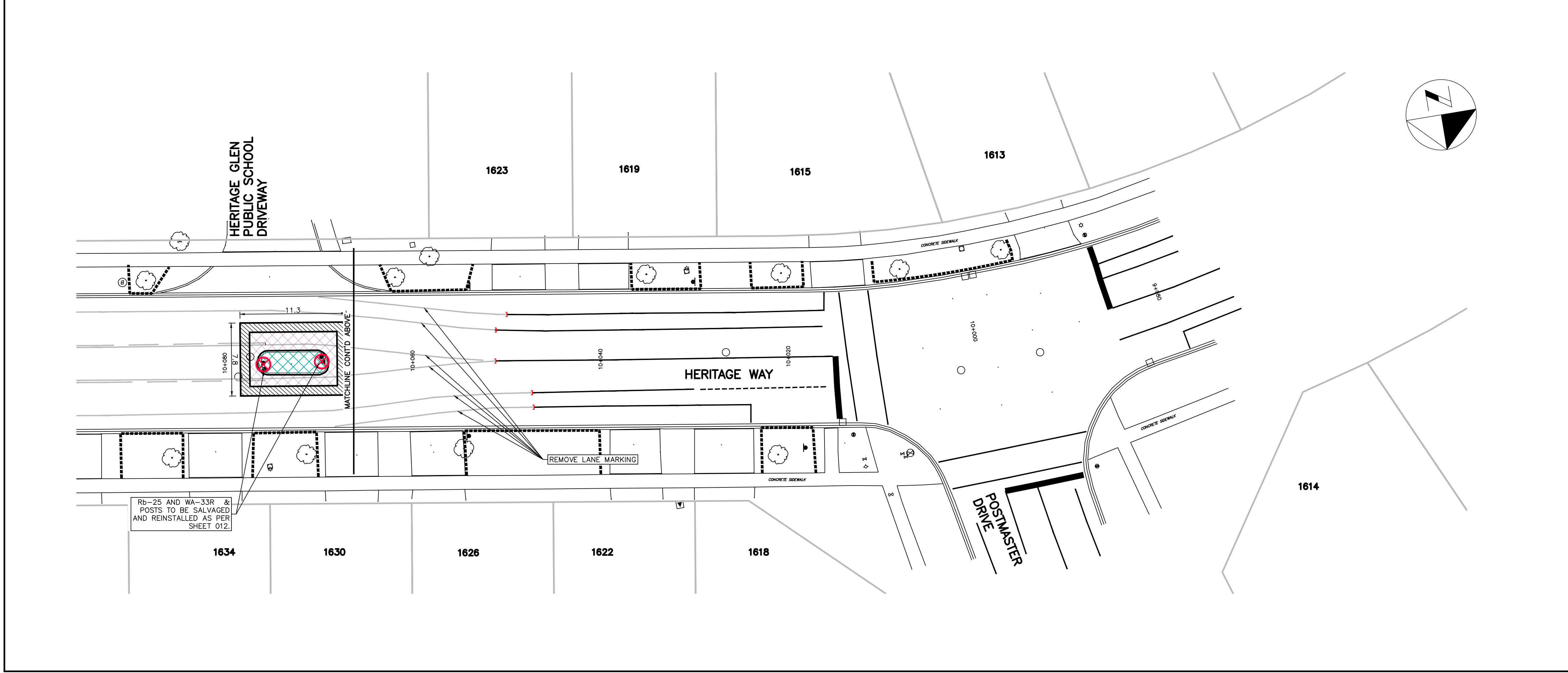
KEY PLAN  
N.T.S.

LEGEND

- LIMIT OF CONSTRUCTION. MILL EX. ASPHALT (150 WIDE BY 50 DEEP)
- REMOVE ROAD ASPHALT
- REMOVE CONCRETE SIDEWALK
- REMOVE BRICK D/W & PRIVATE WALKWAYS.
- REMOVE ASPH. D/W & PRIVATE WALKWAYS.
- CURB REMOVAL
- CB, BUS SHELTER AND TREE REMOVAL
- LIMITS OF PAVEMENT MARKINGS REMOVAL
- TREE PROTECTION FENCING

NOTE:

1. DRIVEWAY ACCESS TO BE MAINTAINED DURING CONSTRUCTION
2. SIGN REMOVALS ARE NOTED IN PMP SHEETS
3. MIN STEP JOINT TO BE 0.15m AS PER STANDARD DWG #7-8



1	23-05-30	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN	PVS	CH'KD	SH	DATE	17-01-2023
DRAWN	JS	CH'KD	PVS		

SCALE	0 2.5 5 10 20	REFERENCES
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APPROVALS	FIELD NOTES
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MUNICIPAL

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

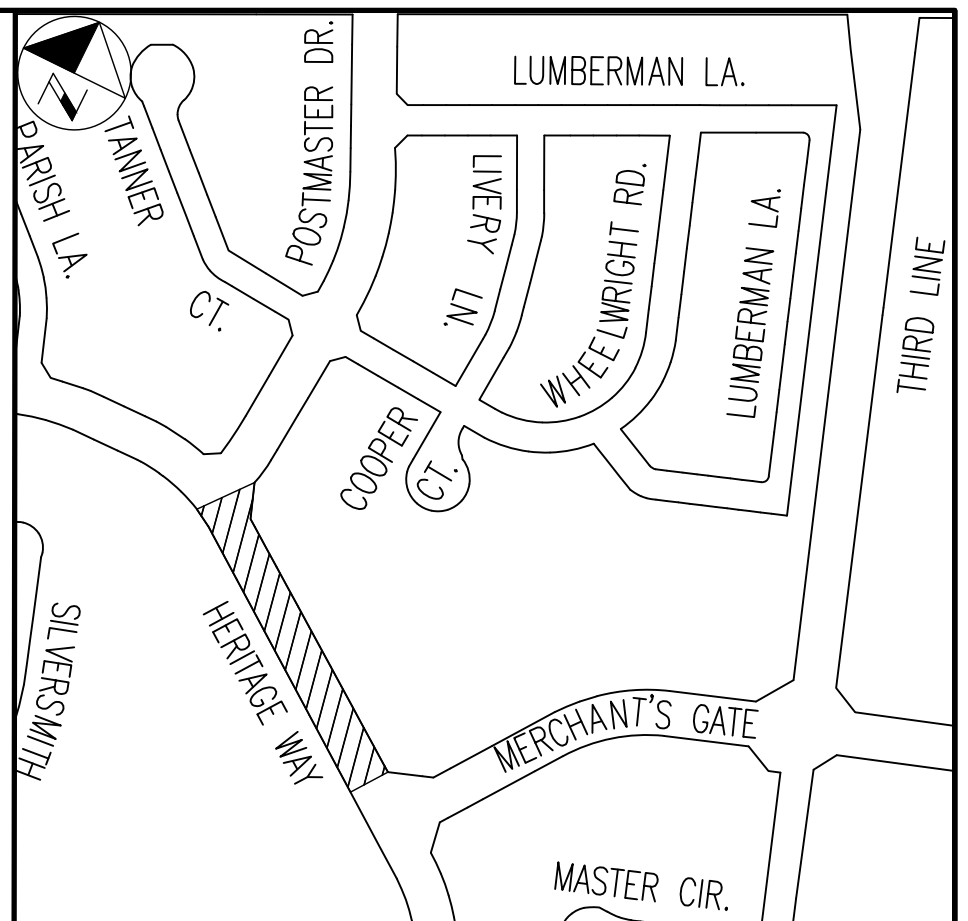
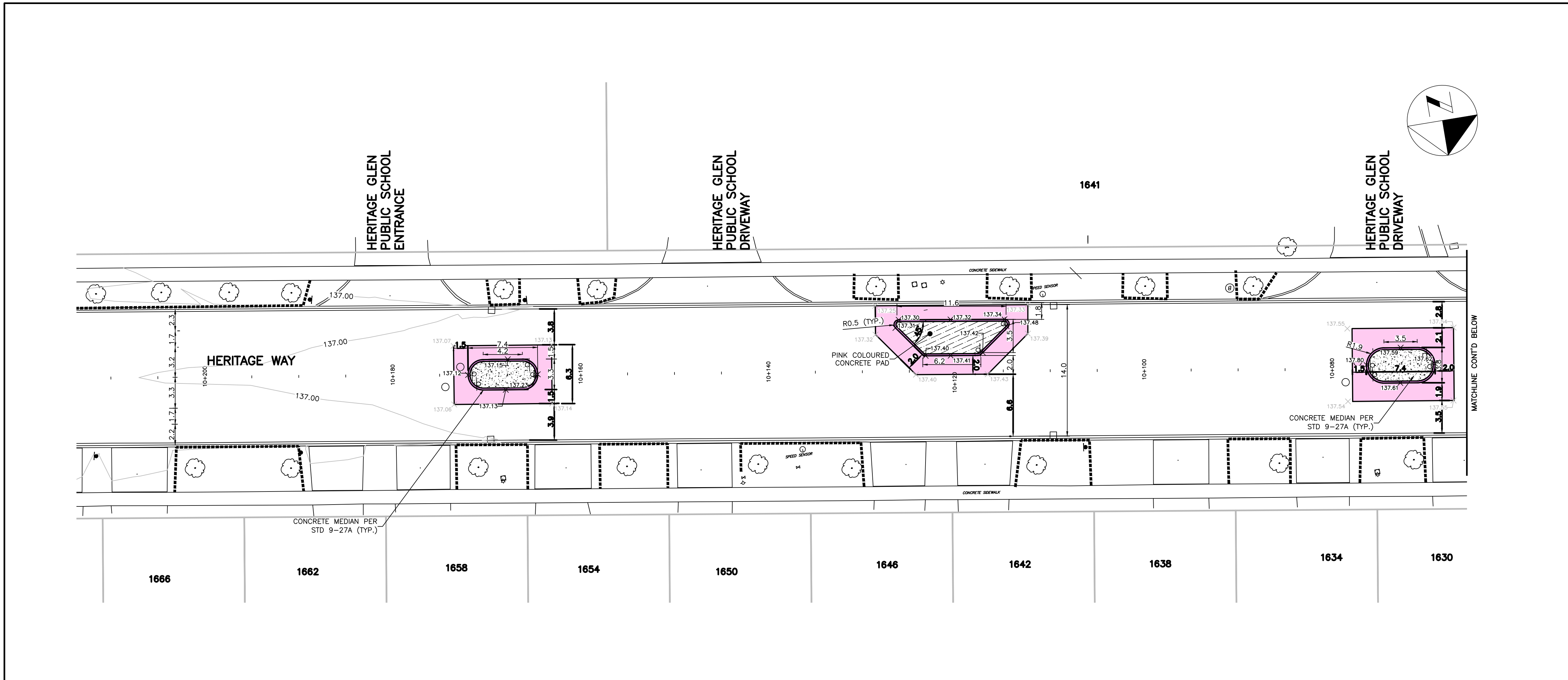
STAMP  
LICENSED PROFESSIONAL ENGINEER  
S. K. HAYMAN  
PROVINCE OF ONTARIO

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Suite 203 - 350 Oxford Street West  
London ON N6H 1T3 Canada  
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**Town of Oakville**  
Transportation and Engineering

