



# APPENDIX G

## Trail Design Drawings



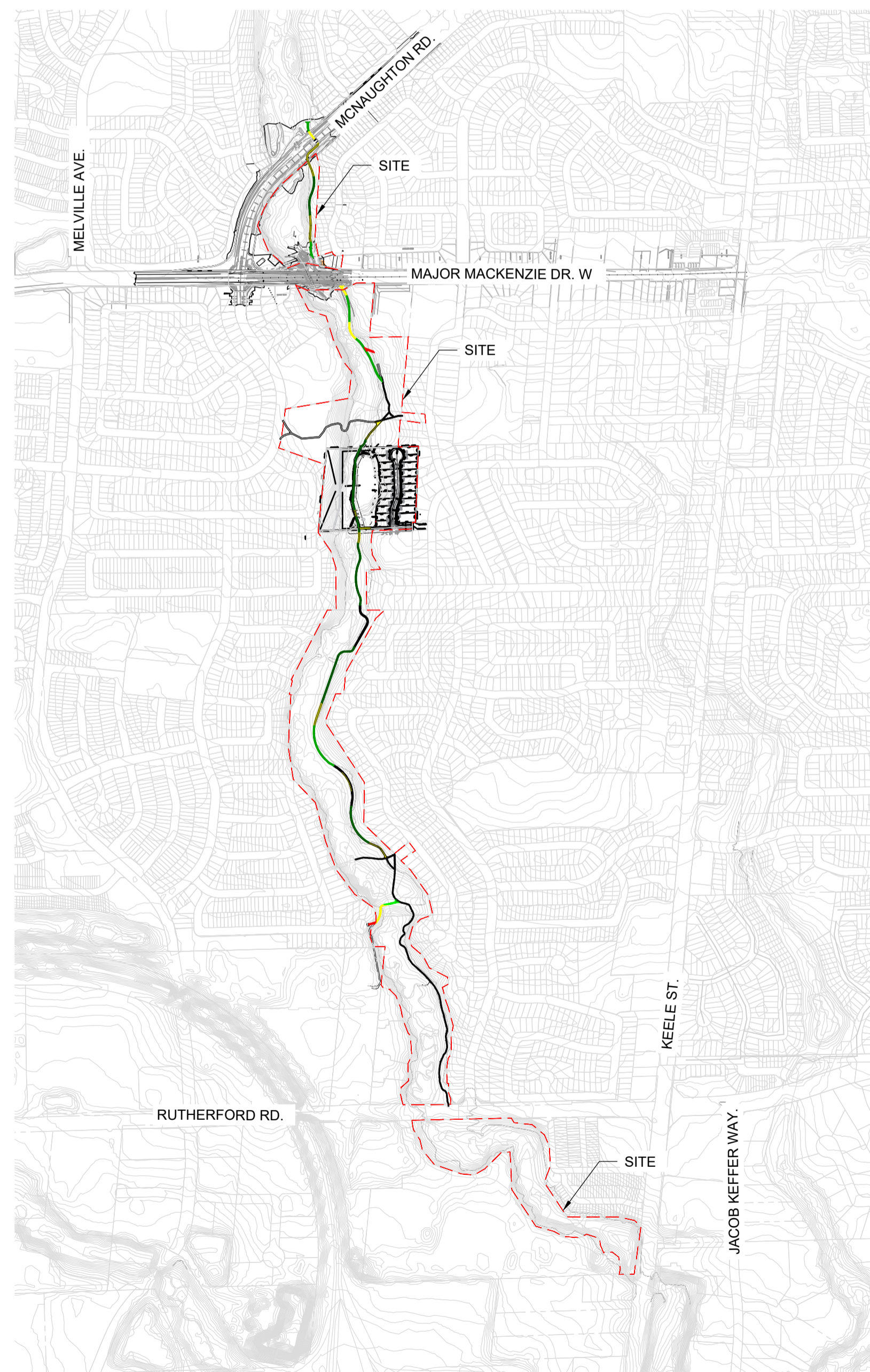
CITY OF VAUGHAN

# CITY OF VAUGHAN BARTLEY SMITH GREENWAY GAP TRAIL 30% DESIGN

Project No. 211-03701-00  
SUMMER 2021

## SITE AND ADJACENT PROPERTY CONTEXT:

ADDRESS:



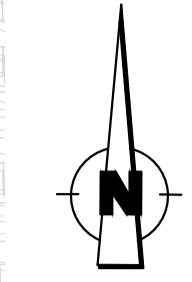
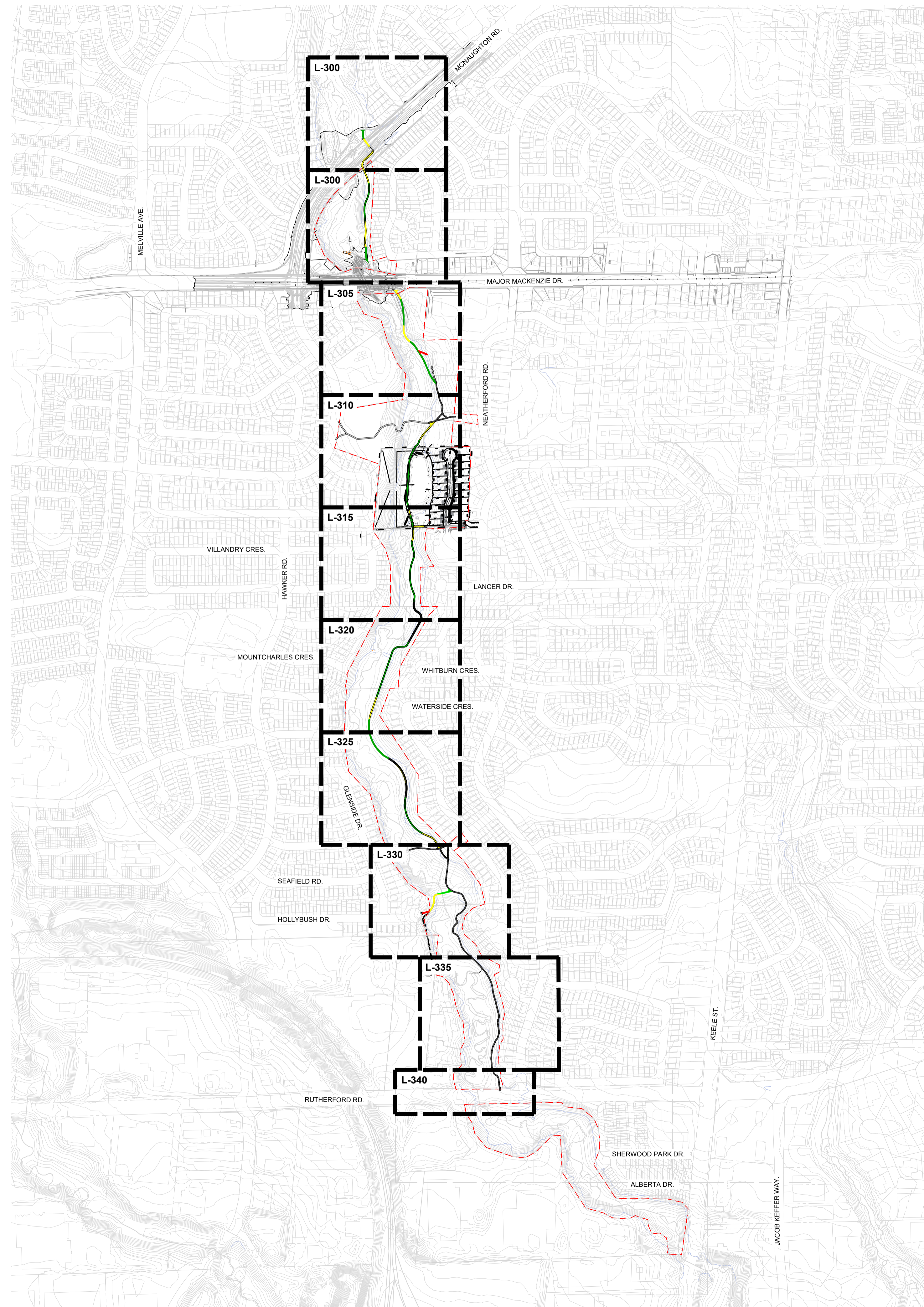
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PREPARED BY:







KEY MAP

LEGEND

- TRCA REGULATORY FLOODLINE
- SITE BOUNDARY

DRAWING INFORMATION

ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
CITY OF VAUGHAN  
YEAR:  
ADDRESS: 2141 MAJOR MACKENZIE DR.

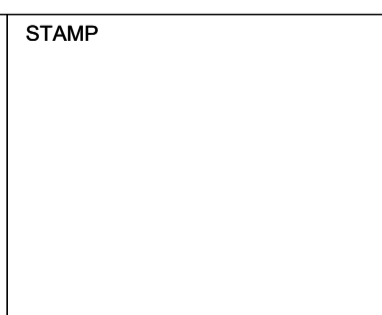
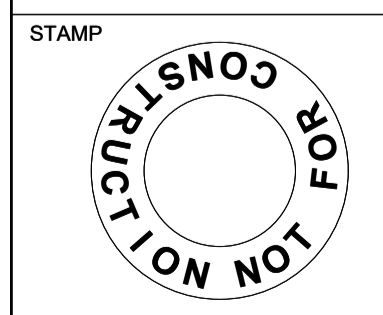
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CLIENT:  
**CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

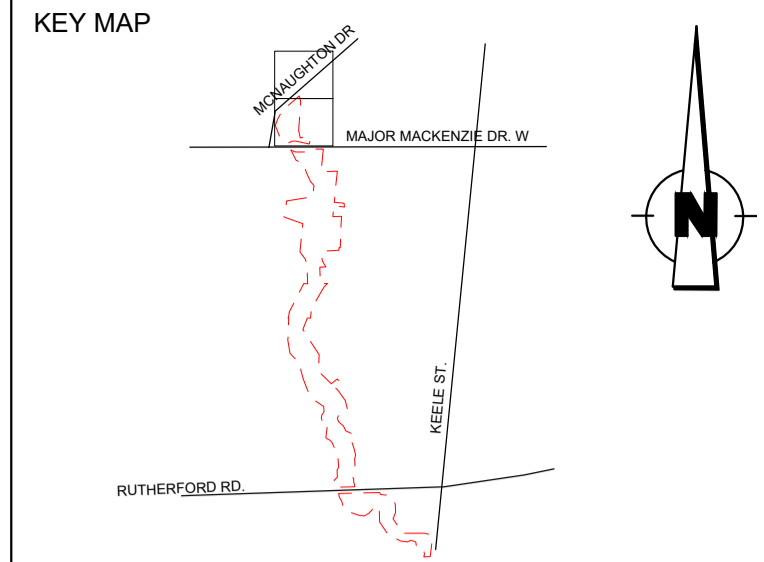
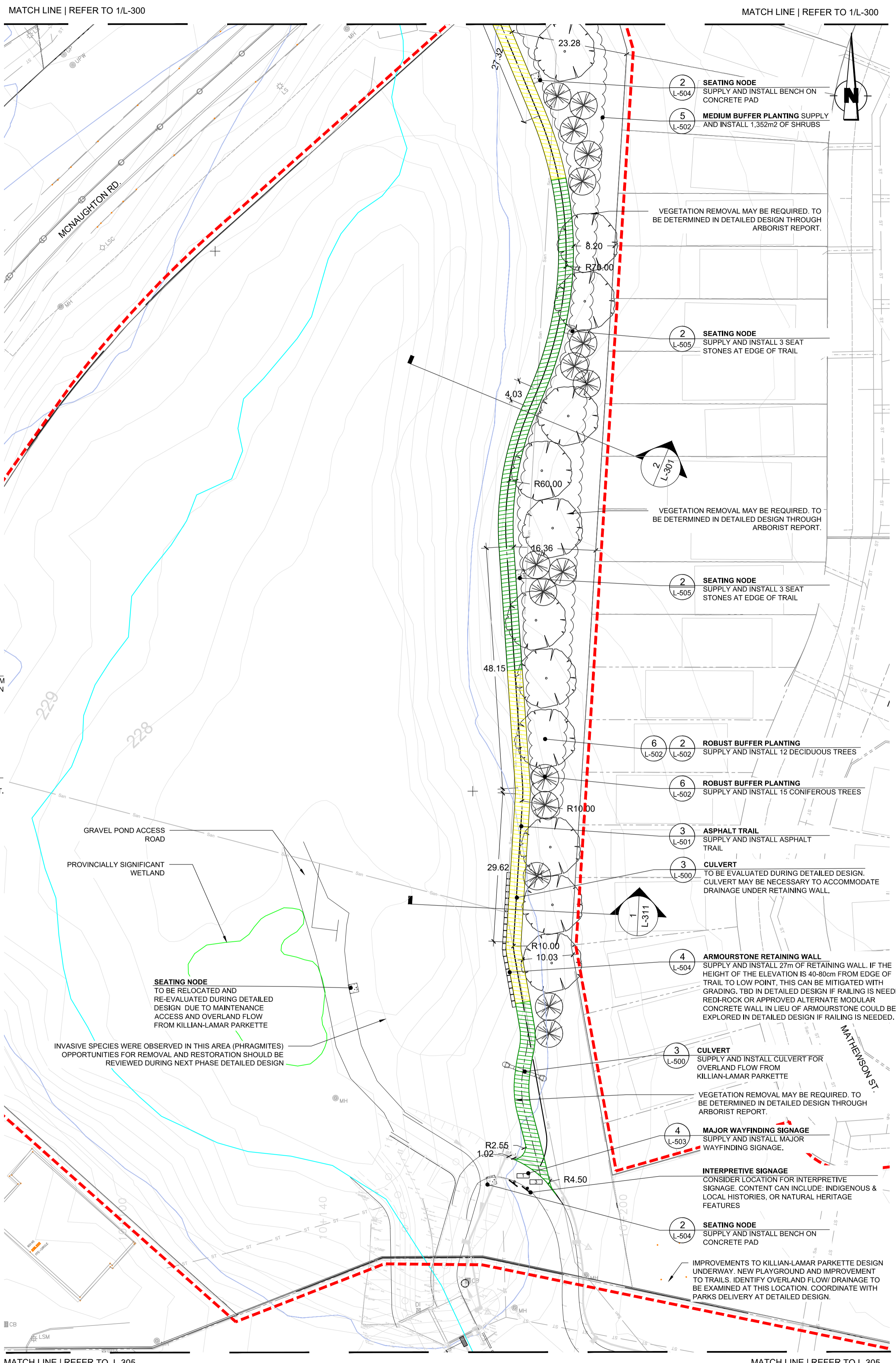
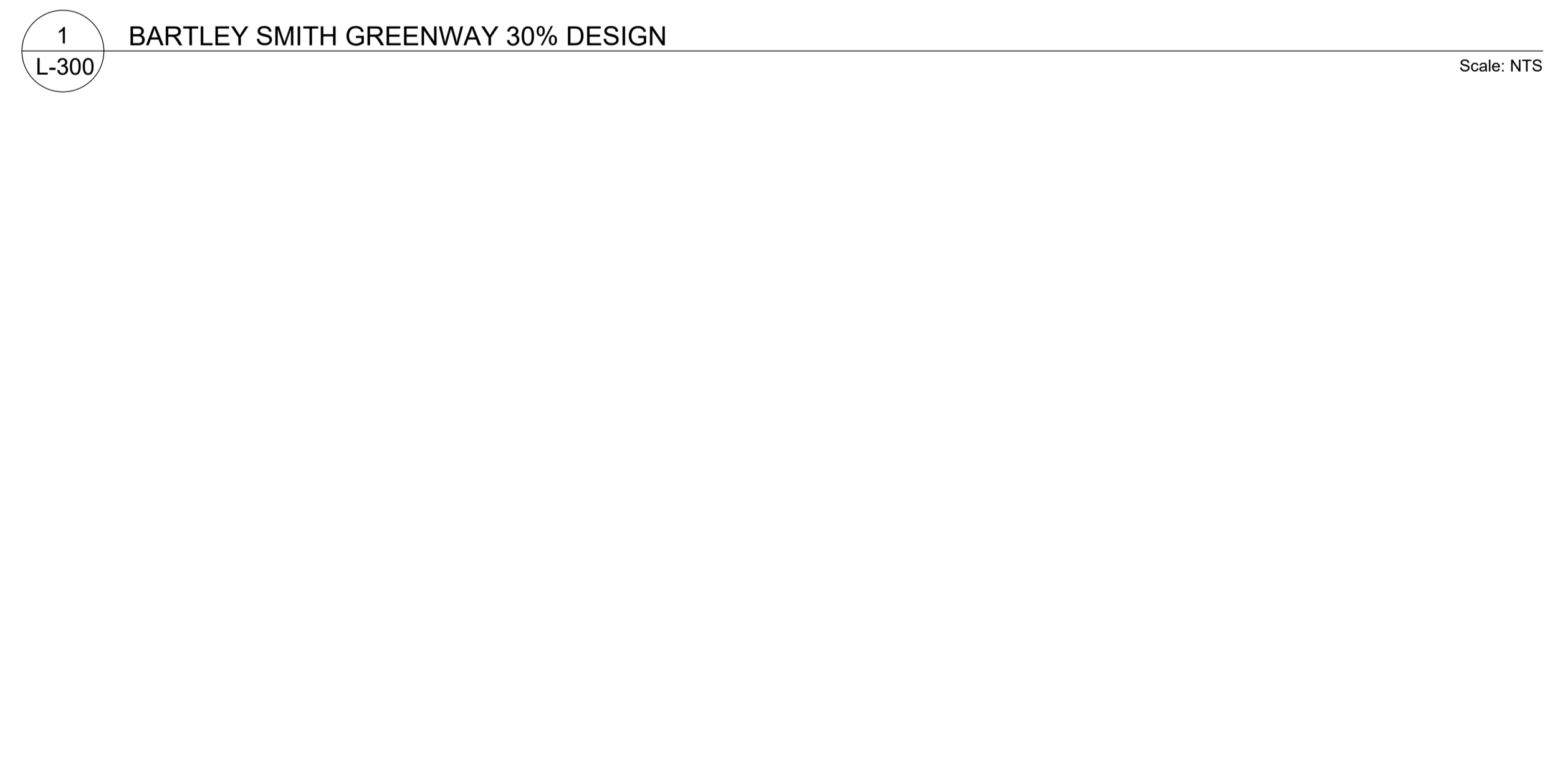
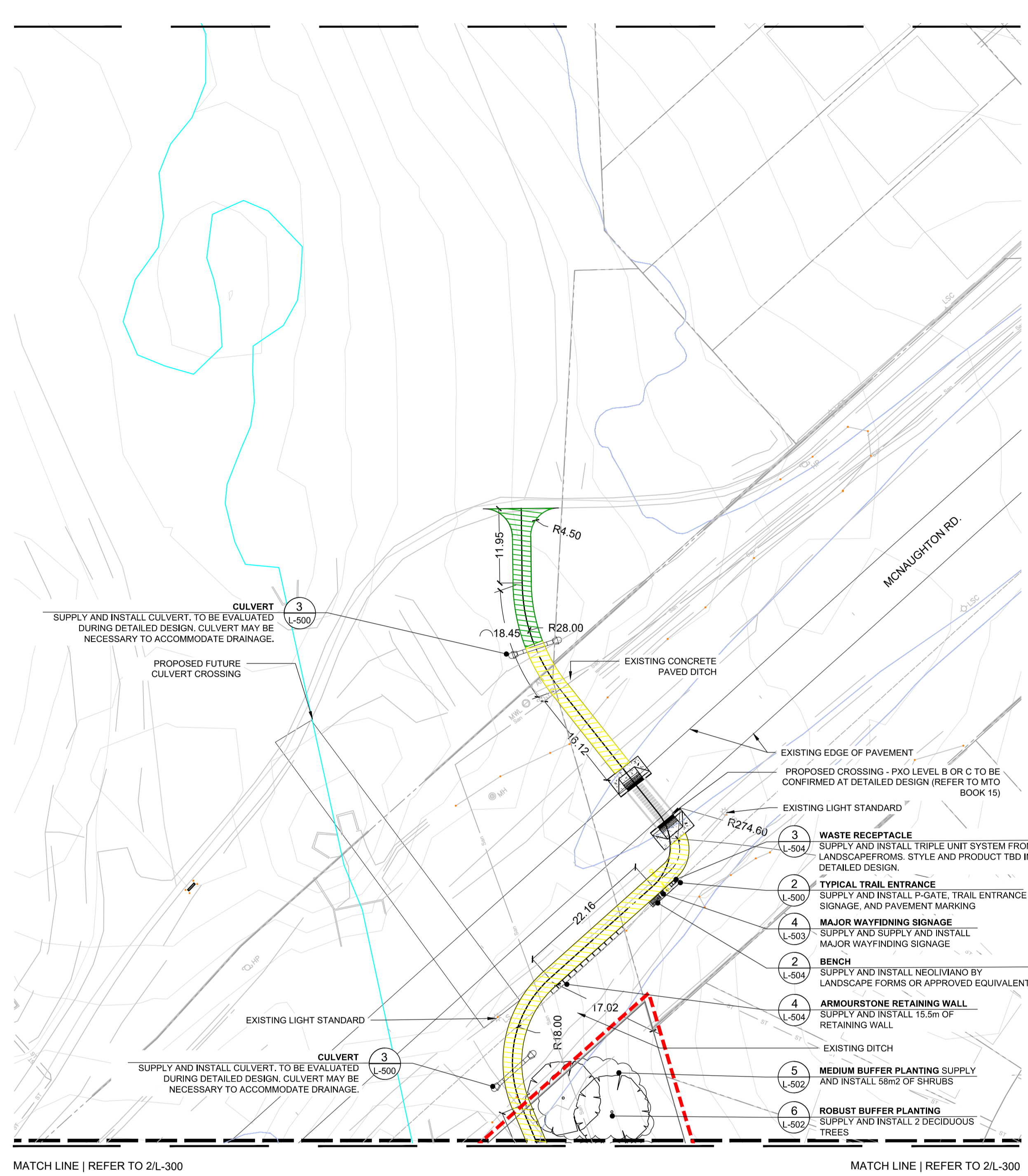
PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT  
SP #

SITE ADDRESS:  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**TRAIL LAYOUT PLAN**



DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	1:6000	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00			DWG. NUMBER	L-KEY



**LEGEND KEY**

- SITE BOUNDARY
- - - - - EXISTING TRAIL - FACILITY (TO REMAIN)
- ▤ EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
- ▦ DON RIVER WEST BRANCH
- TRCA 100 YEAR FLOODLINE
- ▧ PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
- ▨ PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
- ▩ PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
- PROPOSED TRAIL 3m MULCH
- EXISTING STORM SERVICE LINE
- EXISTING SANITARY
- EXISTING WATERMAIN

**NOTE:**

UNDERGROUND UTILITIES AND PLANTING LAYOUT TO BE DETERMINED BASED OFF THE TOTAL COMPENSATION DENOTED BY THE ARBORIST REPORT. THE LOCATION OF PLANTINGS CAN BE ADJUSTED IN THE DETAILED DESIGN.

AS PER TRCA'S STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL, ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.

**DRAWING INFORMATION**

ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
CITY OF VAUGHAN  
YEAR:  
ADDRESS: 2141 MAJOR MACKENZIE DR.

NO	DATE	REVISION/ISSUED	BY	APPD

WSP Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
1.519-743-8777  
www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

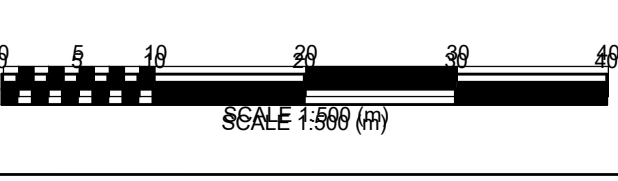
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**BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT  
SP #

SITE ADDRESS:  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

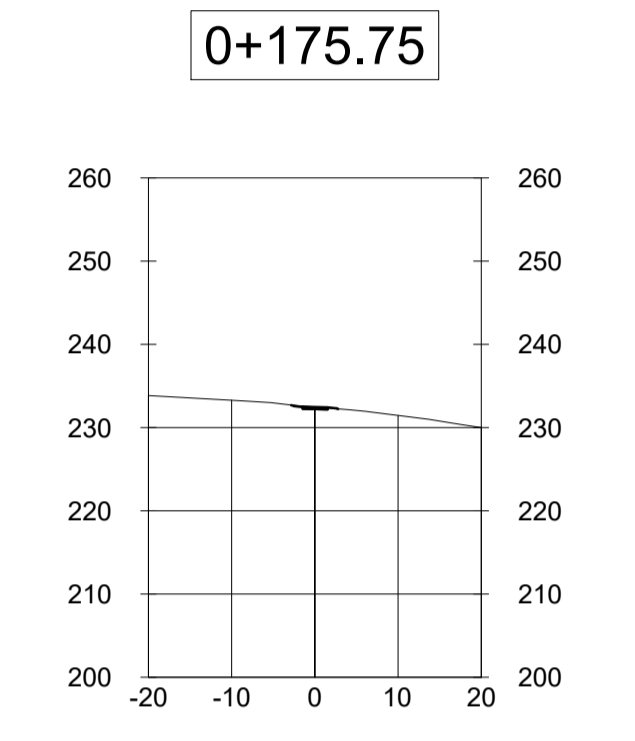
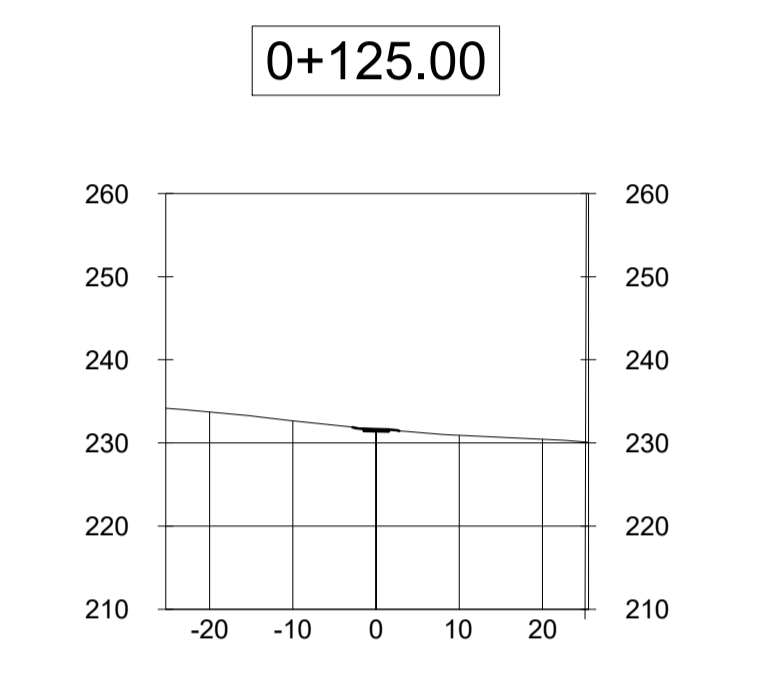
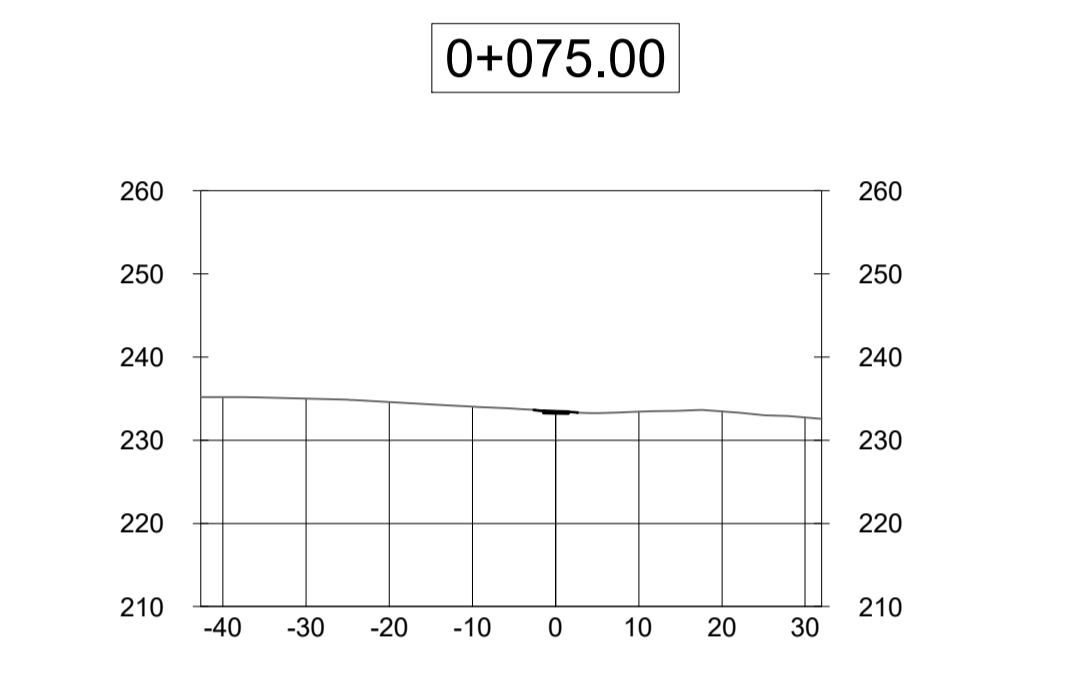
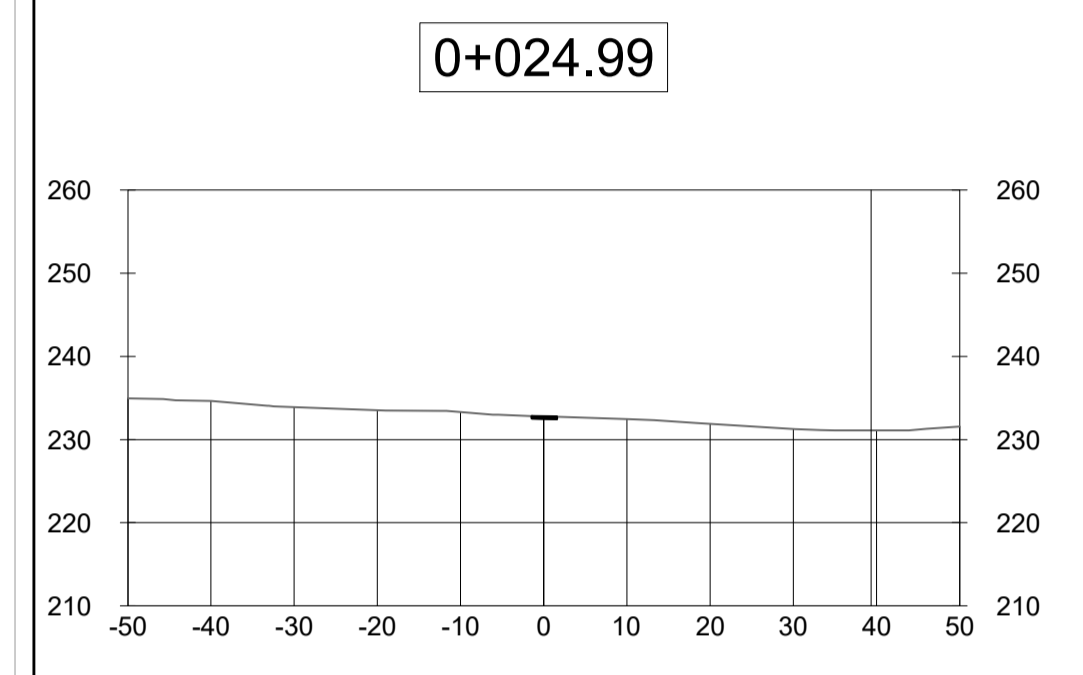
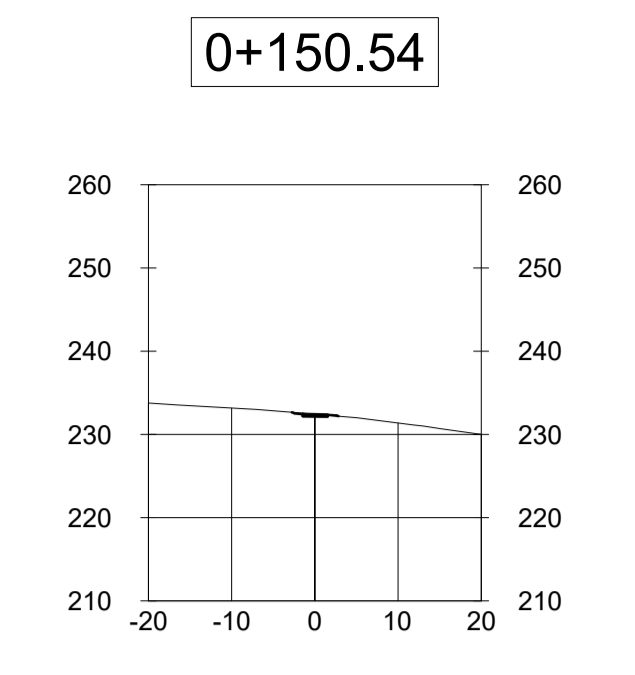
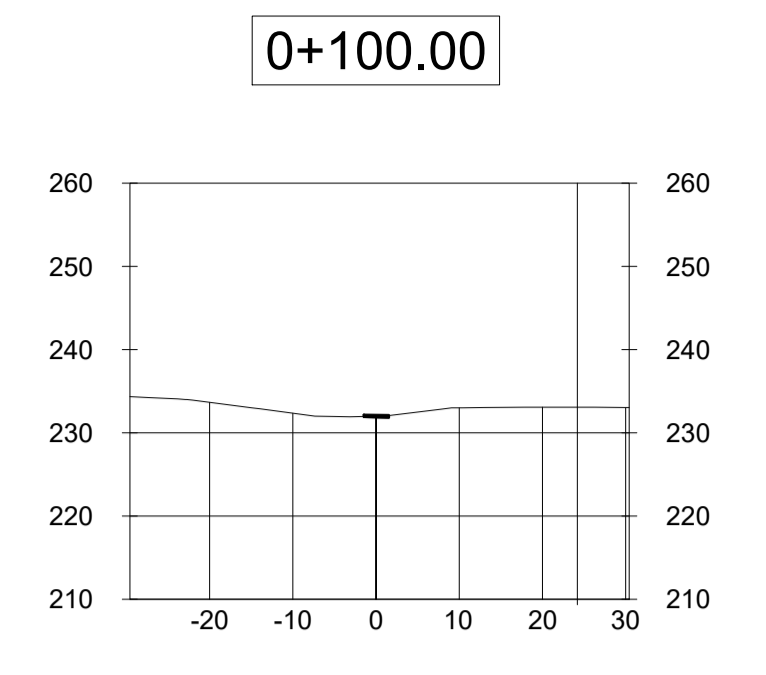
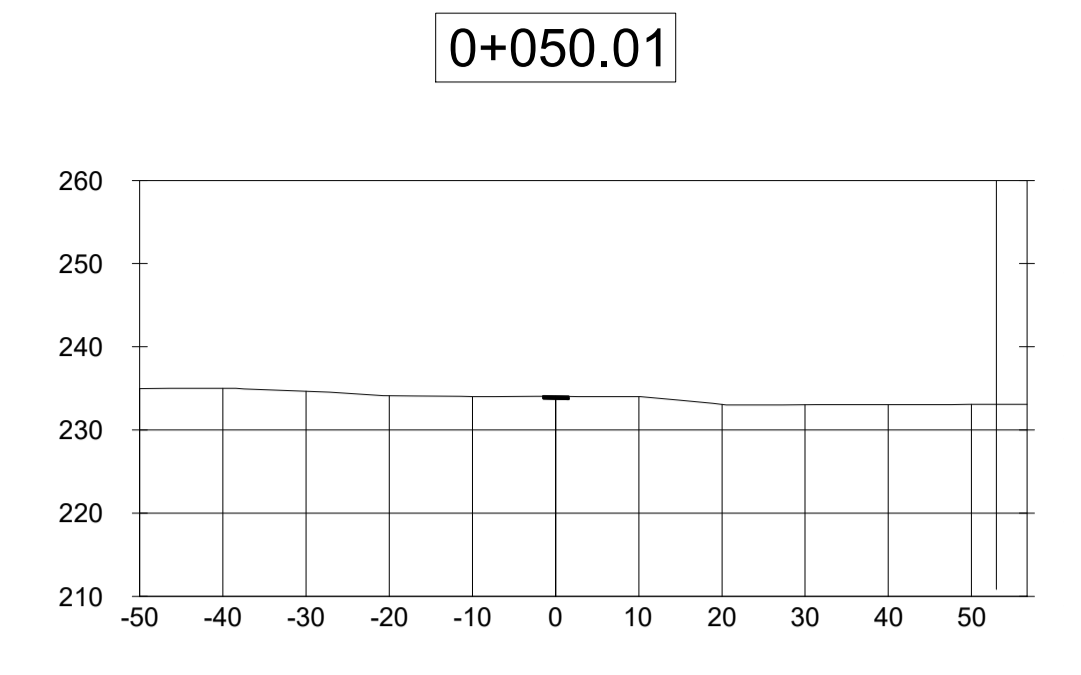
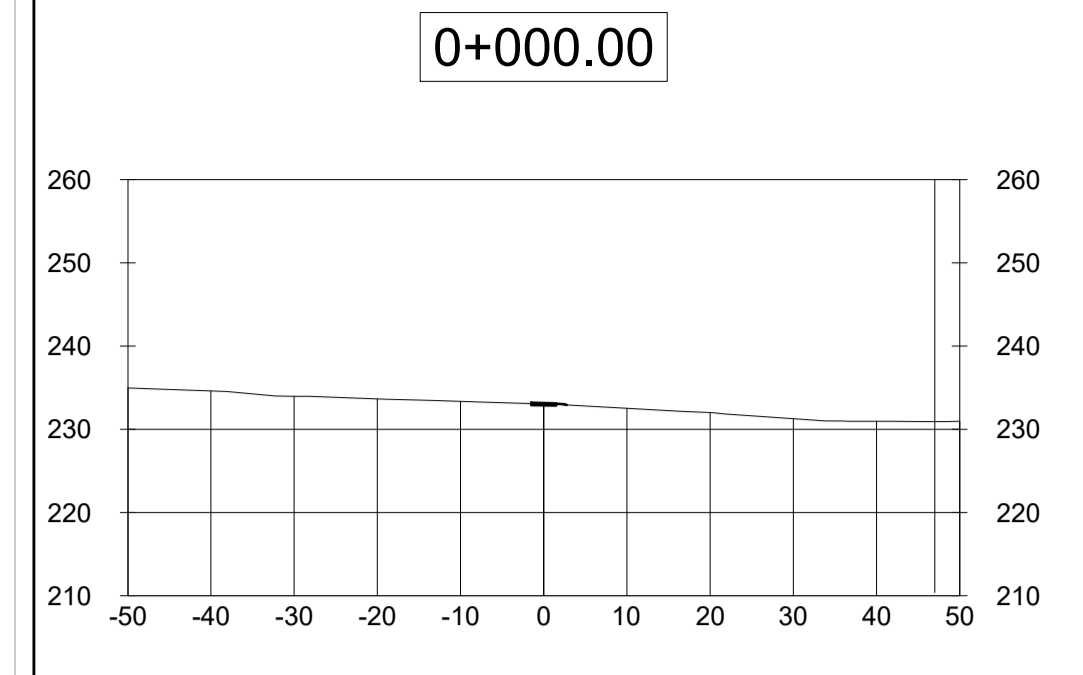
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PROJECT NUMBER DWG. NUMBER  
211-07301-00 L-300