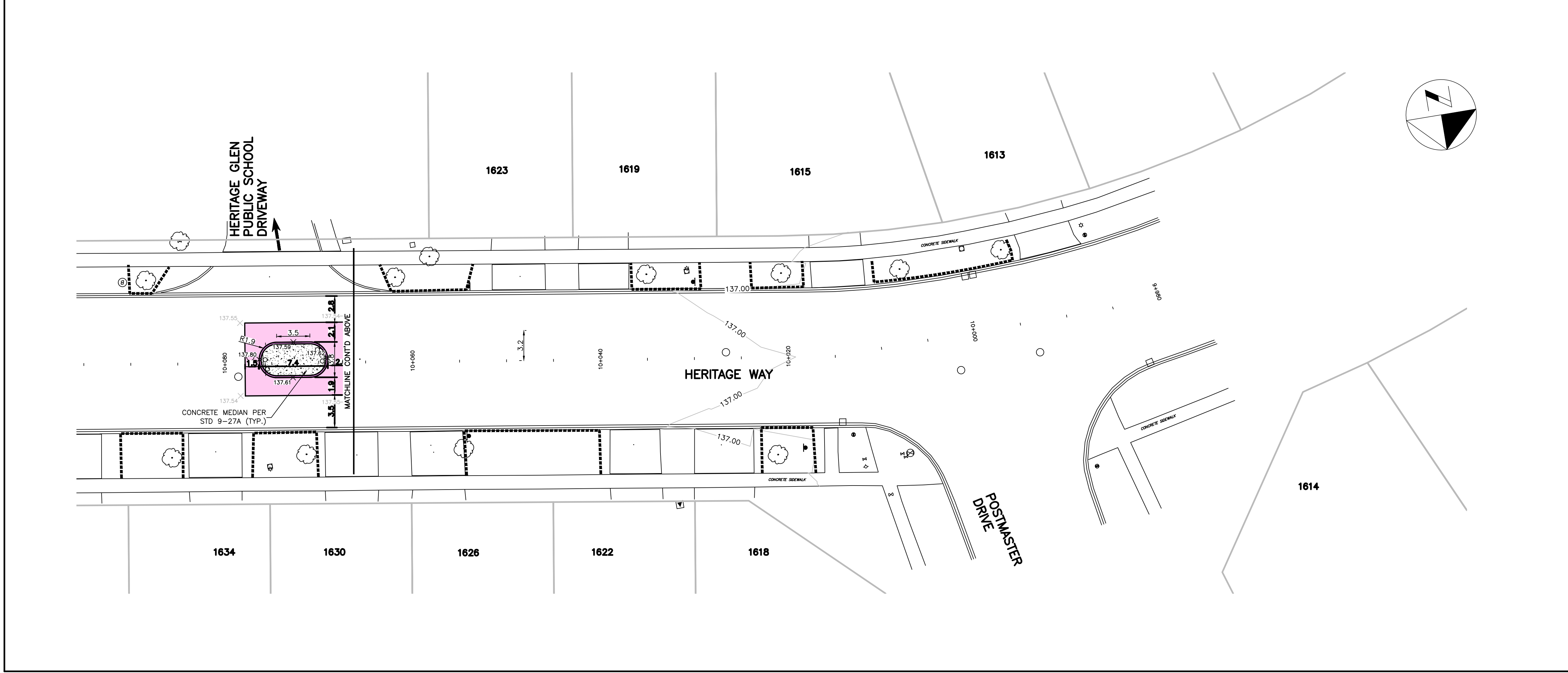
REMOVALS PLAN  
TRAFFIC CALMING INFRASTRUCTURE  
HERITAGE GLEN PUBLIC SCHOOL  
HERITAGE WAY  
FROM POSTMASTER DR TO MERCHANTS GATE

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 011 OF 014



LEGEND

- PROPOSED ASPHALT
- PROPOSED SIDEWALK
- PROPOSED CURB
- PROPOSED ASPHALT AT SCHOOL ENTRANCE
- PROPOSED SOD
- DROPPED CURB
- PROPOSED/RELOCATED CB
- PROPOSED CONCRETE PAD
- TREE PROTECTION FENCING



1	23-05-30	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN	PVS	CH'KD	SH	DATE	17-01-2023
DRAWN	JS	CH'KD	PVS		

SCALE	0 2.5 5 10 20	REFERENCES
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APPROVALS	FIELD NOTES
-----------	-------------

MUNICIPAL

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

STAMP  
LICENSED PROFESSIONAL ENGINEER  
2023-06-12  
S. HAYMAN  
PROVINCE OF ONTARIO

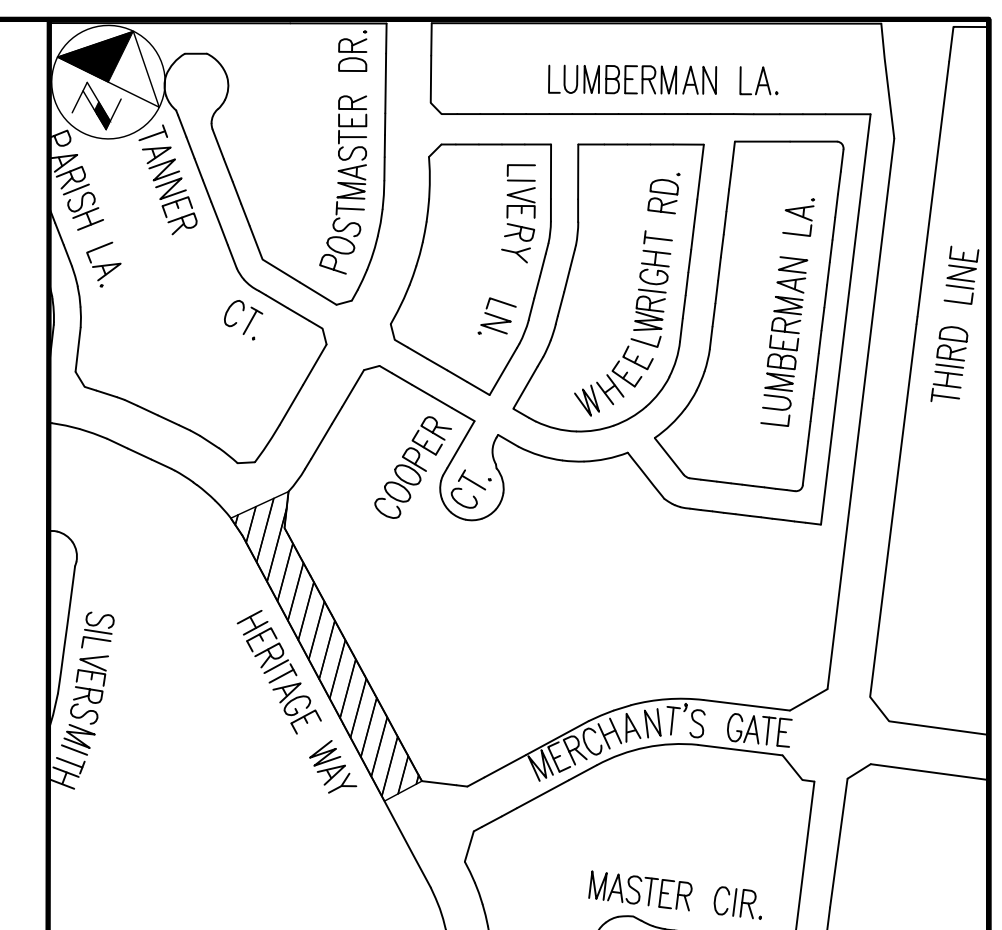
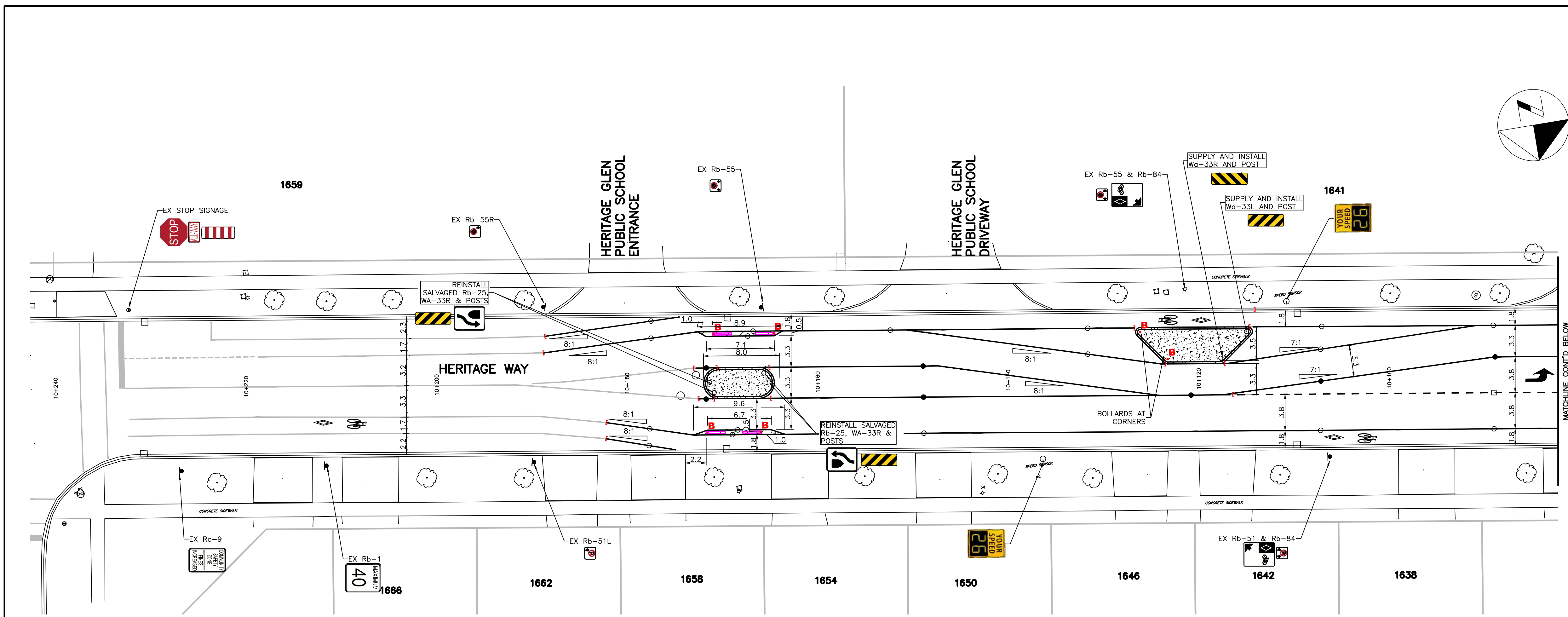
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London ON N6H 1T3 Canada  
tel 519 472 7328 fax 519 472 9354  
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**OAKVILLE**  
**Town of Oakville**  
Transportation and Engineering

NEW CONSTRUCTION  
TRAFFIC CALMING INFRASTRUCTURE  
HERITAGE GLEN PUBLIC SCHOOL  
HERITAGE WAY  
FROM POSTMASTER DR TO MERCHANTS GATE

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
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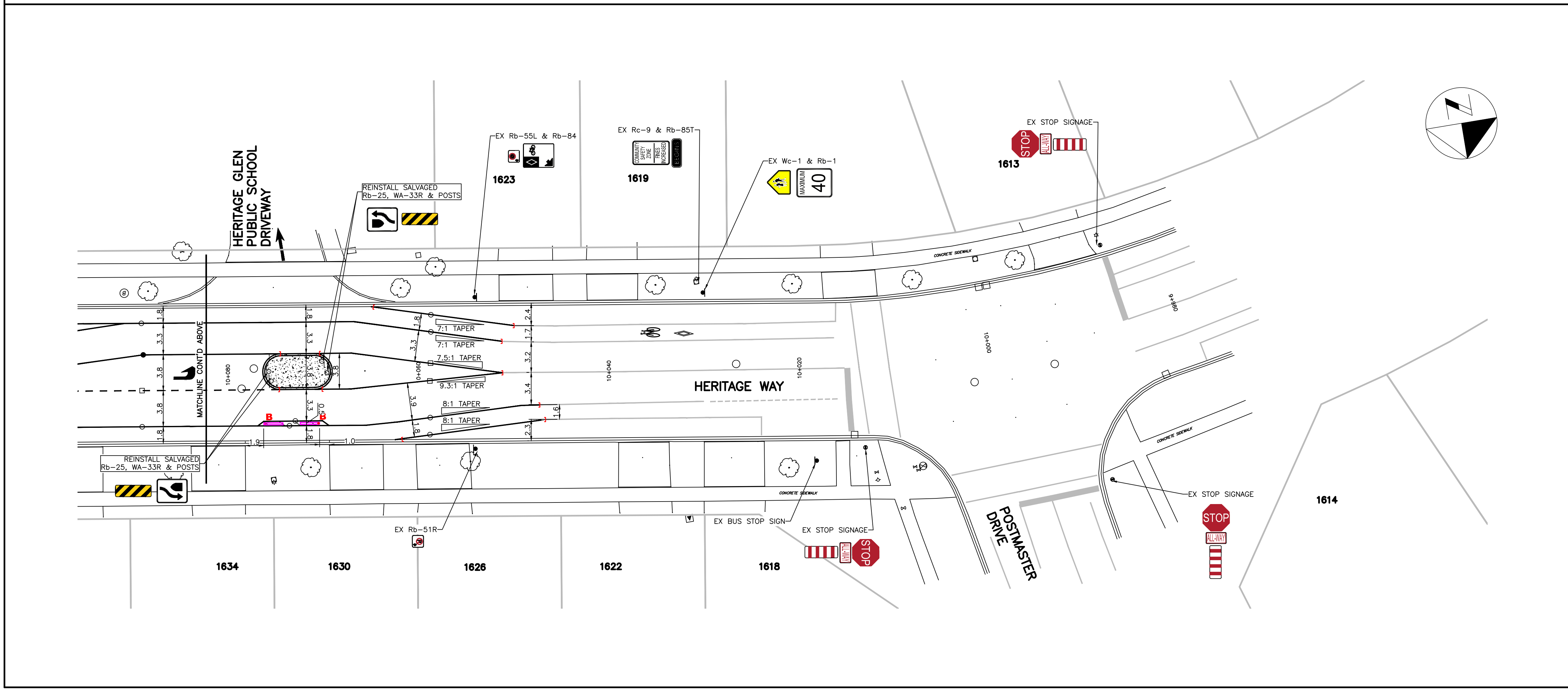
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 012 OF 014
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KEY PLAN  
N.T.S.

NOTE:  
1. ALL EXISTING SIGNS NOT LABELED ARE TO REMAIN IN PLACE

- LEGEND**
- 10cm WIDE, SOLID YELLOW
  - 10cm WIDE, SOLID WHITE
  - 10cm WIDE, DASHED WHITE, DASH IS 1-1-1
  - ▨ 45CM WIDE, SOLID WHITE, 45° ANGLE, 6m APART
  - LIMITS OF PAVEMENT MARKINGS
  - PRECAST CURB - SEE SHEET 014
  - FLEXIBLE BOLLARD - SEE SHEET 014



1	23-03-15	PVS	30% SUBMISSION	JS
2	23-04-24	PVS	30% RESUBMISSION	JS
3	23-05-30	PVS	90% SUBMISSION	JS
3	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU CAD
DESIGN	PVS	CH'KD	SH	DATE
DRAWN	JS	CH'KD	PVS	17-01-2023

SCALE: 1:250  
0 2.5 5 10 20

APPROVALS

MUNICIPAL

FIELD NOTES

STAMP  
LICENSED PROFESSIONAL ENGINEER  
2023-06-12  
S. A. HAYMAN  
PROVINCE OF ONTARIO

Jill Stephen, P.Eng.  
Director, Transportation and Engineering

Philip Kelly, M.Sc., P.Eng.  
Manager, Design and Construction

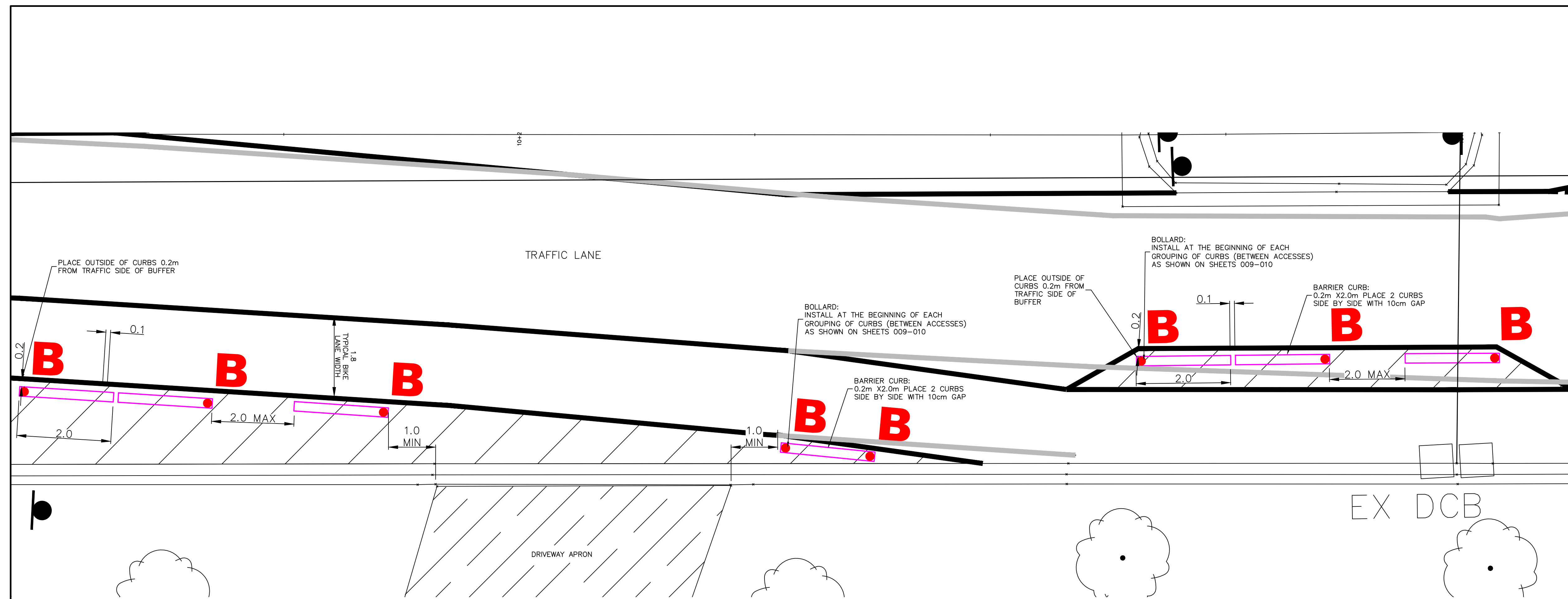


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Suite 203 - 350 Oxford Street West  
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tel 519 472 7328 fax 519 472 9354  
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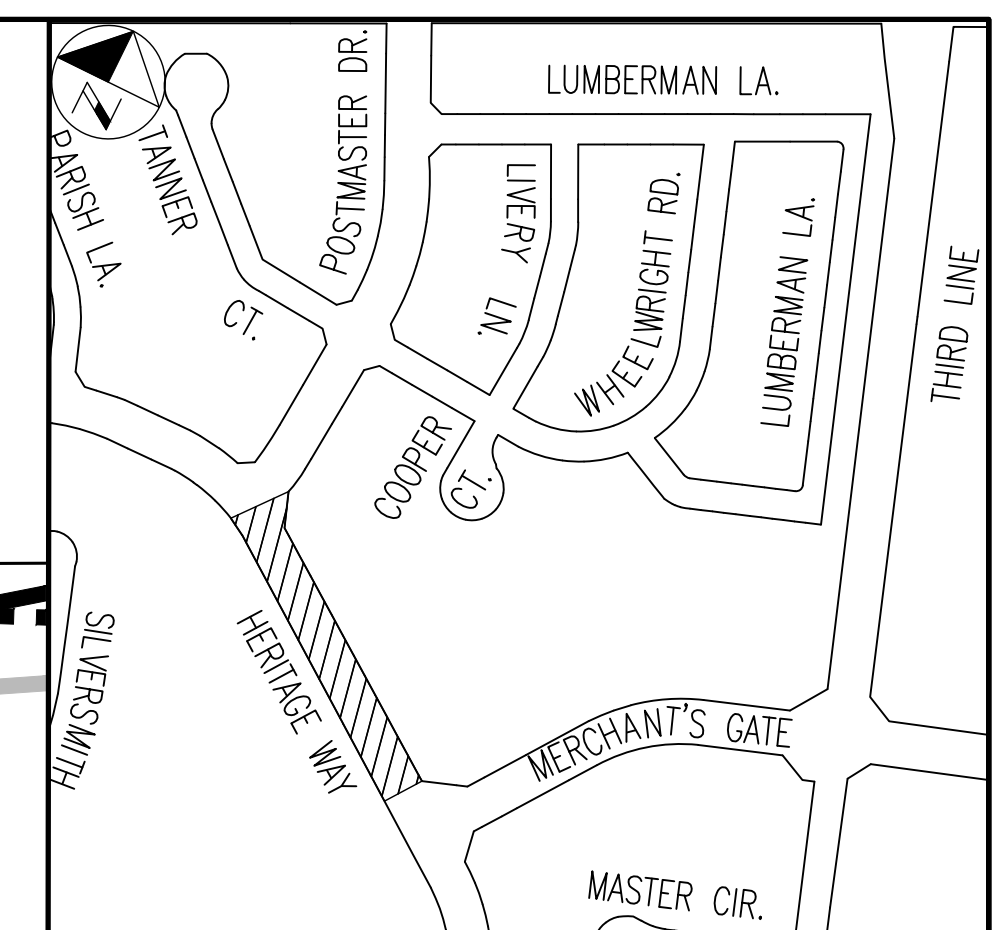
OAKVILLE  
**Town of Oakville**  
Transportation and Engineering

PAVEMENT MARKING PLAN  
TRAFFIC CALMING INFRASTRUCTURE  
HERITAGE GLEN PUBLIC SCHOOL  
HERITAGE WAY  
FROM POSTMASTER DR TO MERCHANTS GATE

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
CONTRACT NO. RFT--2023	DRAWING NO. SHEET 013 OF 014



BOLLARD PLACEMENT  
1:50



KEY PLAN  
N.T.S.

1	23-05-30	PVS	90% SUBMISSION	JS
2	23-06-12	PVS	100% SUBMISSION	JS

NO.	DATE	BY	REVISIONS	MANU	CAD
DESIGN	PVS	CH'KD	SH	DATE	17-01-2023
DRAWN	JS	CH'KD	PVS		

SCALE	0 2.5 5 10 20	REFERENCES
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APPROVALS	FIELD NOTES
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MUNICIPAL

STAMP

2023-06-17

S. HAYMAN

LICENCED PROFESSIONAL ENGINEER

PROVINCE OF ONTARIO

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OAKVILLE

Town of Oakville

Transportation and Engineering

DETAILS

TRAFFIC CALMING INFRASTRUCTURE  
ST. BERNADETTE CATHOLIC ELEMENTARY SCHOOL  
AND HERITAGE GLEN PUBLIC SCHOOL  
HERITAGE WAY

CONSULTANT FILE NO. 142042	MUNICIPAL DRAWING NO.
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CONTRACT NO. RFT--2023	DRAWING NO. SHEET 014 OF 014
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**DEVELOTECH**  
Leadership. Passion. Innovation.

Home page

Our products

Ped-Zone™ sign for speed reduction

Cyclo-Zone™ flexible bollard

Ped-Zone™ sign for pedestrian crossings

Bitu-Link™ epoxy

Contact us

**OAKVILLE**

PLACE CITY LOGO ON TOP OF BOLLARD

Develotech Inc.  
Tel : 450-799-4537

**Cyclo-Zone™ flexible bollard**  
Unmatched Resistance, Durable Installation

Overview Technical information Cyclo-Zone at work

Installation

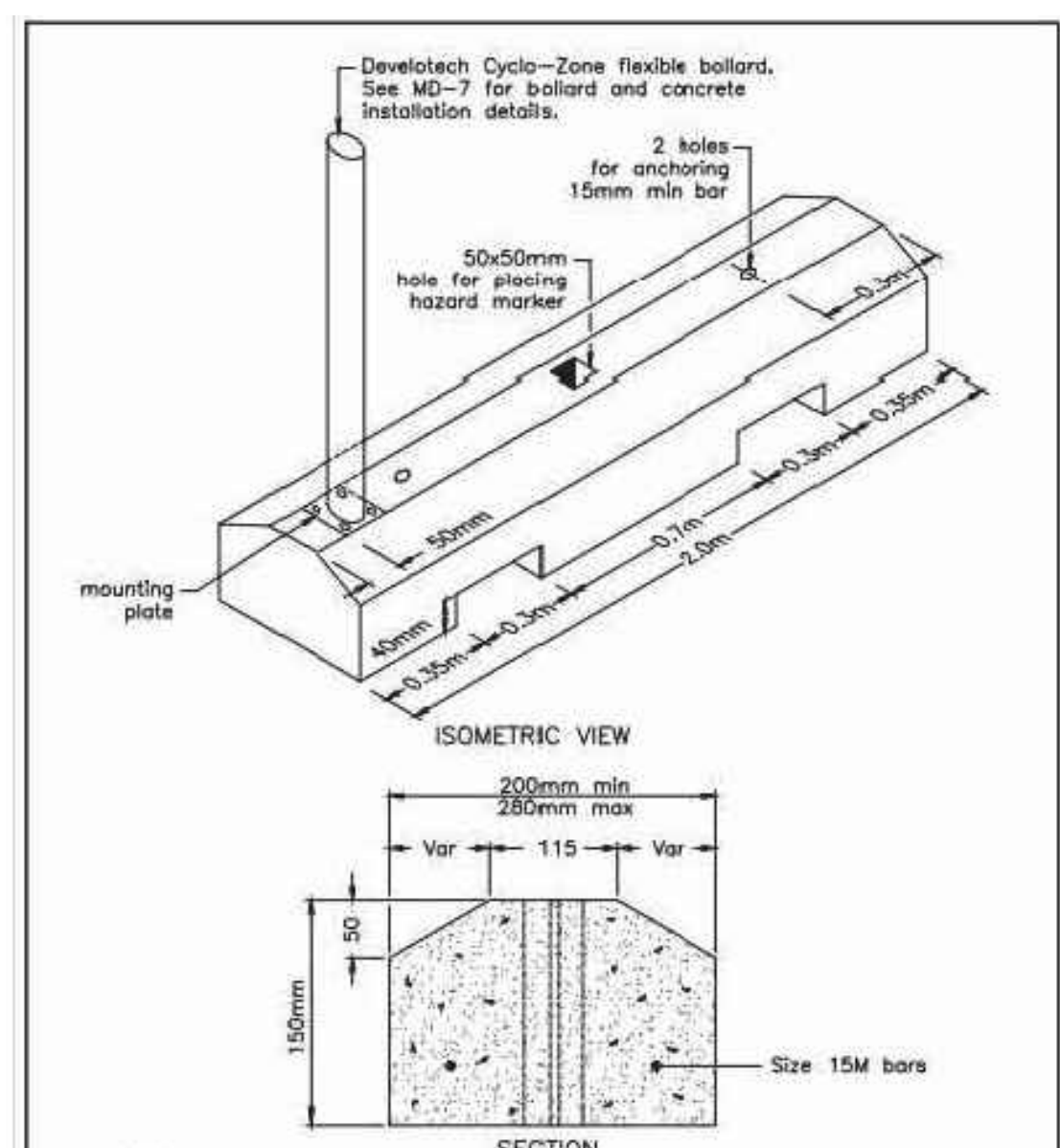
Height: 122 cm  
Width: 10.2 cm  
Thickness: 0.3 cm  
White horizontal stripes (4X): 80 mm  
Blue horizontal stripes (4X): 36 mm  
Recommended distance between 2 bollards: at most 20 m