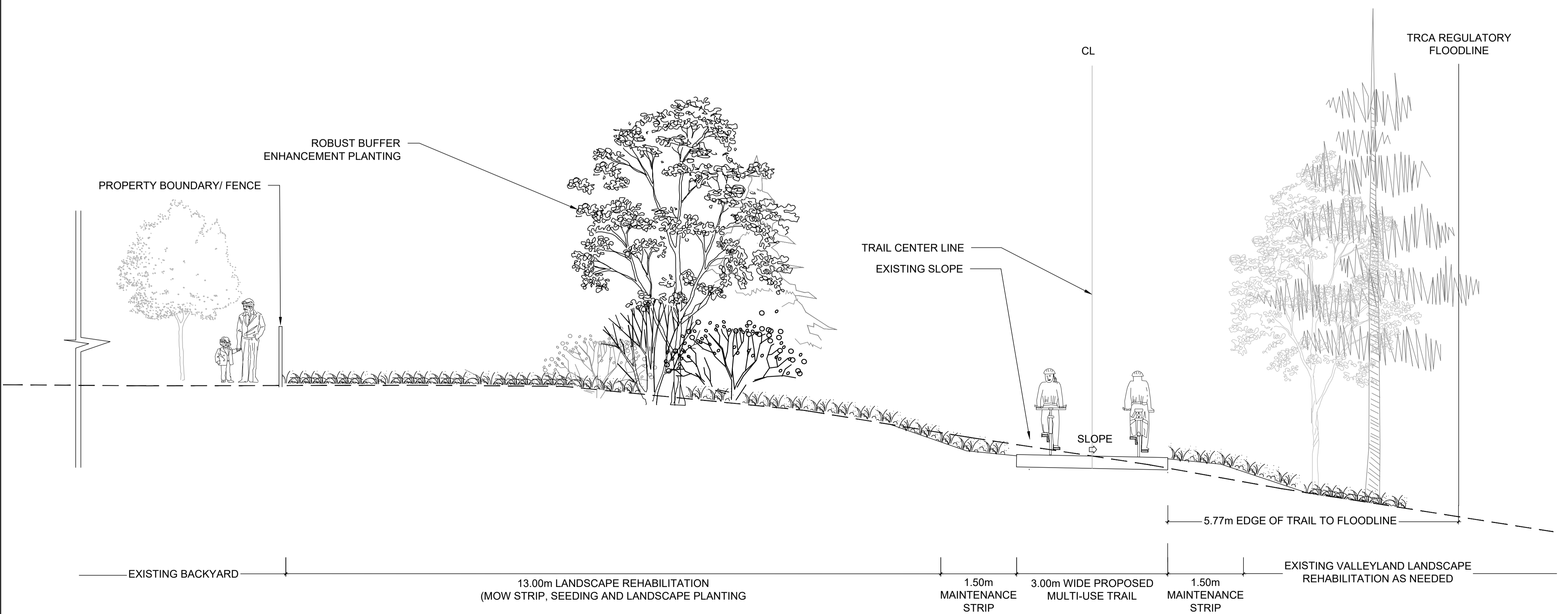


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**1**  
L-301 ADDITIONAL CROSS SECTIONS

Scale: NTS



**2**  
L-301 SECTION 0+201.48 WETLAND

Scale: NTS

**KEY MAP**

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**BENCHMARK INFORMATION**  
 ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
 BENCHMARK No. XXXXXXXXXX,  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF # XXX-XXX-XX-XXX  
 BY: DATE:

NO	DATE	REVISION/ISSUED	BY	APPD

WSP Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

**CLIENT:**  
 CITY OF VAUGHAN  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

**PROJECT TITLE:**  
 BARTLEY SMITH GREENWAY TRAIL  
 TRAIL ALIGNMENT  
 SP #

**SITE ADDRESS:**  
 MCNAUGHTON TO RUTHERFORD RD.

**DRAWING TITLE:**  
 TRAIL SECTIONS

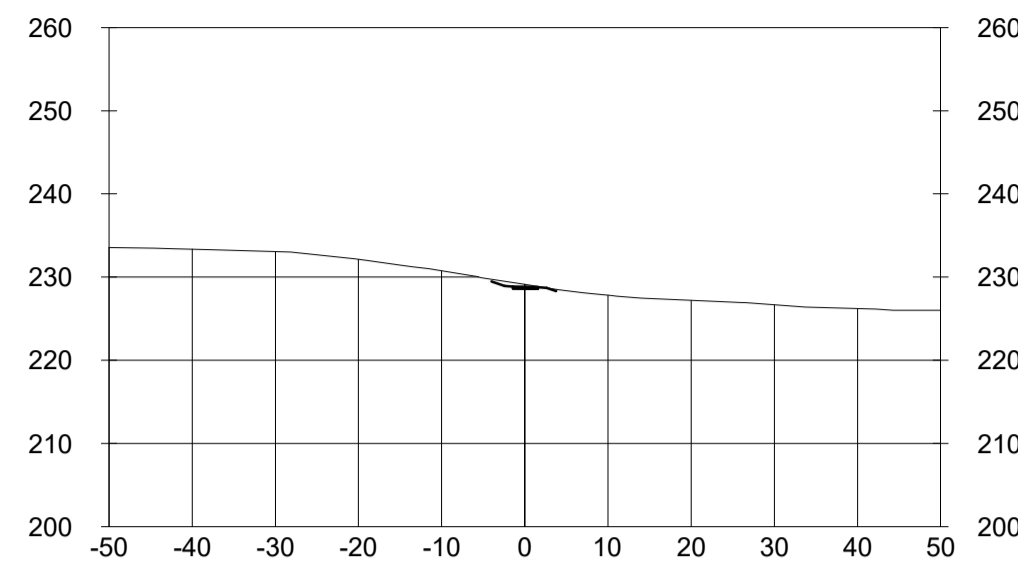
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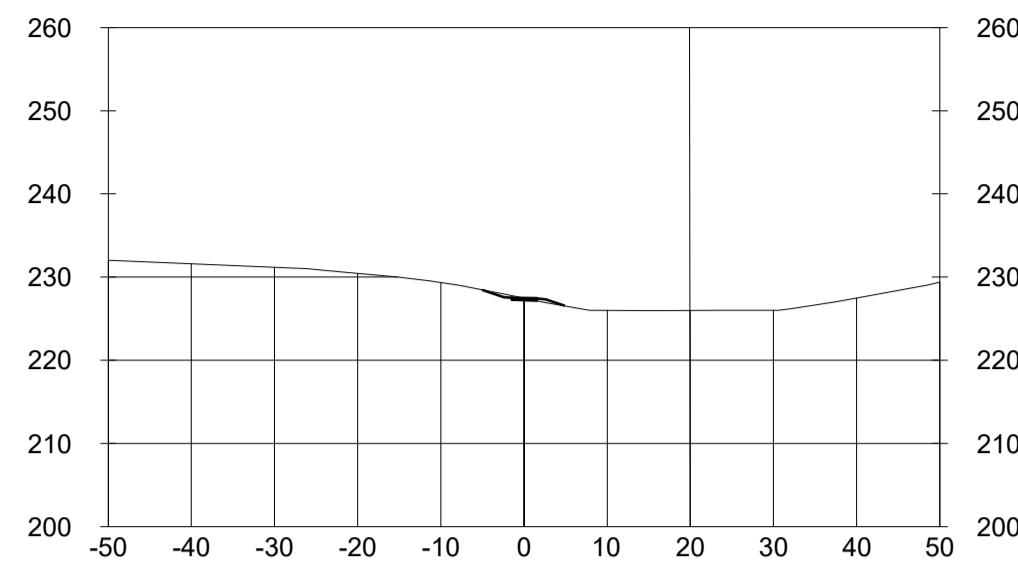
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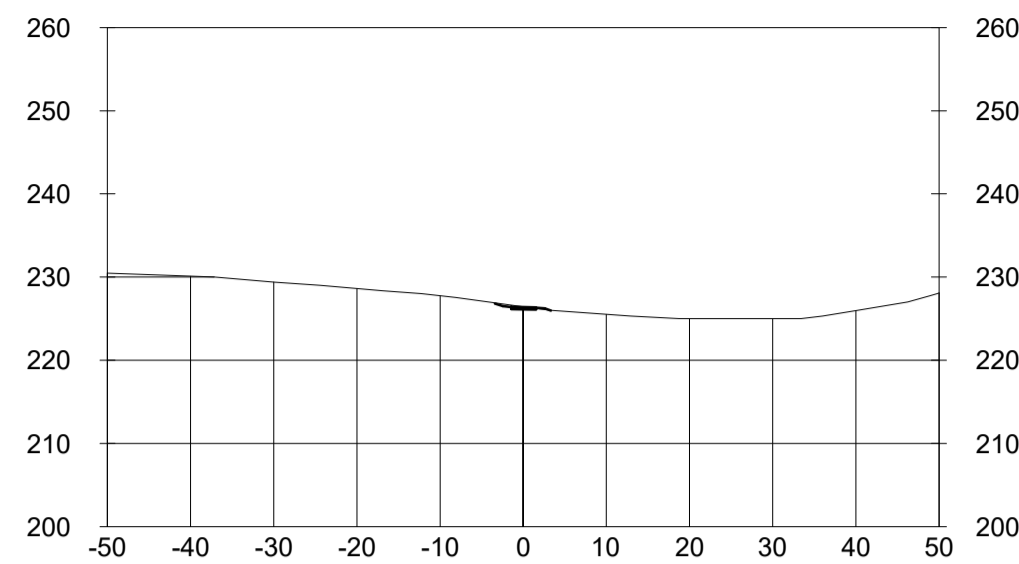
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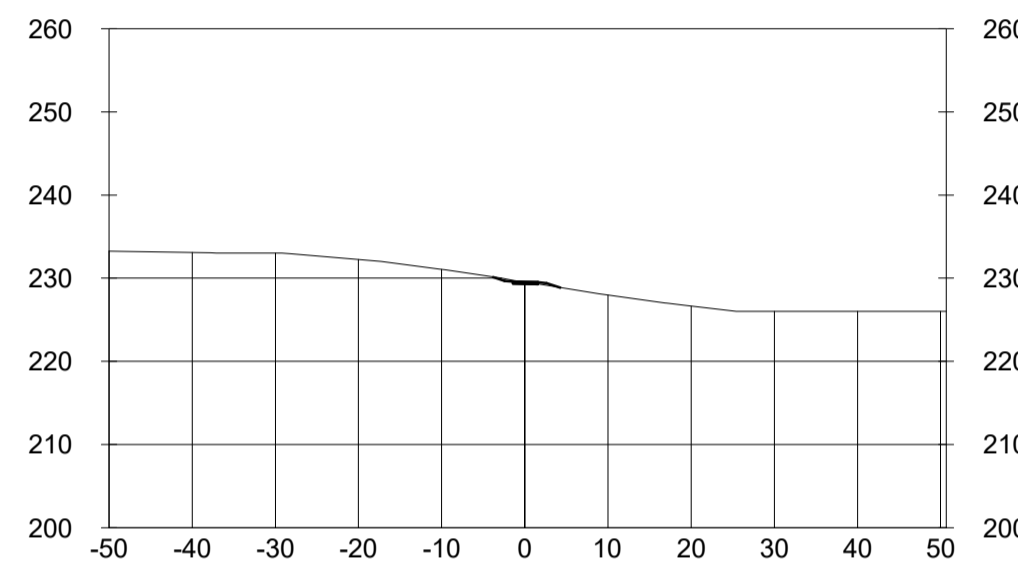
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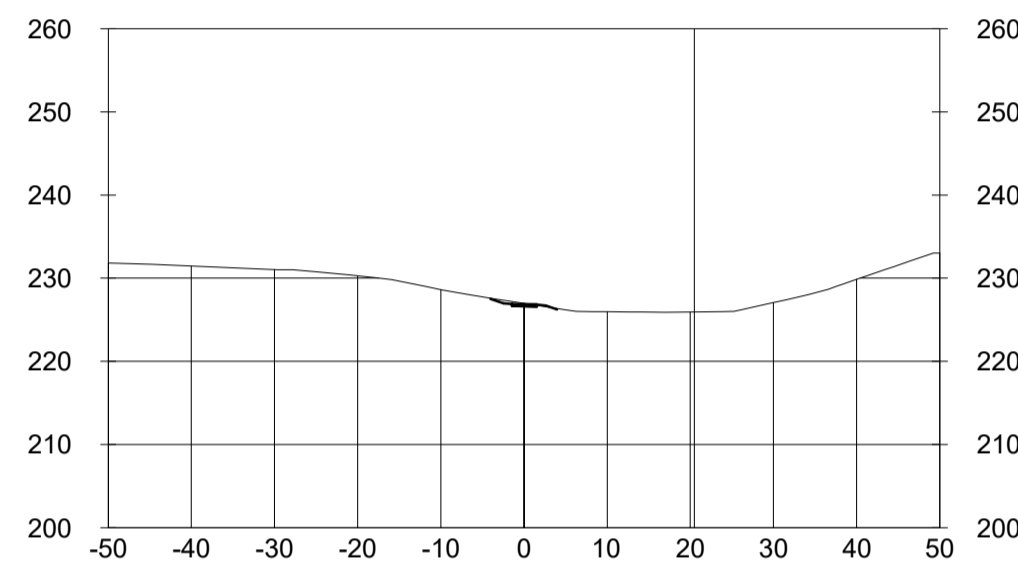
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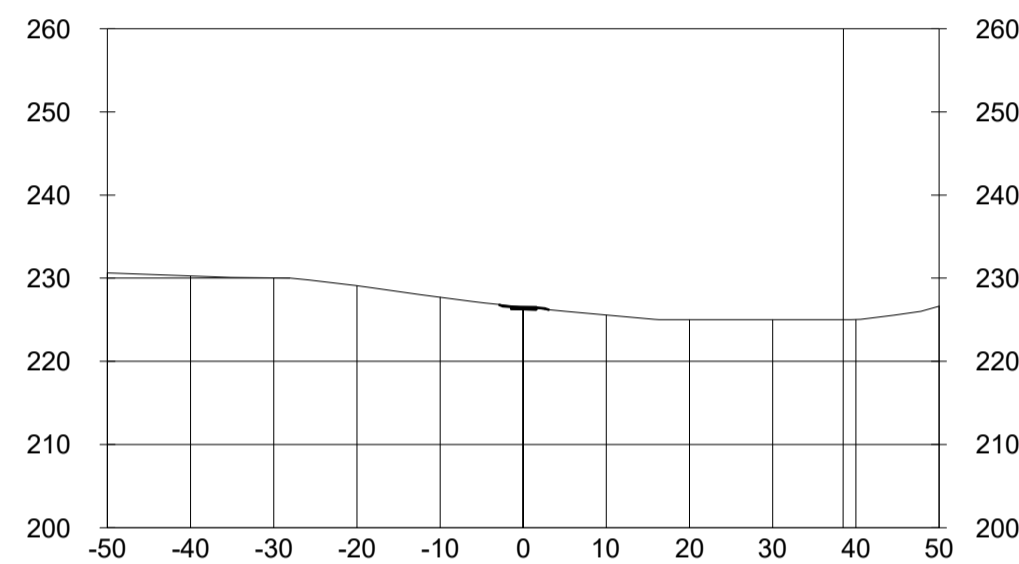
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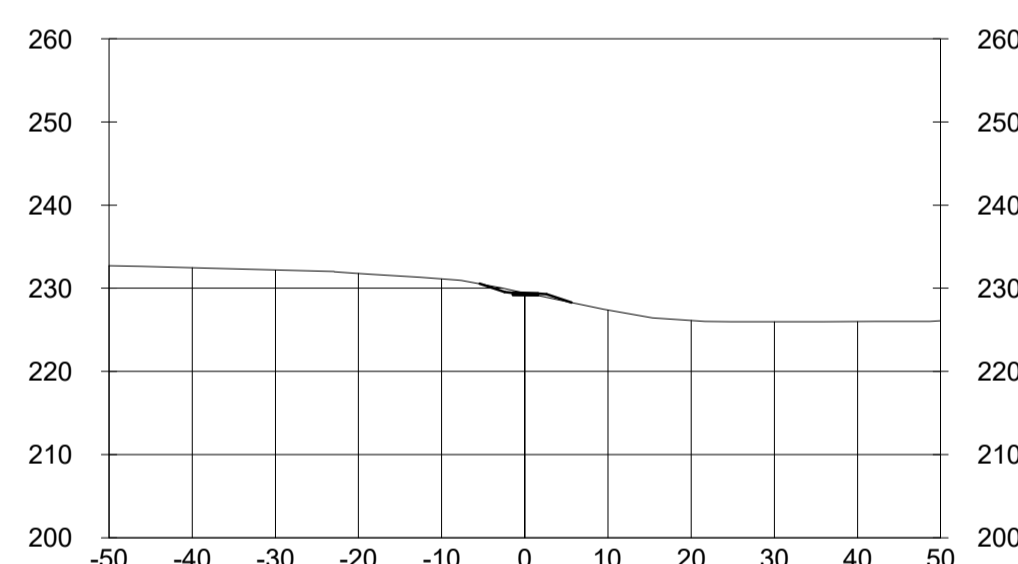
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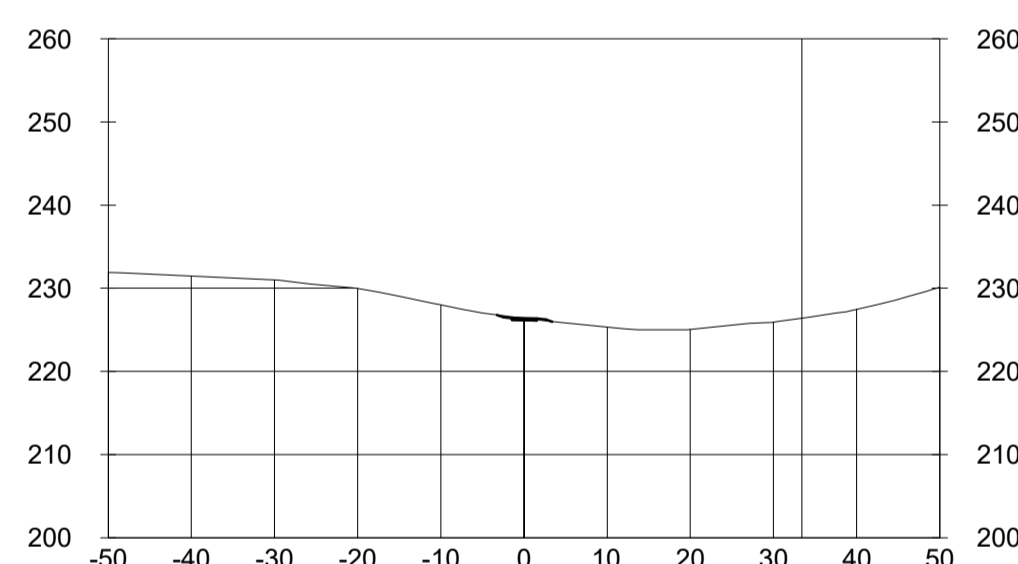
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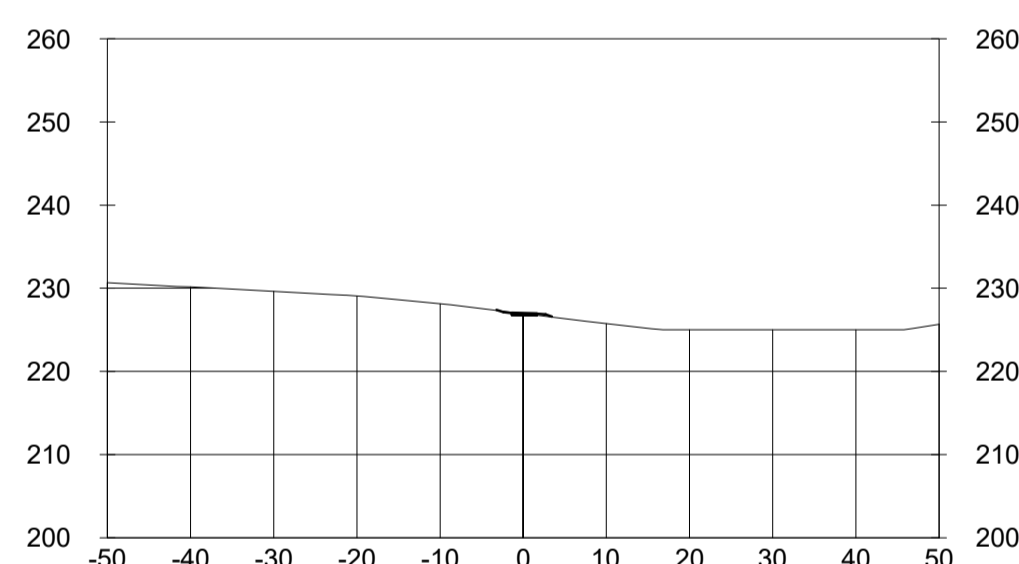
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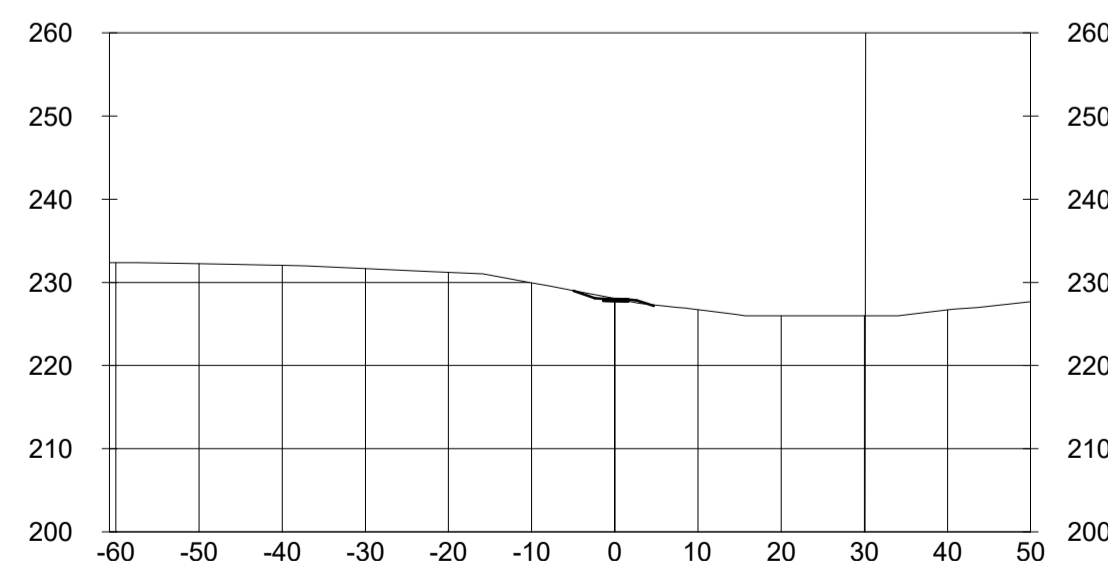
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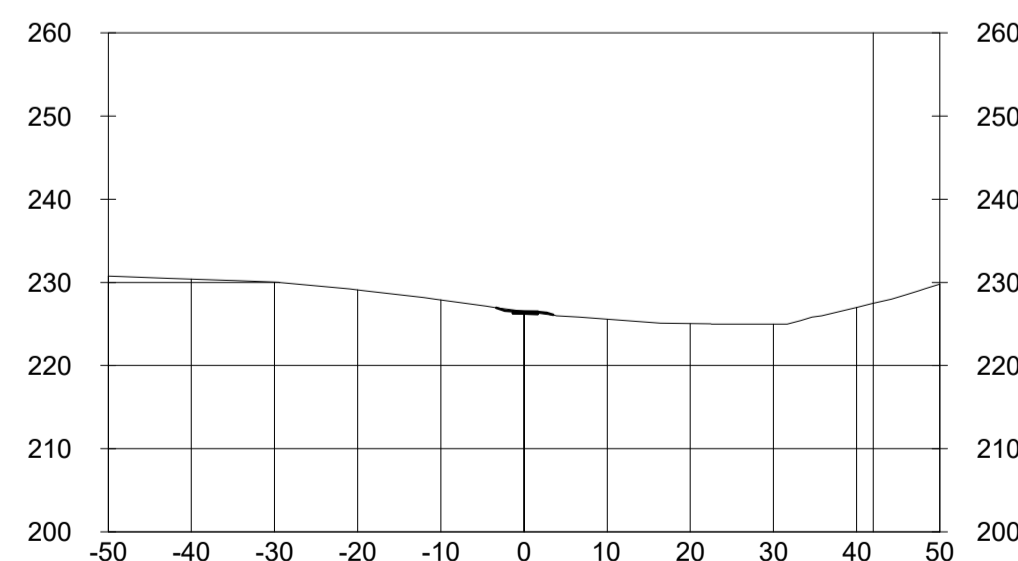
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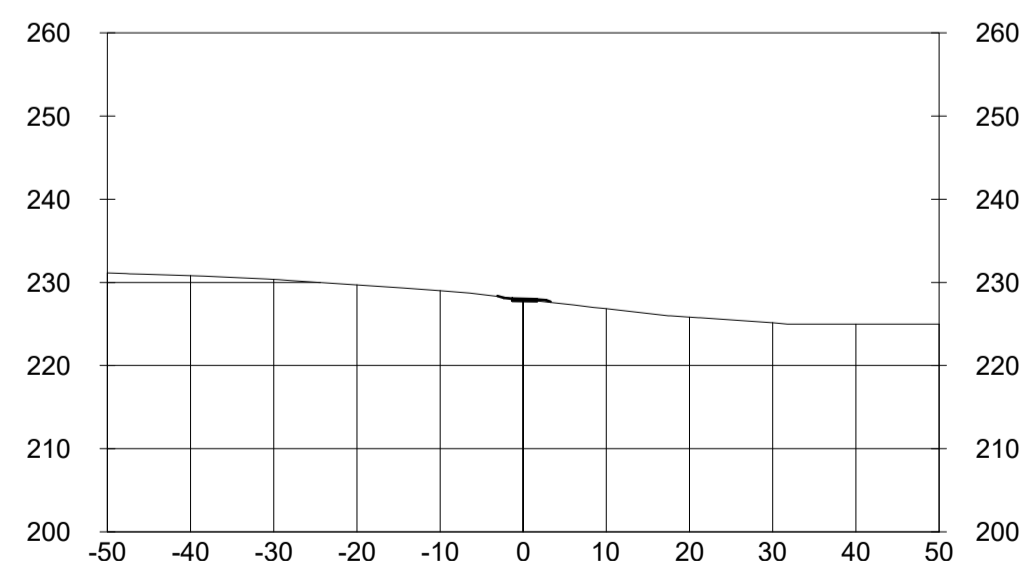
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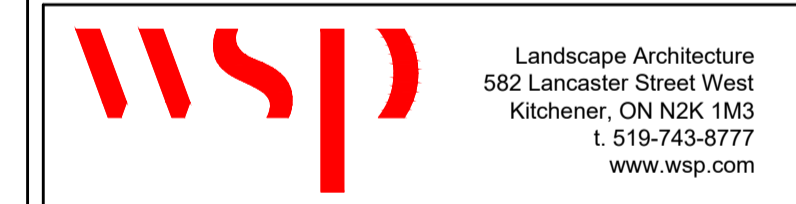
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KEY MAP

BENCHMARK INFORMATION
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BENCHMARK No. XXXXXXXXXX,
ELEVATION = XXX.XX
SURVEY - DRAWING REF #. XXX-XXX-XX-XXX
BY: DATE:

Table with 5 columns: NO, DATE, REVISION/ISSUED, BY, APPD. The table is currently empty.



CLIENT: CITY OF VAUGHAN
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE: BARTLEY SMITH GREENWAY TRAIL
TRAIL ALIGNMENT
SP #