Options

Colour of bollard: Blue, Black, Green  
Other colours available on request  
Colour of reflective sheeting: White, Yellow, Red, Blue, Green, Orange, Brown, Yellow-Green  
Pictograms on reflective sheeting



DEVELOTECH CYCLO-ZONE FLEXIBLE BOLLARD - BLUE  
NTS



NOTES:

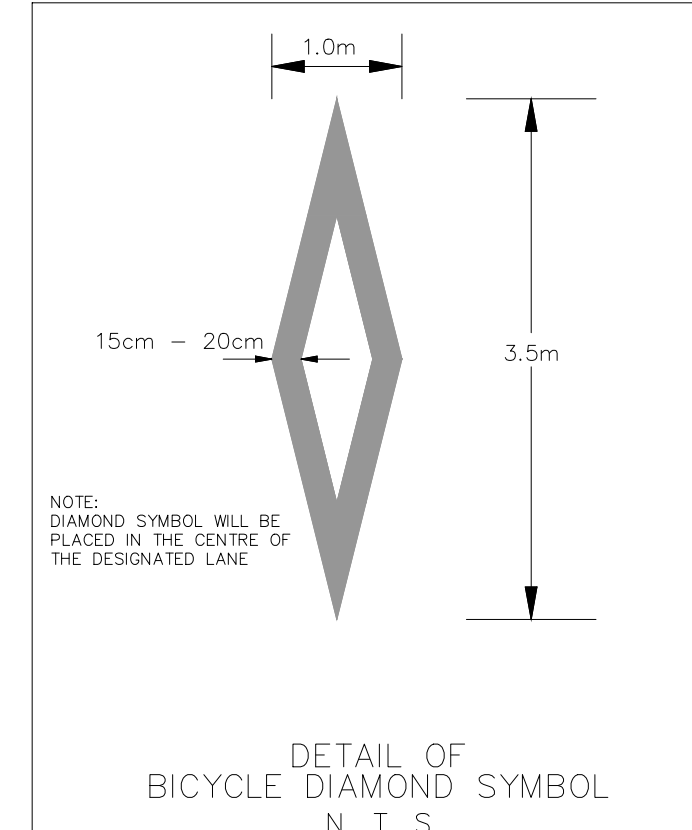
A Class of concrete shall be C2 according to CSA A23.1.

B All dimensions are in millimetres unless otherwise shown.

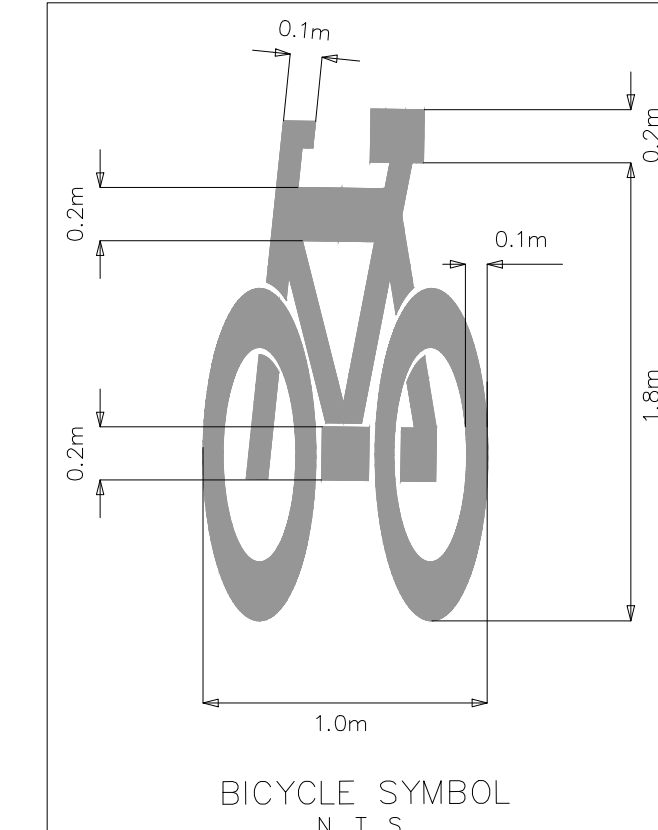
C For single curb installation, place one bollard at each end.

D For double curb installation, place one bollard at start of first curb and one at the end of the second.

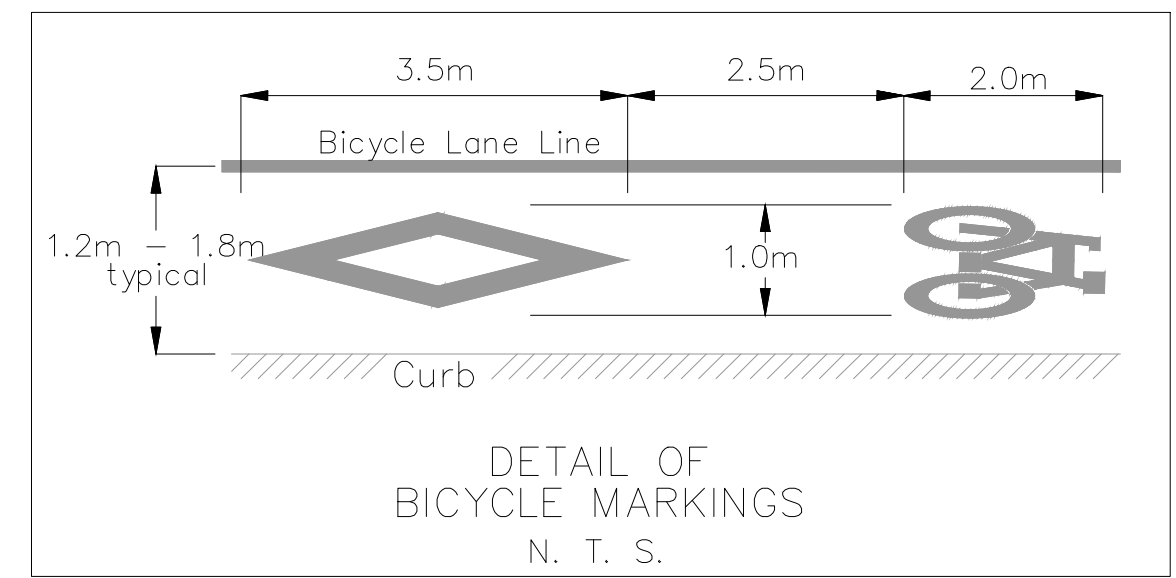
STANDARD PRECAST CONCRETE CURB



DETAIL OF BICYCLE DIAMOND SYMBOL  
N. T. S.



BICYCLE SYMBOL  
N. T. S.



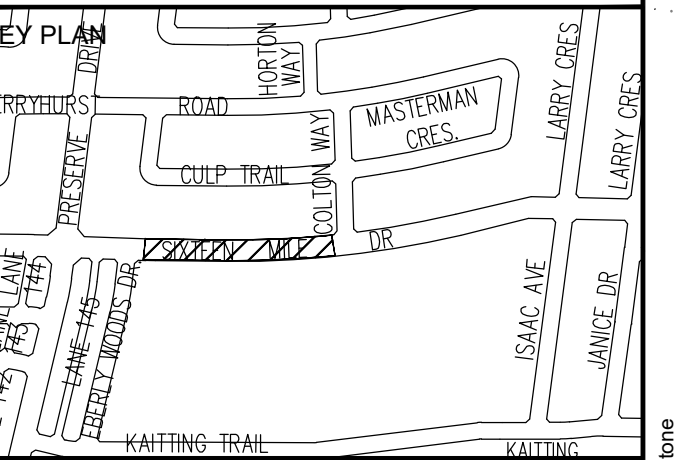
DETAIL OF BICYCLE MARKINGS  
N. T. S.

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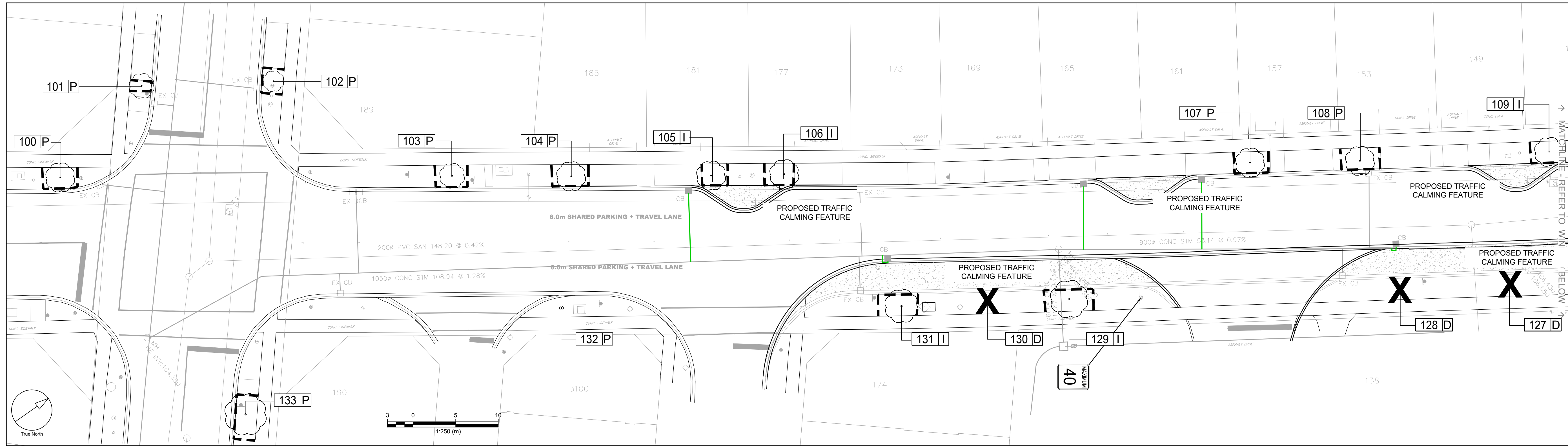
**ISSUES**

No.	DESCRIPTION	DATE
1	FOR 30% SUBMISSION	2022-04-26

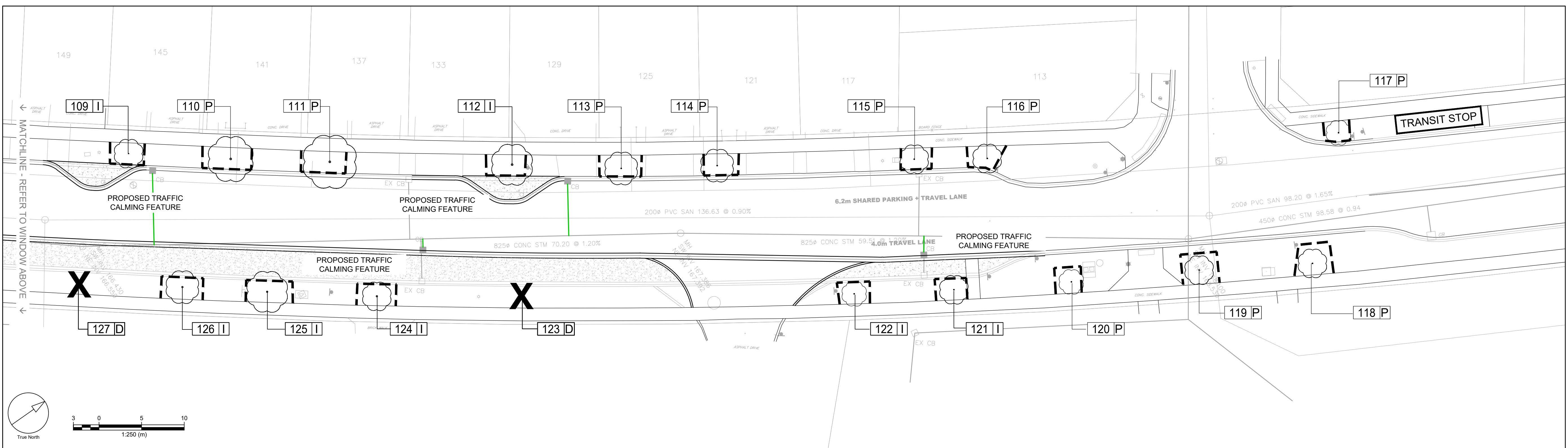


**LEGEND**

- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- TREE IDENTIFICATION TAGS
- TREE TO BE PRESERVED
- TREE TO BE REMOVED
- TREES IMPACTED BY PROPOSED CONSTRUCTION
- TREES THAT ARE DEAD
- TEMPORARY PAIGE WIRE TREE PROTECTION FENCING



**1 SIXTEEN MILE DRIVE**  
 TPP-1 SCALE 1:250



**2 SIXTEEN MILE DRIVE**  
 TPP-1 SCALE 1:250

**SEAL**

**SITE PLAN NUMBER**

**PRIME CONSULTANT**  
**IBI GROUP**  
 Suite 101 - 410 Albert Street  
 Waterloo ON N2L 3V3 Canada  
 tel 519 585 2255  
 ibigroup.com

**PROJECT**  
 TRAFFIC CALMING INFRASTRUCTURE  
 ST. GREGORY CATHOLIC ELEM. SCH.  
 SIXTEEN MILE DRIVE  
 FROM PRESERVE DR  
 TO COLTON WAY

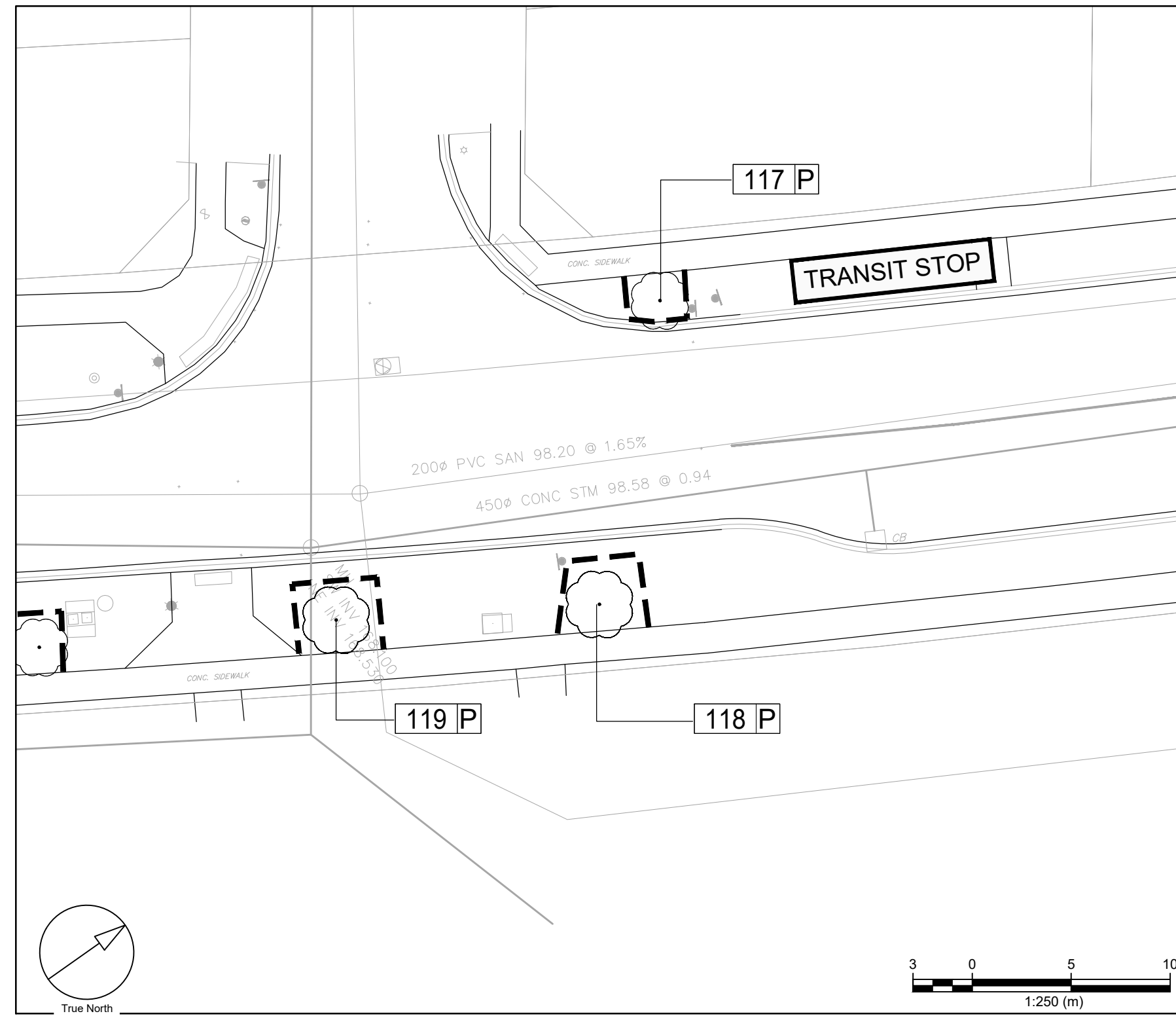
**PROJECT NO:**  
 142042  
**DRAWN BY:** E.L.  
**CHECKED BY:** G.J.  
**PROJECT MGR:** G.J.  
**APPROVED BY:** G.J.

**SHEET TITLE**  
 TREE PRESERVATION PLAN

**SHEET NUMBER**  
 TPP-1  
**ISSUE**  
 1

Project: Wednesday, April 26, 2023 2:28:45 PM by Gregory Johnstone  
 File Location: T:\142042\_Detailed\_Draft\03\_Design\05\_Landscape\Sheets\142042\_TPP Oakville 30% submission April 26 2023.dwg Last Saved: April 26, 2023, by gregory johnstone  
 SCALE CHECK: 1/250





**1** SIXTEEN MILE DRIVE  
SCALE 1:250

ID#	Botanical Name	Common Name	DBH (cm)	Dripline Radius (m)	Trunk Integrity	Crown Integrity	Crown Vigor	Overall Condition	Ownership	Impacts	Action	Comments
<b>Sixteen Mile Drive (Preserve Dr. to Colton Way) - Saint Gregory</b>												
100	Acer saccharum	Legacy Sugar maple	8	1.7	Good	Good	Good	Good	Municipal	None	Preserve and protect	
101	Acer rubrum	Red maple	8	1.54	Good	Good	Good	Good	Municipal	None	Preserve and protect	
102	Acer rubrum	Red maple	8	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Some minor old damage to trunk. Very close to light post.
103	Acer saccharum	Legacy Sugar maple	8	1.5	Fair	Good	Good	Good	Municipal	None	Preserve and protect	Scar in lower trunk
104	Acer saccharum	Legacy Sugar maple	10	1.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	Old bird nest in tree
105	Acer saccharum	Legacy Sugar maple	11	1.8	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Pavers around base. Old bird nest in tree.
106	Acer rubrum	Red maple	8	1.7	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Old bird nest in tree
107	Acer saccharum	Legacy Sugar maple	11	1.74	Good	Good	Good	Good	Municipal	None	Preserve and protect	
108	Acer saccharum	Legacy Sugar maple	11	1.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	Planting bed at base.
109	Acer saccharum	Legacy Sugar maple	10	1.65	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	A couple of branches have been pruned.
110	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	20	2.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	
111	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	18.5	3.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
112	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	21	2.46	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Daylily bed at base of tree.
113	Acer saccharum	Legacy Sugar maple	11	1.94	Good	Good	Good	Good	Municipal	None	Preserve and protect	
114	Acer rubrum	Red maple	10	1.93	Good	Good	Fair	Good	Municipal	None	Preserve and protect	Some dieback in the canopy
115	Acer rubrum	Red maple	11	1.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	
116	Acer rubrum	Red maple	11	1.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	Flower bed at base of trunk.
117	Acer saccharum	Legacy Sugar maple	11	1.58	Good	Good	Good	Good	Municipal	None	Preserve and protect	Soil mounded at base
118	Acer saccharum	Legacy Sugar maple	8	1.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	
119	Acer rubrum	Red maple	9	1.66	Good	Good	Good	Good	Municipal	None	Preserve and protect	
120	Acer saccharum	Legacy Sugar maple	9	1.5	Fair	Good	Good	Good	Municipal	None	Preserve and protect	Old damage on lower trunk
121	Acer saccharum	Legacy Sugar maple	8	1.8	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	
122	Acer saccharum	Legacy Sugar maple	11	1.6	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	
123	DEAD										Remove	
124	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	13	1.7	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	
125	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	16	2.57	Good	Good	Fair	Good	Municipal	Injury due to construction	Preserve and protect	Some tip dieback
126	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	14	2.1	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Some girdled roots
127	DEAD										Remove	
128	DEAD										Remove	
129	Acer rubrum	Red maple	11	2.2	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Some suckering
130	DEAD										Remove	
131	Acer rubrum	Red maple	13	2.1	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Tree was planted quite high.
132	Acer saccharum	Legacy Sugar maple	9	0.33	Good	Good	Fair	Good	Municipal	None	Preserve and protect	
133	Acer x freemanii	Freeman maple	14	2.52	Good	Good	Good	Good	Municipal	None	Preserve and protect	

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**ISSUES**

No.	DESCRIPTION	DATE
1	FOR 30% SUBMISSION	2022-04-26



**LEGEND**

- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- TREE IDENTIFICATION TAGS
  - 0 P — TREE TO BE PRESERVED
  - 0 R — TREE TO BE REMOVED
  - 0 I — TREES IMPACTED BY PROPOSED CONSTRUCTION
  - 0 D — TREES THAT ARE DEAD
- TEMPORARY PAIGE WIRE TREE PROTECTION FENCING

SEAL

ISA-ON-1016A

**SITE PLAN NUMBER**

**PRIME CONSULTANT**  
**IBI GROUP**  
Suite 101 - 410 Albert Street  
Waterloo ON N2L 3V3 Canada  
tel 519 585 2255  
ibigroup.com

**PROJECT**  
**TRAFFIC CALMING INFRASTRUCTURE**  
ST. GREGORY CATHOLIC ELEM. SCH.  
SIXTEEN MILE DRIVE  
FROM PRESERVE DR  
TO COLTON WAY

**PROJECT NO:**  
142042

<b>DRAWN BY:</b> E.L.	<b>CHECKED BY:</b> G.J.
<b>PROJECT MGR:</b> G.J.	<b>APPROVED BY:</b> G.J.

**SHEET TITLE**  
**TREE PRESERVATION PLAN**

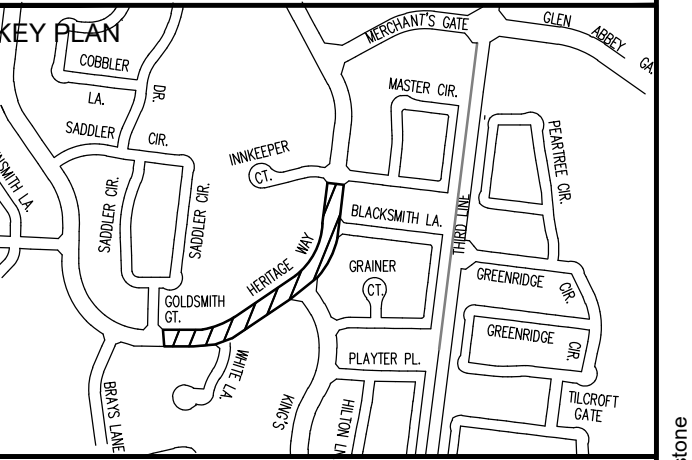
<b>SHEET NUMBER</b> <b>TPP-2</b>	<b>ISSUE</b> <b>1</b>
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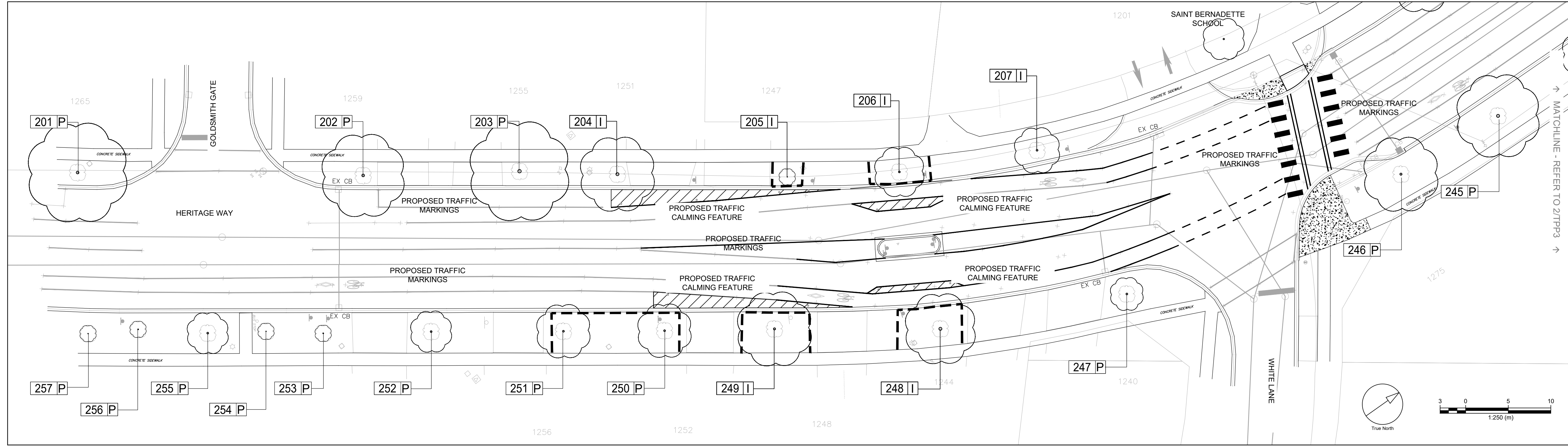
**ISSUES**