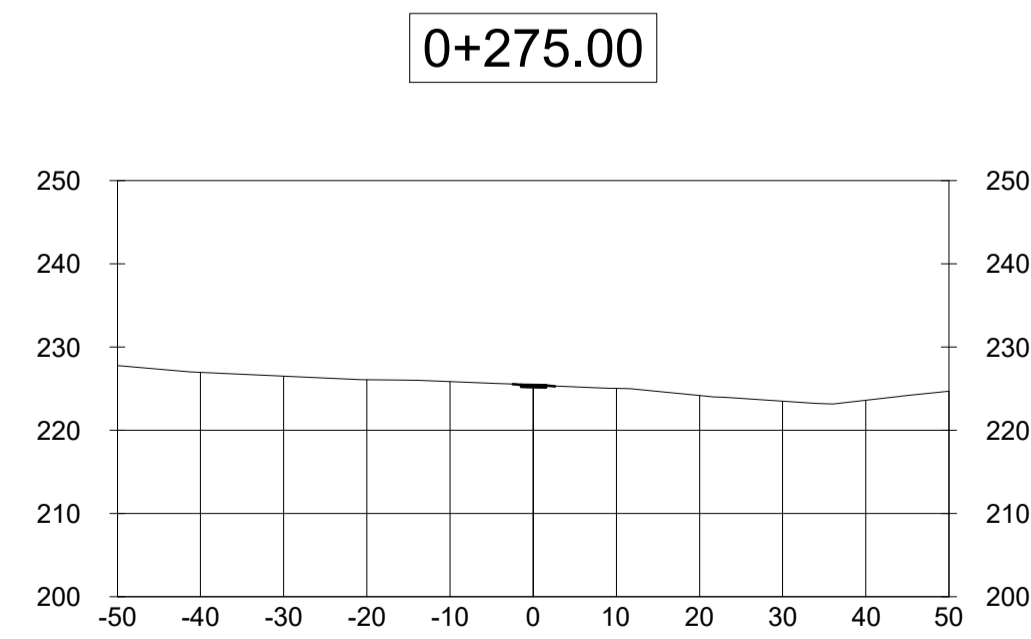
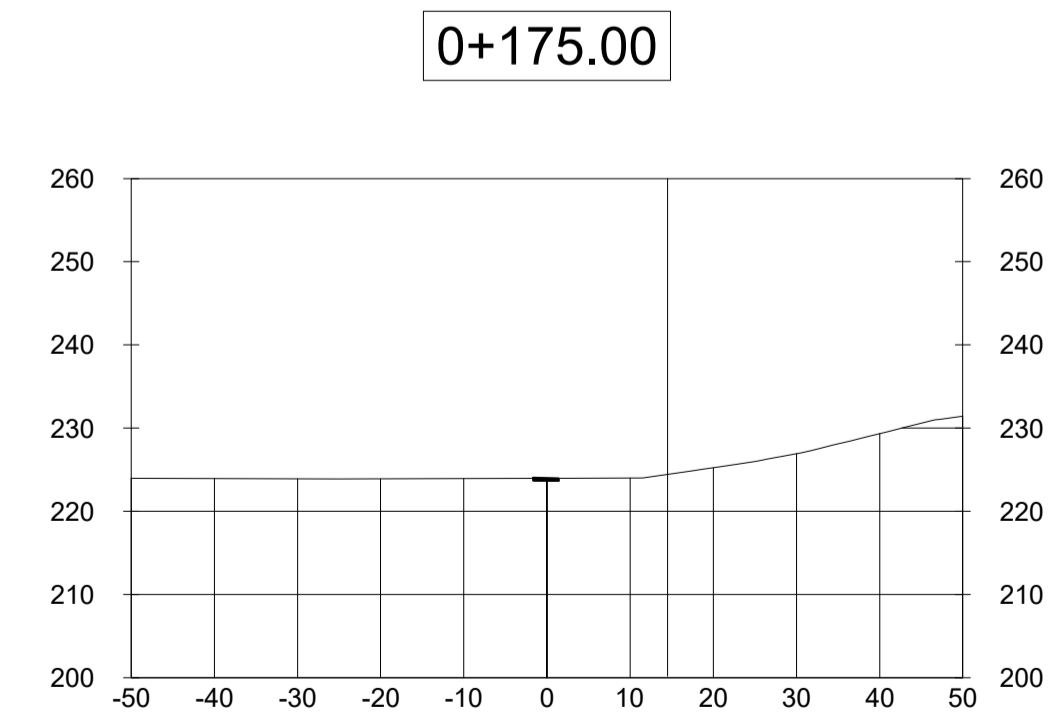
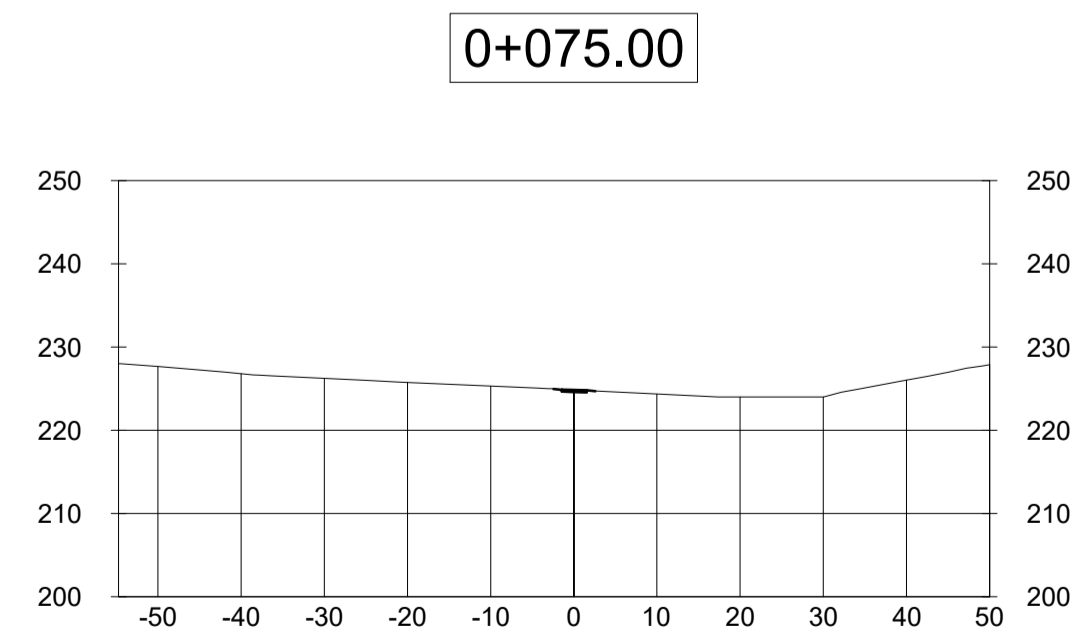
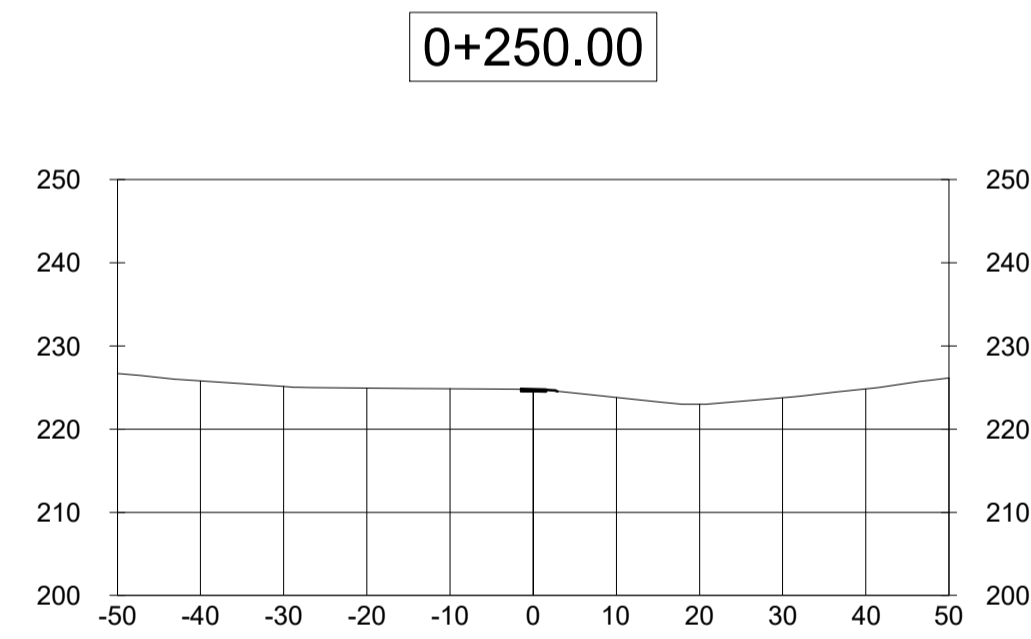
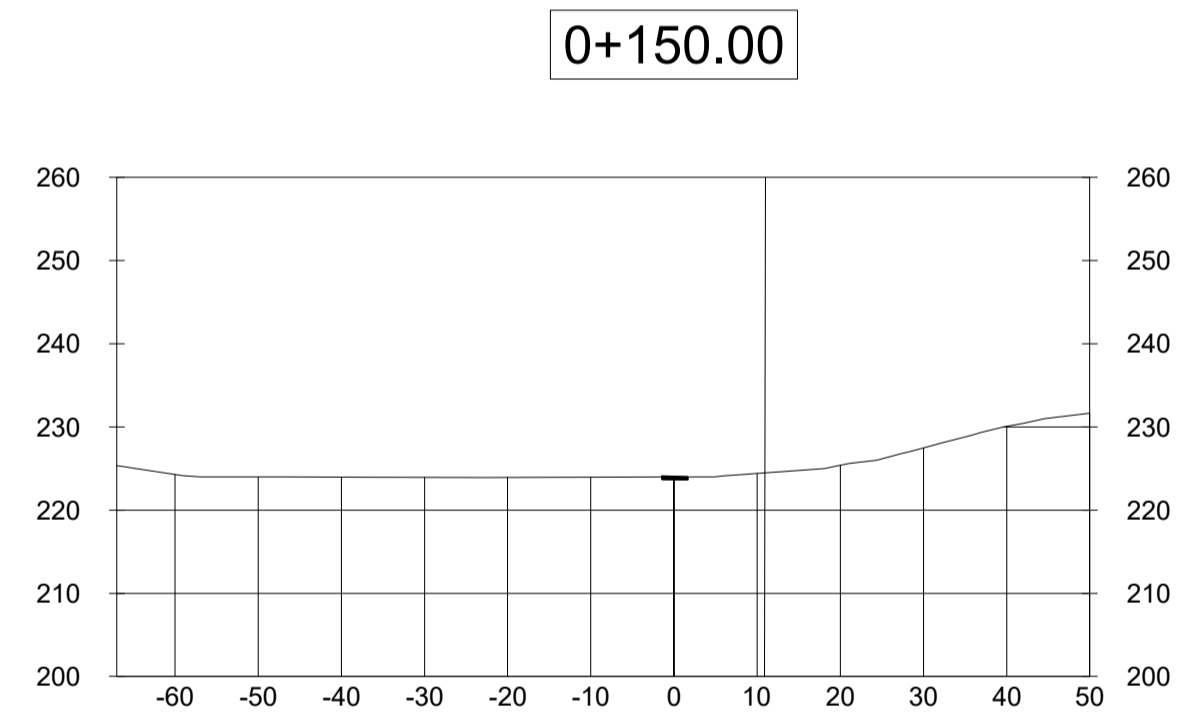
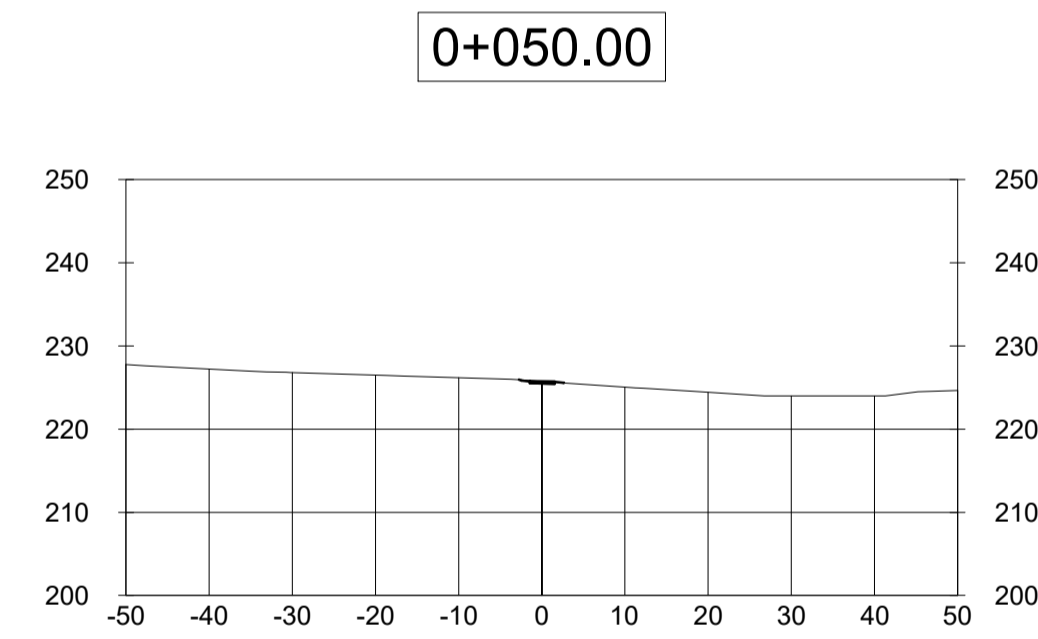
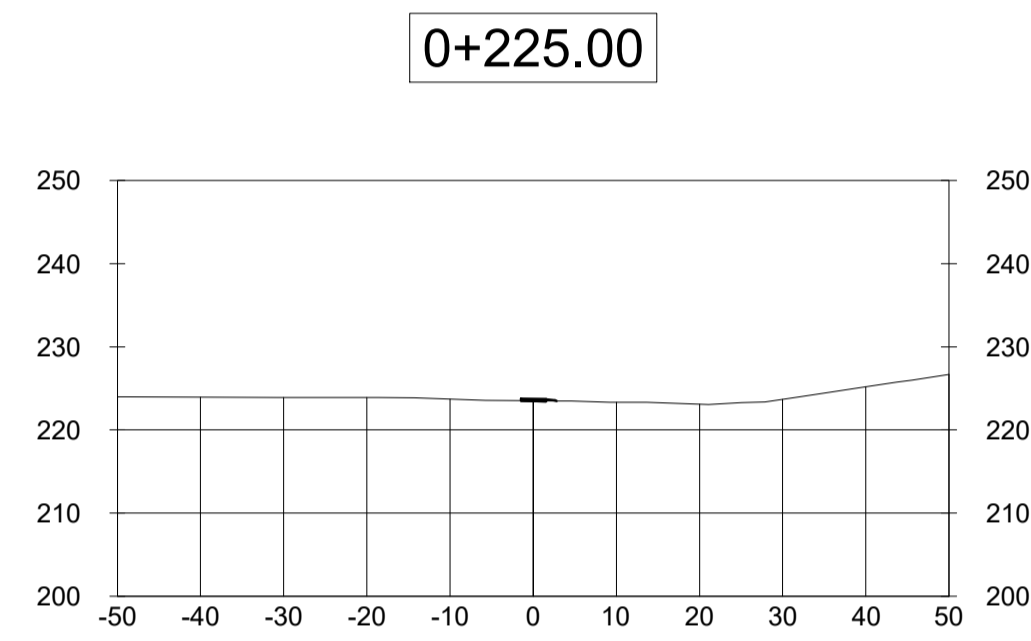
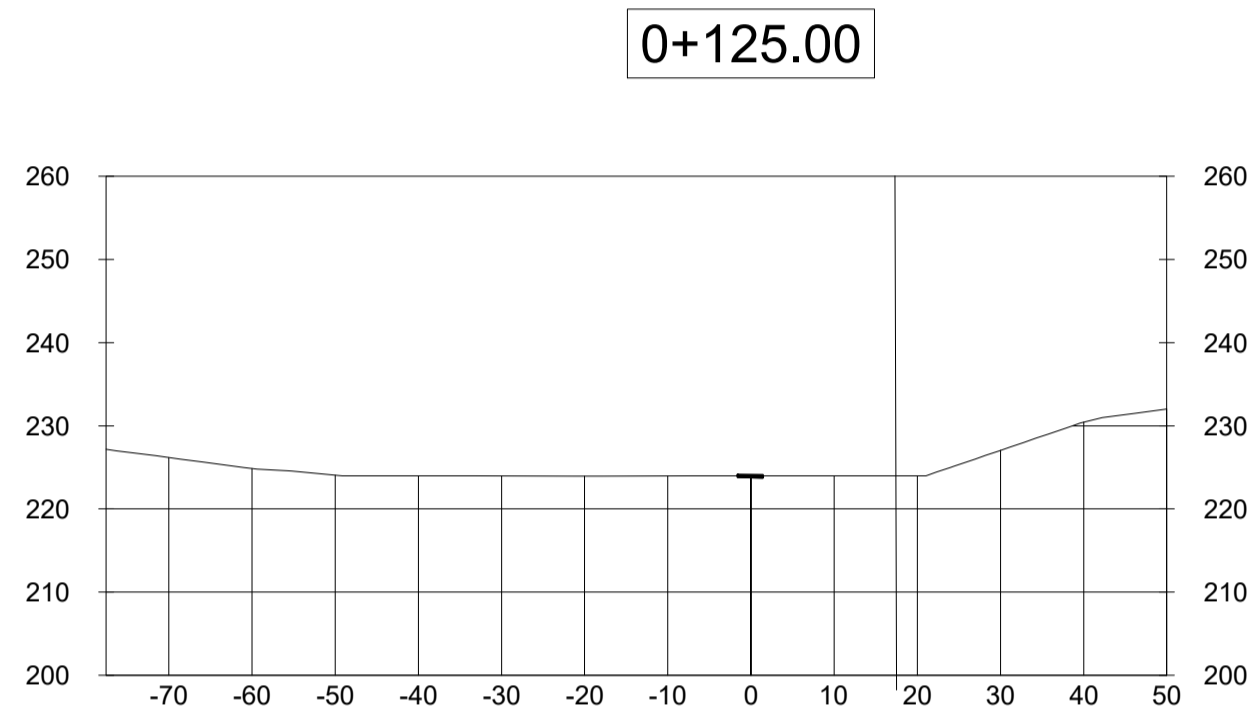
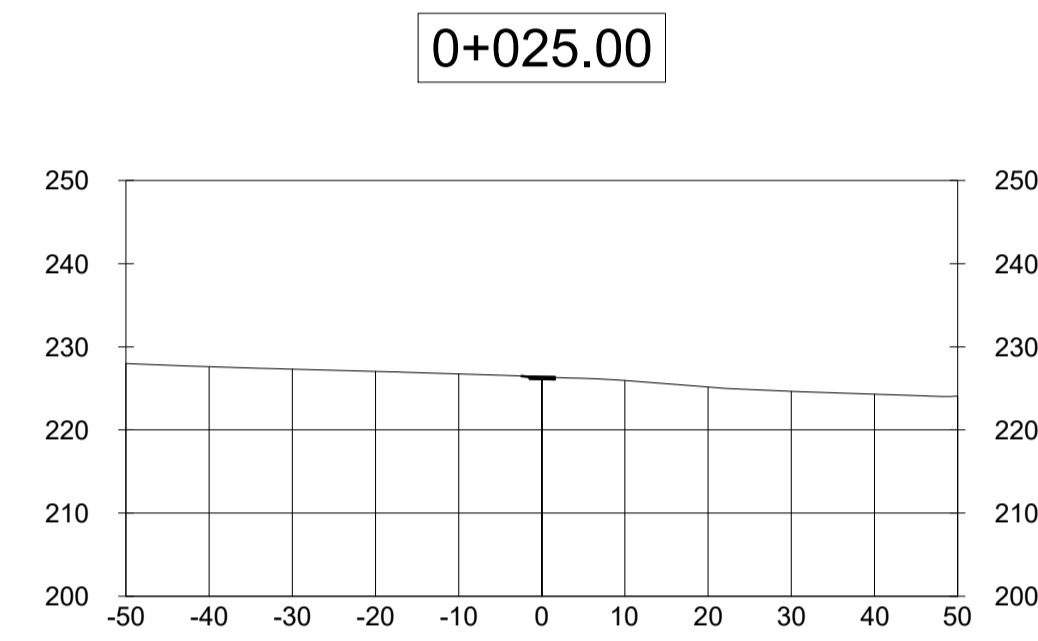
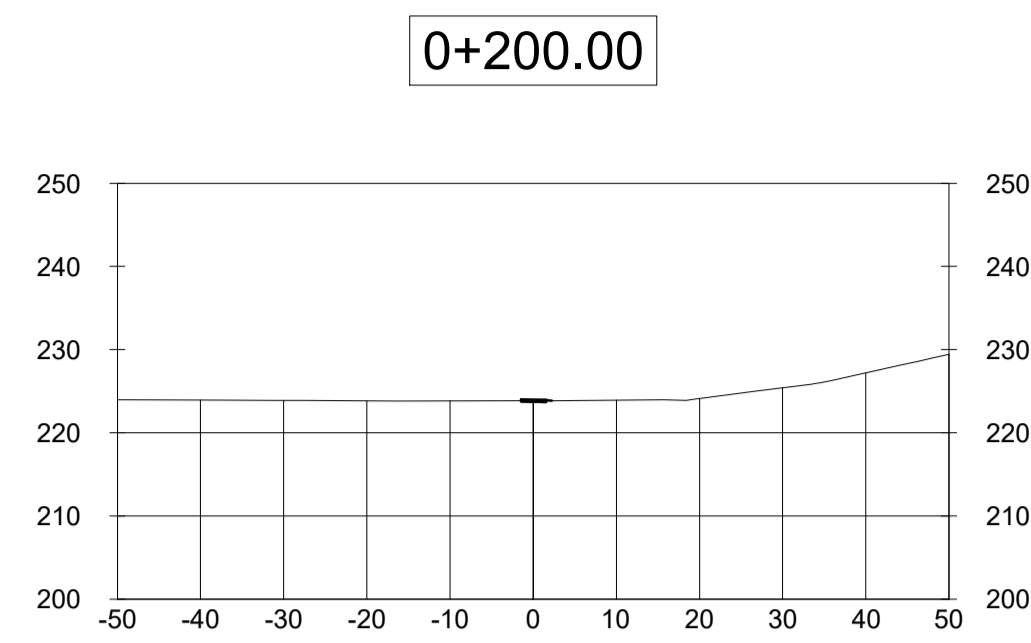
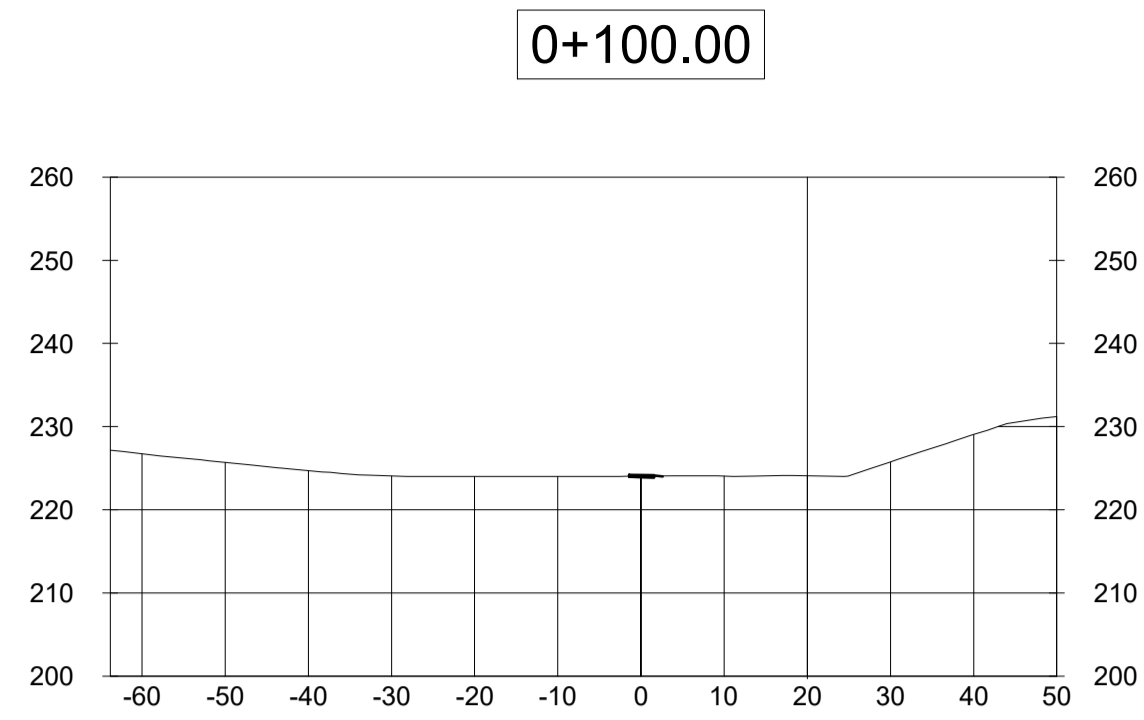
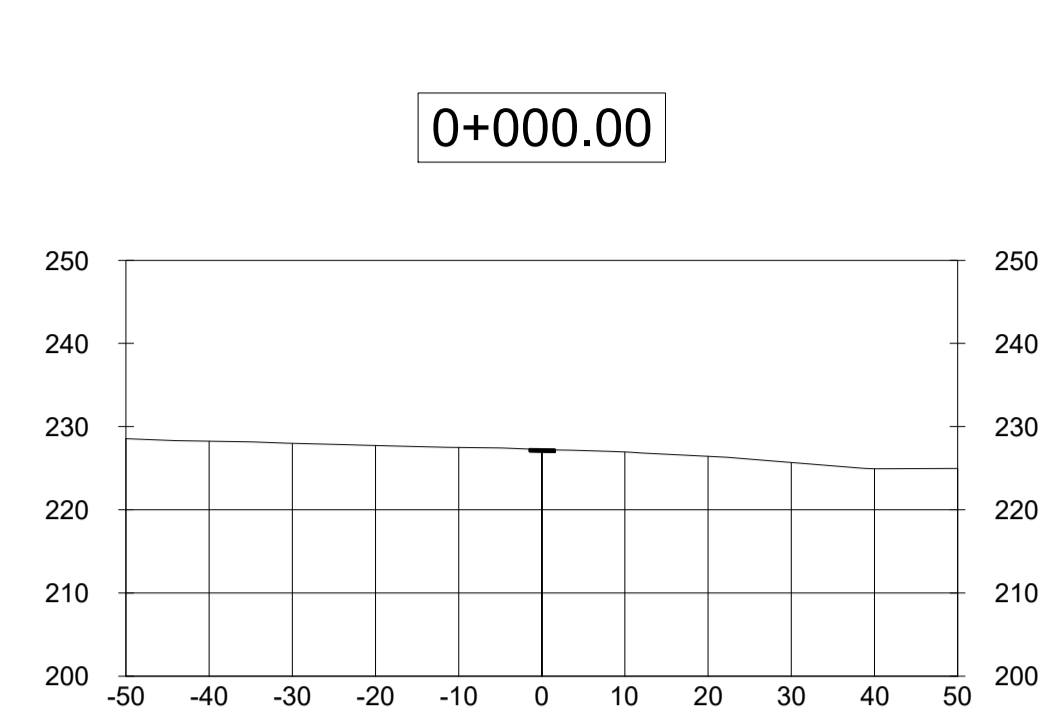
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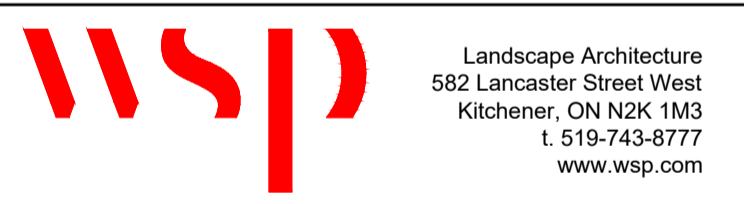
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**BENCHMARK INFORMATION**  
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 BENCHMARK No. XXXXXXXXXX,  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO	DATE	REVISION/ISSUED	BY	APPD



**CLIENT:**  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

**PROJECT TITLE:**  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

**SITE ADDRESS:**  
 MCNAUGHTON TO RUTHERFORD RD.

**DRAWING TITLE:**  
**TRAIL SECTIONS**

STAMP

STAMP

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SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER		DWG. NUMBER			
211-07301-00		L-303			

**1**  
**L-303**  
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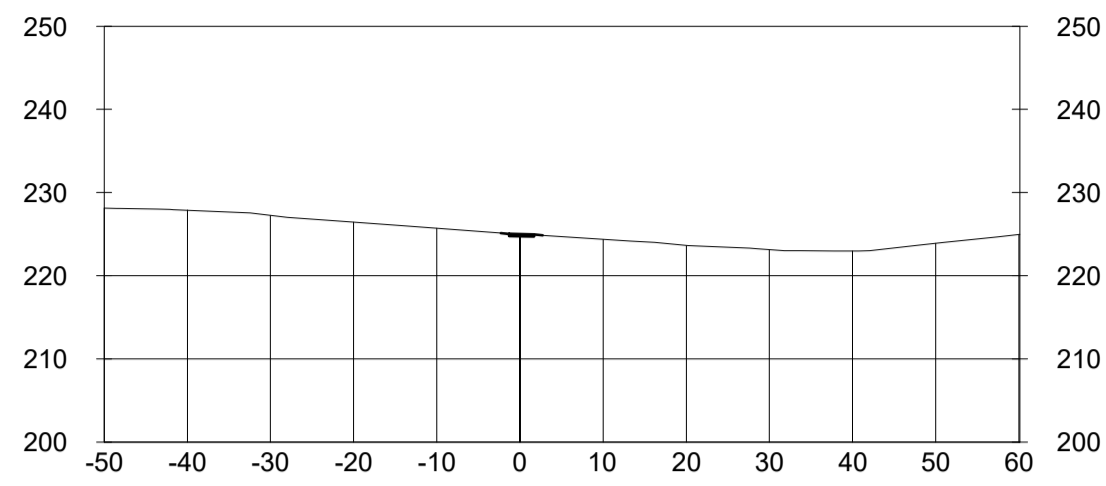
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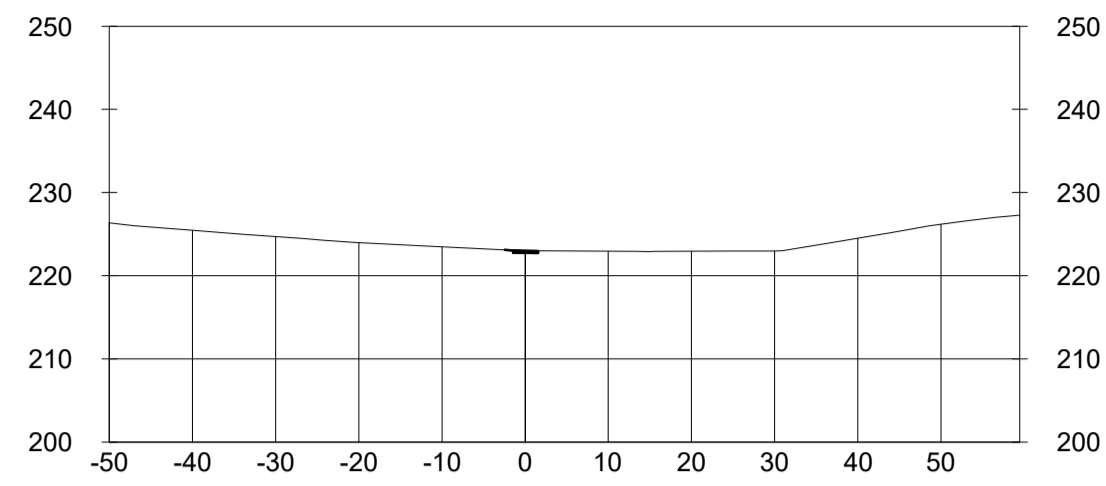


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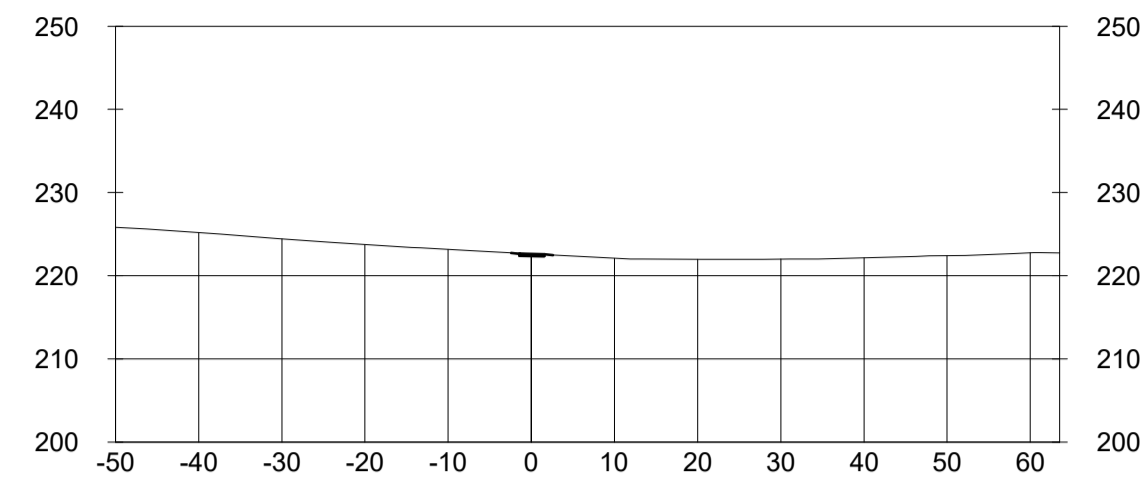
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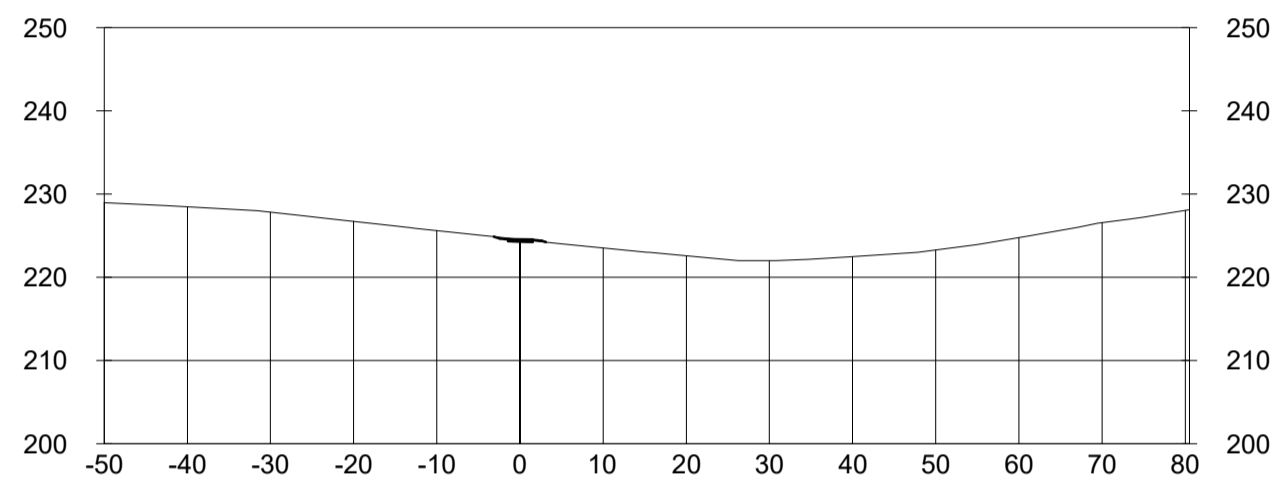
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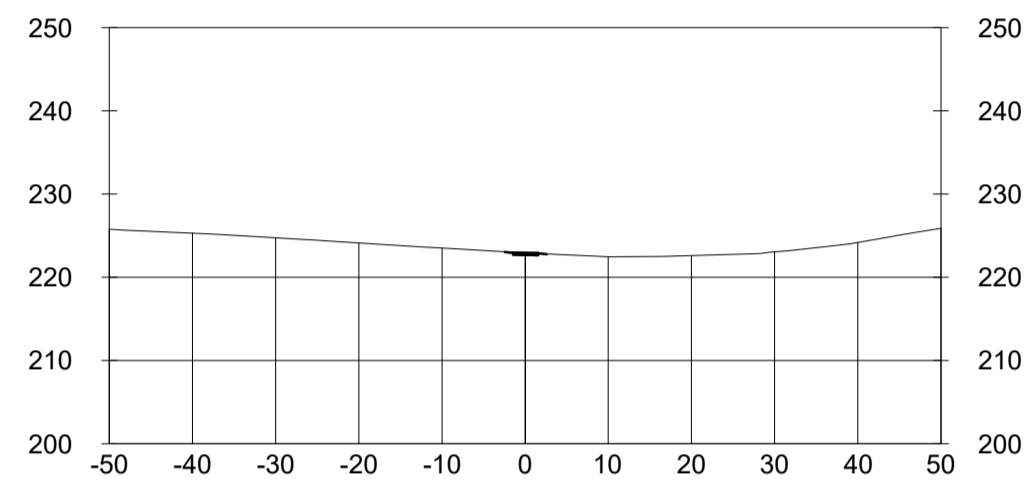
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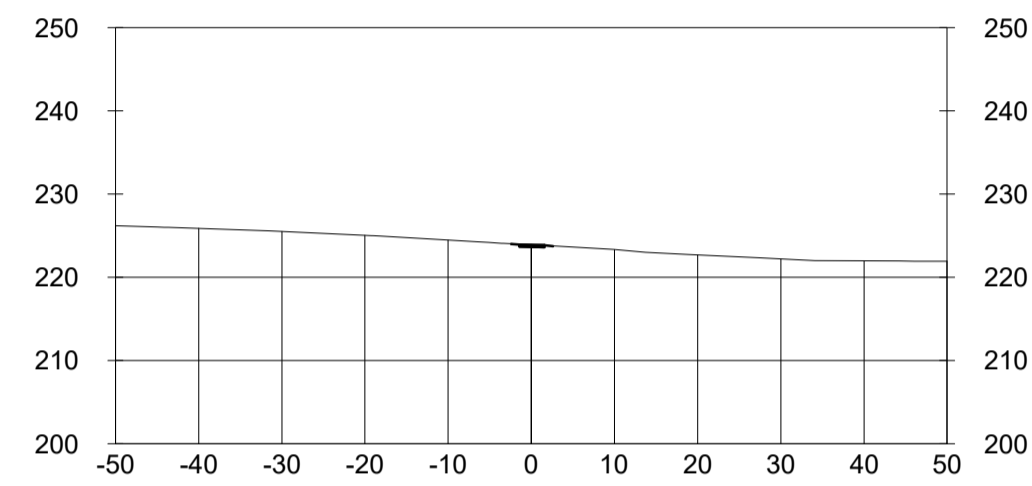
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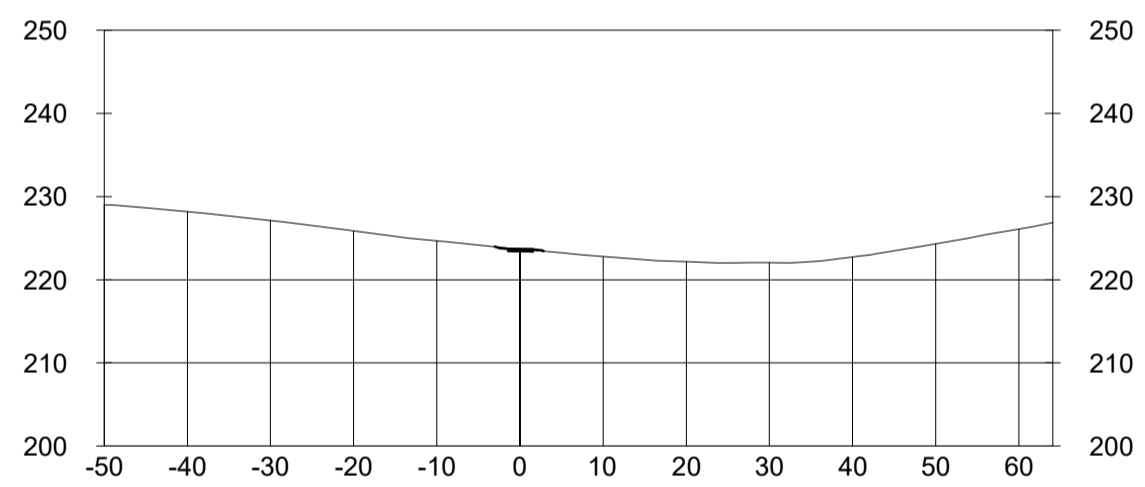
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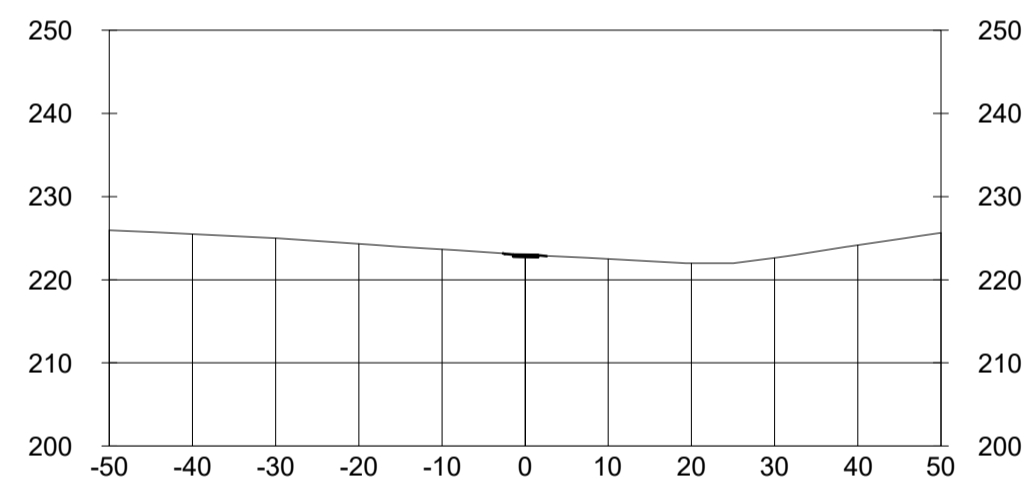
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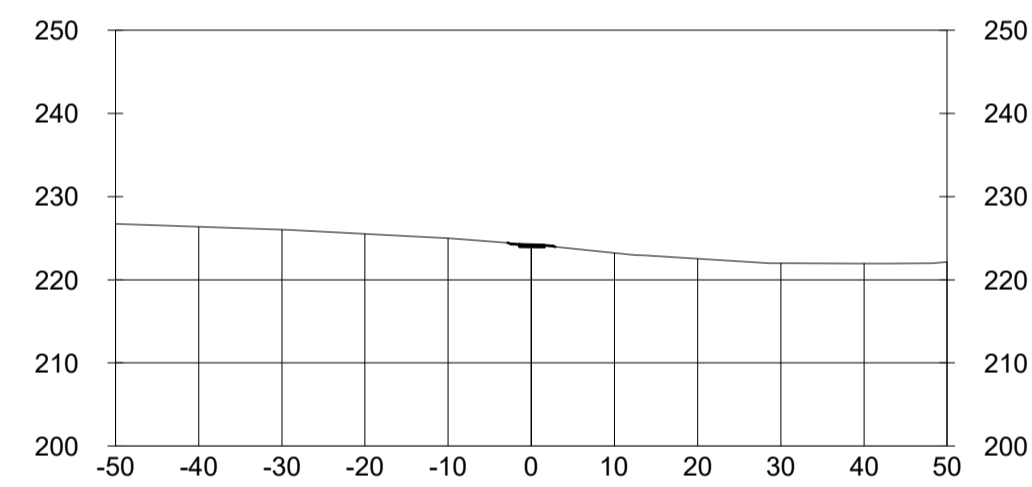
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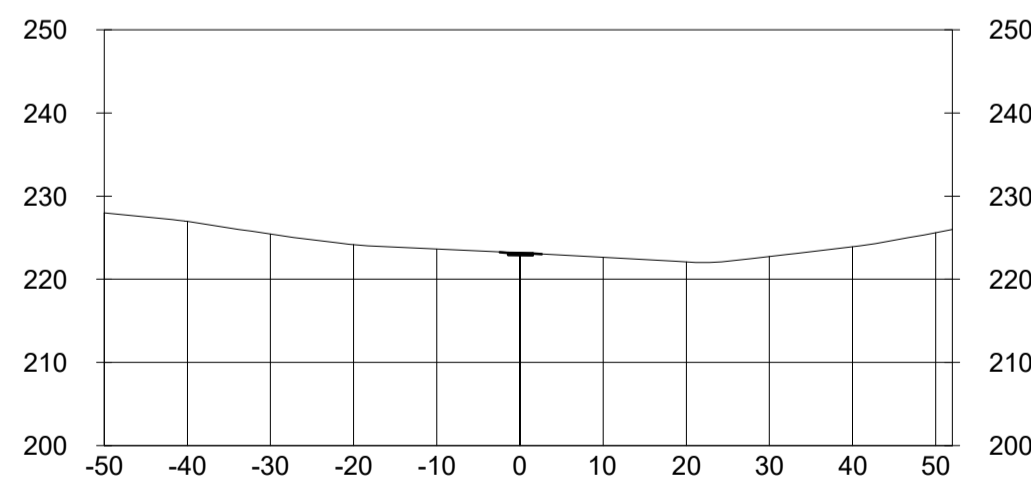
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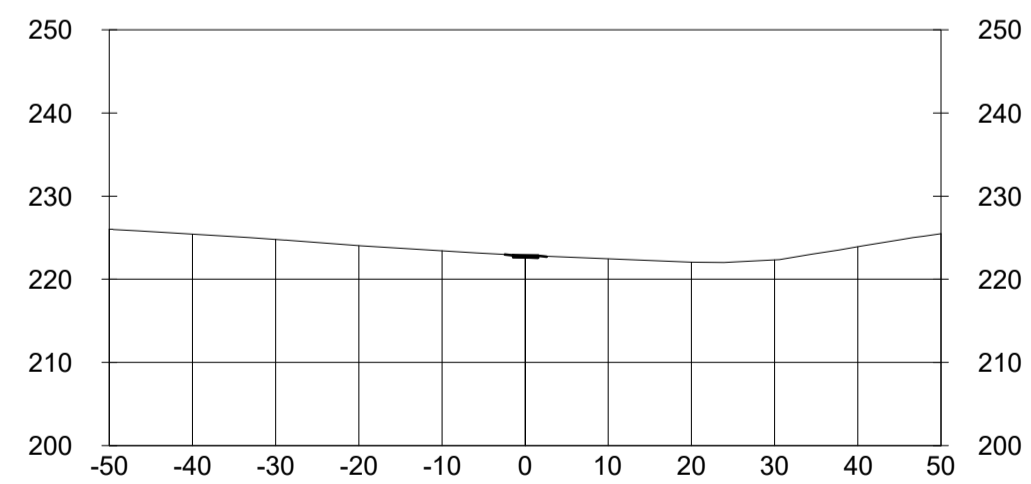
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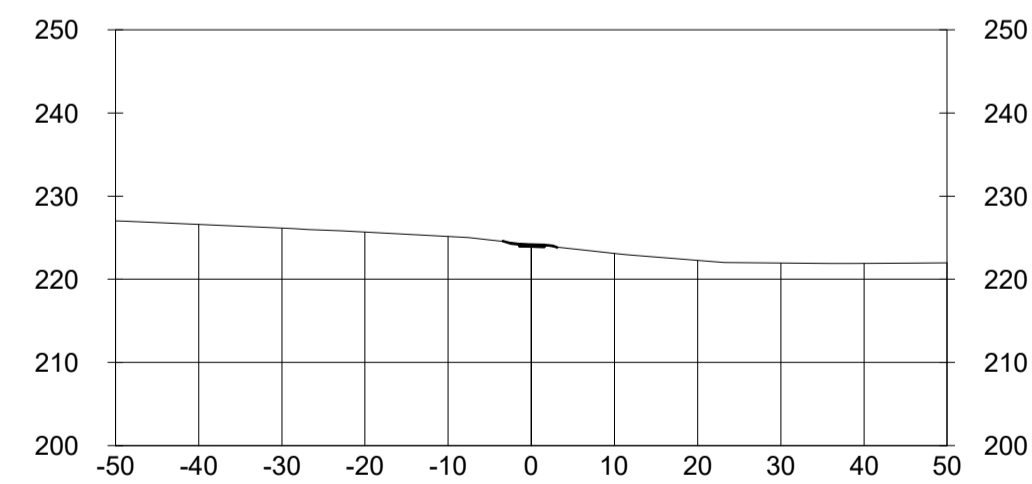
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0+475.00



0+574.90



1 ADDITIONAL CROSS SECTIONS  
 L-304

Scale: NTS

**BENCHMARK INFORMATION**  
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 BENCHMARK No. XXXXXXXXXX,  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF # XXX-XXX-XX-XXX  
 BY: DATE:

NO	DATE	REVISION/ISSUED	BY	APPD

WSP Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

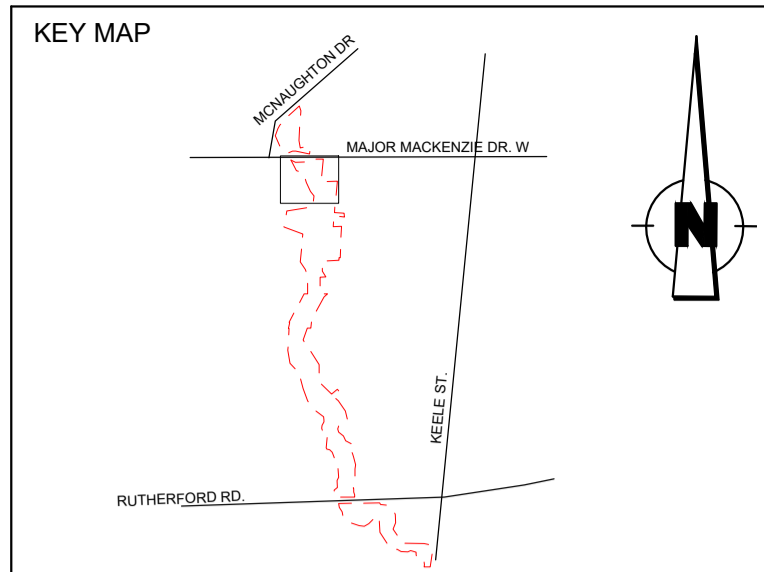
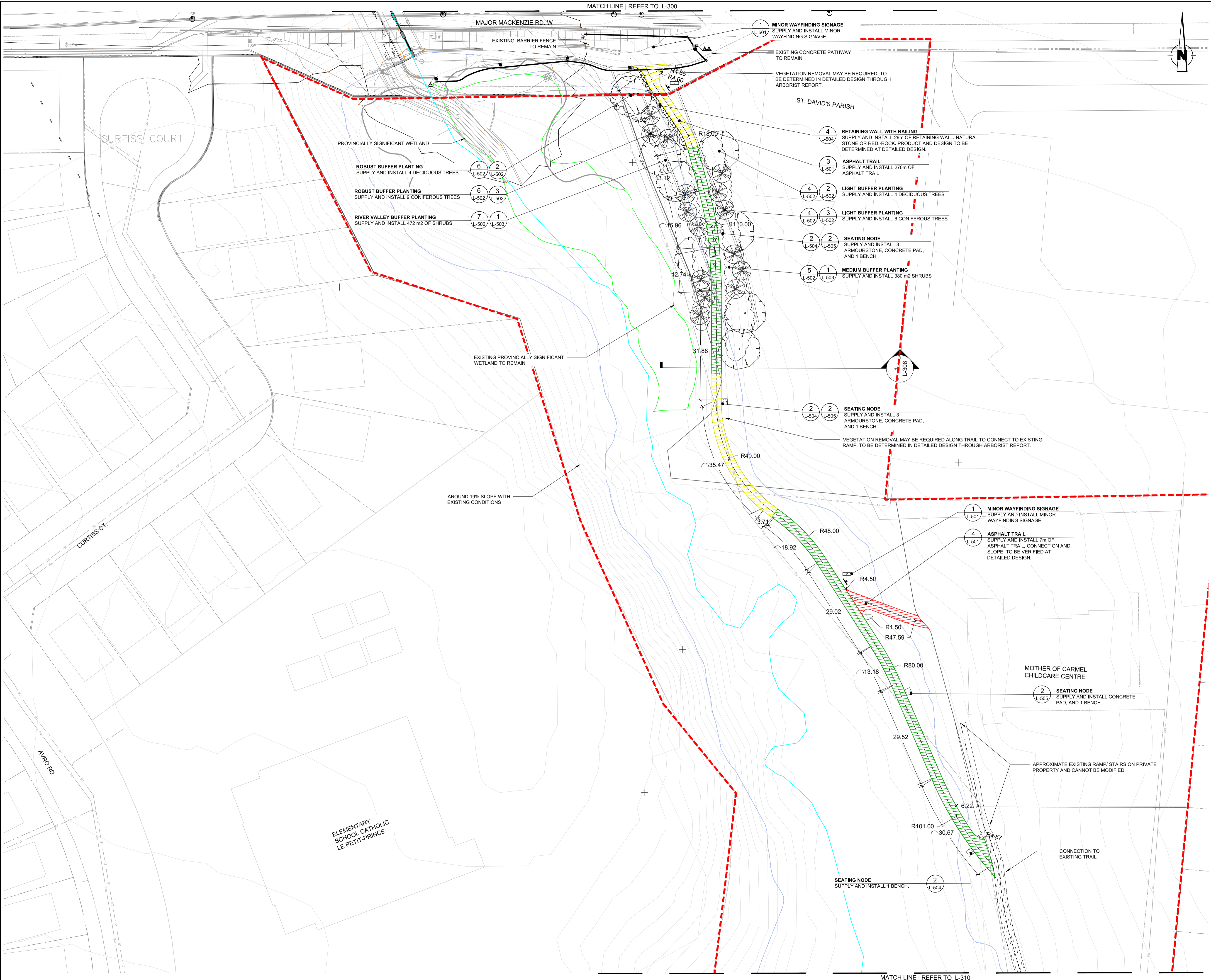
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 MCNAUGHTON TO RUTHERFORD RD.