No.	DESCRIPTION	DATE
1	FOR 30% SUBMISSION	2022-04-26

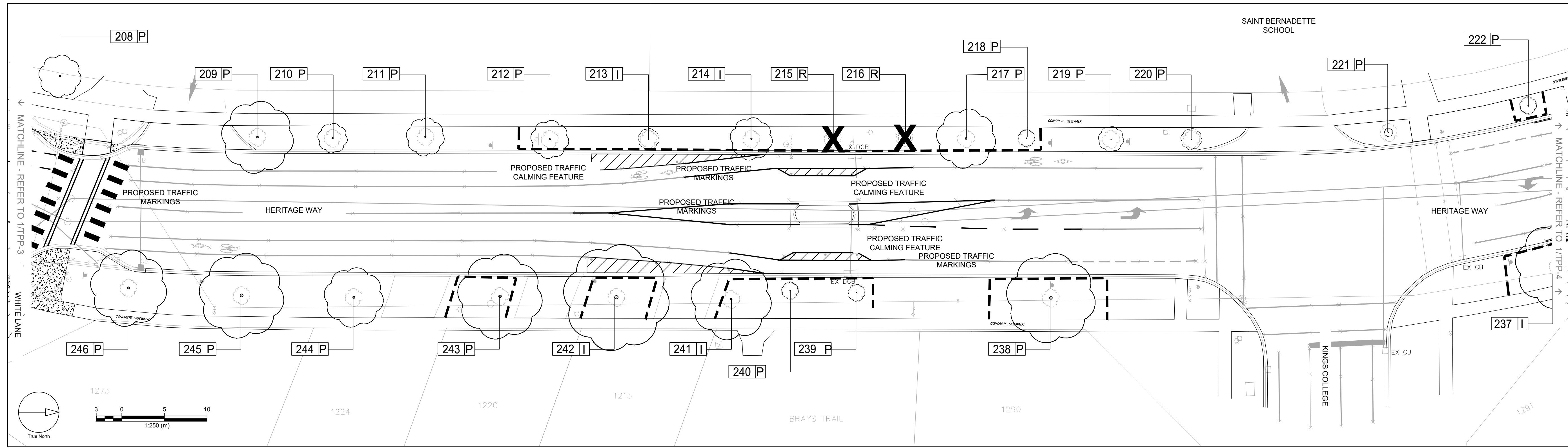


**LEGEND**

- EXISTING DECIDUOUS TREE
- EXISTING CONIFEROUS TREE
- TREE IDENTIFICATION TAG
- TREE TO BE PRESERVED
- TREE TO BE REMOVED
- TREES IMPACTED BY PROPOSED CONSTRUCTION
- TREES THAT ARE DEAD
- TEMPORARY PAIGE WIRE TREE PROTECTION FENCING



**1** HERITAGE WAY (GOLDSMITH GATE TO WHITE LANE) - SAINT BERNADETTE  
 TPP-3 SCALE 1:250



**2** HERITAGE WAY (WHITE LANE TO KINGS COLLEGE) - SAINT BERNADETTE  
 TPP-3 SCALE 1:250

SEAL

ISA-ON-1016A

**SITE PLAN NUMBER**

**PRIME CONSULTANT**

**IBI GROUP**  
 Suite 101 - 410 Albert Street  
 Waterloo ON N2L 3V3 Canada  
 tel 519 585 2255  
 ibigroup.com

**PROJECT**

**TRAFFIC CALMING INFRASTRUCTURE**  
 ST. BERNADETTE CATHOLIC ELEM. SCH.  
 HERITAGE WAY  
 FROM BLACKSMITH LANE  
 TO GOLDSMITH GATE

**PROJECT NO:**  
142042

**DRAWN BY:** E.L.  
**CHECKED BY:** G.J.

**PROJECT MGR:** G.J.  
**APPROVED BY:** G.J.

**SHEET TITLE**

**TREE PRESERVATION PLAN**

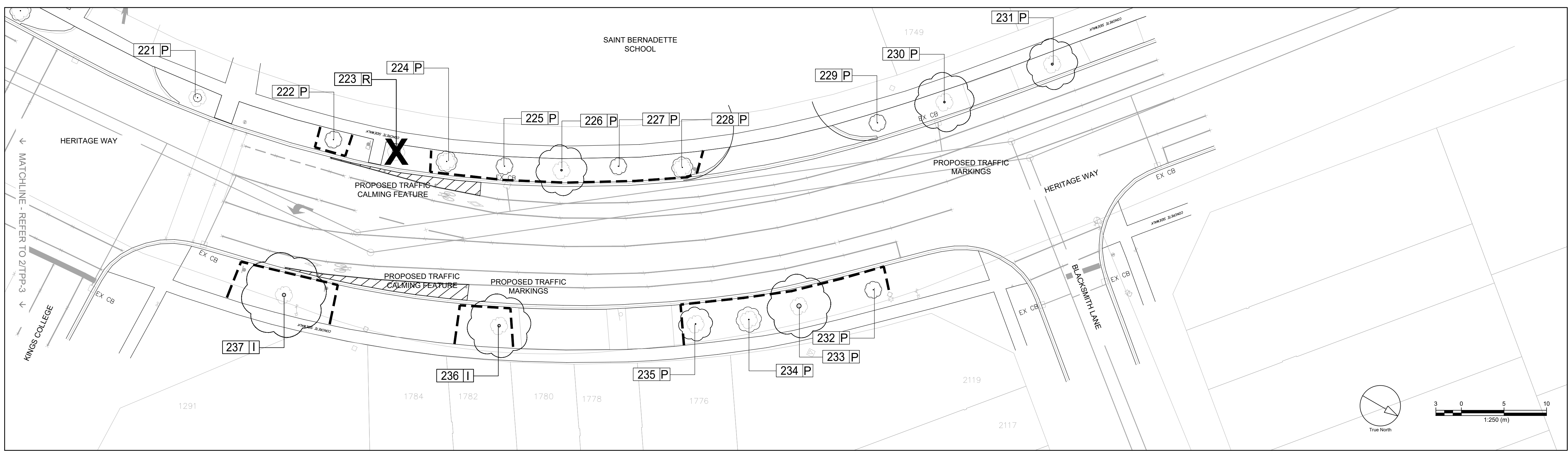
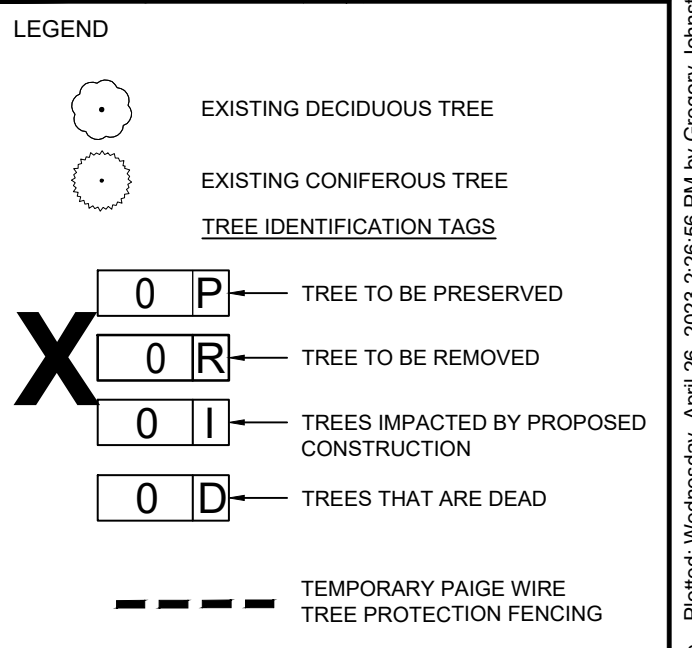
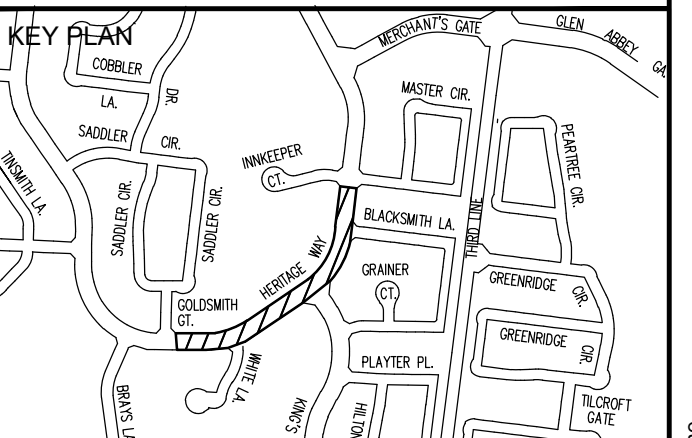
**SHEET NUMBER** **ISSUE**

**TPP-3** **1**

File Location: T:\142042\_Detailed\_Design\7.0\_Production\7.03\_Design\05\_Landscape\Sheets\142042\_TPP Oakville 30% submission April 26, 2023.dwg Last Saved: April 26, 2023, by gregory.johnson Printed: Wednesday, April 26, 2023, 2:27:24 PM by Gregory.Johnson

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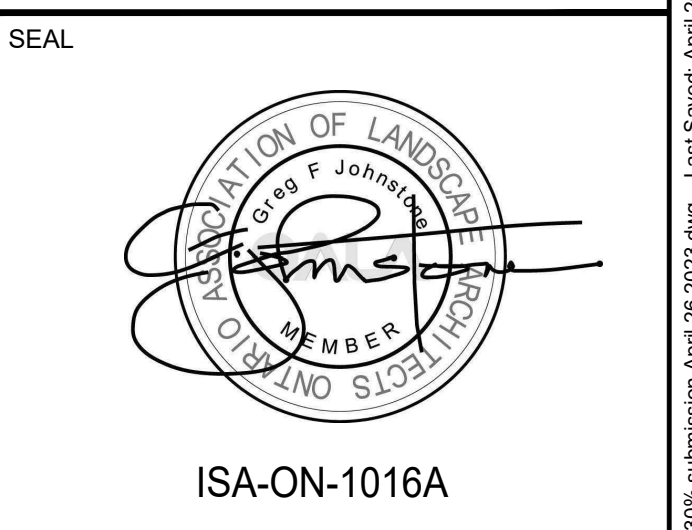
ISSUES	No.	DESCRIPTION	DATE
	1	FOR 30% SUBMISSION	2022-04-26



**1 HERITAGE WAY (KINGS COLLEGE TO BLACKSMITH LANE) - SAINT BERNADETTE**  
 SCALE 1:250

ID#	Botanical Name	Common Name	DBH (cm)	Dripline Radius (m)	Trunk Integrity	Crown Integrity	Crown Vigor	Overall Condition	Ownership	Impacts	Action	Comments
<b>Heritage Way (Goldsmith Gate to Inskeeper Court) - Saint Bernadette</b>												
201	Gleditsia tri. Var. inermis	Honey locust	31	6	Good	Good	Good	Good	Municipal	None	Preserve and protect	
202	Quercus rubra	Red oak	30	5	Good	Good	Good	Good	Municipal	None	Preserve and protect	
203	Quercus rubra	Red oak	38	6	Good	Good	Good	Good	Municipal	None	Preserve and protect	
204	Quercus rubra	Red oak	33	4.4	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	
205	Ginkgo biloba	Maidenhair tree	5	0.9	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Newly planted tree.
206	Acer platanoides	Norway maple	18	2.9	Good	Good-fair	Good	Good	Municipal	Injury due to construction	Preserve and protect	Maintenance pruned on road side.
207	Acer platanoides	Norway maple	22	2.7	Fair	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Tree has a slight lean towards road. Maintenance pruned on road side.
208	Acer platanoides	Norway maple	16	2.4	Fair-poor	Poor	Poor	Poor	Private	None	Preserve and protect	Tree has split in trunk. Appears to be in decline.
209	Platanus x acerfolia	London plane tree	22	4.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side.
210	Acer platanoides	Norway maple	15	1.7	Good	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side. Has some exposed roots.
211	Acer platanoides	Norway maple	16	2.3	Fair	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side.
212	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	13	2.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side. Old wound at base of trunk.
213	Acer platanoides	Norway maple	10	1.3	Fair-poor	Fair	Good	Fair	Municipal	Injury due to construction	Preserve and protect	Maintenance pruned on road side. Old wound on trunk.
214	Acer platanoides	Norway maple	15	2.5	Fair	Good-fair	Good	Fair	Municipal	Injury due to construction	Preserve and protect	Maintenance pruned on road side. Large old crack on trunk. Exposed roots.
215	Quercus bicolor	swamp white oak	4	0.6	Good-fair	Poor	Poor	Poor	Municipal	Injury due to construction	Remove	Replace.
216	Tilia cordata	Linden	7	0.8	Fair-poor	Poor	Poor	Poor	Municipal	Injury due to construction	Remove	Replace.
217	Platanus x acerfolia	London plane tree	21	3.6	Fair	Good-fair	Good	Fair	Municipal	None	Preserve and protect	Tree leans towards road.
218	Ulmus davidiana var. japonica 'Accolade'	Accolade elm	5	1.1	Fair	Fair	Fair	Fair	Municipal	None	Preserve and protect	Tree leans towards road. Might consider replacement.
219	Acer x Freemanii	Freeman maple	6	1.4	Good	Good	Fair	Good	Municipal	None	Preserve and protect	Suckering at base of tree.
220	Aesculus glabra	Ohio buckeye	7	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
221	Aesculus glabra	Ohio buckeye	6	0.5	Good	Good	Good	Good	Municipal	None	Preserve and protect	
222	Gleditsia tri. Var. inermis	Honey locust	6	1.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	
223	Acer rubrum	Columnar red maple	5	0.4	Good-fair	Poor	Poor	Poor	Municipal	None	Remove	Replace.
224	Gleditsia tri. Var. inermis	Honey locust	6	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
225	Gymnocladus dioicus	Kentucky coffee tree	6	1.1	Good	Good	Good-fair	Good	Municipal	None	Preserve and protect	Has some exposed roots.

226	Acer platanoides	Norway maple	20	2.9	Fair	Good	Good	Good	Municipal	None	Preserve and protect	Hollow with rot section in lower trunk. Review for structural integrity.
227	Gymnocladus dioicus	Kentucky coffee tree	6	1.1	Good	Good-fair	Good-fair	Good	Municipal	None	Preserve and protect	
228	Phellodendron amurense	Corktree	5	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
229	Phellodendron amurense	Corktree	6	1.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	
230	Acer platanoides	Norway maple	20	3.5	Fair	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side. Moderate lean.
231	Acer platanoides	Norway maple	24	3.1	Good-fair	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side.
232	Ginkgo biloba	Maidenhair tree	5	1	Good	Good	Good	Good	Municipal	None	Preserve and protect	
233	Tilia cordata	Linden	48	3.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side. Possible rot in central trunk.
234	Quercus bicolor	Swamp white oak	8	1.4	Good	Good	Good	Good	Municipal	None	Preserve and protect	
235	Gymnocladus dioicus	Kentucky coffee tree	11	2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
236	Tilia cordata	Linden	32	3.7	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Maintenance pruned on road side.
237	Acer platanoides	Norway maple	39	5.1	Good-fair	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Has some exposed roots.
238	Acer platanoides	Norway maple	32	5.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Tree has girdled roots.
239	Acer saccharum	Sugar maple	5	1	Good-fair	Good-fair	Good-fair	Good-fair	Municipal	None	Preserve and protect	
240	Acer saccharum	Sugar maple	5	1	Good-fair	Good-fair	Good-fair	Good-fair	Municipal	None	Preserve and protect	
241	Gleditsia tri. Var. inermis	Honey locust	22	4.8	Good-fair	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Tree has a slight lean towards road.
242	Acer platanoides	Norway maple	38	6.2	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Tree has girdled roots.
243	Acer platanoides	Norway maple	32	5.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	Tree will conflict with light post.
244	Acer platanoides	Norway maple	25	3.4	Good	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side.
245	Acer platanoides	Norway maple	34	4.9	Good	Good	Good	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side.
246	Acer platanoides	Norway maple	26	4.6	Good	Good	Fair	Good	Municipal	None	Preserve and protect	Maintenance pruned on road side.
247	Acer rubrum	Columnar red maple	20	2.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	Lower branches have been pruned.
248	Quercus rubra	Red oak	36	4.3	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	Conflicts with light post.
249	Acer saccharum	Sugar maple	27	4.5	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	planting bed a base of tree.
250	Acer platanoides	Norway maple	18	3.3	Good-fair	Good	Good	Good	Municipal	None	Preserve and protect	
251	Acer platanoides	Norway maple	22	3.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Tree has a slight lean. Lots of soil mounded at base of trunk.
252	Acer platanoides	Norway maple	21	2.6	Good	Good	Good	Good	Municipal	None	Preserve and protect	
253	Quercus bicolor	Swamp white oak	8	1.1	Good	Good-fair	Fair	Good-fair	Municipal	None	Preserve and protect	Planted a bit low.
254	Quercus bicolor	Swamp white oak	7	1.1	Good-fair	Good-fair	Good-fair	Good-fair	Municipal	None	Preserve and protect	
255	Acer platanoides	Norway maple	17	2.4	Good-fair	Good	Good	Good	Municipal	None	Preserve and protect	Conflicts with light post. Old trunk damage.
256	Acer rubrum	Columnar red maple	8	0.9	Good	Good	Good	Good	Municipal	None	Preserve and protect	
257	Acer rubrum	Columnar red maple	6	1.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	



SITE PLAN NUMBER

PRIME CONSULTANT  
**IBI GROUP**  
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 Waterloo ON N2L 3V3 Canada  
 Tel 519 595 2255  
 ibigroup.com

PROJECT  
 TRAFFIC CALMING INFRASTRUCTURE  
 ST. BERNADETTE CATHOLIC ELEM. SCH.  
 HERITAGE WAY  
 FROM BLACKSMITH LANE  
 TO GOLDSMITH GATE

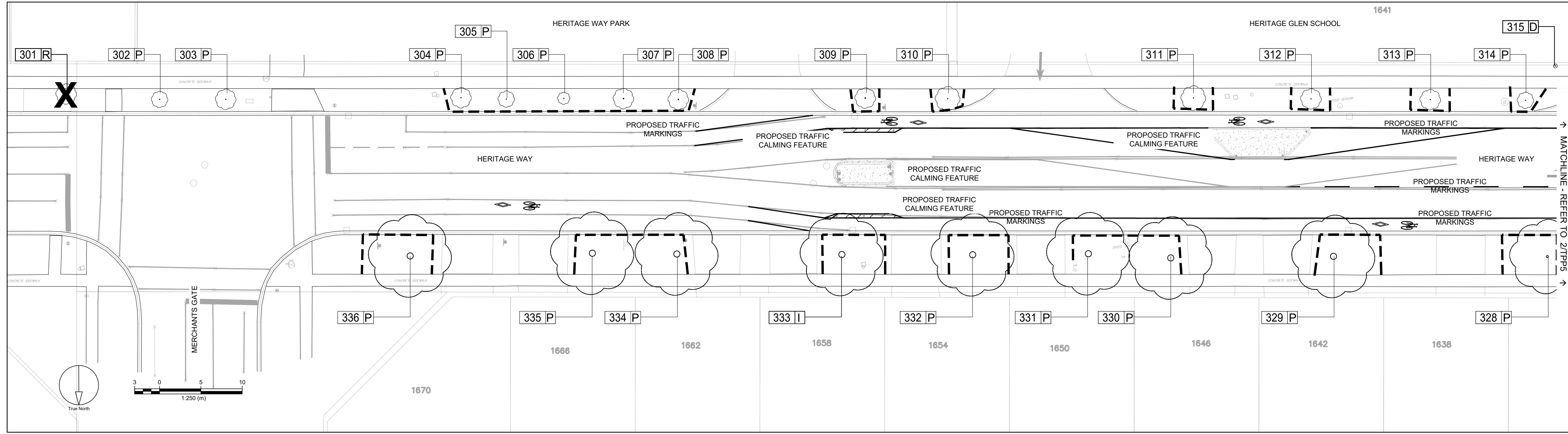
PROJECT NO:  
 142042

DRAWN BY:  
 E.L.  
 CHECKED BY:  
 G.J.

PROJECT MGR:  
 G.J.  
 APPROVED BY:  
 G.J.

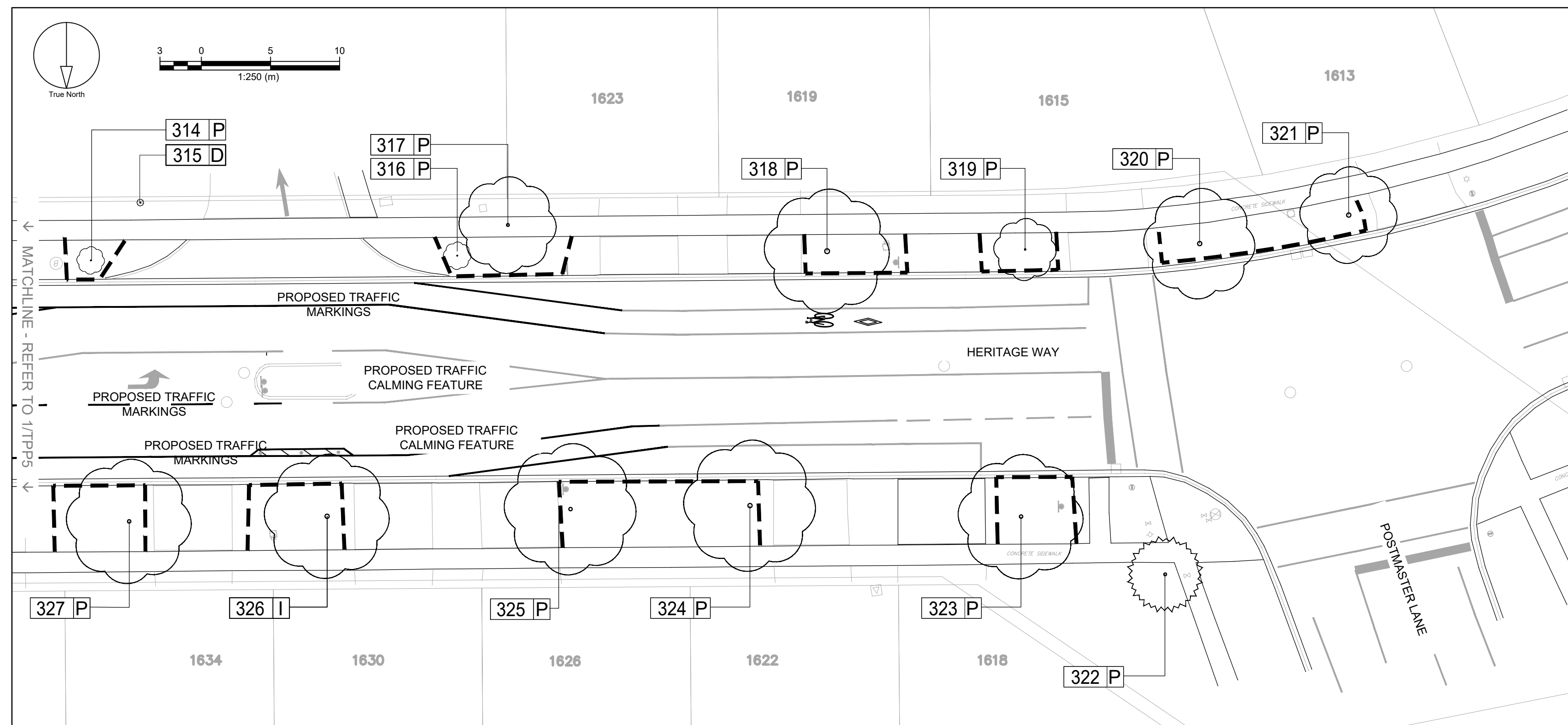
SHEET TITLE  
 TREE PRESERVATION PLAN

SHEET NUMBER  
**TPP-4**  
 ISSUE  
**1**



1 HERITAGE WAY (MERCHANTS GATE TO POSTMASTER LANE) - HERITAGE GLEN

TPP-5 SCALE 1:250

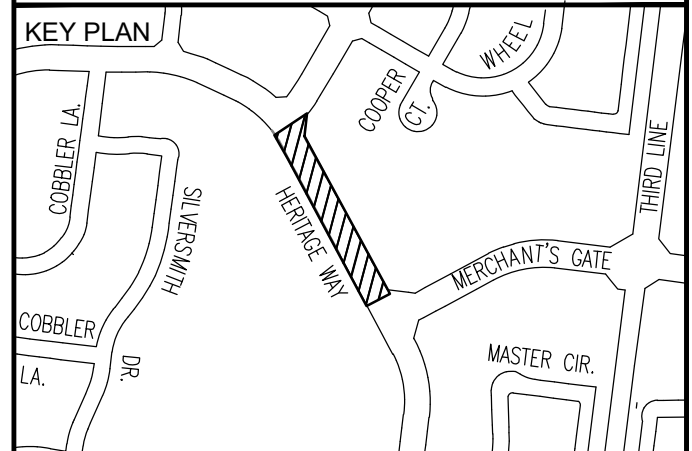


2 HERITAGE WAY (MERCHANTS GATE TO POSTMASTER LANE) - HERITAGE GLEN (SEE TPP-6 FOR INVENTORY SCHEDULE)

TPP-5 SCALE 1:250

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ISSUES	No.	DESCRIPTION	DATE
	1	FOR 30% SUBMISSION	2022-04-26



- LEGEND**
- EXISTING DECIDUOUS TREE
  - EXISTING CONIFEROUS TREE
  - TREE IDENTIFICATION TAGS**
  - TREE TO BE PRESERVED
  - TREE TO BE REMOVED
  - TREES IMPACTED BY PROPOSED CONSTRUCTION
  - TREES THAT ARE DEAD
  - TEMPORARY PAIGE WIRE TREE PROTECTION FENCING

SEAL  
  
 ISA-ON-1016A

**SITE PLAN NUMBER**

**PRIME CONSULTANT**  
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**PROJECT**  
**TRAFFIC CALMING INFRASTRUCTURE**  
 HERITAGE GLEN PUBLIC SCHOOL  
 HERITAGE WAY  
 FROM POSTMASTER DR TO MERCHANTS GATE

**PROJECT NO:**  
142042  
**DRAWN BY:**  
E.L.  
**CHECKED BY:**  
G.J.  
**PROJECT MGR:**  
G.J.  
**APPROVED BY:**  
G.J.