DRAWING TITLE:  
**TRAIL SECTIONS**

STAMP

STAMP

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER		DWG. NUMBER			
211-07301-00		L-304			

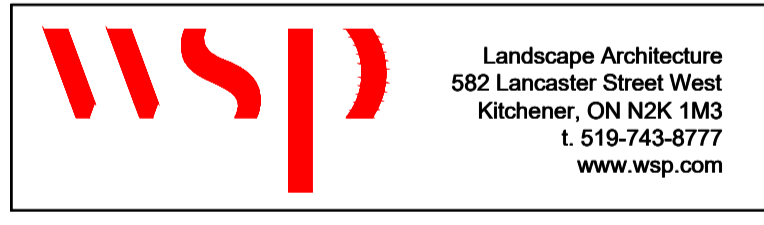


- LEGEND KEY**
- [Red dashed line] SITE BOUNDARY
  - [Thin solid line] EXISTING TRAIL - FACILITY (TO REMAIN)
  - [Thick solid line] EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
  - [Blue line] DON RIVER WEST BRANCH
  - [Blue line] TRCA 100 YEAR FLOODLINE
  - [Green hatched area] PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
  - [Yellow hatched area] PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
  - [Red hatched area] PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
  - [Black hatched area] PROPOSED TRAIL 3m MULCH
  - [Dashed line] EXISTING STORM SERVICE LINE
  - [Dotted line] EXISTING SANITARY
  - [Dashed line] EXISTING WATERMAIN

**NOTE:**  
 UNDERGROUND UTILITIES AND PLANTING LAYOUT TO BE DETERMINED BASED OFF THE TOTAL COMPENSATION DENOTED BY THE ARBORIST REPORT. THE LOCATION OF PLANTINGS CAN BE ADJUSTED IN THE DETAILED DESIGN.  
 AS PER TRCA'S STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL 'ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.'

**BENCHMARK INFORMATION**  
 ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK No. XXXXXXXXXX.  
 ELEVATION = XXX.XX  
**SURVEY - DRAWING REF # XXX-XXX-XX-XXX**  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO.	DATE	REVISION/ISSUED	BY	APPD



**CLIENT:**  
 CITY OF VAUGHAN  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

**PROJECT TITLE:**  
 BARTLEY SMITH GREENWAY TRAIL  
 TRAIL ALIGNMENT  
 SP # \_\_\_\_\_

**SITE ADDRESS:**  
 MCNAUGHTON RD. & MAJOR MACKENZIE DR.

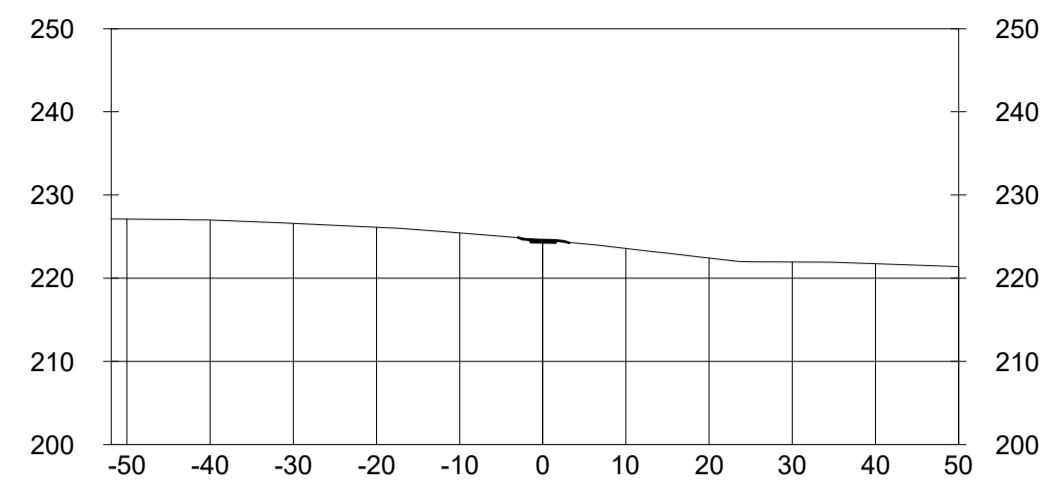
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 TRAIL LAYOUT PLAN

**STAMP**

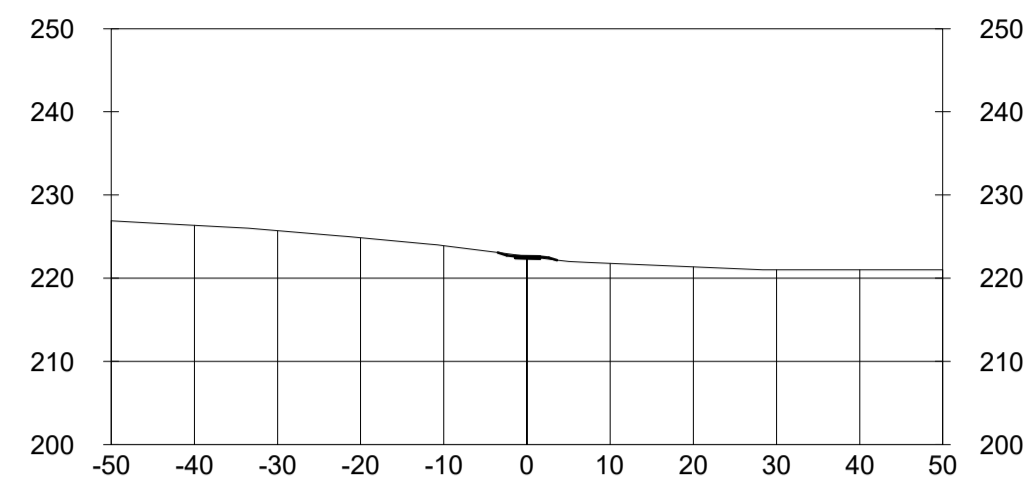
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**PROJECT NUMBER** 211-07301-00 **DWG. NUMBER** L-305

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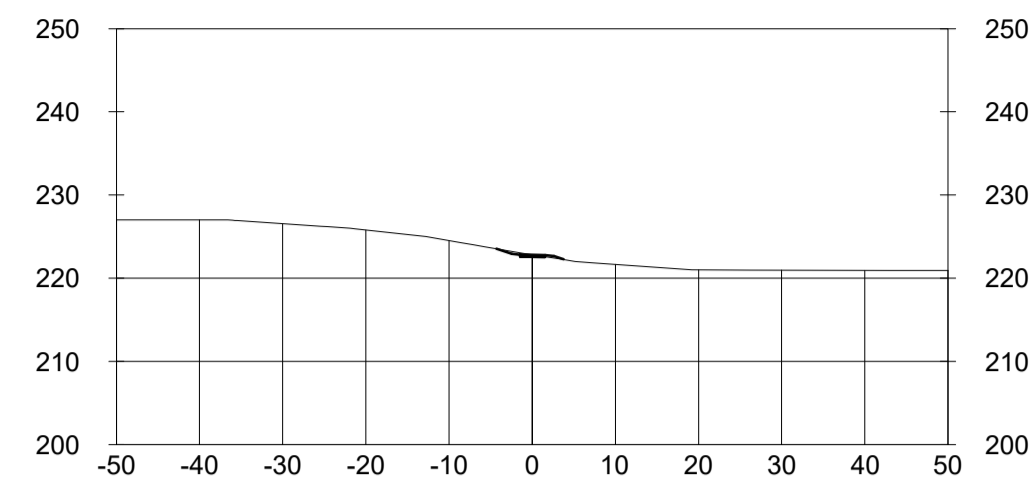
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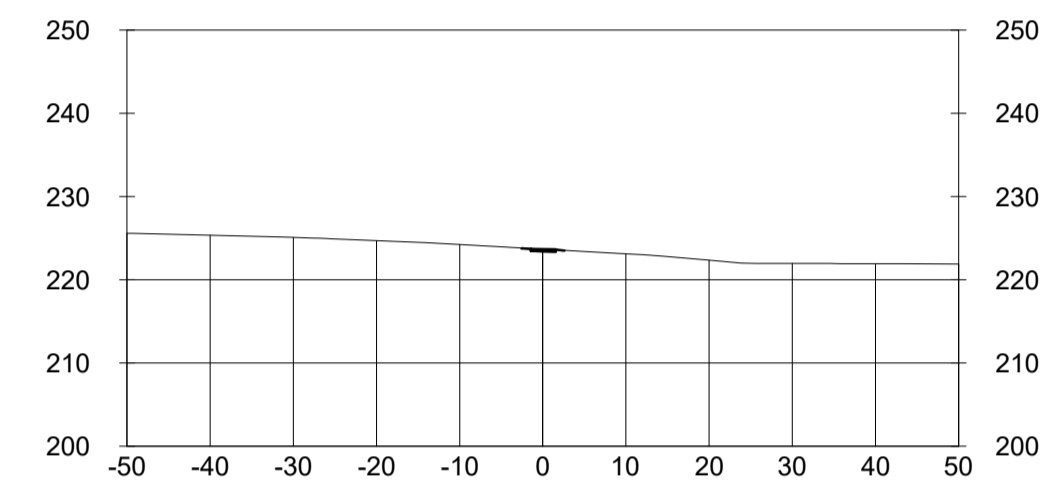
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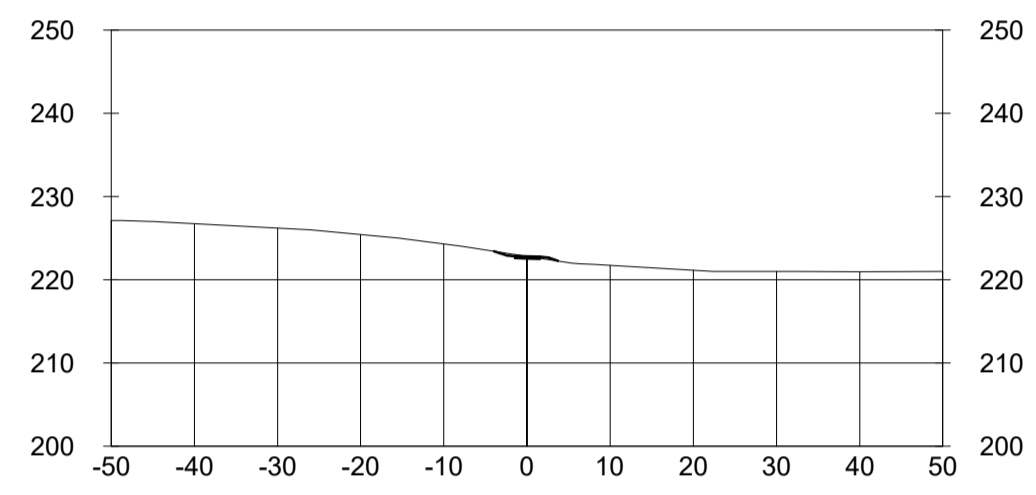
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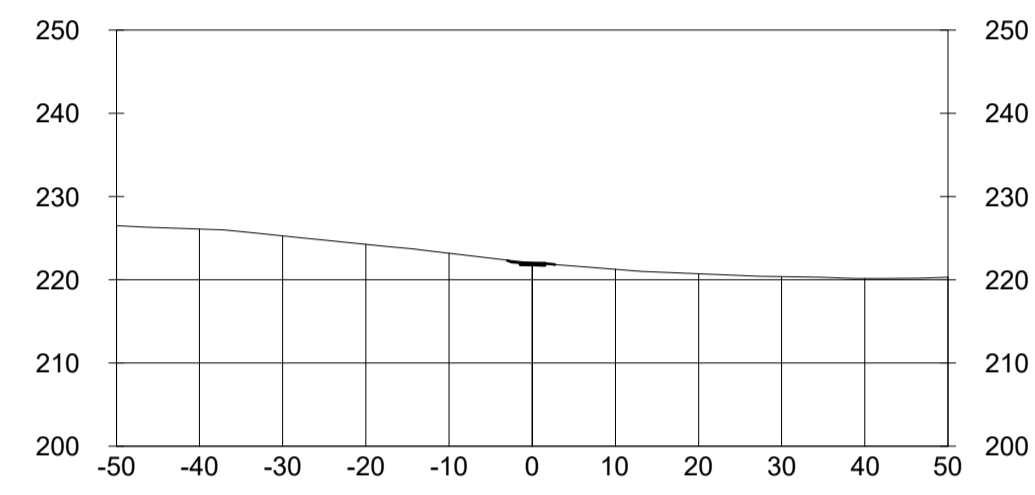
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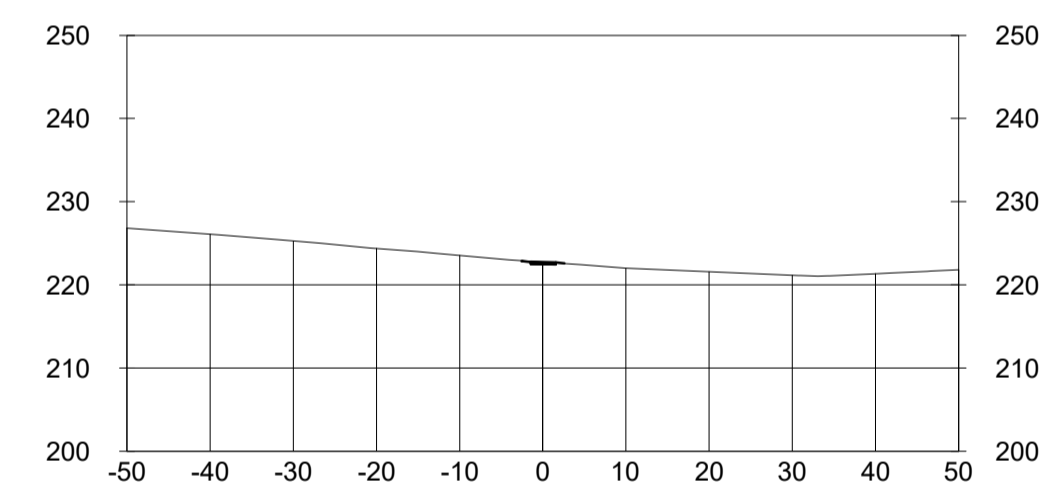
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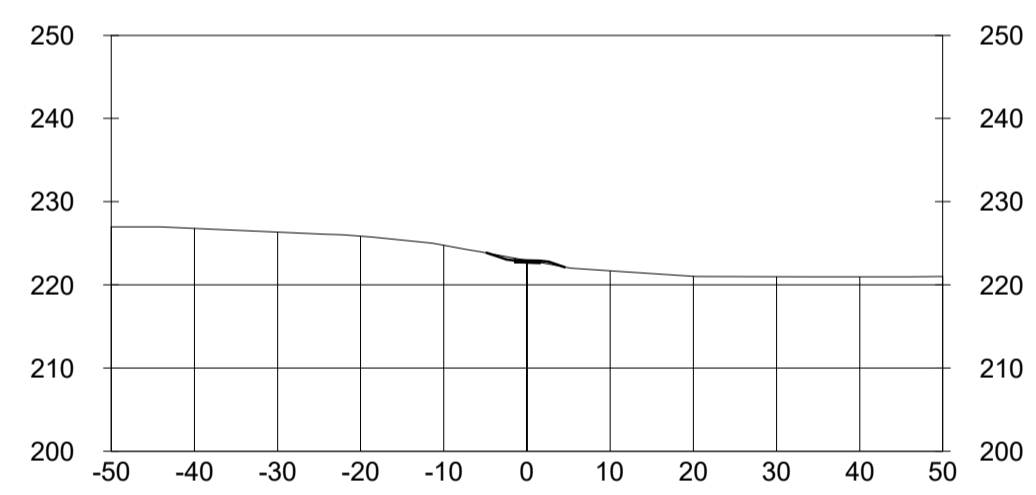
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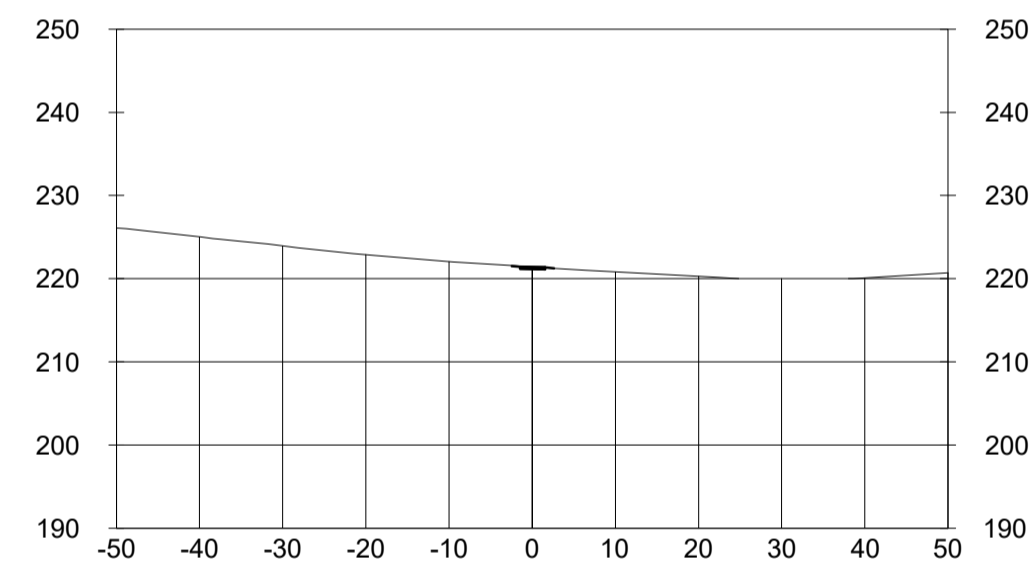
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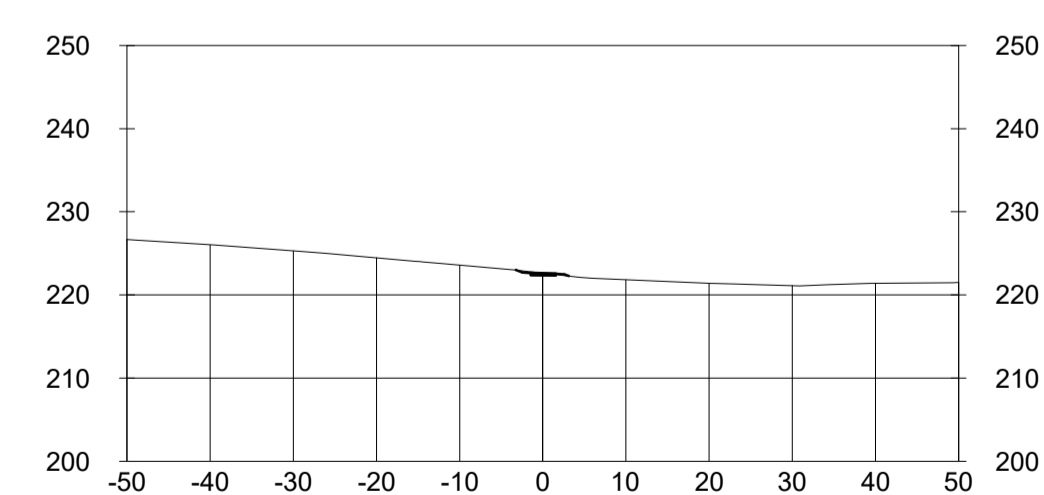
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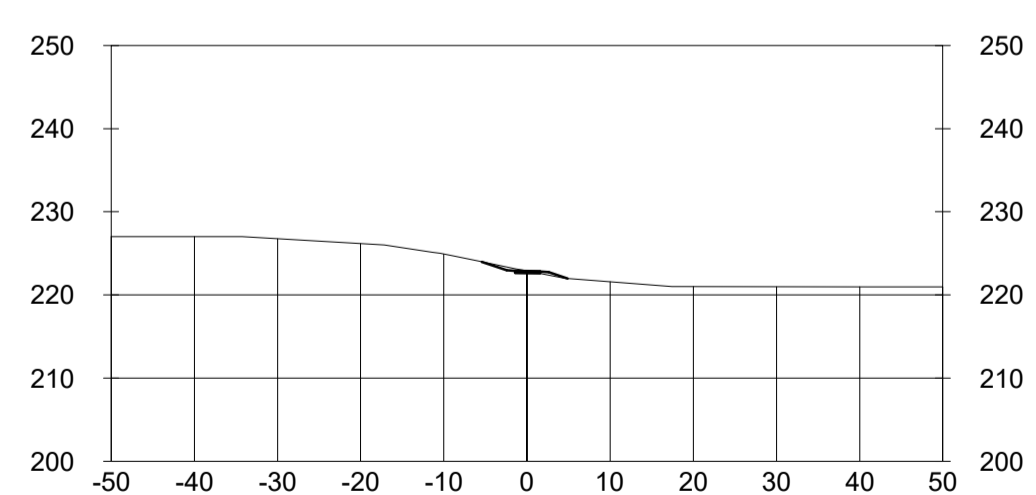
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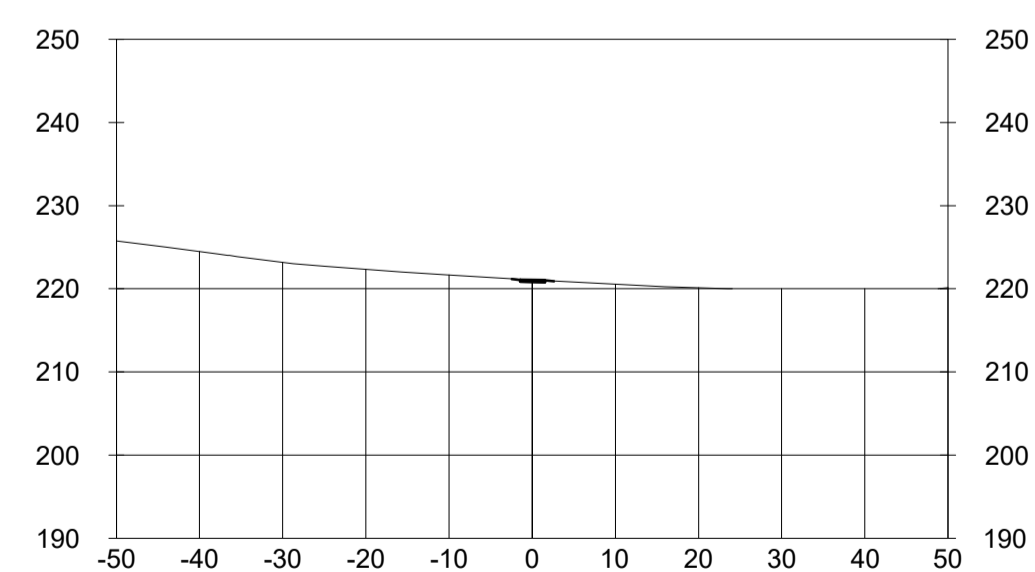
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0+874.72



**BENCHMARK INFORMATION**  
 ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
 BENCHMARK No. XXXXXXXXXX,  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO	DATE	REVISION/ISSUED	BY	APPD




Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com


CLIENT:  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

SITE ADDRESS:  
 MCNAUGHTON TO RUTHERFORD RD.

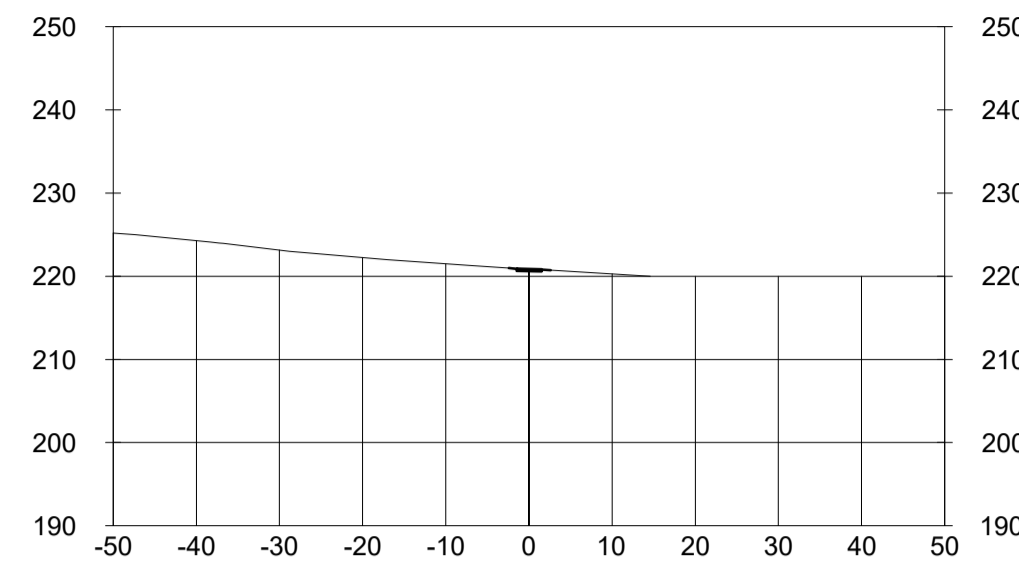
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**TRAIL SECTIONS**



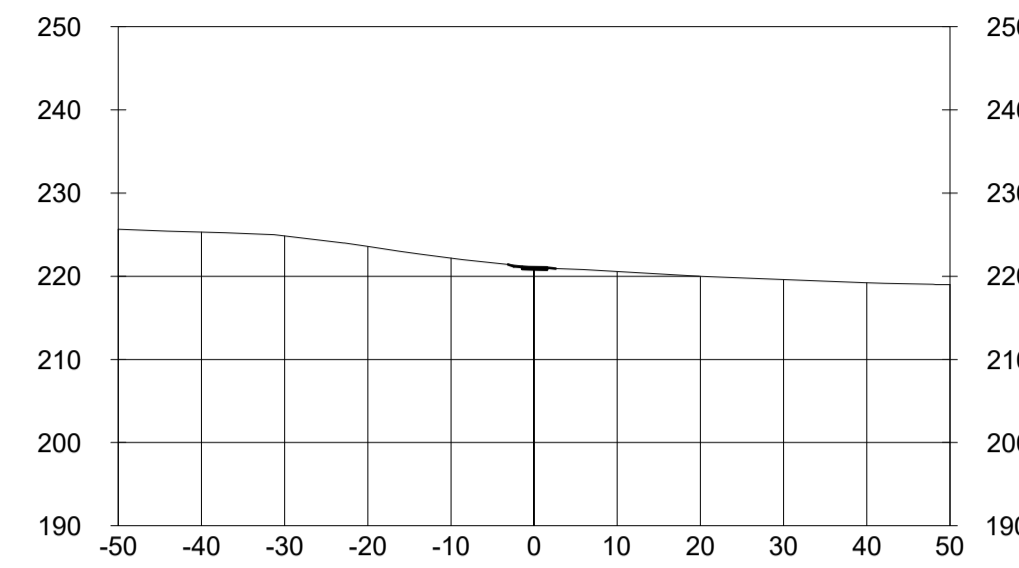


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SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00		DWG. NUMBER		
L-306			L-306		