**SHEET TITLE**  
**TREE PRESERVATION PLAN**

**SHEET NUMBER**  
**TPP-5**      **ISSUE**  
**1**

File Location: T:\142042\_Detailed\_Design\IBI\_Landscape\Sheet\142042\_TPP\_Oakville\_30%\_submission\_April\_26\_2023.dwg    Last Saved: April 26, 2023, 10:18 PM by Gregory Johnsons    Printed: Wednesday, April 26, 2023 2:26:18 PM by Gregory Johnsons    1/1

HERITAGE WAY (MERCHANTS GATE TO POSTMASTER LANE TREE INVENTORY SCHEDULE)

ID#	Botanical Name	Common Name	DBH (cm)	Dripline Radius (m)	Trunk Integrity	Crown Integrity	Crown Vigor	Overall Condition	Ownership	Impacts	Action	Comments
Heritage Way (Postmaster Drive to Merchants Gate) - Heritage Glen												
301	Quercus rubra	Red oak	10	1.2	Poor	Poor	Poor	Poor	Municipal	None	Remove	Tree is mostly dead and damaged. Growth is mostly on one side.
302	Gymnocladus dioicus	Kentucky coffee tree	7	1.1	Good-Fair	Good-Fair	Good-Fair	Good-Fair	Municipal	None	Preserve and protect	
303	Gymnocladus dioicus	Kentucky coffee tree	7	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
304	Gymnocladus dioicus	Kentucky coffee tree	7	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
305	Quercus bicolor	swamp white oak	7	1	Poor	Fair	Fair	Fair	Municipal	None	Preserve and protect	Tree has a fairly substantial bend in it. Should be considered for replacement.
306	Aesculus glabra	Ohio buckeye	4	0.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	
307	Tilia cordata	Linden	8	1.2	Good-Fair	Good	Good	Good	Municipal	None	Preserve and protect	Codominant leader
308	Tilia cordata	Linden	8	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
309	Tilia cordata	Linden	8	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
310	Acer x freemanii	Freeman maple	6	1.5	Good	Good	Good	Good	Municipal	None	Preserve and protect	
311	Acer x freemanii	Freeman maple	6	1.5	Good	Good	Good	Good	Municipal	None	Preserve and protect	Trunk has some damage to it. May need to be pruned at sidewalk.
312	Gleditsia tri. Var. inermis	Thornless honeylocust	6	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
313	Gleditsia tri. Var. inermis	Thornless honeylocust	6	1.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	
314	Gymnocladus dioicus	Kentucky coffee tree	7	1	Good	Good	Good	Good	Municipal	None	Preserve and protect	Remove hazard wooden stake sticking out of ground.
315	Stump											
316	Gymnocladus dioicus	Kentucky coffee tree	6	1	Poor	Poor	Poor	Poor	Municipal	None	Preserve and protect	May require removal.
317	Quercus rubra	Red oak	21	3.4	Good	Good	Good	Good	Municipal	None	Preserve and protect	
318	Quercus rubra	Red oak	34	4.6	Good	Good	Good	Good	Municipal	None	Preserve and protect	Conflicts with existing street light.
319	Gleditsia tri. Var. inermis	Thornless honeylocust	9	2.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Minor damage to trunk at base.
320	Quercus rubra	Red oak	31	4	Good	Good	Good	Good	Municipal	None	Preserve and protect	
321	Quercus rubra	Red oak	29	3.5	Good	Good	Good	Good	Municipal	None	Preserve and protect	
322	Picea pungens	Colorado spruce	20	2.8	Fair	Fair	Fair-Poor	Fair	Private	None	Preserve and protect	May have needlecast disease.
323	Quercus rubra	Red oak	25	4.6	Good	Good	Good	Good	Municipal	None	Preserve and protect	
324	Quercus rubra	Red oak	30	4.7	Good	Good	Good	Good	Municipal	None	Preserve and protect	
325	Quercus rubra	Red oak	25	4.7	Good	Good	Good	Good	Municipal	None	Preserve and protect	
326	Quercus rubra	Red oak	31	4.4	Good	Good	Good	Good	Municipal	Injury due to construction	Preserve and protect	
327	Quercus rubra	Red oak	23	4.5	Good	Good	Good	Good	Municipal	None	Preserve and protect	Has overhead tv cable wire in canopy.
328	Quercus rubra	Red oak	21	2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Has overhead tv cable wire in canopy.
329	Quercus rubra	Red oak	29	4.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	Has overhead tv cable wire in canopy.
330	Quercus rubra	Red oak	33	3.7	Good	Good	Good	Good	Municipal	None	Preserve and protect	Has overhead tv cable wire in canopy.
331	Quercus rubra	Red oak	25	3.1	Good	Good	Good	Good	Municipal	None	Preserve and protect	Has overhead tv cable wire in canopy.
332	Quercus rubra	Red oak	34	4.2	Good	Good	Good	Good	Municipal	None	Preserve and protect	Has overhead tv cable wire in canopy.
333	Quercus rubra	Red oak	23	3.1	Good	Good-Fair	Good	Good	Municipal	Injury due to construction	Preserve and protect	Will conflict with street light
334	Quercus robur	English oak	40	5.8	Good	Good	Good	Good	Municipal	None	Preserve and protect	
335	Quercus rubra	Red oak	25	4.9	Good	Good	Good	Good	Municipal	None	Preserve and protect	Planting bed at base
336	Quercus rubra	Red oak	25	3.6	Good	Good	Good	Good	Municipal	None	Preserve and protect	

1. The Tree Protection Zone

The Tree Protection Zone (TPZ) is the minimum setback required to maintain the structural integrity of the tree's anchor roots, based on generally accepted arboricultural principles. If trees are protected to the TPZ then the tree's anchor root structure is expected to be maintained.

No unauthorized activities may take place within the TPZ of a tree covered under any municipal permit process or agreement. The following chart shows the TPZ. Some trees and site conditions may require a greater setback at the Town's discretion.

Diameter of Trunk (DBH) <sup>2</sup> in centimetres	Tree Protection Zone <sup>3</sup> Distance from trunk measured in metres
<10	1.8
10-30	2.4
31-50	3.0
51-60	3.6
61-70	4.2
71-80	4.8
81-90	5.4
91-100	6.01.

For trees over 100 cm. DBH, add 10 cm. to the TPZ for every one centimetre of DBH.

2. Roots can extend from the trunk to 2-3 times the distance of the drip line (see Detail TP-1 (SCHEDULE 4) for further information).

3. Diameter at breast height (DBH) measurement of tree trunk taken at 1.37 metres above ground.

4. Tree Protection Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work.

2. Tree protection barriers - See Schedule 1 for further information.

Trees within or adjacent to a construction site must be protected during construction by means of a barrier installed in accordance with the table in section 1 and meet the following specifications:

- Tree protection barriers must be erected prior to the commencement of any construction activity that may injure a tree on the site and are to remain in place throughout the entire duration of the project. The applicant shall notify the appropriate Town department in writing prior to commencing any such activities to confirm that the tree protection barriers are in place.
- The tree protection barriers specified herein must remain in a condition satisfactory to the Town until all site activities including landscaping are complete.
- Authorization from the appropriate Town department must be obtained prior to the removal of tree protection barriers.
- If some fill or excavated material must be temporarily located near the tree protection barrier, a wooden barrier must be used to ensure no material enters the TPZ.
- A sign similar to the illustration below, provided by the Town and paid for by the applicant to be mounted.

Tree Protection Zone

No grade change, storage of materials or equipment is permitted within this area. This tree protection barrier must not be removed without the written authorization of the Town of Oakville. Report any contraventions to Contact Name \_\_\_\_\_ Tel No. \_\_\_\_\_ Unauthorized removal of the tree protection barrier or other contraventions may result in prosecution.

For trees covered under this procedure, written authorization from the town is required in the form of either a Tree Protection Agreement, or a Tree Protection Zone Encroachment Permit or a Tree Permit; and

The applicant is required to have a town approved tree service raise the crown of all branches to provide adequate clearance for construction equipment.

3.1. Tree Protection Agreement (TPA)

The applicant is required to enter into a Tree Protection Agreement when construction activities take place outside of the TPZ area as determined by Town Forester or designate. Should the town determine that a tree protection agreement is required, a tree protection agreement fee shall be charged to the applicant in accordance with the established town fees

3.2. Tree Protection Zone Encroachment Permit (TPZEP) - Schedule 2 (Application)

- It is recognized that there are cases where existing or proposed utilities, capital infrastructure or buildings are located within the TPZ of a tree impacted by construction. The expectation is for the project design to respect the TPZ, however, in cases where the proposed construction impacts the area within the TPZ, the applicant shall demonstrate, with appropriate supporting documentation, that the impact on the structural integrity of the anchor roots will be within acceptable limits to avoid creating a hazardous tree.
- A Tree Protection Zone Encroachment Permit is required when construction activities take place within the TPZ. An Application for TPZEP must be submitted to the Town of Oakville prior to anticipated construction start date. No other permit, agreement and/or consent issued by the Town authorizes working inside the tree protection zone of a Town Tree.
- An arborist must be present on site at all times when work is within the TPZ. The schedule of inspections must comply with Section 7 set out herein. Above ground clearance for overhanging branches in the work zone must be taken into consideration. The applicant is required to have a Town approved tree service raise the crown of all branches to provide adequate clearance for construction equipment.
- The Town specifies the non-invasive methods of excavation including but not limited to air spade, hydro vac, hand digging to minimize the damage to the health and structure of the trees.
- Root pruning in open trench methods of construction is required under the direction of - and along with - written approval of an arborist. The objective is to minimize severance of anchor roots, which provide upright support for the tree, thereby minimizing potential hazards.
- Emergency repairs due to underground utilities are permitted to commence immediately. However, the utility company concerned is responsible for notifying the Town as soon as possible when Town trees are involved.

3.1. Tree Permit (TP)

Where the impact on the structural integrity of anchor roots is beyond acceptable limits and may cause a hazardous tree:

- the tree may be removed in accordance with the applicable by-law; or
- in the case of a town tree, the applicant shall bear the cost of the tree and stump removal as well as payment of the amenity value of the tree as calculated in accordance with the most recent International Society of Arboriculture's Guide for Plan Appraisal.

**SCHEDULE 1 TREE PROTECTION BARRIER**

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, waferboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town road allowance where visibility must be maintained can be 1.2m (4ft.) high and consist of plastic white snow fencing on a wood frame made of 2"x 4"s.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

**DETAIL TP-1**

**The Crown and Root Structure of a Tree in an Optimum Growing Environment**

Name: \_\_\_\_\_  
Date: November 2016  
Scale: N.T.S.  
File No: \_\_\_\_\_

Note: Graphic and technical information supplied by the City of Toronto, Urban Forestry Services

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**Town of Oakville**  
Transportation and Engineering

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**ISSUES**

No.	DESCRIPTION	DATE
1	FOR 30% SUBMISSION	2022-04-26

**KEY PLAN**

SEAL  
ISA-ON-1016A

**SITE PLAN NUMBER**

**PRIME CONSULTANT**  
IBI GROUP  
Suite 101 - 410 Albert Street  
Waterloo ON N2L 3V3 Canada  
Tel 519 585 2255  
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**PROJECT**  
TRAFFIC CALMING INFRASTRUCTURE

**PROJECT NO:** 142042  
**DRAWN BY:** E.L.  
**CHECKED BY:** G.J.  
**PROJECT MGR:** G.J.  
**APPROVED BY:** G.J.

**SHEET TITLE**  
TREE PRESERVATION DETAIL

**SHEET NUMBER** TPP-6 **ISSUE** 1