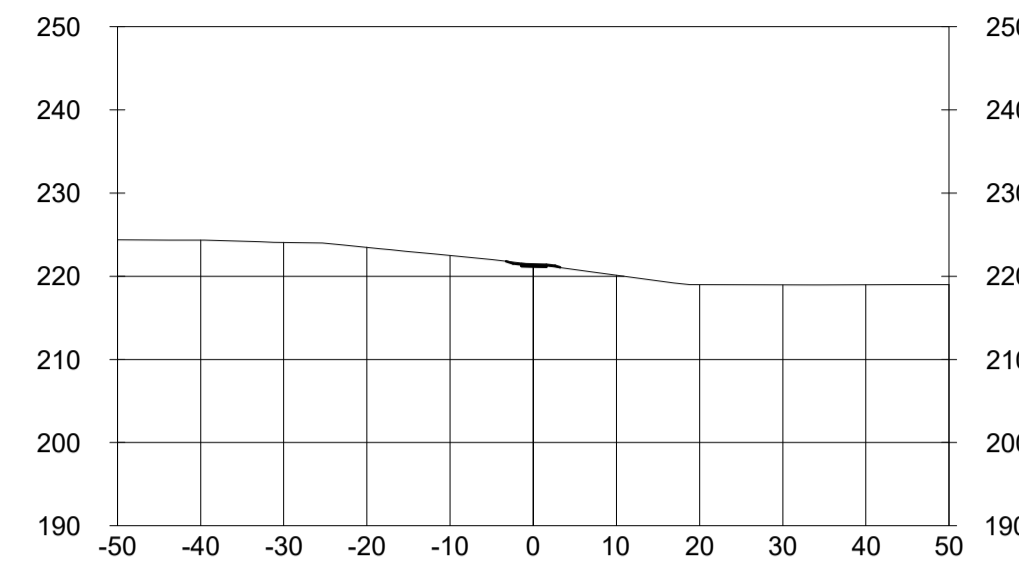
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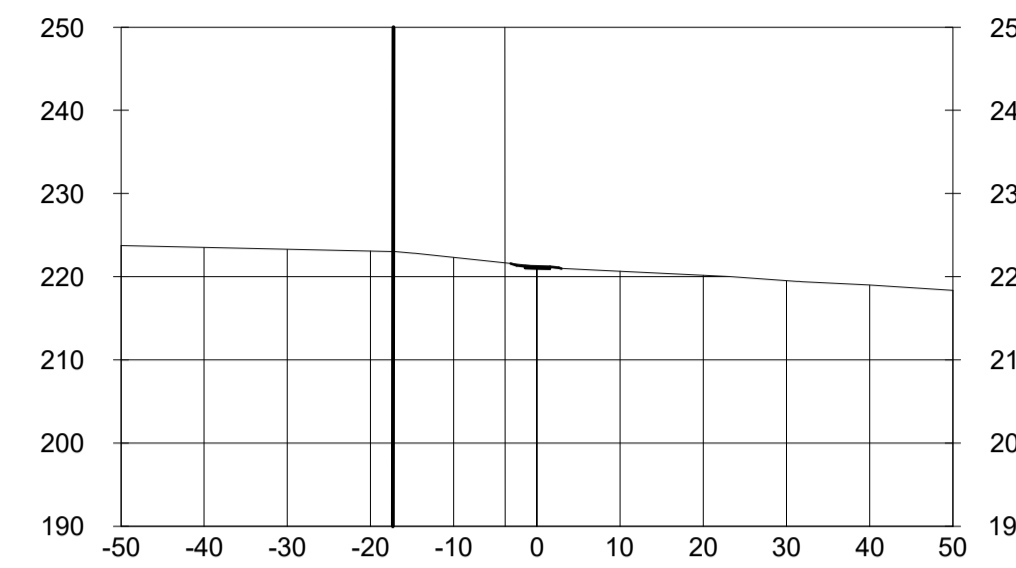
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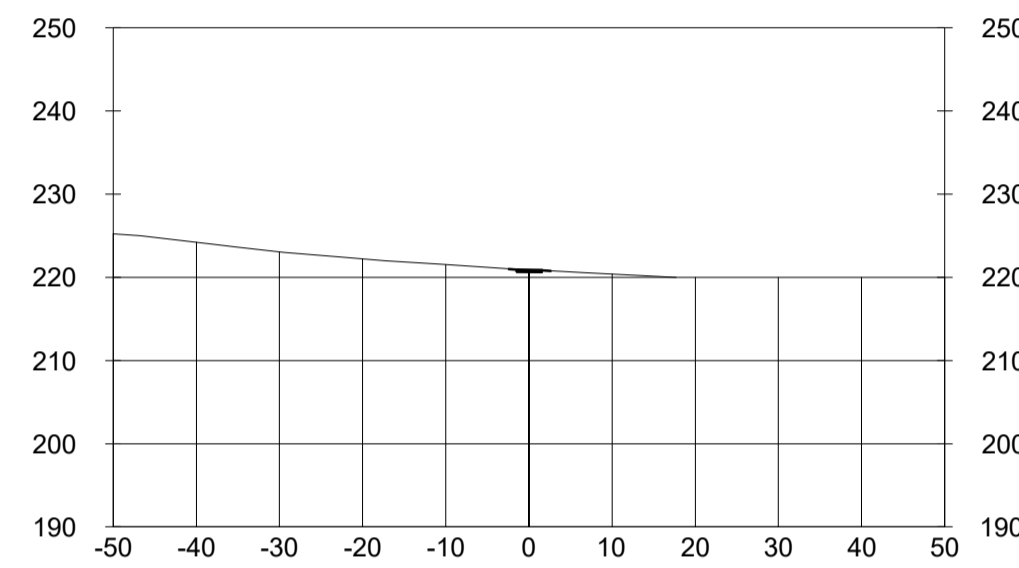
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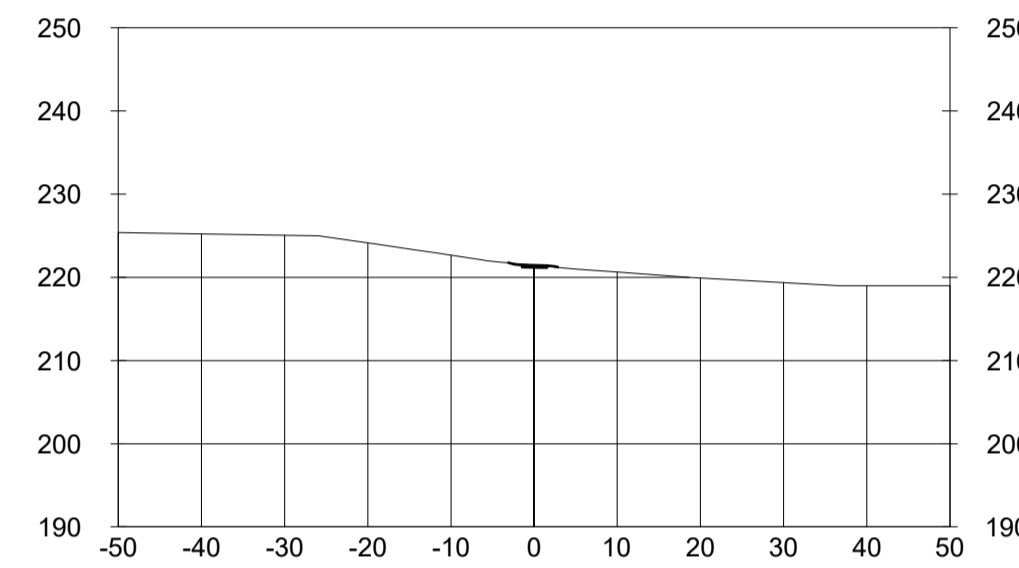
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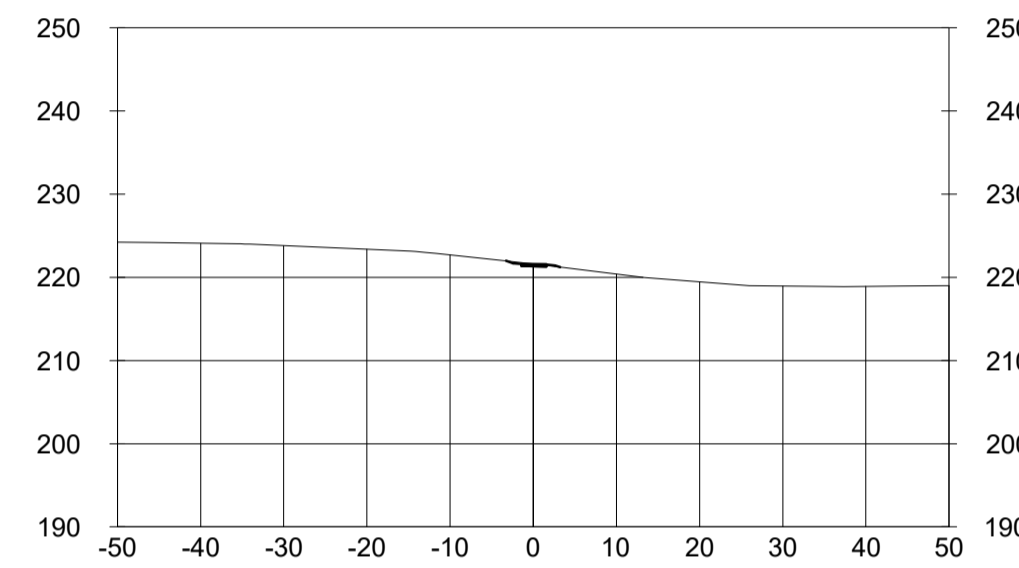
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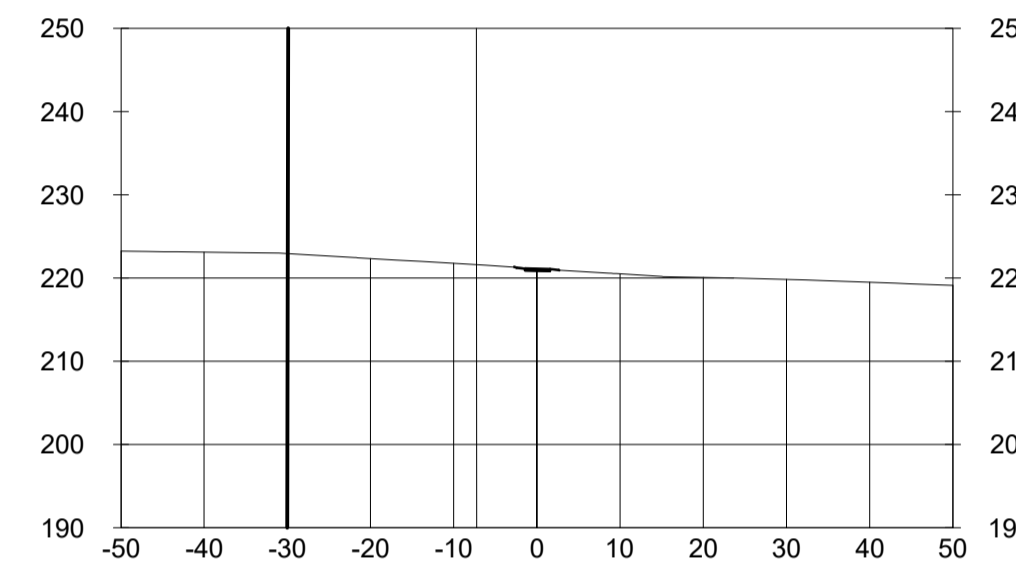
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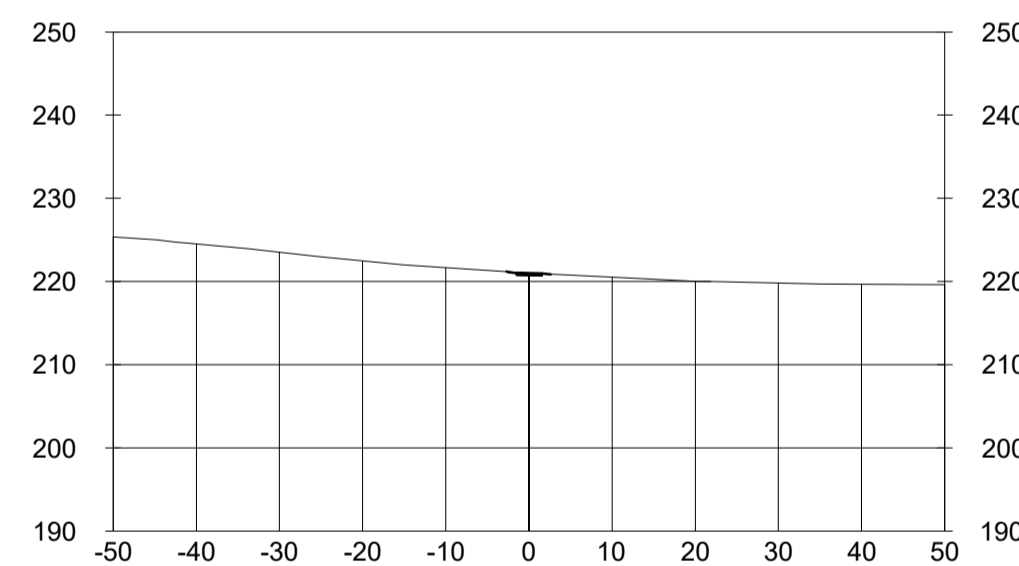
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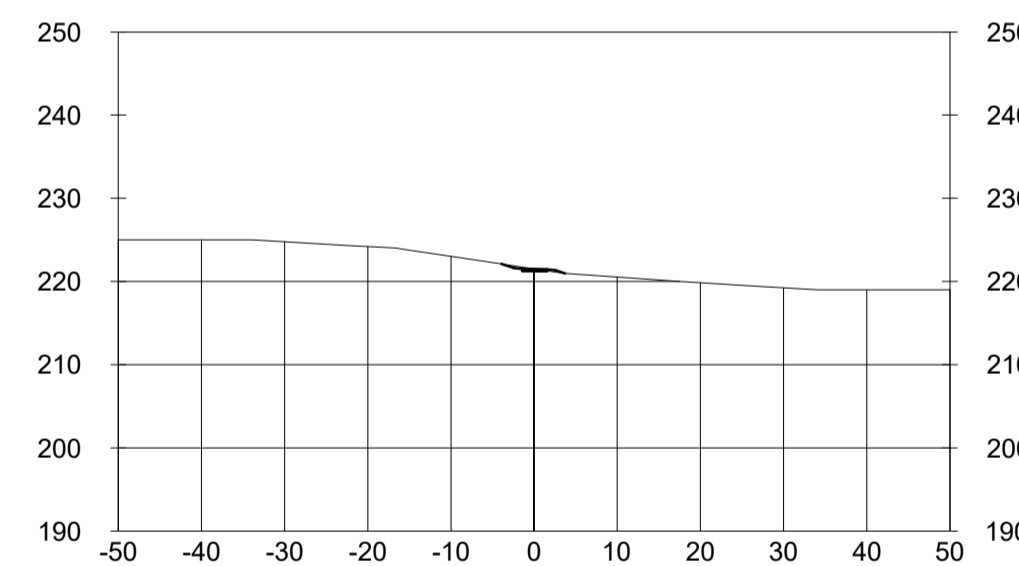
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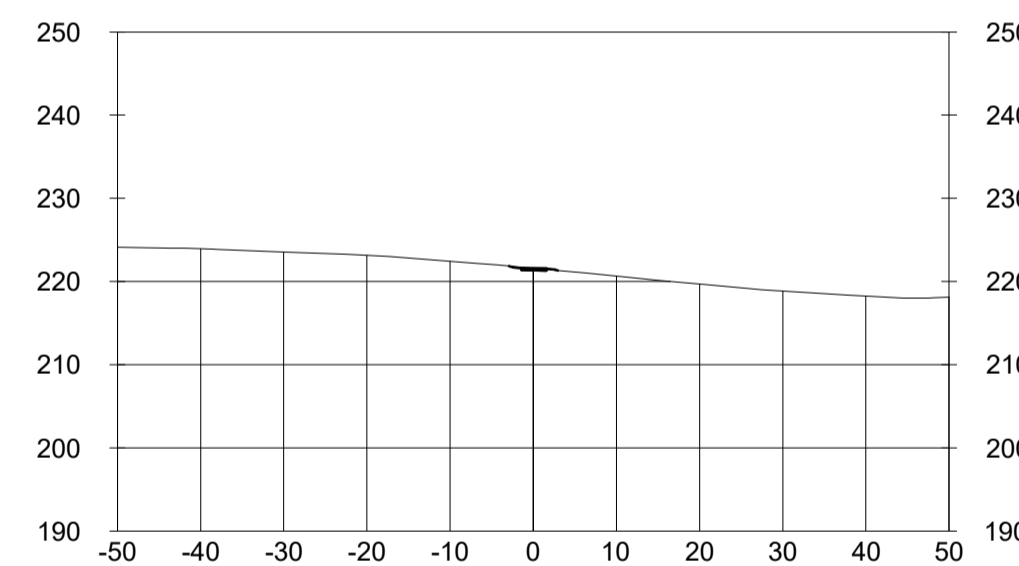
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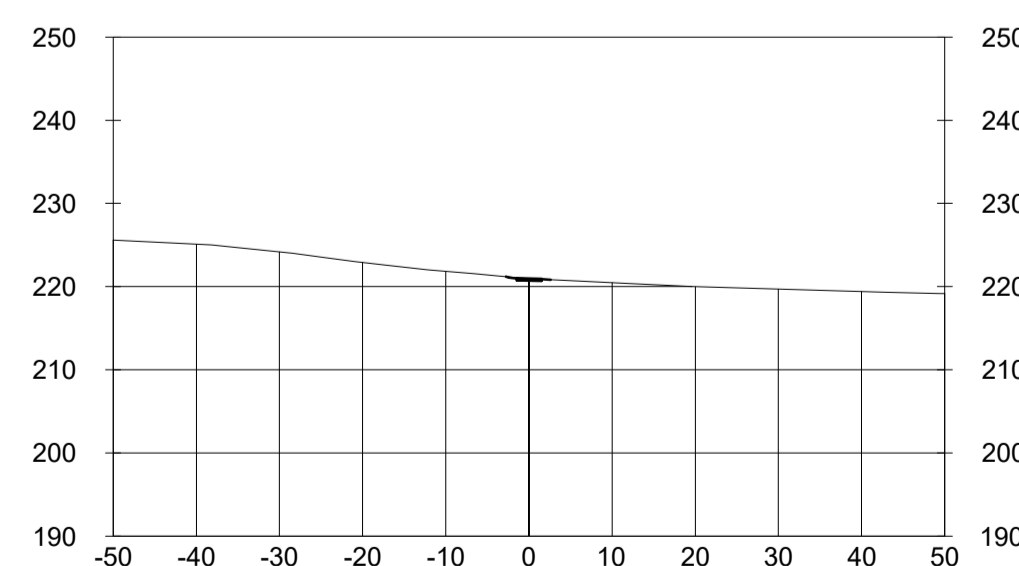
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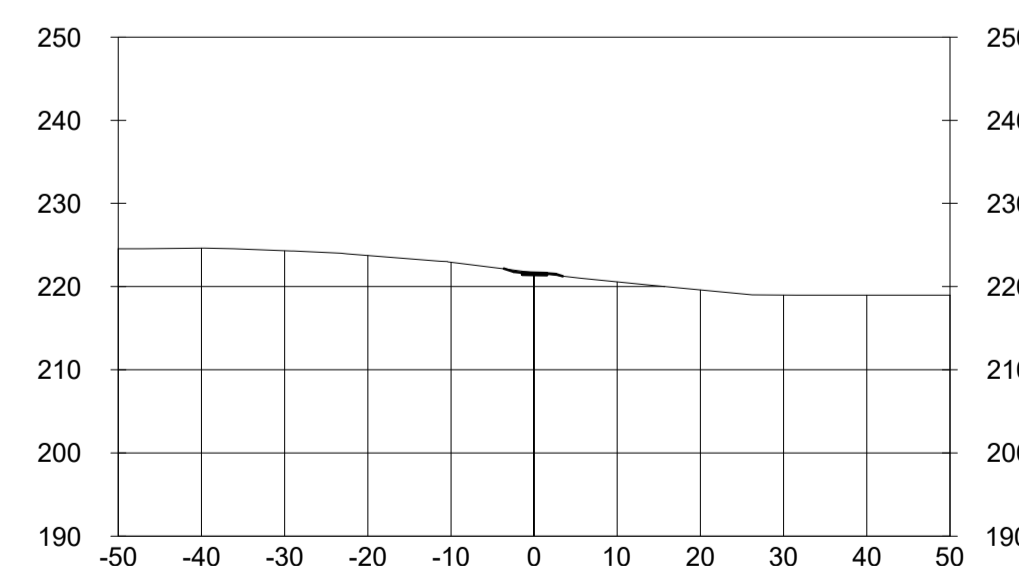
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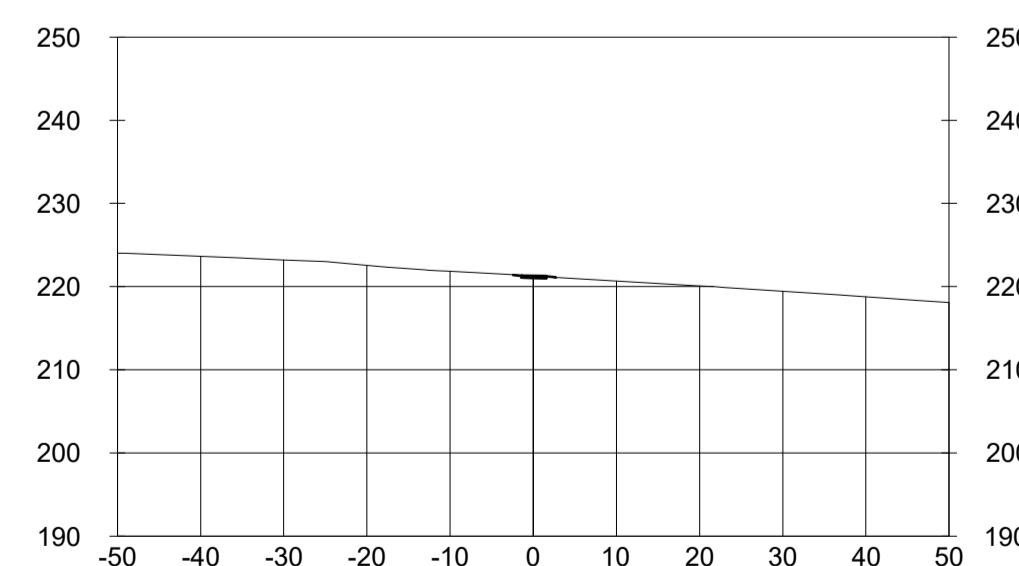
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1+074.64



1+174.19



**BENCHMARK INFORMATION**  
 ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
 BENCHMARK No. XXXXXXXXXX,  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
 BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO.	DATE	REVISION/ISSUED	BY	APPD

**wsp** Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP # \_\_\_\_\_

SITE ADDRESS:  
 MCNAUGHTON TO RUTHERFORD RD.

DRAWING TITLE:  
**TRAIL SECTIONS**

STAMP 	DESIGNED	WL	DRAWN	WL	CHECKED	BV
	SCALE	NA	DATE	DEC 10 2021	DWG. NUMBER	L-307

PROJECT NUMBER	211-07301-00
DWG. NUMBER	L-307

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EXISTING PARKING FROM ST.DAVID'S  
PARISH CHURCH

LIGHT BUFFER ENHANCEMENT PLANTING

TRCA  
REGULATOR  
FLOODLINE

CL

SLOPE

EXISTING SLOPE

4.60m EDGE OF TRAIL TO FLOODLINE

EXISTING PARKING LOT

17.81m LANDSCAPE REHABILITATION  
(MOW STRIP, SEEDING & LANDSCAPE PLANTING)

1.50m  
MAINTENANCE  
STRIP

3.00m WIDE PROPOSED  
MULTI-USE TRAIL

1.50m  
MAINTENANCE  
STRIP

EXISTING VALLEYLAND LANDSCAPE  
REHABILITATION AS NEEDED

1 SECTION 0+100.00 CHRUCH PARKING

Scale: NTS

MEDIUM BUFFER  
ENHANCEMENT PLANTING

TRCA REGULATORY  
FLOODLINE

PROPERTY BOUNDARY/ FENCE

0.50m EDGE OF PROPERTY  
BOUNDARY TO FLOODLINE

TRAIL CENTER LINE  
EXISTING SLOPE

CL

SLOPE

EXISTING BACKYARD

17.00m LANDSCAPE REHABILITATION  
(MOW STRIP, SEEDING, LANDSCAPE PLANTING)

1.50m  
MAINTENANCE  
STRIP

3.00m WIDE PROPOSED  
MULTI-USE TRAIL

1.50m  
MAINTENANCE  
STRIP

EXISTING VALLEYLAND LANDSCAPE  
REHABILITATION AS NEEDED

2 SECTION 0+450.00 RESIDENTIAL

Scale: NTS

BENCHMARK INFORMATION  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
BENCHMARK No. XXXXXXXXXX,  
ELEVATION = XXX.XX  
SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
BY: DATE:


NO	DATE	REVISION/ISSUED	BY	APPD
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**wsp** Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
T. 519-743-8777  
www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT  
SP #

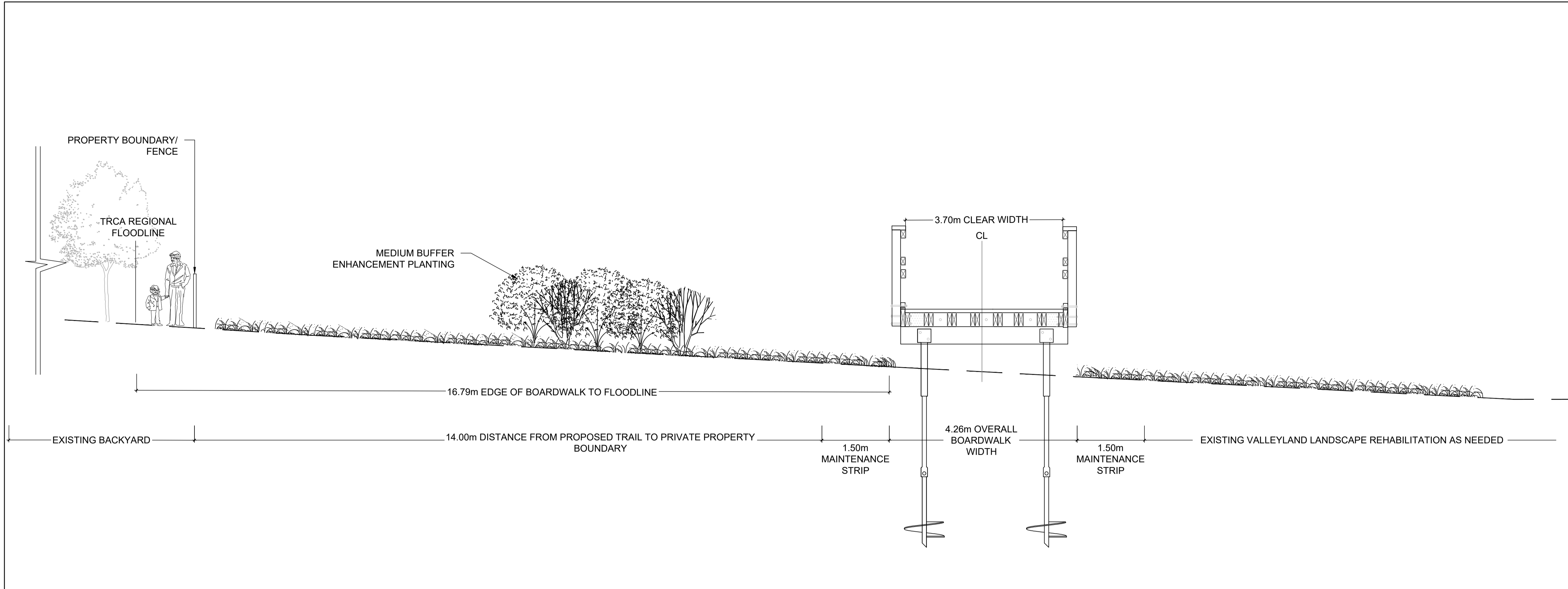
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DRAWING TITLE:  
**LANDSCAPE SECTIONS**

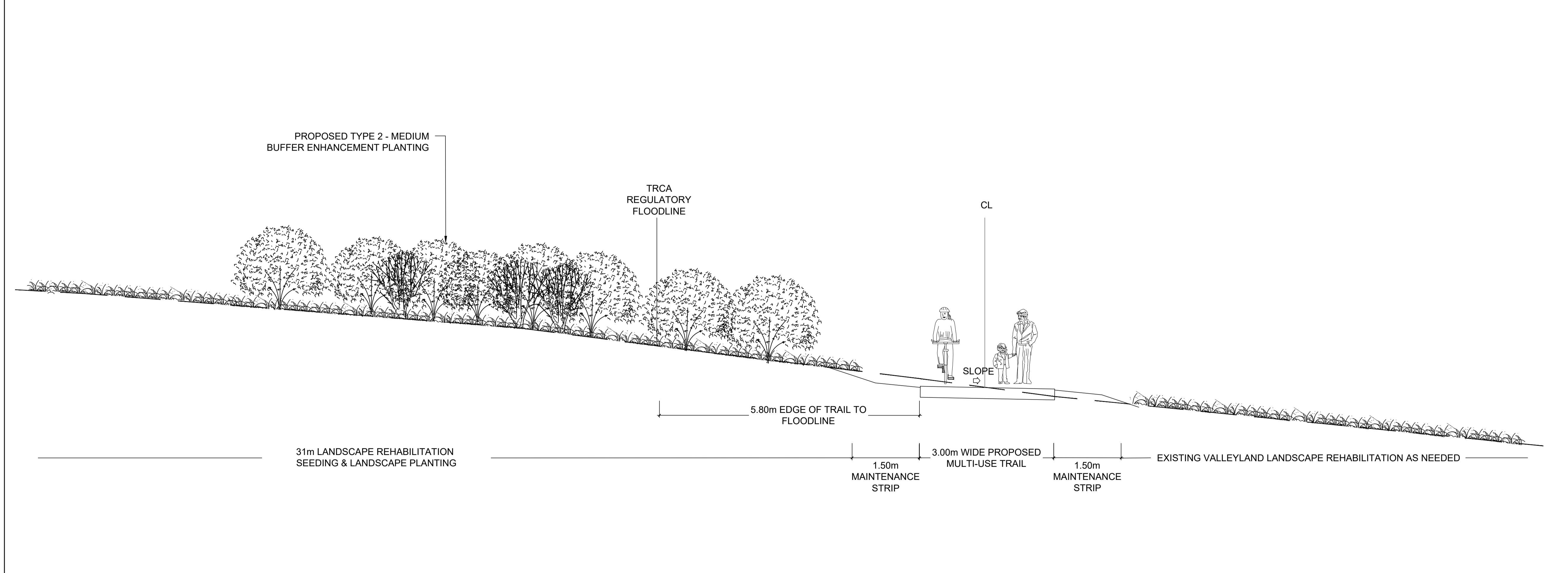
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DESIGNED WL DRAWN WL CHECKED BV  
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PROJECT NUMBER DWG. NUMBER  
211-07301-00 L-308

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1 SECTION 0+499.99 BOARDWALK Scale: NTS



2 SECTION 1+074.64 RESIDENTIAL Scale: NTS

**BENCHMARK INFORMATION**  
 ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
 BENCHMARK No. XXXXXXXXXX  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
 BY: DATE:

NO	DATE	REVISION/ISSUED	BY	APPD

**wsp** Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

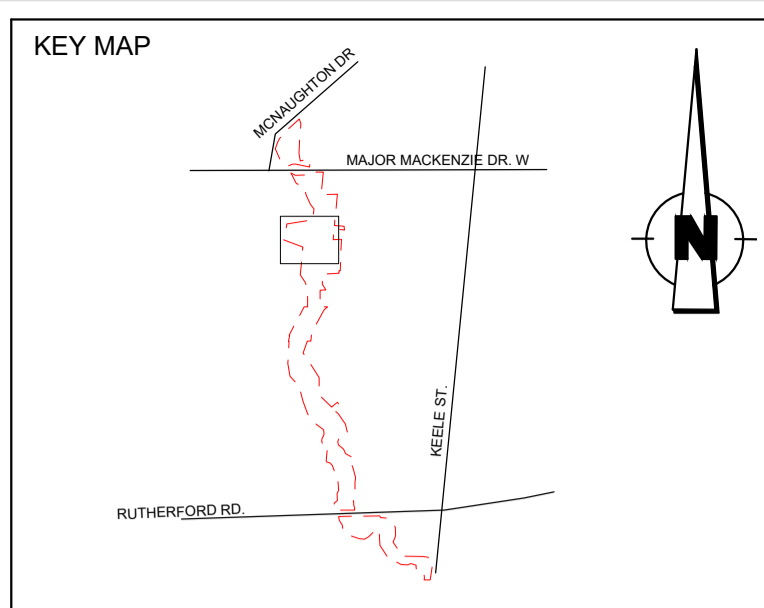
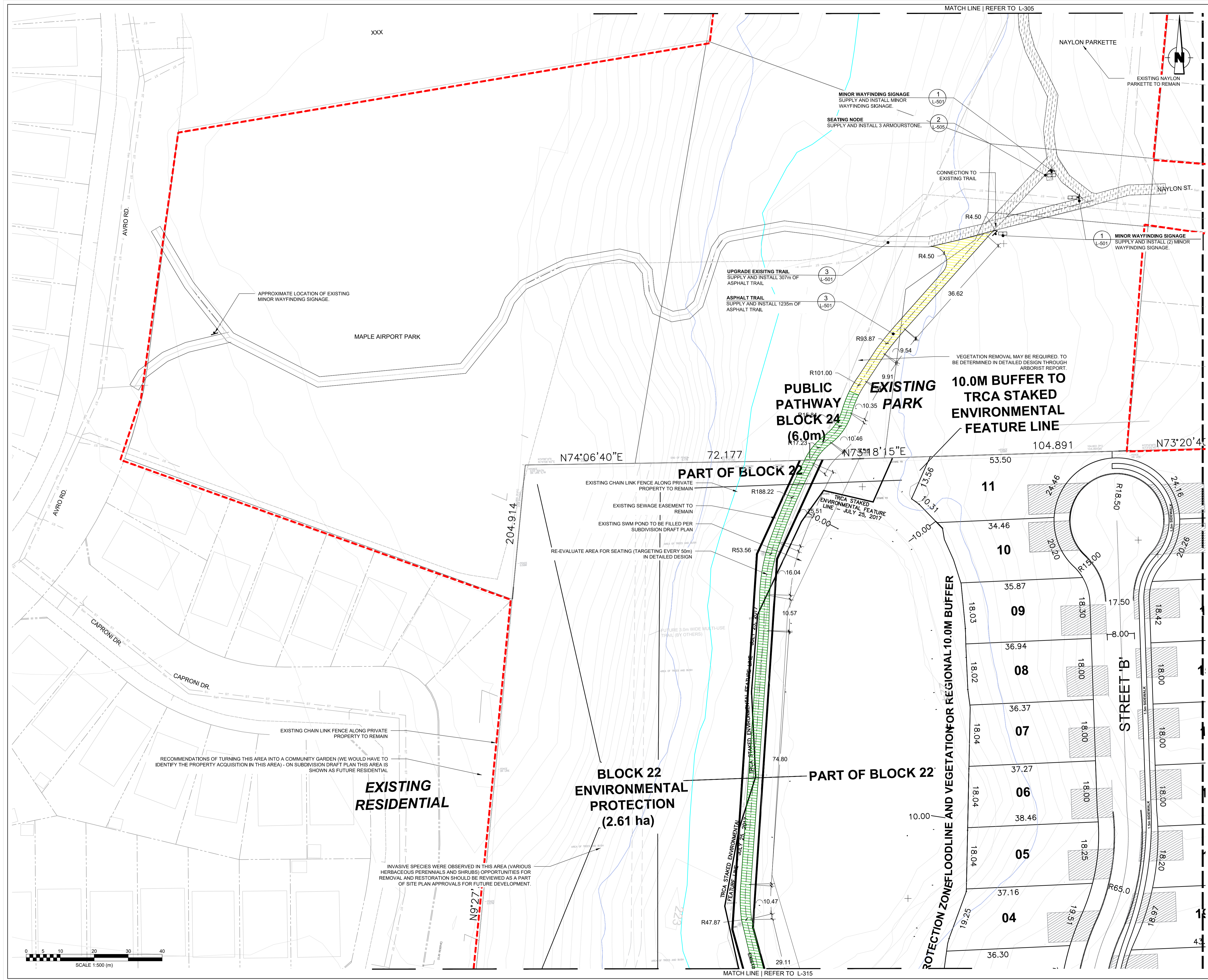
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 MCNAUGHTON TO RUTHERFORD RD.

DRAWING TITLE:  
**LANDSCAPE SECTIONS**

STAMP STAMP

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER		DWG. NUMBER			
211-07301-00		L-309			

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LEGEND KEY	
	SITE BOUNDARY
	EXISTING TRAIL - FACILITY (TO REMAIN)
	EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
	DON RIVER WEST BRANCH
	TRCA 100 YEAR FLOODLINE
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
	PROPOSED TRAIL 3m MULCH
	EXISTING STORM SERVICE LINE
	EXISTING SANITARY
	EXISTING WATERMAIN

NOTE:  
UNDERGROUND UTILITIES AND PLANTING LAYOUT TO BE DETERMINED BASED OFF THE TOTAL COMPENSATION DENOTED BY THE ARBORIST REPORT. THE LOCATION OF PLANTINGS CAN BE ADJUSTED IN THE DETAILED DESIGN.  
AS PER TRCA'S STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.

DRAWING INFORMATION	
ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:	CITY OF VAUGHAN
YEAR:	
ADDRESS:	2141 MAJOR MACKENZIE DR.

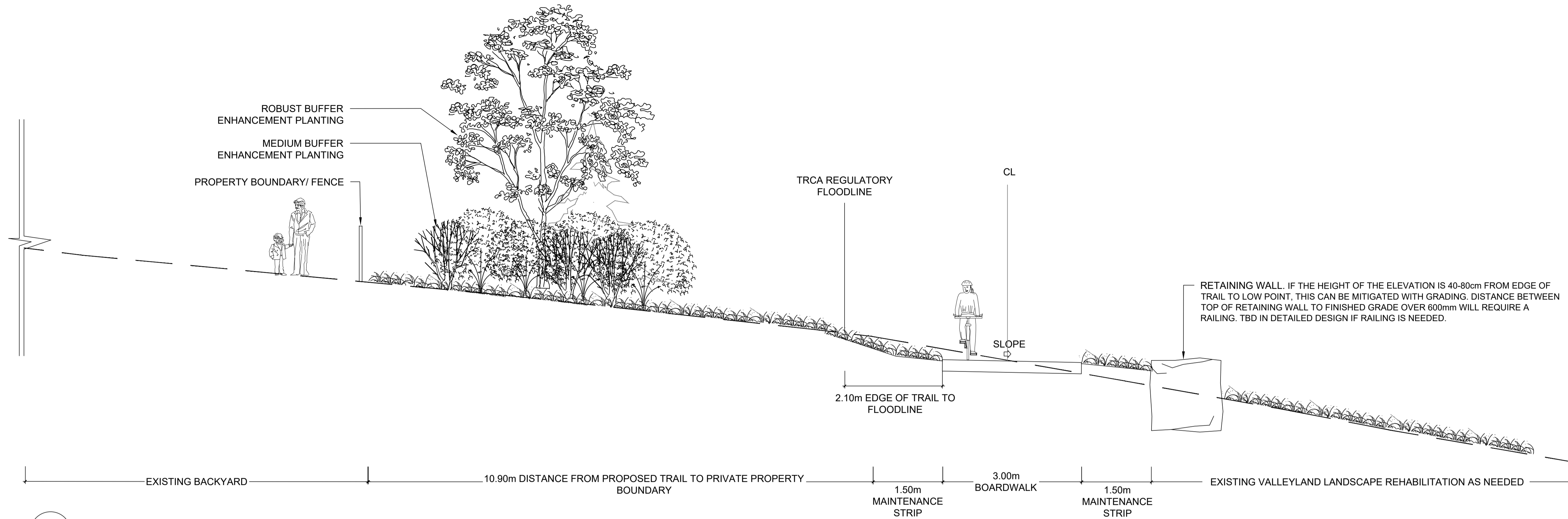
NO.	DATE	REVISION/ISSUED	BY	APPD

**WSP** Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
T. 519-743-8777  
www.wsp.com

CLIENT:	<b>CITY OF VAUGHAN</b> 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1
PROJECT TITLE:	<b>BARTLEY SMITH GREENWAY TRAIL</b> TRAIL ALIGNMENT SP #
SITE ADDRESS:	<b>MCNAUGHTON RD. &amp; MAJOR MACKENZIE DR.</b>
DRAWING TITLE:	<b>TRAIL LAYOUT PLAN</b>

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	1:500	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00	DWG. NUMBER	L-310		
STAMP		STAMP			

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1 SECTION 0+301.48 SWM POND/ RESIDENTIAL  
L-311

Scale: NTS

**BENCHMARK INFORMATION**  
 ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
 BENCHMARK No. XXXXXXXXXX  
 ELEVATION = XXX.XX  
 SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
 BY: DATE:

NO	DATE	REVISION/ISSUED	BY	APPD

**wsp** Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

SITE ADDRESS:  
 MCNAUGHTON TO RUTHERFORD RD.

DRAWING TITLE:  
**LANDSCAPE SECTIONS**

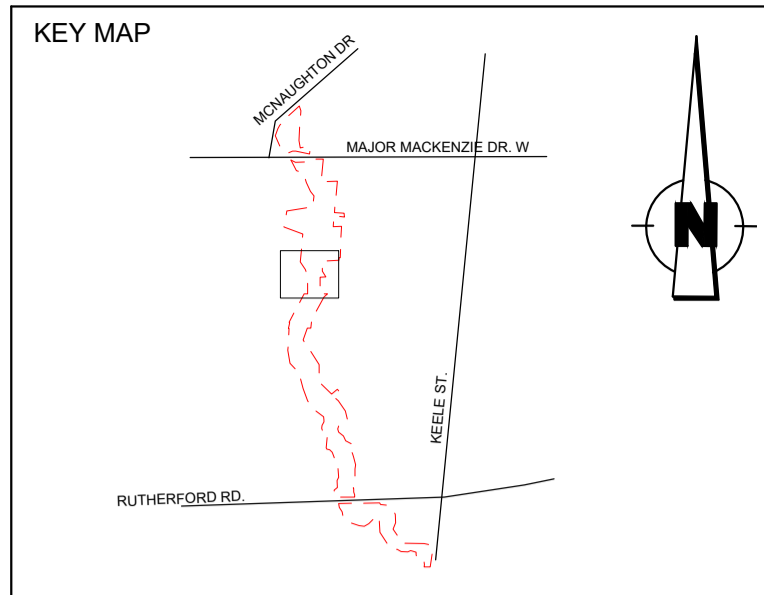
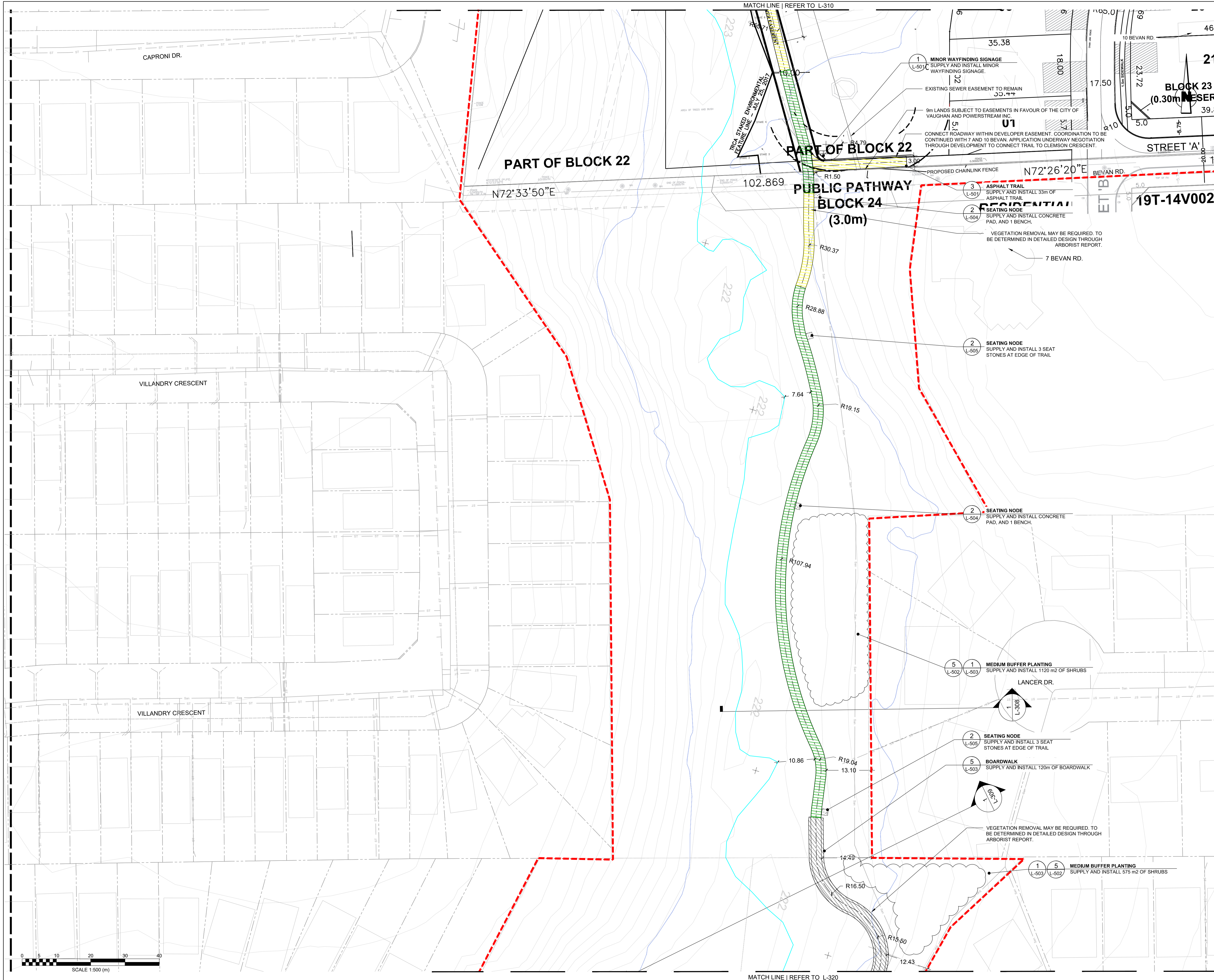
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DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00				DWG. NUMBER
					L-311

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**LEGEND KEY**

- SITE BOUNDARY
- EXISTING TRAIL - FACILITY (TO REMAIN)
- EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
- DON RIVER WEST BRANCH
- TRCA 100 YEAR FLOODLINE
- PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
- PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
- PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
- PROPOSED TRAIL 3m MULCH
- EXISTING STORM SERVICE LINE
- EXISTING SANITARY
- EXISTING WATERMAIN

**NOTE:**  
 UNDERGROUND UTILITIES AND PLANTING LAYOUT TO BE DETERMINED BASED OFF THE TOTAL COMPENSATION DENOTED BY THE ARBORIST REPORT. THE LOCATION OF PLANTINGS CAN BE ADJUSTED IN THE DETAILED DESIGN.  
 AS PER TRCA'S STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL 'ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.

**DRAWING INFORMATION**  
 ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
 CITY OF VAUGHAN  
 YEAR:  
 ADDRESS: 2141 MAJOR MACKENZIE DR.

NO.	DATE	REVISION/ISSUED	BY	APPD

**wsp** Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

CLIENT: **CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

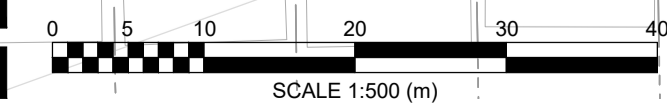
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 MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**TRAIL LAYOUT PLAN**

STAMP: **CONSTRUCTION NOT FOR**

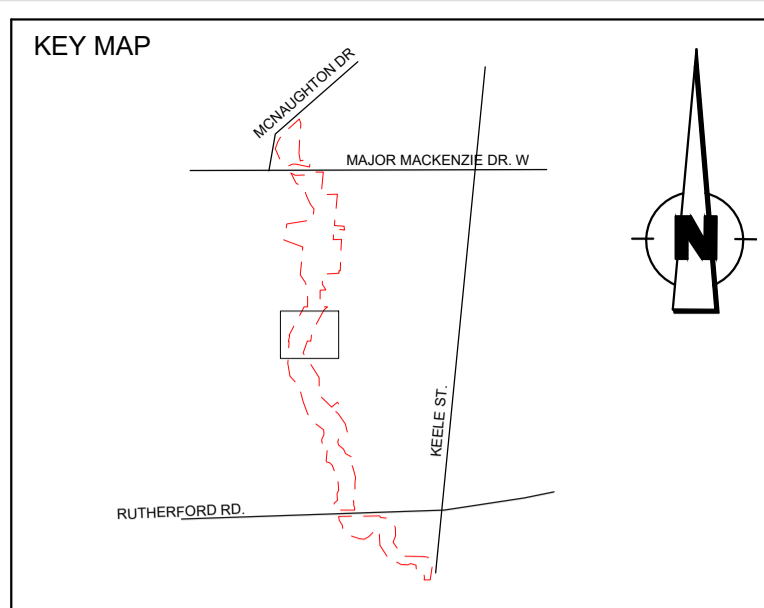
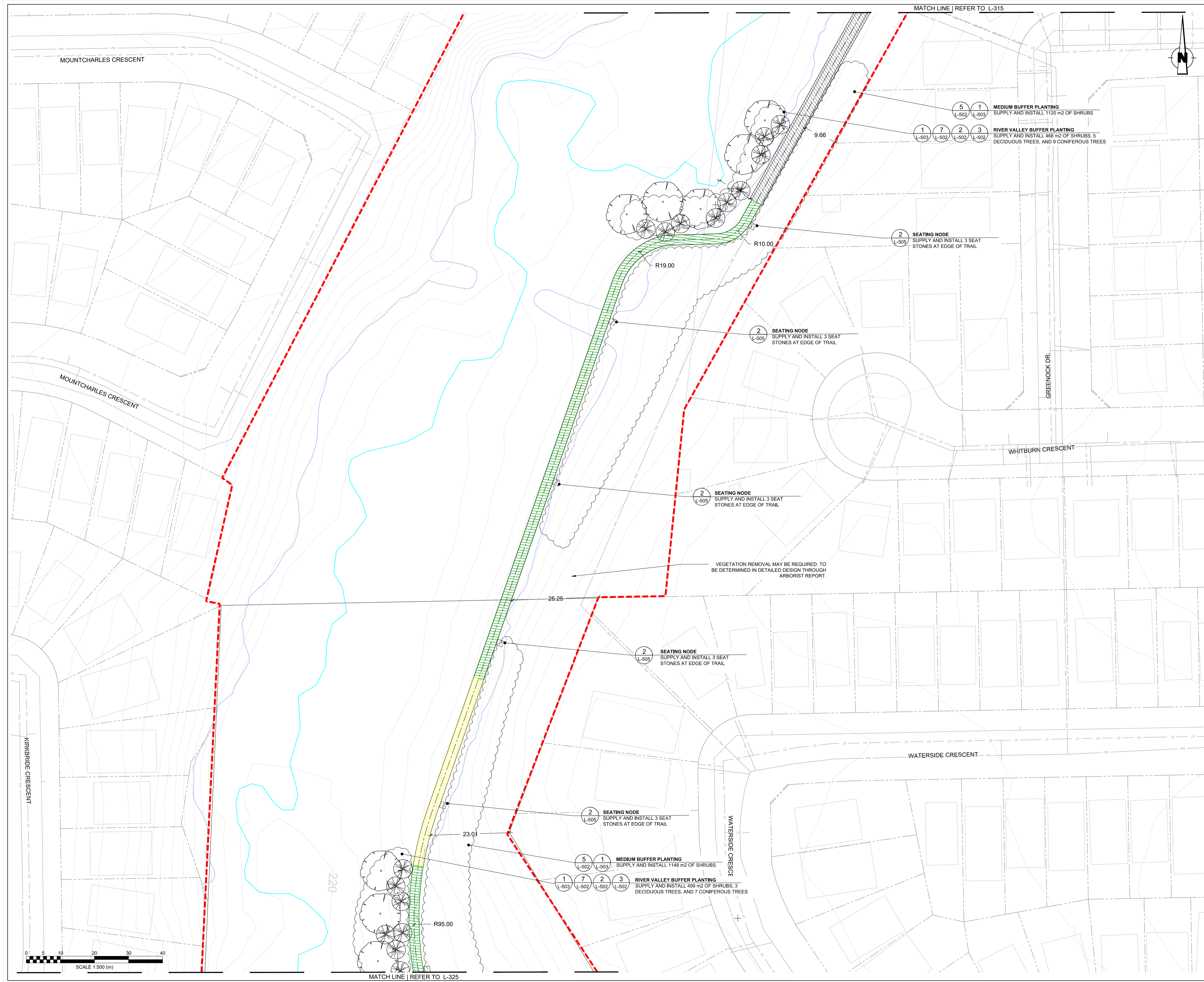
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PROJECT NUMBER <b>211-07301-00</b>	L-315	

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MATCH LINE | REFER TO L-310

MATCH LINE | REFER TO L-320



### LEGEND KEY

	SITE BOUNDARY
	EXISTING TRAIL - FACILITY (TO REMAIN)
	EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
	DON RIVER WEST BRANCH
	TRCA 100 YEAR FLOODLINE
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
	PROPOSED TRAIL 3m MULCH
	EXISTING STORM SERVICE LINE
	EXISTING SANITARY
	EXISTING WATERMAIN

NOTE:  
UNDERGROUND UTILITIES AND PLANTING LAYOUT TO BE DETERMINED BASED OFF THE TOTAL COMPENSATION DENOTED BY THE ARBORIST REPORT. THE LOCATION OF PLANTINGS CAN BE ADJUSTED IN THE DETAILED DESIGN.  
AS PER TRCA'S STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL 'ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.'

#### DRAWING INFORMATION

ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
CITY OF VAUGHAN  
YEAR:  
ADDRESS: 2141 MAJOR MACKENZIE DR.

NO.	DATE	REVISION/ISSUED	BY	APPD

Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
1.519-743-8777  
www.wsp.com

CLIENT: **CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE: **BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT  
SP #

SITE ADDRESS:  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**TRAIL LAYOUT PLAN**

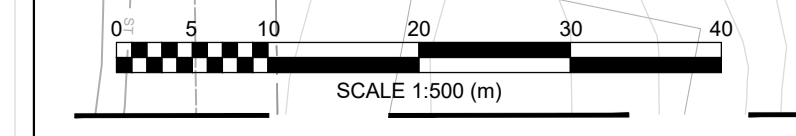
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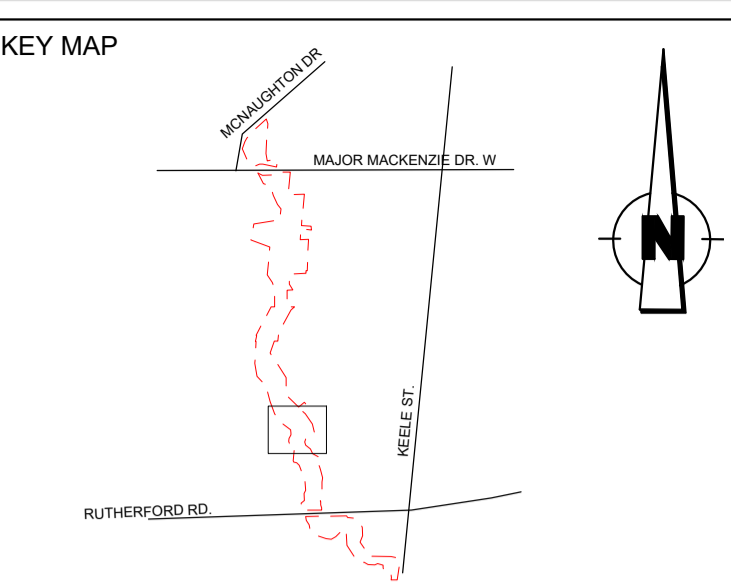
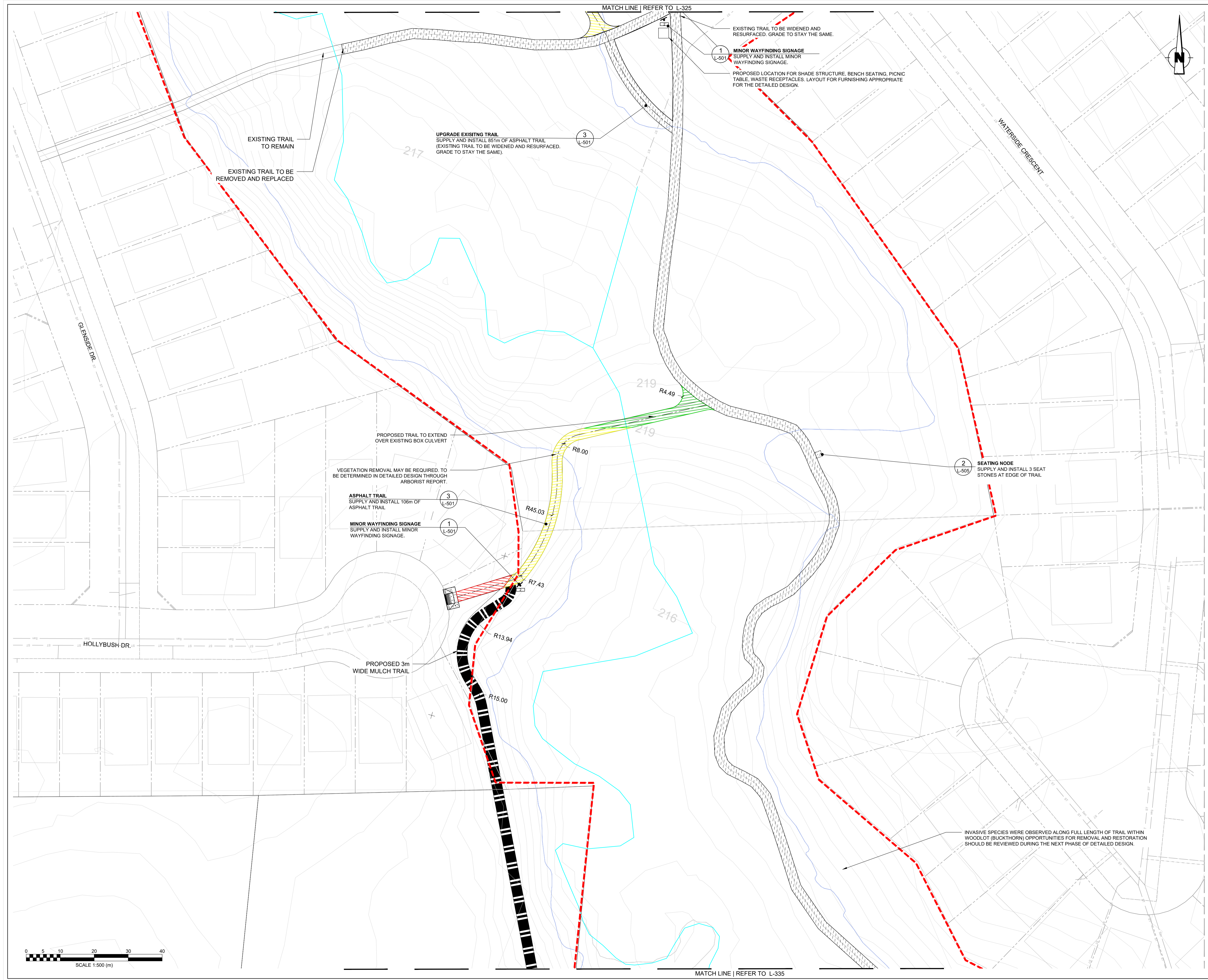
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DESIGNED WL	DRAWN WL	CHECKED BV
SCALE 1:500	DATE DEC 10 2021	DWG. NUMBER
PROJECT NUMBER 211-07301-00		L-320

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 220







### LEGEND KEY

[Red dashed line]	SITE BOUNDARY
[Grey hatched area]	EXISTING TRAIL - FACILITY (TO REMAIN)
[Yellow hatched area]	EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
[Blue line]	DON RIVER WEST BRANCH
[Blue wavy line]	TRCA 100 YEAR FLOODLINE
[Green hatched area]	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
[Yellow hatched area]	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
[Red hatched area]	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
[Black hatched area]	PROPOSED TRAIL 3m MULCH
[Grey dashed line]	EXISTING STORM SERVICE LINE
[Blue dashed line]	EXISTING SANITARY
[Red dashed line]	EXISTING WATERMAIN

**NOTE:**  
 UNDERGROUND UTILITIES AND PLANTING LAYOUT TO BE DETERMINED BASED OFF THE TOTAL COMPENSATION DENOTED BY THE ARBORIST REPORT. THE LOCATION OF PLANTINGS CAN BE ADJUSTED IN THE DETAILED DESIGN.  
 AS PER TRCA'S STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL 'ALL ACCESS TO THE WORK SITE SHALL BE FROM EITHER SIDE OF THE WATERCOURSE. NO EQUIPMENT OR VEHICLES ARE PERMITTED TO CROSS THROUGH THE WATERCOURSE UNLESS APPROVED BY TRCA.'

**DRAWING INFORMATION**  
 ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
 CITY OF VAUGHAN  
 YEAR:  
 ADDRESS: 2141 MAJOR MACKENZIE DR.

NO.	DATE	REVISION/ISSUED	BY	APPD

WSP Landscape Architecture  
 582 Lancaster Street West  
 Kitchener, ON N2K 1M3  
 T. 519-743-8777  
 www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

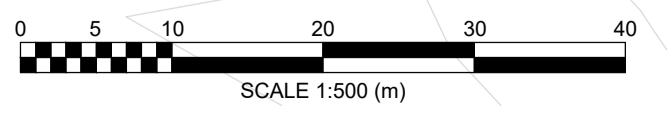
PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

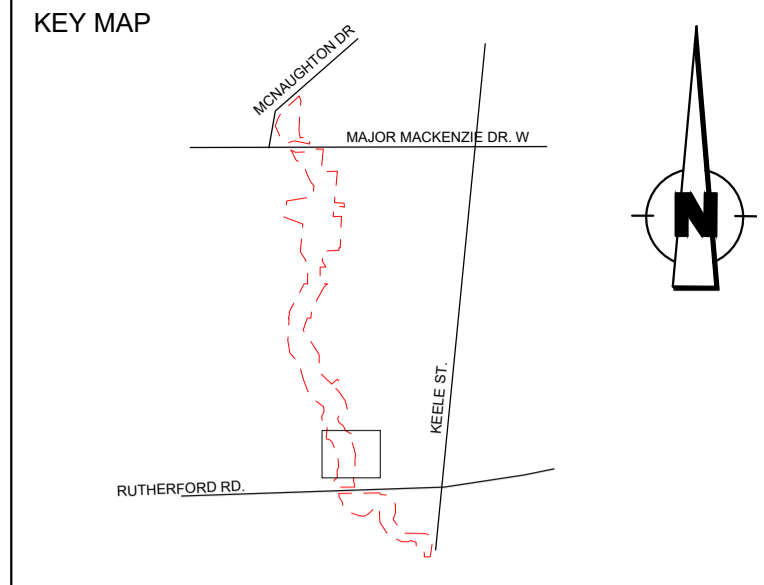
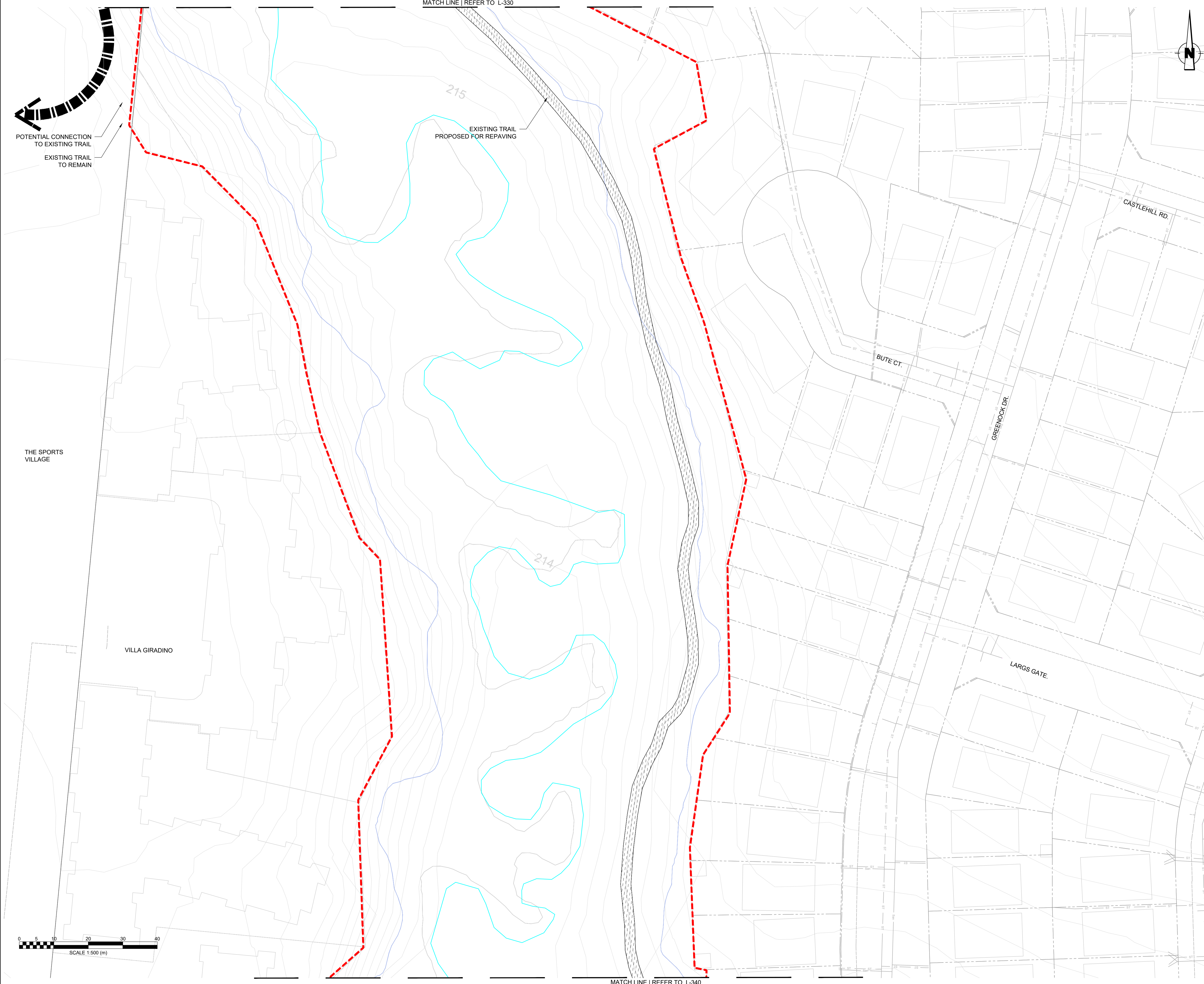
SITE ADDRESS:  
 MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**TRAIL LAYOUT PLAN**

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	1:500	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00		DWG. NUMBER	L-330	

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**LEGEND KEY**

	SITE BOUNDARY
	EXISTING TRAIL - FACILITY (TO REMAIN)
	EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
	DON RIVER WEST BRANCH
	TRCA 100 YEAR FLOODLINE
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
	PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
	PROPOSED TRAIL 3m MULCH
	EXISTING STORM SERVICE LINE
	EXISTING SANITARY
	EXISTING WATERMAIN

**NOTE:**  
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**DRAWING INFORMATION**  
 ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
 CITY OF VAUGHAN  
 YEAR:  
 ADDRESS: 2141 MAJOR MACKENZIE DR.

NO.	DATE	REVISION/ISSUED	BY	APPD



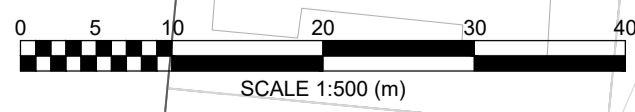
**CLIENT:**  
**CITY OF VAUGHAN**  
 2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

**PROJECT TITLE:**  
**BARTLEY SMITH GREENWAY TRAIL**  
 TRAIL ALIGNMENT  
 SP #

**SITE ADDRESS:**  
 MCNAUGHTON RD. & MAJOR MACKENZIE DR.

**DRAWING TITLE:**  
**TRAIL LAYOUT PLAN**

STAMP			STAMP
DESIGNED WL			DRAWN WL
SCALE 1:500	DATE DEC 10 2021		
PROJECT NUMBER 211-07301-00	DWG. NUMBER L-335		



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**SIGNAGE NOTES:**

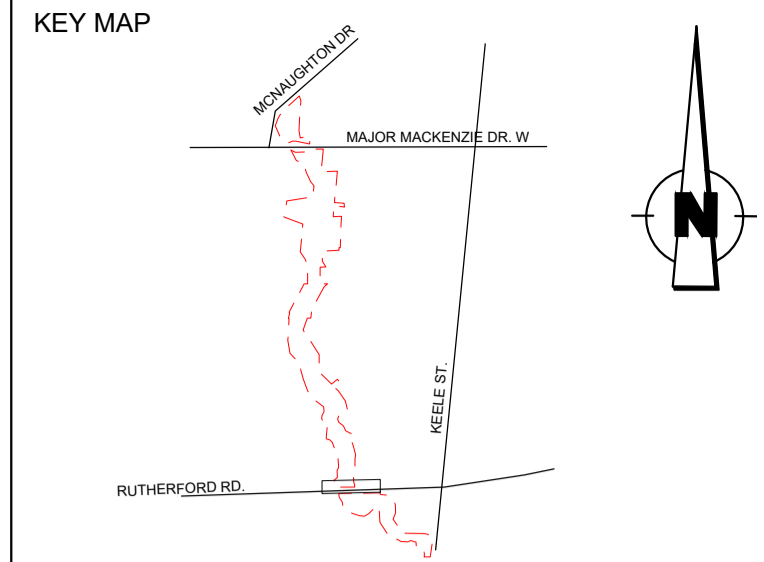
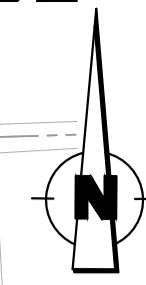
ADDITIONAL MINOR WAYFINDING SIGNAGES TO BE LOCATED AT THE FOLLOWING 4 AREAS:

1. GREENOCK DR & RUTHERFORD RD
2. SHERWOOD PARK DR & RUTHERFORD RD
3. KEELE ST. & RUTHERFORD RD
4. 43 ZANTELLA CT & RUTHERFORD

ADDITIONAL INTERPRETIVE SIGNAGE TO BE LOCATED AT THE FOLLOWING AREA:

1. DONALD MANN

MATCH LINE | REFER TO L-310



**LEGEND KEY**

- SITE BOUNDARY
- EXISTING TRAIL - FACILITY (TO REMAIN)
- EXISTING TRAIL - (UPGRADE TO 3m ASPHALT)
- DON RIVER WEST BRANCH
- TRCA 100 YEAR FLOODLINE
- PROPOSED TRAIL 3m ASPHALT WITH SLOPE (1-3% INCLINE)
- PROPOSED TRAIL 3m ASPHALT WITH SLOPE (3-5% INCLINE)
- PROPOSED TRAIL 3m ASPHALT WITH SLOPE (5-8% INCLINE)
- PROPOSED TRAIL 3m MULCH
- EXISTING STORM SERVICE LINE
- EXISTING SANITARY
- EXISTING WATERMAIN

**NOTE:**  
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**DRAWING INFORMATION**  
ORIGINAL DESIGN AND/OR DRAWING BASE COMPLETED BY:  
CITY OF VAUGHAN  
YEAR:  
ADDRESS: 2141 MAJOR MACKENZIE DR.

NO.	DATE	REVISION/ISSUED	BY	APPD



**CLIENT:**  
CITY OF VAUGHAN  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

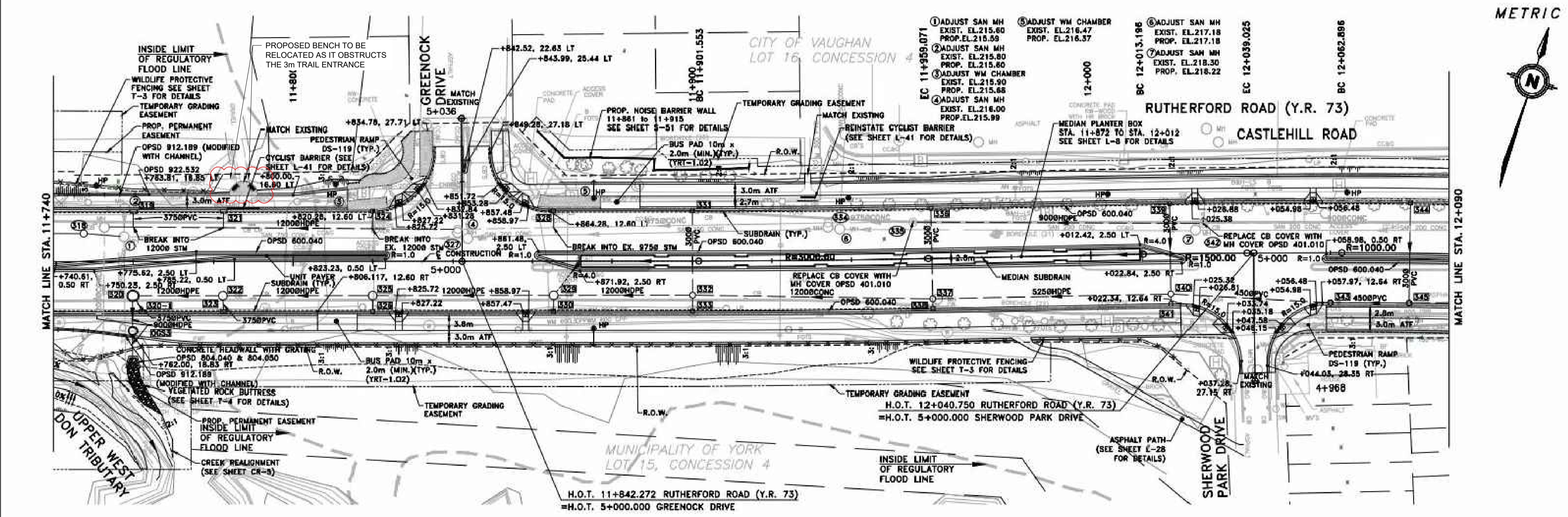
**PROJECT TITLE:**  
BARTLEY SMITH GREENWAY TRAIL  
TRAIL ALIGNMENT  
SP #

**SITE ADDRESS:**  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

**DRAWING TITLE:**  
TRAIL LAYOUT PLAN

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	1:500	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00		DWG. NUMBER	L-340	

NEW CONSTRUCTION DRAWINGS FOR RUTHERFORD ROAD (OCT 2018) FROM SNC LAVALIN



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### TYPICAL MULTI-USE RECREATIONAL TRAIL WITHIN PARK OR OPEN SPACE

N.T.S.

### TYPICAL MULTI-USE RECREATIONAL TRAIL ABUTTING RIGHT OF WAY

N.T.S.

NOTES:

- REFER TO LANDSCAPE PLANS TO CONFIRM PATH WIDTH AND SURFACING.
- REFER TO LANDSCAPE PLANS FOR AREAS ABUTTING MULTI-USE TRAIL (FOR PLANTING AND OTHER FEATURES).
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

2					
1			APRD		DATE
#	REVISIONS				

**VAUGHAN**

MULTI-USE RECREATIONAL TRAIL  
TYPICAL CROSS-SECTIONS

DRAWN: PP APPROVED: MT DRAWING NO. TLA 100  
SCALE: N.T.S. DATE: 25/08/20

1 TYPICAL CROSS-SECTIONS  
L-500 Scale: NTS

### TYPICAL TRAIL ENTRANCE LAYOUT

N.T.S.

NOTES:

- REFER TO LANDSCAPE PLANS TO CONFIRM PATH WIDTH AND SURFACING.
- REFER TO LANDSCAPE PLANS FOR AREAS ABUTTING MULTI-USE TRAIL (FOR PLANTING AND OTHER FEATURES).
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

2					
1			APRD		DATE
#	REVISIONS				

**VAUGHAN**

MULTI-USE RECREATIONAL TRAIL  
TYPICAL TRAIL ENTRANCE LAYOUT

DRAWN: PP APPROVED: MT DRAWING NO. TLA 101  
SCALE: N.T.S. DATE: 25/08/20

2 TYPICAL TRAIL ENTRANCE LAYOUT  
L-500 Scale: NTS

### CULVERT SECTION A

N.T.S.

### CULVERT SECTION B

N.T.S.

NOTES:

- CORRUGATED STEEL PIPE CULVERT SHALL BE GALVANIZED, 1.6mm THICK, COMPLETE WITH PREFABRICATED GALVANIZED STEEL END SECTIONS, WITH COLLAR BOLTS, BURIED BELOW GRADE AND WITH ROCKET GUARDS ON BOTH ENDS.
- END SECTION COLLAR BOLTS TO BE LOCATED LUSH OR BELOW GRADE.
- INVERT ELEVATIONS OF CULVERTS MUST MATCH ELEVATIONS OF SWALE CENTER.
- REFER TO GEOTECHNICAL REPORT TO CONFIRM SUBGRADE AND BASE REQUIREMENTS OF TRAIL WORKS. A MINIMUM OF 300mm DEPTH 3/4 CRUSHER RUN LIMESTONE OR APPROVE EQUAL COMPACTED TO 98% S.P.D. IS REQUIRED FOR CULVERT INSTALLATION.
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

2					
1			APRD		DATE
#	REVISIONS				

**VAUGHAN**

MULTI-USE RECREATIONAL TRAIL  
TRAIL CULVERT

DRAWN: PP APPROVED: MT DRAWING NO. TLA 320  
SCALE: N.T.S. DATE: 25/08/20

3 TRAIL CULVERT  
L-500 Scale: NTS

### MULTI-USE RECREATIONAL TRAIL PAVEMENT MARKING

N.T.S.

NOTES:

- SHARED PATHWAY MARKINGS SET TO CONSIST OF WHITE COLOURED ARROW, BICYCLE, AND PEDESTRIAN SYMBOLS.
- CONTRACTOR TO PREMARK ALL PAVEMENT MARKING LOCATIONS ALONG TRAIL FOR APPROVAL BY THE CITY.
- ALL PAVEMENT MARKINGS TO BE DURABLE PAVEMENT MARKINGS - FIELD REACTED POLYMERIC PAVEMENT MARKING MATERIAL AS PER OPSS 710.05.04. FIELD REACTED POLYMERIC PAVEMENT MARKING MATERIALS SHALL CONFORM TO OPSS 1714.
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

7					
6					
5					
4					
3					
2					
1					
#	REVISIONS				

**VAUGHAN**

MULTI-USE RECREATIONAL TRAIL  
PAVEMENT MARKING

DRAWN: PP APPROVED: MT DRAWING NO. TLA 200  
SCALE: N.T.S. DATE: 25/08/20

4 PAVEMENT MARKING  
L-500 Scale: NTS

### TRAIL SIGN POST & INSTALLATION

N.T.S.

NOTES:

- MOUNTING:
  - ALL SIGNAGE TO BE MOUNT PERPENDICULAR TO THE DIRECTION OF TRAVEL UNLESS SPECIFIED OTHERWISE.
  - SIGNAGE TO BE MOUNTED TO A 44 mm TELESPAR ARE TO BE FASTENED WITH A MINIMUM OF TWO (2) 5/16" TAMPER-PROOF GALVANIZED BOLTS.
  - SIGNAGE TO BE MOUNTED TO UTILITY POLE ARE TO BE FASTENED WITH STAINLESS STEEL OR GALVANIZED HOSE CLAMP (COMPLETE WITH BRACKETS).
  - SHOULD MULTIPLE SIGNS ARE TO BE MOUNTED ON ONE POLE, THE LARGER SIGN SHALL BE MOUNTED ON THE TOP.
  - SHOULD MULTIPLE SIGNS BE MOUNTED AND THE MAX. POLE HEIGHT OF 2500 MM IS REACHED, SIGNS ARE TO BE MOUNTED BELOW THE TYPICAL HEIGHT OF 1800 mm.
- POST LOCATION:
  - WARNING POSTS TO BE LOCATED A MINIMUM OF 5.0 METERS BEFORE POINT OF CAUTION (E.G. TRAIL NARROWS OR STEEP SLOPE (GREATER THAN 10%).
  - AVOID LOCATING POSTS NEXT TO TREES.
  - VEGETATION OR OTHER VISUAL OBSTRUCTIONS.
  - FINAL LOCATIONS & ORIENTATION TO BE STAKED OUT AND CONFIRMED ON SITE AT THE APPROVAL OF THE CITY PRIOR TO INSTALLATION.
- ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

7					
6					
5					
4					
3					
2					
1					
#	REVISIONS				

**VAUGHAN**

MULTI-USE RECREATIONAL TRAIL  
TRAIL SIGN POST & INSTALLATION

DRAWN: PP APPROVED: MT DRAWING NO. TLA 500  
SCALE: N.T.S. DATE: 25/08/20

5 TRAIL SIGN POST & INSTALLATION  
L-500 Scale: NTS

### KEY MAP

LEGEND

BENCHMARK INFORMATION  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK NO. XXXXXXXXXX, ELEVATION = XXX.XX

SURVEY - DRAWING REF #: XXX-XXX-XX-XXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO	DATE	REVISION/ISSUED	BY	APPD

**WSP** Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
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CLIENT:  
**CITY OF VAUGHAN**  
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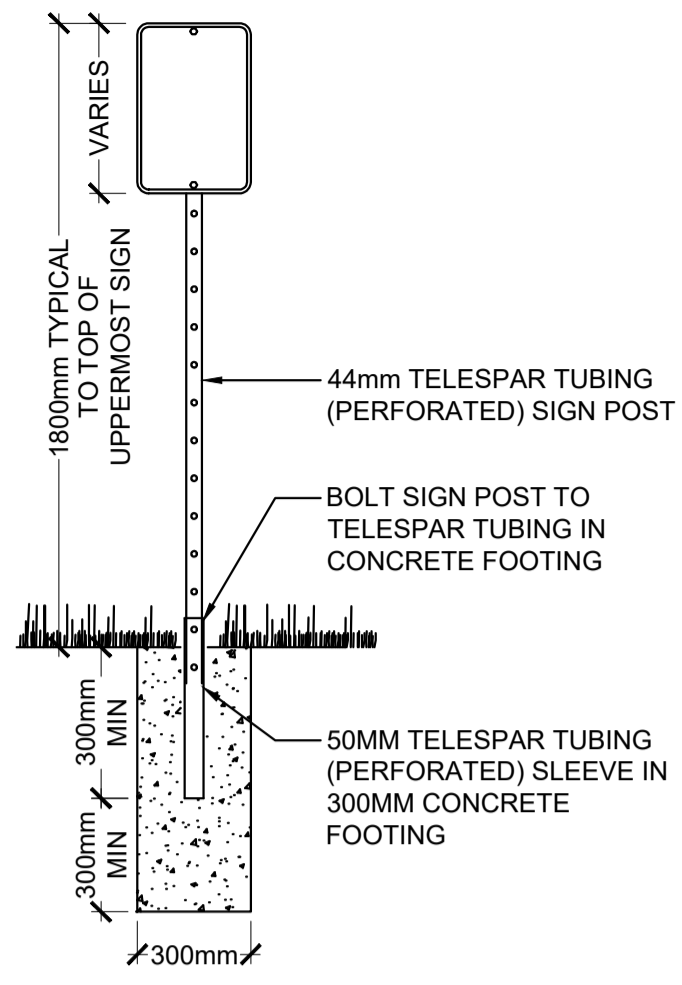
PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT

SITE ADDRESS:  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**DETAILS**

STAMP

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	NA	DATE	DEC 10 2021	DWG. NUMBER	L-500
PROJECT NUMBER	211-07301-00				

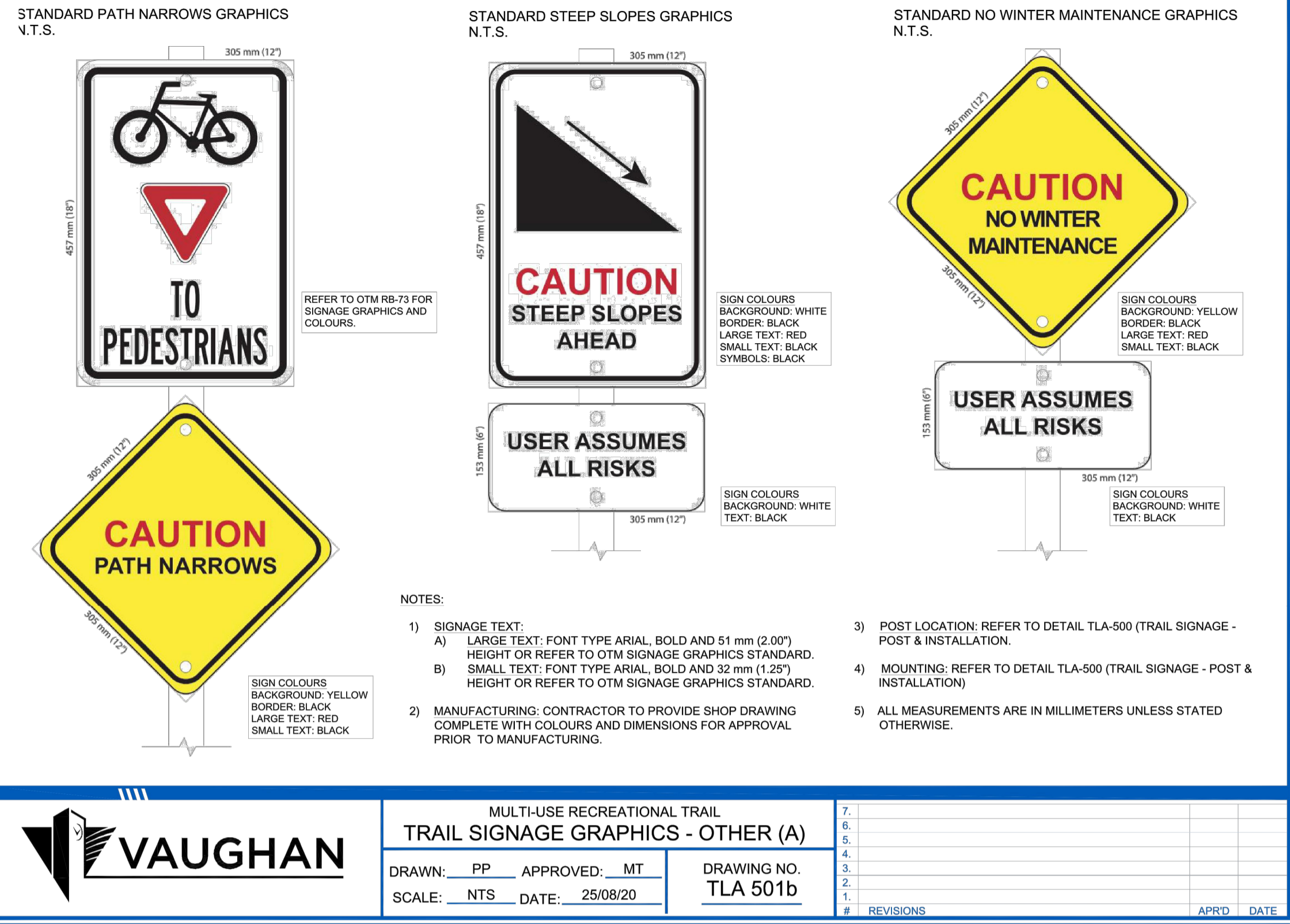


- NOTE:
- WHERE 2 OR MORE SIGNS ARE LOCATED, SIGNS SHALL BE STACKED VERTICALLY.
  - SIGNS SHALL BE PLACED A MINIMUM OF 0.6m OFF OF TRAIL EDGE
  - HEIGHT TO TOP OF UPPERMOST SIGN TO BE CONSISTENT THROUGHOUT TRAIL. TYPICAL HEIGHT OF 1800mm IS RELATIVE TO THE TRAIL SURFACE.

SIGNAGE FACE STANDARD ENGINEERING GRADE SHEETING HOLES - METRO PUNCH MOUNTING THE SIGN FACE MUST BE SECURED TO A POST WITH TWO GALVANIZED 12MM HEX BOLTS AND NUTS WITH FLAT WASHERS ON BOTH SIDES

1 MINOR WAYFINDING SIGNAGE L-501

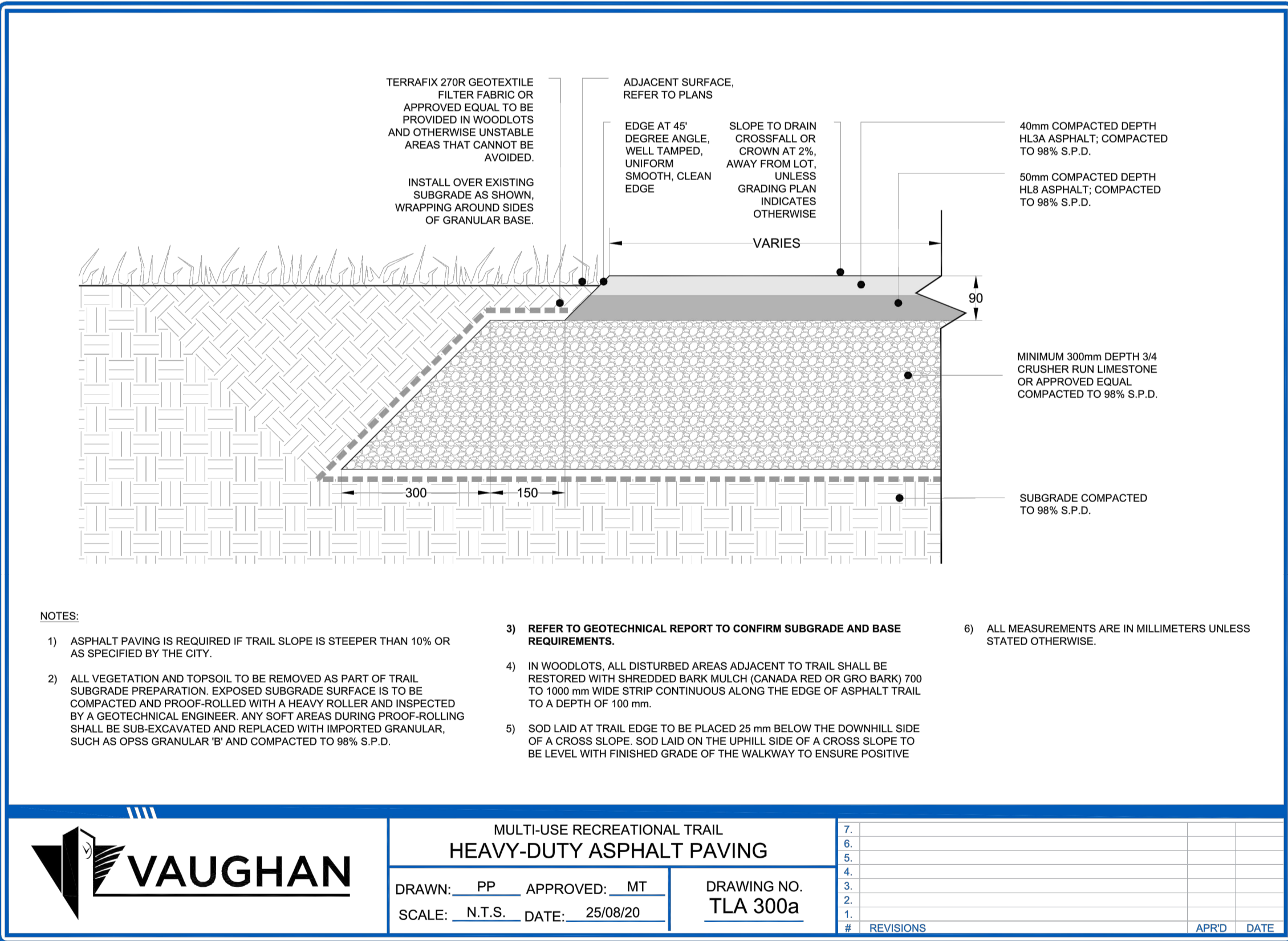
Scale: NTS



- NOTES:
- SIGNAGE TEXT: A) LARGE TEXT: FONT TYPE ARIAL, BOLD AND 51 mm (2.00") HEIGHT OR REFER TO OTM SIGNAGE GRAPHICS STANDARD. B) SMALL TEXT: FONT TYPE ARIAL, BOLD AND 32 mm (1.25") HEIGHT OR REFER TO OTM SIGNAGE GRAPHICS STANDARD.
  - MANUFACTURING: CONTRACTOR TO PROVIDE SHOP DRAWING COMPLETE WITH COLOURS AND DIMENSIONS FOR APPROVAL PRIOR TO MANUFACTURING.
  - POST LOCATION: REFER TO DETAIL TLA-500 (TRAIL SIGNAGE - POST & INSTALLATION).
  - MOUNTING: REFER TO DETAIL TLA-500 (TRAIL SIGNAGE - POST & INSTALLATION)
  - ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

2 TRAIL SIGNAGE GRAPHICS - OTHER (A) L-501

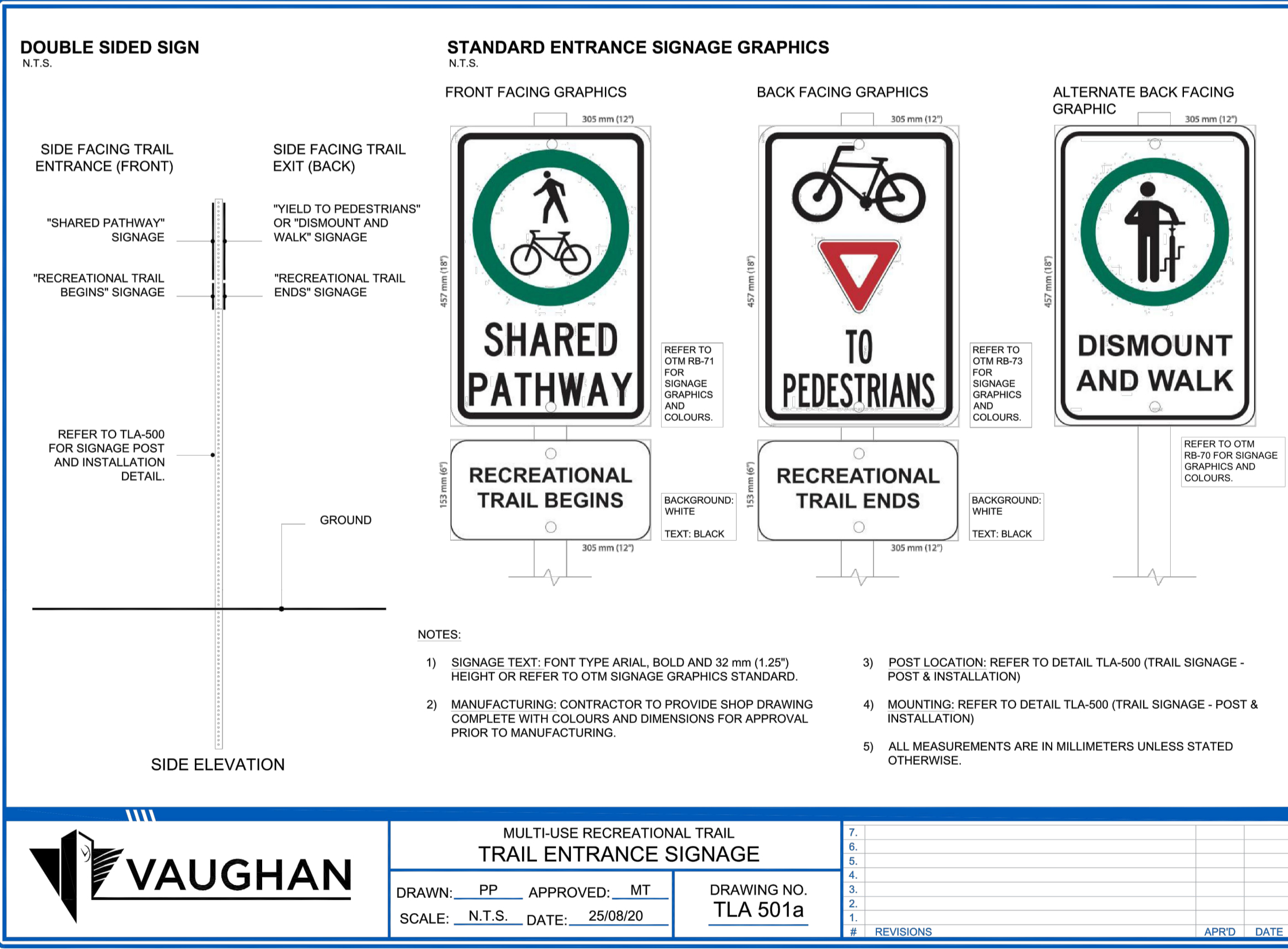
Scale: NTS



- NOTES:
- ASPHALT PAVING IS REQUIRED IF TRAIL SLOPE IS STEEPER THAN 10% OR AS SPECIFIED BY THE CITY.
  - ALL VEGETATION AND TOPSOIL TO BE REMOVED AS PART OF TRAIL SUBGRADE PREPARATION. EXPOSED SUBGRADE SURFACE IS TO BE COMPACTED AND PROOF-ROLLED WITH A HEAVY ROLLER AND INSPECTED BY A GEOTECHNICAL ENGINEER. ANY SOFT AREAS DURING PROOF-ROLLING SHALL BE SUB-EXCAVATED AND REPLACED WITH IMPORTED GRANULAR, SUCH AS OPSS GRANULAR 'B' AND COMPACTED TO 98% S.P.D.
  - REFER TO GEOTECHNICAL REPORT TO CONFIRM SUBGRADE AND BASE REQUIREMENTS.
  - IN WOODLOTS, ALL DISTURBED AREAS ADJACENT TO TRAIL SHALL BE RESTORED WITH SHREDDED BARK MULCH (CANADA RED OR GRO BARK) 700 TO 1000 mm WIDE STRIP CONTINUOUS ALONG THE EDGE OF ASPHALT TRAIL TO A DEPTH OF 100 mm.
  - SOD LAID AT TRAIL EDGE TO BE PLACED 25 mm BELOW THE DOWNHILL SIDE OF A CROSS SLOPE. SOD LAID ON THE UPHILL SIDE OF A CROSS SLOPE TO BE LEVEL WITH FINISHED GRADE OF THE WALKWAY TO ENSURE POSITIVE DRAINAGE.
  - ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

3 HEAVY-DUTY ASPHALT PAVING L-501

Scale: NTS



- NOTES:
- SIGNAGE TEXT: FONT TYPE ARIAL, BOLD AND 32 mm (1.25") HEIGHT OR REFER TO OTM SIGNAGE GRAPHICS STANDARD.
  - MANUFACTURING: CONTRACTOR TO PROVIDE SHOP DRAWING COMPLETE WITH COLOURS AND DIMENSIONS FOR APPROVAL PRIOR TO MANUFACTURING.
  - POST LOCATION: REFER TO DETAIL TLA-500 (TRAIL SIGNAGE - POST & INSTALLATION)
  - MOUNTING: REFER TO DETAIL TLA-500 (TRAIL SIGNAGE - POST & INSTALLATION)
  - ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

4 TRAIL ENTRANCE SIGNAGE L-501

Scale: NTS

KEY MAP

LEGEND

BENCHMARK INFORMATION  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK No. XXXXXXXXXX. ELEVATION = XXX.XX  
SURVEY - DRAWING REF #: XXX-XXX-XX-XXX  
BY: DATE:

NO.	DATE	REVISION/ISSUED	BY	APPD

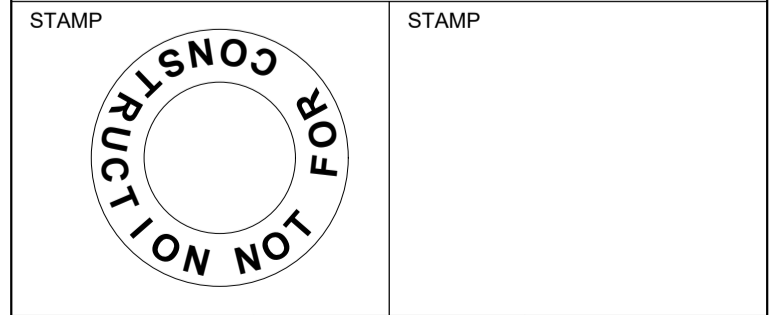
**WSP** Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
T. 519-743-8777  
www.wsp.com

CLIENT: CITY OF VAUGHAN  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE: BARTLEY SMITH GREENWAY TRAIL TRAIL ALIGNMENT

SITE ADDRESS: MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE: DETAILS



DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00	DWG. NUMBER	L-501		

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**SIGN COLOURS**  
BACKGROUND: WHITE  
BORDER: BLUE  
TEXT: BLUE  
SYMBOLS: BLACK / RED / GREEN

370 mm (14.5")  
560 mm (22")

**VAUGHAN**  
York Region  
Maximum Penalty \$5,000  
NO MOTORIZED VEHICLES  
NO GOLFING  
STOOP & SCOOP PET EXCREMENT  
PETS ON LEASH  
PARKS BY-LAW #134-95 MAXIMUM FINE \*\$2000.00  
INFORMATION 905-832-2281

NOTES:  
1) MANUFACTURING: CONTRACTOR TO PROVIDE SHOP DRAWING COMPLETE WITH COLOURS AND DIMENSIONS FOR APPROVAL PRIOR TO MANUFACTURING.  
2) POST LOCATION: REFER TO DETAIL TLA-500 (TRAIL SIGN POST & INSTALLATION)  
3) MOUNTING: REFER TO DETAIL TLA-500 (TRAIL SIGN POST & INSTALLATION)  
4) ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.

REVISIONS  
**VAUGHAN**  
PARK BY-LAW SIGNAGE GRAPHIC  
DRAWN: PP APPROVED: MT DRAWING NO. MLA 708  
SCALE: N.T.S. DATE: 25/08/20

1 PARK BY-LAW SIGNAGE GRAPHIC Scale: NTS

NOTE: ALL TREES NOT MEETING CITY OF VAUGHAN REQUIREMENTS WILL BE REMOVED AND REPLACED AT NO EXPENSE TO THE CITY.

DO NOT DAMAGE OR CUT LEADER BRANCH PRUNE DOMINANT LATERAL BRANCHES  
TWO PLY REINFORCED RUBBER HOSE  
2 - 2" x 2" WOOD STEAKS SECURED WITH #4 ALUMINUM WIRE; LOCATE STAKES AWAY FROM THE TRUNK, ONE ON SIDE OF PREVAILING WIND, THE OTHER AT THE OPPOSITE SIDE (FOR TREES 75mm IN CALIPER OR LESS) ANGLE STAKES 5 - 15 DEGREES  
100mm WOOD MULCH  
1800mm MIN. BRANCHING HEIGHT  
600mm MIN.  
600mm MIN.  
DRAIN PIPE 100mm DIA.; 450mm PLASTIC CORRUGATED  
150mm SPACE  
CROWN OF ROOT BALL  
SOD  
FINISH GRADE  
CLEAN SHARP EDGE BETWEEN SAUCER AND SOD / SEED  
CREATE SAUCER AROUND TREE  
AERATE AND SCARIFY SOIL SURROUNDING PLANTING PIT AND BASE OF PIT  
APPROVED SOIL MIXTURE  
CUT AND REMOVE TOP 1/3 OF BURLAP; REMOVE ALL SIDES OF WIRE BASKET AND ALL TIES  
SUBGRADE  
EXCAVATE 100mm DEPTH FOR MOUNDING INTO EXISTING SUBSOIL  
CREATE SAUCER AROUND TREE  
APPROVED SOIL MIXTURE  
FINISH GRADE  
SLOPE PIT BOTTOM FOR DRAINAGE  
SUBGRADE  
VARIES WITH SLOPE  
100mm

NOTES:  
1. Position crown of root ball 50mm above finish grade to allow for settling.  
2. Do corrective pruning to retain natural form of tree as directed by City Forestry Supervisor.  
3. Water all plant material sufficiently to maintain vigorous, healthy growth from time of delivery/ installation until the end of the specified guarantee period.  
4. Stake height shall be a minimum of 1.5 metres above finish grade.  
5. For trees planted within planting or shrub beds, delete saucer around base of tree.  
6. Remove all tree guards/ stakes 12 months after acceptance/ assumption or as specified.  
7. No tree pits shall be left open overnight.  
8. Do not allow air pockets when backfilling.  
9. All dimensions are in millimeters.

**VAUGHAN**  
DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION  
DECIDUOUS TREE PLANTING DETAIL FOR TREES UNDER 90mm IN CALIPER  
NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE GENERAL GUIDANCE AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS COUNTERSIGNED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.  
DRAWN & DESIGNED: URBAN DESIGN STD. DWG. NO. ULA 101  
NOT TO SCALE DATE: 03 / 01 / 2011

2 DECIDUOUS TREE PLANTING FOR TREES UNDER 90mm IN CALIPER Scale: NTS

NOTE: ALL TREES NOT MEETING CITY OF VAUGHAN REQUIREMENTS WILL BE REMOVED AND REPLACED AT NO EXPENSE TO THE CITY.

DO NOT DAMAGE OR CUT LEADER BRANCH  
TWO PLY REINFORCED RUBBER HOSE  
2 - 2" x 2" WOOD STEAKS SECURED WITH #4 ALUMINUM WIRE; LOCATE STAKES AWAY FROM THE TRUNK, ONE ON SIDE OF PREVAILING WIND, THE OTHER AT THE OPPOSITE SIDE; ANGLE STAKES 5 - 15°  
150mm SPACE  
CROWN OF ROOT BALL  
100mm WOOD MULCH  
CREATE SAUCER AROUND TREE  
CLEAN SHARP EDGE BETWEEN EDGE OF SAUCER AND SOD / SEED  
SOD / SEED  
FINISH GRADE  
AERATE AND SCARIFY SOIL SURROUNDING PLANTING PIT AND BASE OF PIT  
APPROVED SOIL MIXTURE  
CUT AND REMOVE 1/3 OF BURLAP; REMOVE ALL SIDES OF WIRE BASKET AND ALL TIES  
SUBGRADE  
EXCAVATE 100mm DEPTH MOUND FROM EXISTING SUBSOIL  
CREATE SAUCER AROUND TREE  
FINISH GRADE  
APPROVED SOIL MIXTURE  
VARIES WITH SLOPE  
100mm

NOTES:  
1. All dimensions are in millimeters.  
2. No tree pits shall be left open overnight.  
3. Do not allow air pockets when backfilling.  
4. Position crown of root ball 50mm above finish grade to allow for settling.  
5. Water all plant material sufficiently to maintain vigorous, healthy growth from time of delivery/ installation until the end of the specified guarantee period.  
6. For trees planted within planting or shrub beds, delete saucer around base of tree.  
7. Remove all tree guards/ stakes 12 months after acceptance/ assumption or as specified.

**VAUGHAN**  
DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION  
CONIFEROUS TREE PLANTING DETAIL FOR TREES 2500mm IN HEIGHT OR LESS  
NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE GENERAL GUIDANCE AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS COUNTERSIGNED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.  
DRAWN & DESIGNED: URBAN DESIGN STD. DWG. NO. ULA 103  
NOT TO SCALE DATE: 03 / 01 / 2011

3 CONIFEROUS TREE PLANTING FOR TREES 2500mm IN HEIGHT OR LESS Scale: NTS

Key	Qty.	Botanical Name	Common Name	Condition	Spacing	Spread
<b>Trees</b>						
<b>Deciduous</b>						
AG		Aesculus glabra	Ohio Buckeye	60mm Cal., W.B.	As Shown	10m
AS		Acer saccharum	Sugar Maple	60mm Cal., W.B.	As Shown	15m
ASC		Acer saccharinum	Silver Maple	60mm Cal., W.B.	As Shown	15m
AC		Amelanchier canadensis	Serviceberry	60mm Cal., W.B.	As Shown	4m
BP		Betula papyrifera	Paper Birch	60mm Cal., W.B.	As Shown	12m
CC		Carya cordiformis	Bitternut Hickory	60mm Cal., W.B.	As Shown	15m
CO		Celtis occidentalis	Hackberry	60mm Cal., W.B.	As Shown	18m
FG		Fagus grandifolia	American Beech	60mm Cal., W.B.	As Shown	20m
GT		Gleditsia tricanthos var. inermis Skyline ('Skycole')		60mm Cal., W.B.	As Shown	
QR		Quercus rubra	Red Oak	60mm Cal., W.B.	As Shown	15m
QM		Quercus macrocarpa	Burr Oak	60mm Cal., W.B.	As Shown	13m
<b>Coniferous</b>						
PG		Picea glauca	White Spruce	200cm Tall, W.B.	As Shown	6m
PS		Pinus strobus	Eastern White Pine	200cm Tall, W.B.	As Shown	7m

Note: Plant Quantities Indicated on the Planting Plan will Supercede the Quantities Listed Above.

4 TYPE 1 - LIGHT BUFR ENHANCEMENT PLANTING LIST Scale: NTS

Key	Qty.	Botanical Name	Common Name	Condition	Spacing	Spread
<b>Trees</b>						
<b>Deciduous</b>						
ASC		Acer saccharinum	Silver Maple	60mm Cal., W.B.	As Shown	
JN		Juglans nigra	Black Walnut	250cm, 15 gal	As Shown	16m
QR		Quercus rubrum	Red Oak	60mm Cal., W.B.	As Shown	
<b>Coniferous</b>						
TO		Thuja occidentalis	Eastern White Cedar	200cm Tall, W.B.	As Shown	3m
<b>Shrubs</b>						
<b>Deciduous</b>						
cr		Cornus racemosa	Gray Dogwood	3gal, 60cm	As Shown	3m
sb		Salix bebbiana	Beaked Willow	3gal, 60cm	As Shown	9m
li		Lonicera involucrata	Black Twinstem	3gal, 60cm	As Shown	2m
ra		Rhus aromatica	Fragrant Sumac	3 gal, 60cm	As Shown	2.0m
ri		Rubus idaeus	Wild Red Raspberry	3gal, 60cm	As Shown	1.7m
roc		Rubus occidentalis	Black Raspberry	3gal, 60cm	As Shown	2.5m
ro		Rubus odoratus	Flowering Raspberry	3gal, 60cm	As Shown	1.5m
va		Viburnum acerifolium	Maple Leaf Viburnum	3gal, 60cm	As Shown	1m

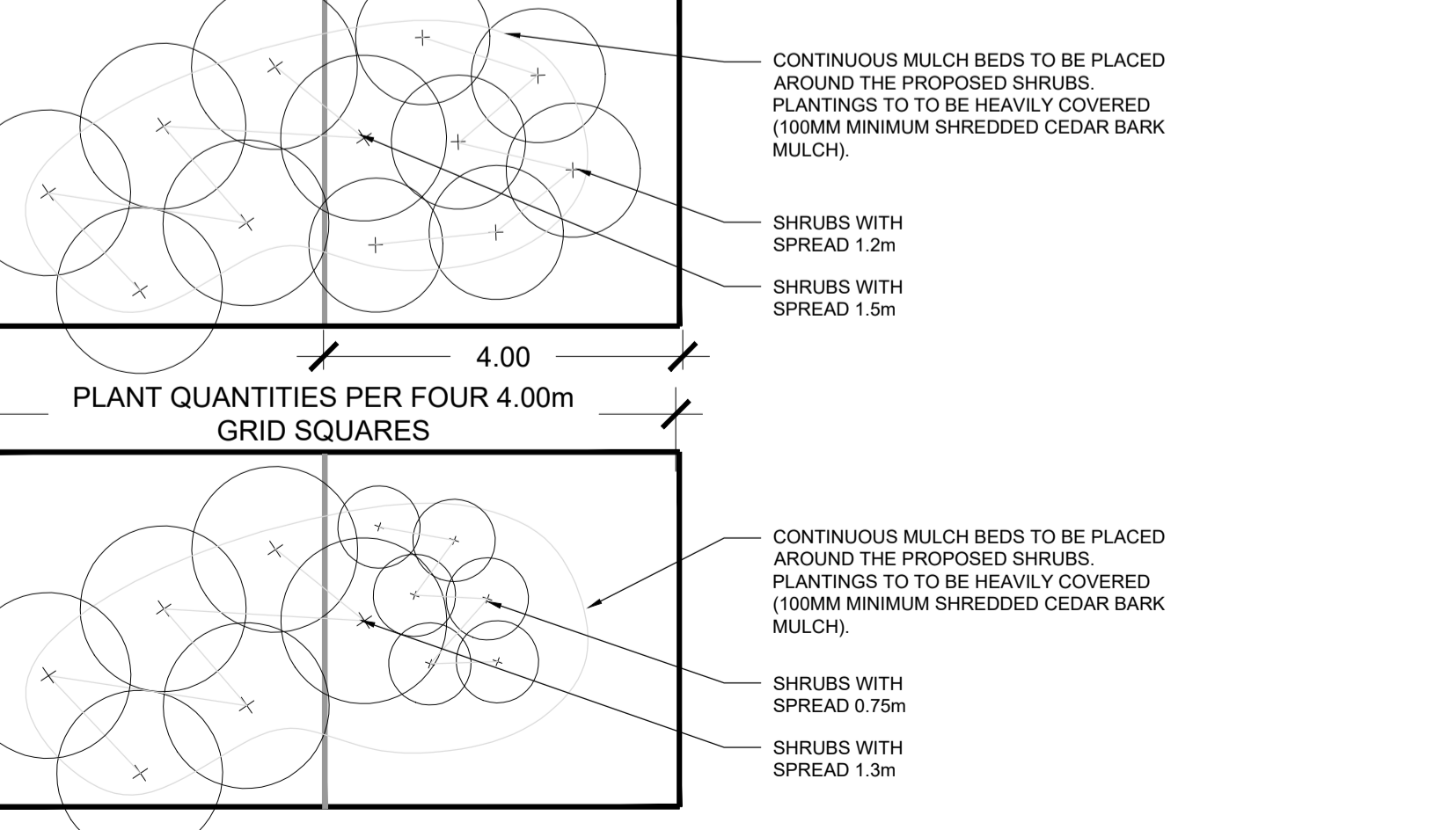
Note: Plant Quantities Indicated on the Planting Plan will Supercede the Quantities Listed Above.

7 TYPE 4 - RIVER VALLEY BUFFER ENHANCEMENT PLANTING Scale: NTS

Key	Qty.	Botanical Name	Common Name	Condition	Spacing	Spread
<b>Shrubs</b>						
<b>Deciduous</b>						
cs		Cornus sericea	Red Osier Dogwood	3gal, 60cm	As Shown	2.5m
po		Physocarpus opulifolius	Common Ninebark	3 gal, 60cm	As Shown	2.0m
rt		Rhus typhina	Staghorn Sumac	3gal, 60cm	As Shown	2.5m
rp		Rosa palustris	Swamp Rose	3 gal, 60cm	As Shown	1.75m
sa		Symphoricarpos albus	Snowberry	3gal, 60cm	As Shown	1.25m
sc		Sambucus canadensis	American Black Elderberry	3gal, 60cm	As Shown	2.0m
va		Viburnum acerifolium	Maple Leaf Viburnum	3gal, 60cm	As Shown	1m
<b>Coniferous</b>						
tc		Taxus canadensis	Canadian Yew	3gal, 60cm	As Shown	2m

Note: Plant Quantities Indicated on the Planting Plan will Supercede the Quantities Listed Above.

5 TYPE 2 - MEDIUM BUFFER ENHANCEMENT PLANTING Scale: NTS



8 PLANTING SCHEMATIC - BUFFER ENHANCEMENT Scale: NTS

Key	Qty.	Botanical Name	Common Name	Condition	Spacing	Spread
<b>Trees</b>						
<b>Deciduous</b>						
AS		Acer saccharum	Sugar Maple	60mm Cal., W.B.	As Shown	15m
ASC		Acer saccharinum	Silver Maple	60mm Cal., W.B.	As Shown	15m
CO		Celtis occidentalis	Hackberry	60mm Cal., W.B.	As Shown	18m
OV		Ostrya virginiana	Ironwood	60mm Cal., W.B.	As Shown	7m
QR		Quercus rubra	Red Oak	60mm Cal., W.B.	As Shown	15m
QM		Quercus macrocarpa	Burr Oak	60mm Cal., W.B.	As Shown	13m
<b>Coniferous</b>						
AB		Abies balsamea	Balsam Fir	200cm Tall, W.B.	As Shown	8m
JV		Juniperus virginiana	Eastern Red Cedar	200cm Tall, W.B.	As Shown	2m
PG		Picea glauca	White Spruce	200cm Tall, W.B.	As Shown	6m
PS		Pinus strobus	Eastern White Pine	200cm Tall, W.B.	As Shown	7m
TO		Thuja occidentalis	Eastern White Cedar	200cm Tall, W.B.	As Shown	3m
<b>Shrubs</b>						
<b>Deciduous</b>						
co		Cornus alternifolia	Pagoda Dogwood	BBC 150cm	As Shown	7m
cs		Cornus sericea	Red-Osier Dogwood	3 gal, 60cm	As Shown	2m
po		Physocarpus opulifolius	Common Ninebark	3 gal, 60cm	As Shown	2.0m
rp		Rosa palustris	Swamp Rose	3 gal, 60cm	As Shown	1.75m
sa		Symphoricarpos albus	Snowberry	3gal, 60cm	As Shown	1.25m
<b>Coniferous</b>						
tc		Taxus canadensis	Canadian Yew	3 gal, 60cm	As Shown	2m

Note: Plant Quantities Indicated on the Planting Plan will Supercede the Quantities Listed Above.

6 TYPE 3 - ROBUST BUFFER ENHANCEMENT PLANTING Scale: NTS

KEY MAP

LEGEND

BENCHMARK INFORMATION  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK NO. XXXXXXXXXX, ELEVATION = XXX.XX  
SURVEY - DRAWING REF #: XXX-XXX-XX-XXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO.	DATE	REVISION/ISSUED	BY	APPD

**wsp** Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
1.519-743-8777  
www.wsp.com

CLIENT: CITY OF VAUGHAN  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

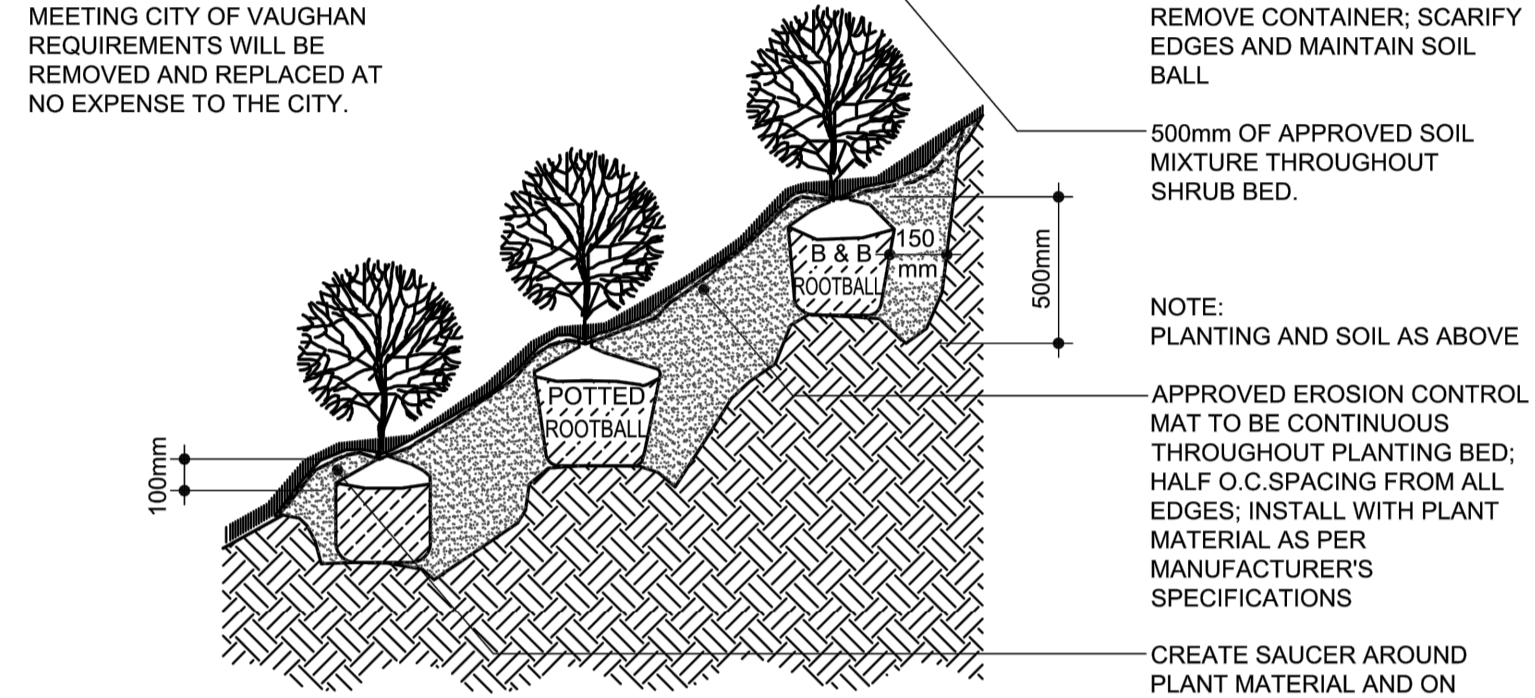
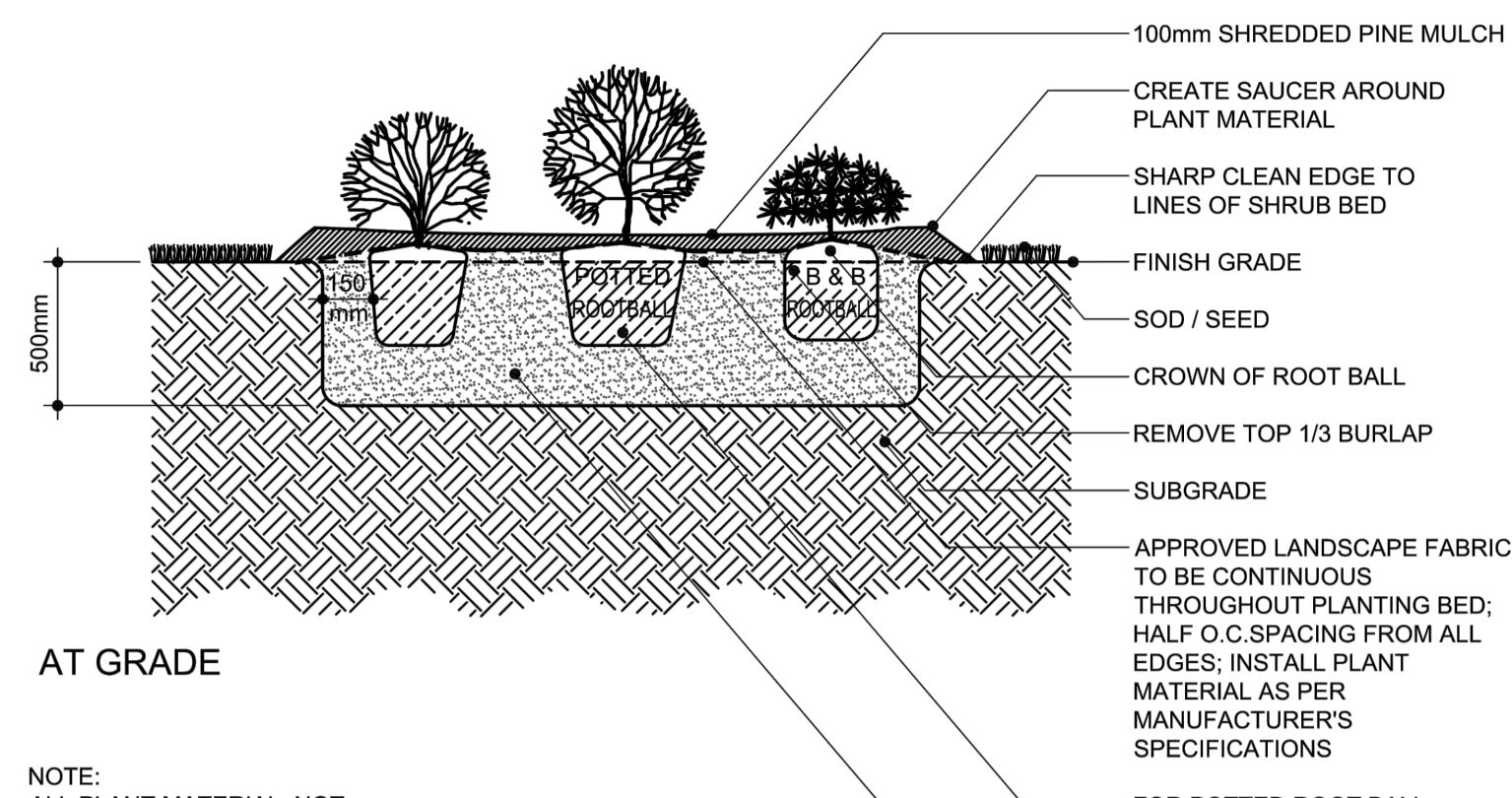
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SITE ADDRESS: MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE: DETAILS

STAMP: CONTROL NOT FOR CONSTRUCTION

DESIGNED WL DRAWN WL CHECKED BV  
SCALE NA DATE DEC 10 2021  
PROJECT NUMBER 211-07301-00 DWG. NUMBER L-502



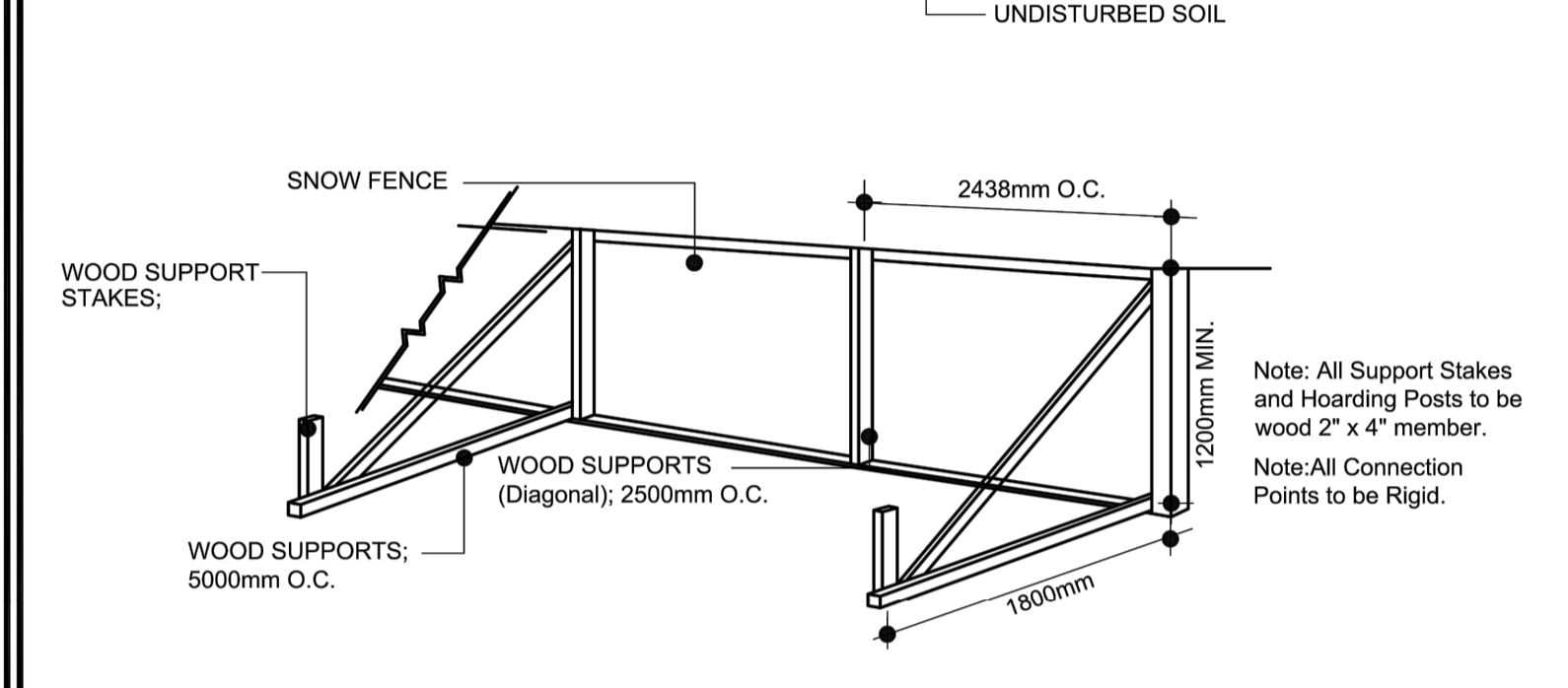
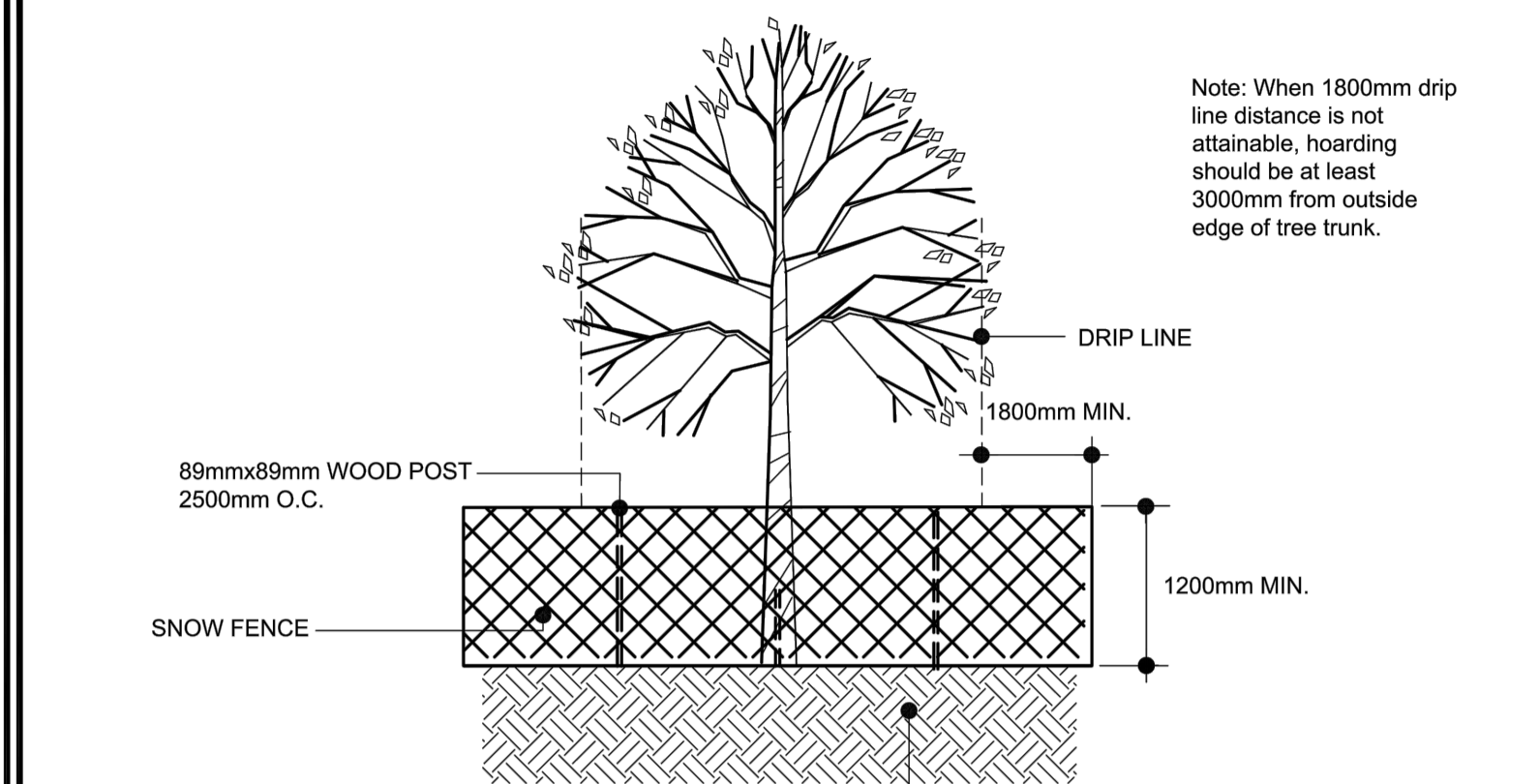
- NOTES:**
1. All dimensions are in millimeters.
  2. Do not allow air pockets when backfilling.
  3. Position crown of root ball 50mm above finish grade to allow for settling.
  4. For bare root planting.
  5. Water all plant material sufficiently to maintain vigorous, healthy growth from time of delivery/ installation until the end of the specified guarantee period.

**VAUGHAN**  
DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION

**SHRUB PLANTING DETAIL**

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN     STD. DWG. NO.  
NOT TO SCALE     DATE: 03/01/2011     ULA 105



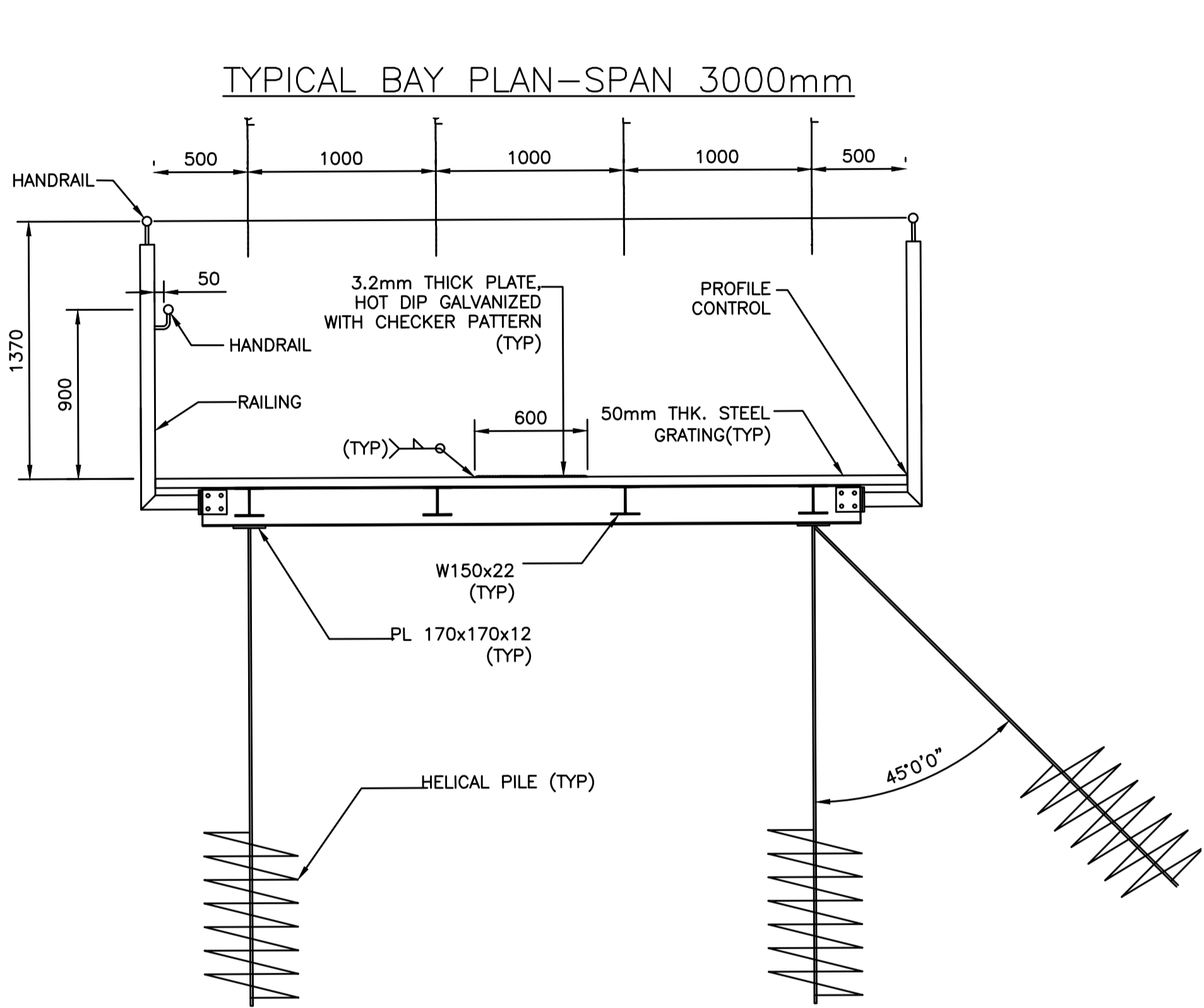
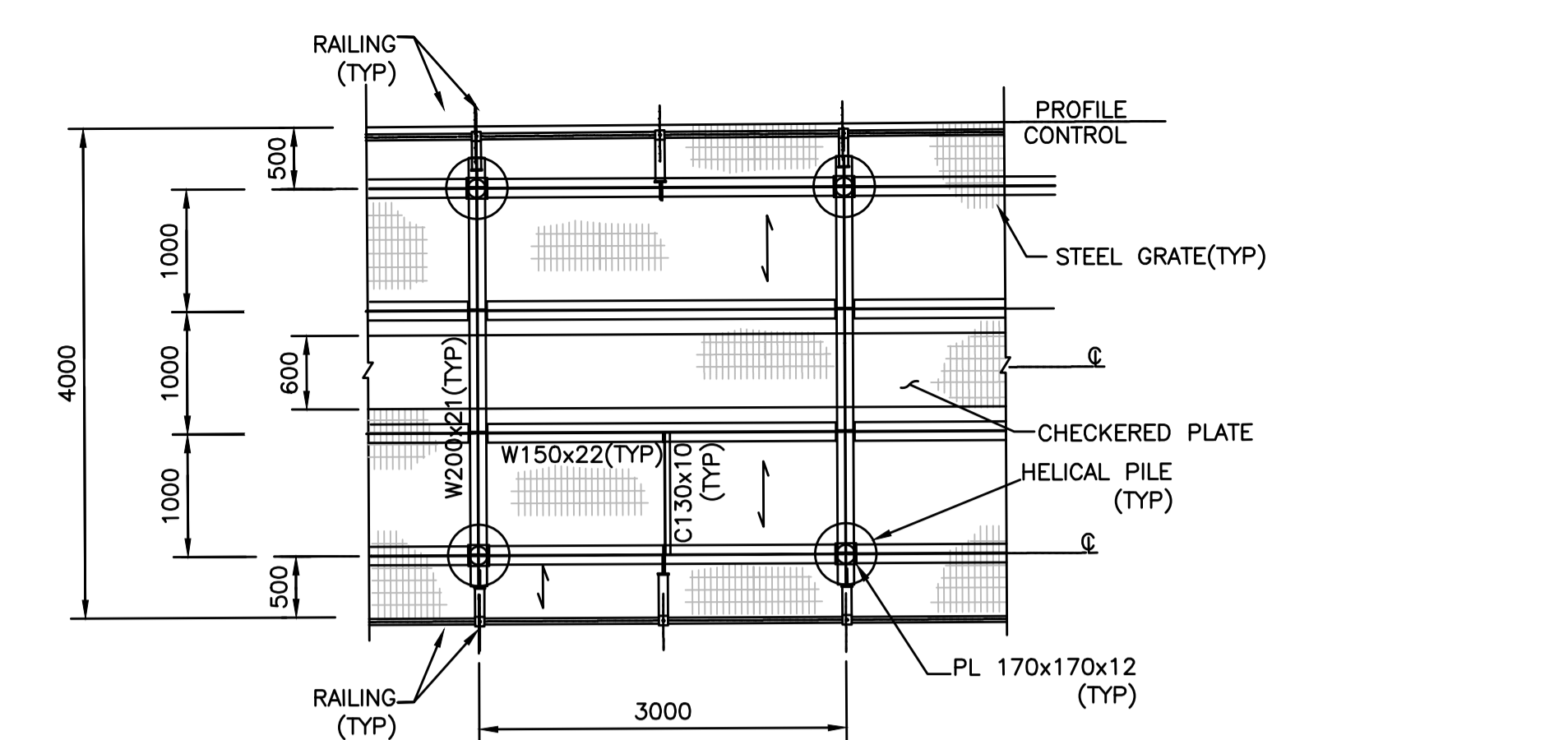
- NOTES:**
1. Attachment of fence to trees to be preserved is not allowed.
  2. Ensure fence is continuous and is located beyond the drip line of trees to be preserved.
  3. Fencing to be installed prior to start of construction.
  4. All supports and bracing should be inside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
  5. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

**VAUGHAN**  
DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION

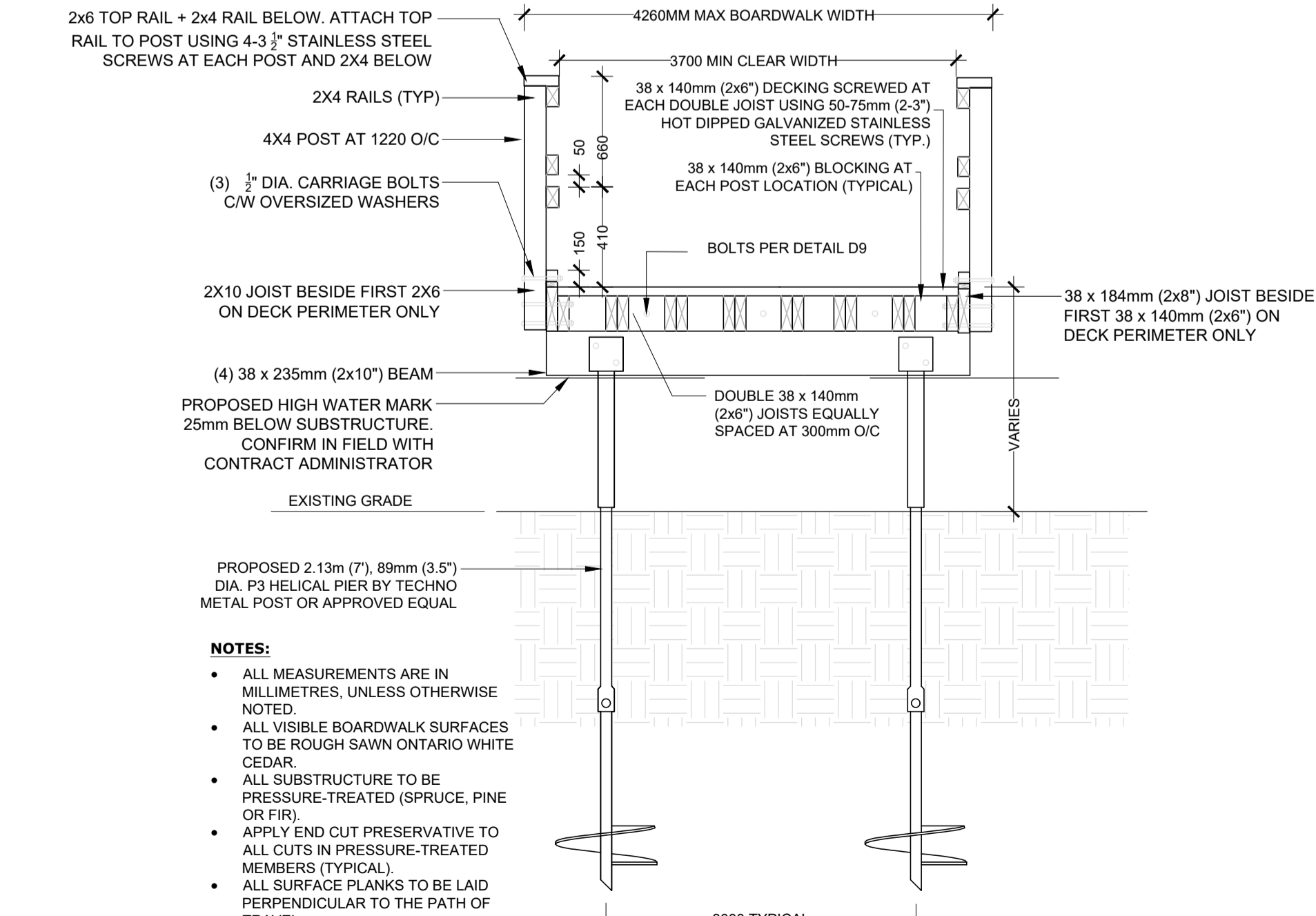
**LIGHT DUTY TREE HOARDING PROTECTION DETAIL (SNOW FENCE)**

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN     STD. DWG. NO.  
NOT TO SCALE     DATE: 04/07/2016     ULA 110B



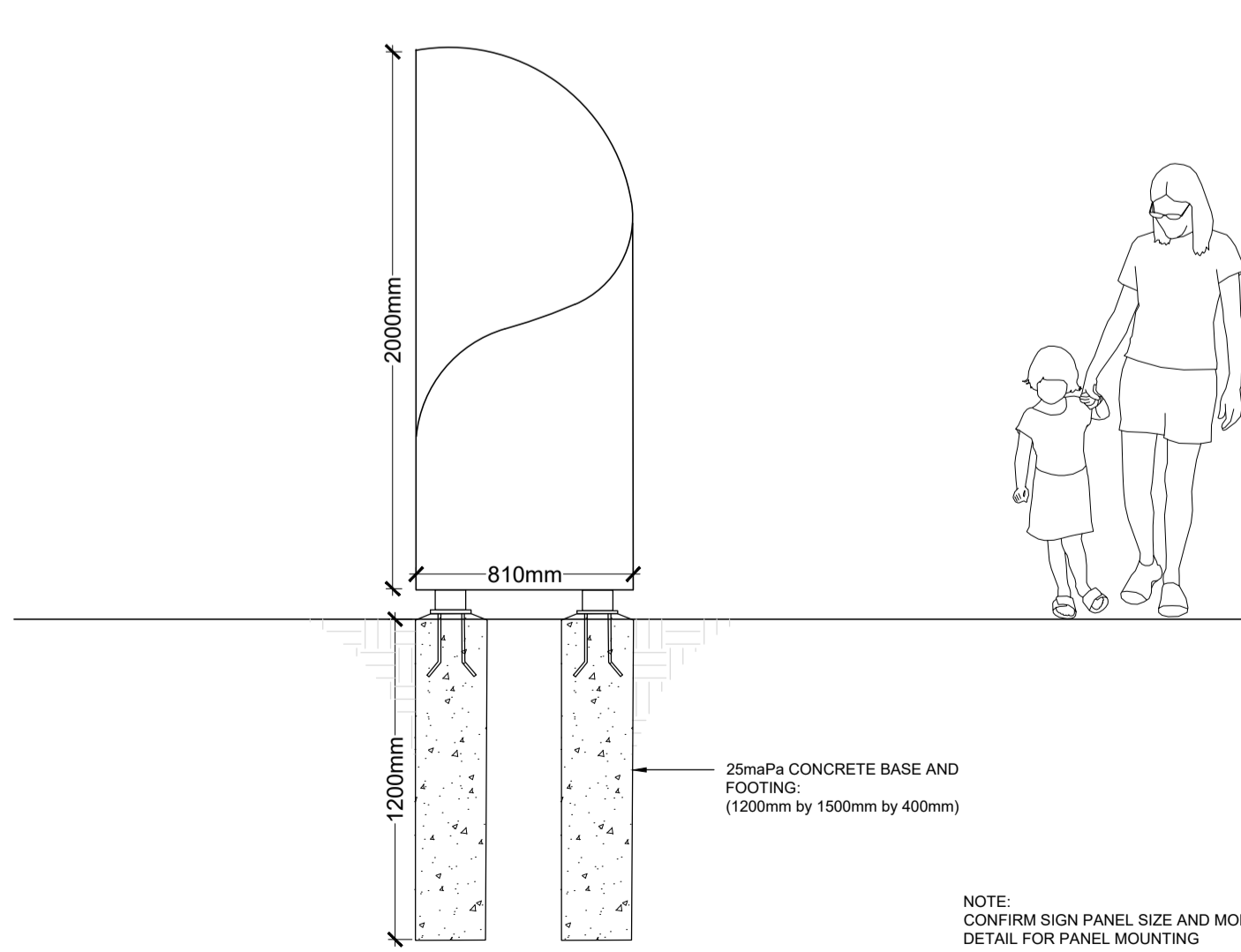
**3 METAL BOARDWALK - ALTERNATE DETAIL**     Scale: N.T.S.



**5 RAISED WOODEN BOARDWALK WITH EDGE PROTECTION - SECTION**     Scale: N.T.S.

**1 SHRUB PLANTING DETAIL**     Scale: NTS

**2 LIGHT DUTY TREE HOARDING PROTECTION DETAIL (SNOW FENCE)**     Scale: NTS



**4 MAJOR WAYFINDING DETAIL**     Scale: N.T.S.

KEY MAP

LEGEND

**BENCHMARK INFORMATION**  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK No. XXXXXXXXXX, ELEVATION = XXX.XX  
SURVEY - DRAWING REF #: XXX-XXX-XX-XXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO	DATE	REVISION/ISSUED	BY	APPD

**WSP** Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
1.519.743.8777  
www.wsp.com

CLIENT:  
**CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL TRAIL ALIGNMENT**

SITE ADDRESS:  
**MCAUGHTON RD. & MAJOR MACKENZIE DR.**

DRAWING TITLE:  
**DETAILS**

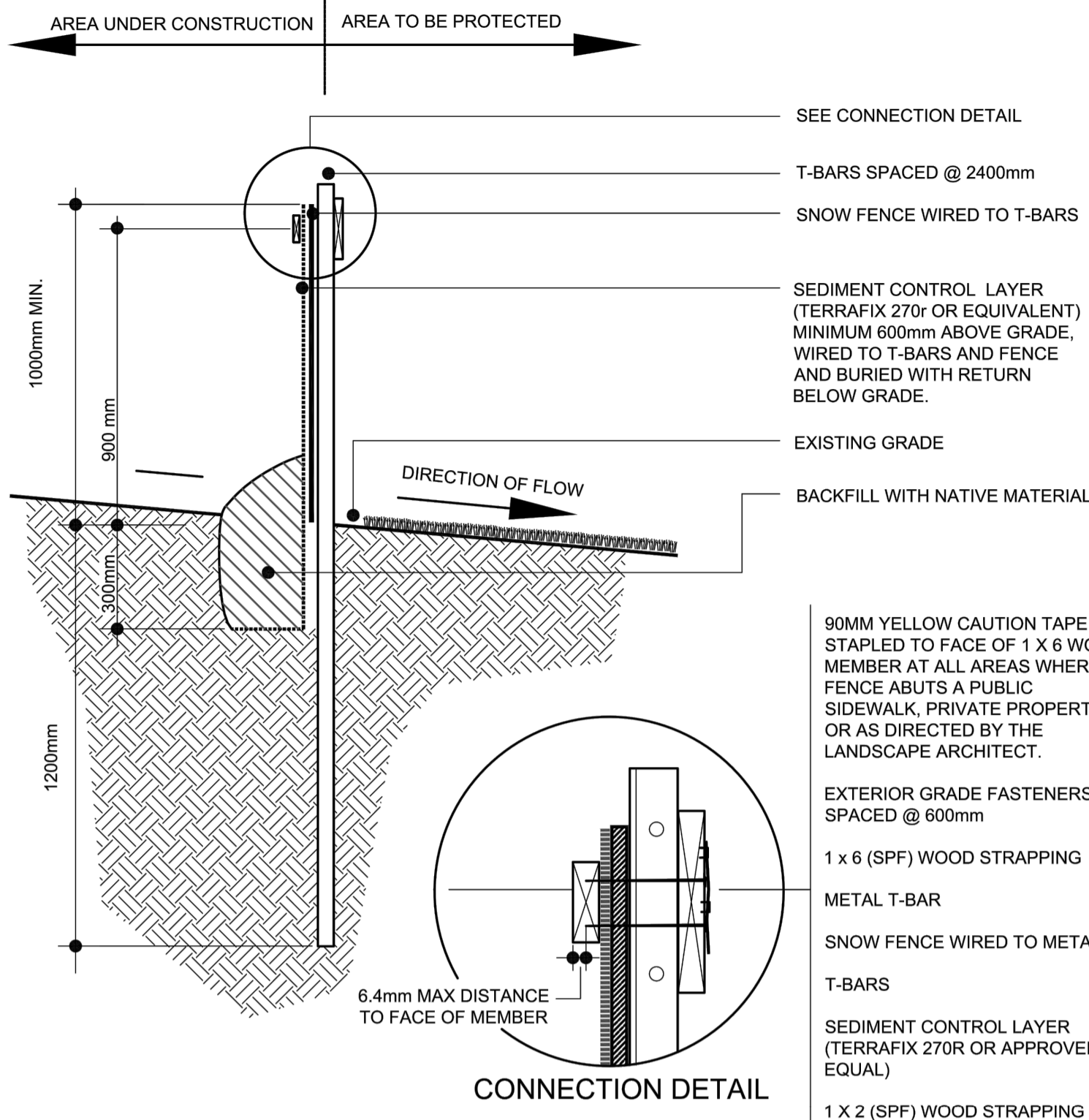
STAMP

STAMP

DESIGNED: WL     DRAWN: WL     CHECKED: BV

SCALE: NA     DATE: DEC 10 2021

PROJECT NUMBER: 211-07301-00     DWG. NUMBER: L-503



- NOTES:
1. SEDIMENT CONTROL FABRIC TO HAVE HORIZONTAL OVERLAP OF 1000mm @ ALL JOINTS
  2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION AND COST OF REPLACING ALL AREAS AND MATERIAL AFFECTED BY THE EXCAVATION FOR THE SEDIMENT CONTROL FENCE.
  3. ALL FASTENERS ARE TO BE FLUSH WITH FACE OF MEMBERS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO GRIND OR REMOVE ALL FASTENERS THAT PROJECT THROUGH FACE OF MEMBERS
  4. ALL DIMENSIONS SHOWN IN MILLIMETERS

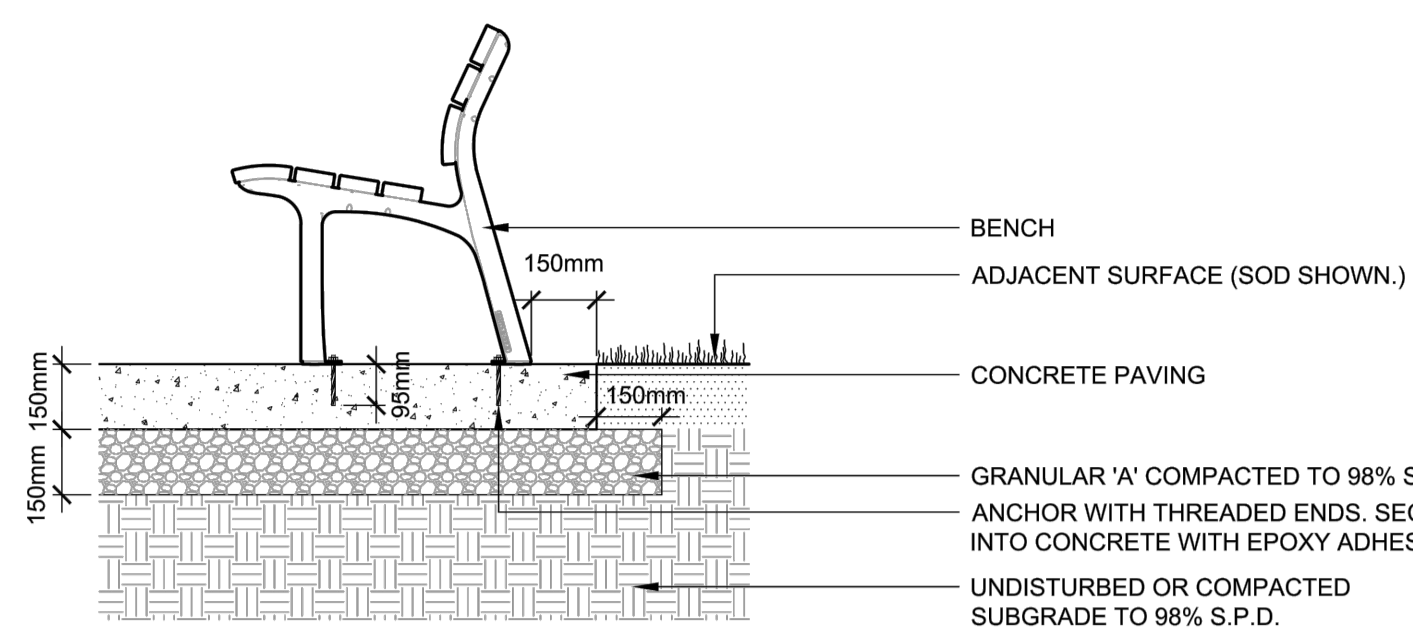
**SEDIMENT CONTROL CONSTRUCTION FENCING DETAIL**

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN	STD. DWG. NO. ULA 111
NOT TO SCALE	DATE: 03 / 01 / 2011

1 SEDIMENT CONTROL CONSTRUCTION FENCING DETAIL

L-504 Scale: NTS



- NOTES:
1. THIS TYPICAL DETAIL IS INTENDED TO CONVEY INTENT AND IS FOR REFERENCE ONLY. IT SHALL NOT BE USED AS PART OF THE CONSTRUCTION DRAWING PACKAGE OR SITE PLAN APPLICATION.
  2. BENCH: NEOLIVIANO BY LANDSCAPE FORMS. ALUMINUM FINISH WITH JARAH WOOD OR APPROVED EQUIVALENT.
  3. INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS

**FURNISHING - BENCH**

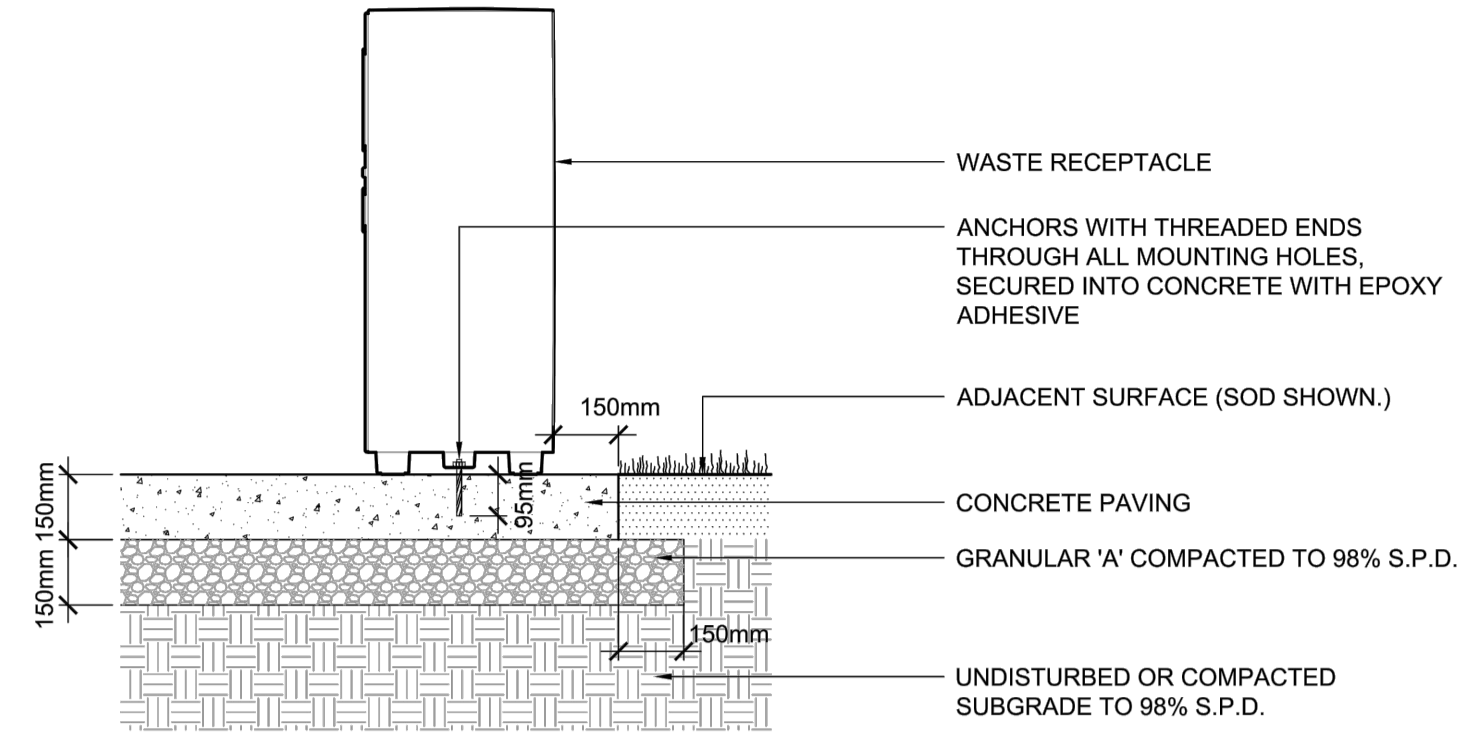
NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN	STD. DWG. NO. ULA 016
NOT TO SCALE	DATE: _____

2 FURNISHING - BENCH

L-504

Scale: NTS



- NOTES:
1. THIS TYPICAL DETAIL IS INTENDED TO CONVEY INTENT AND IS FOR REFERENCE ONLY. IT SHALL NOT BE USED AS PART OF THE CONSTRUCTION DRAWING PACKAGE OR SITE PLAN APPLICATION.
  2. WASTE RECEPTACLE: SELECT LITTER RECEPTACLE BY LANDSCAPE FORMS, TRIPLE UNIT, SOLID BODY, PERFORATED DOORS. COLOURS - POWDERCOATED SILVER, BLACK FOR TRIM RING AND SIGNAGE PLATE, OR APPROVED EQUIVALENT.
  3. INSTALLATION PER MANUFACTURER'S WRITTEN INSTRUCTIONS
  4. DETAIL NOT TO BE USED UNLESS REVIEWED, STAMPED AND CERTIFIED BY REGISTERED LANDSCAPE ARCHITECT.

**FURNISHING - WASTE RECEPTACLE**

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

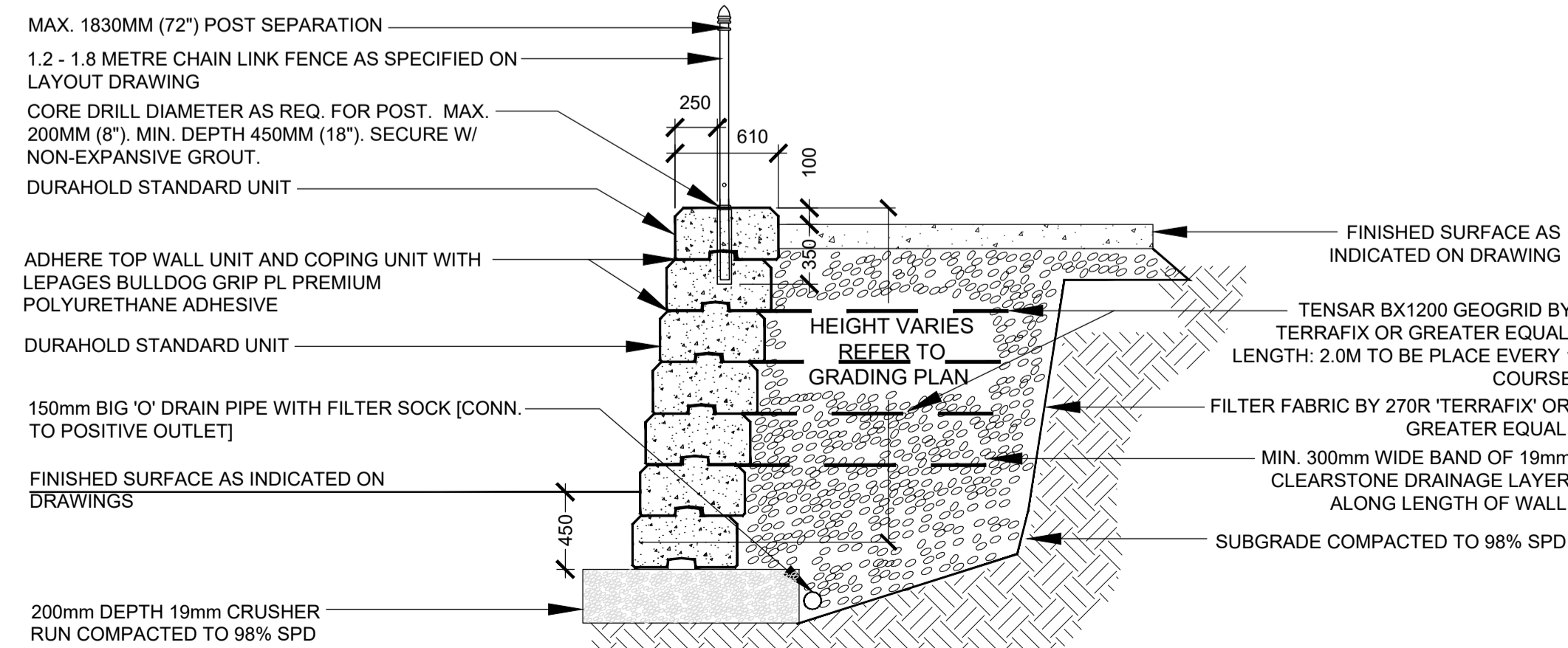
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NOT TO SCALE	DATE: _____

3 FURNISHING - WASTE RECEPTACLE

L-504

Scale: NTS

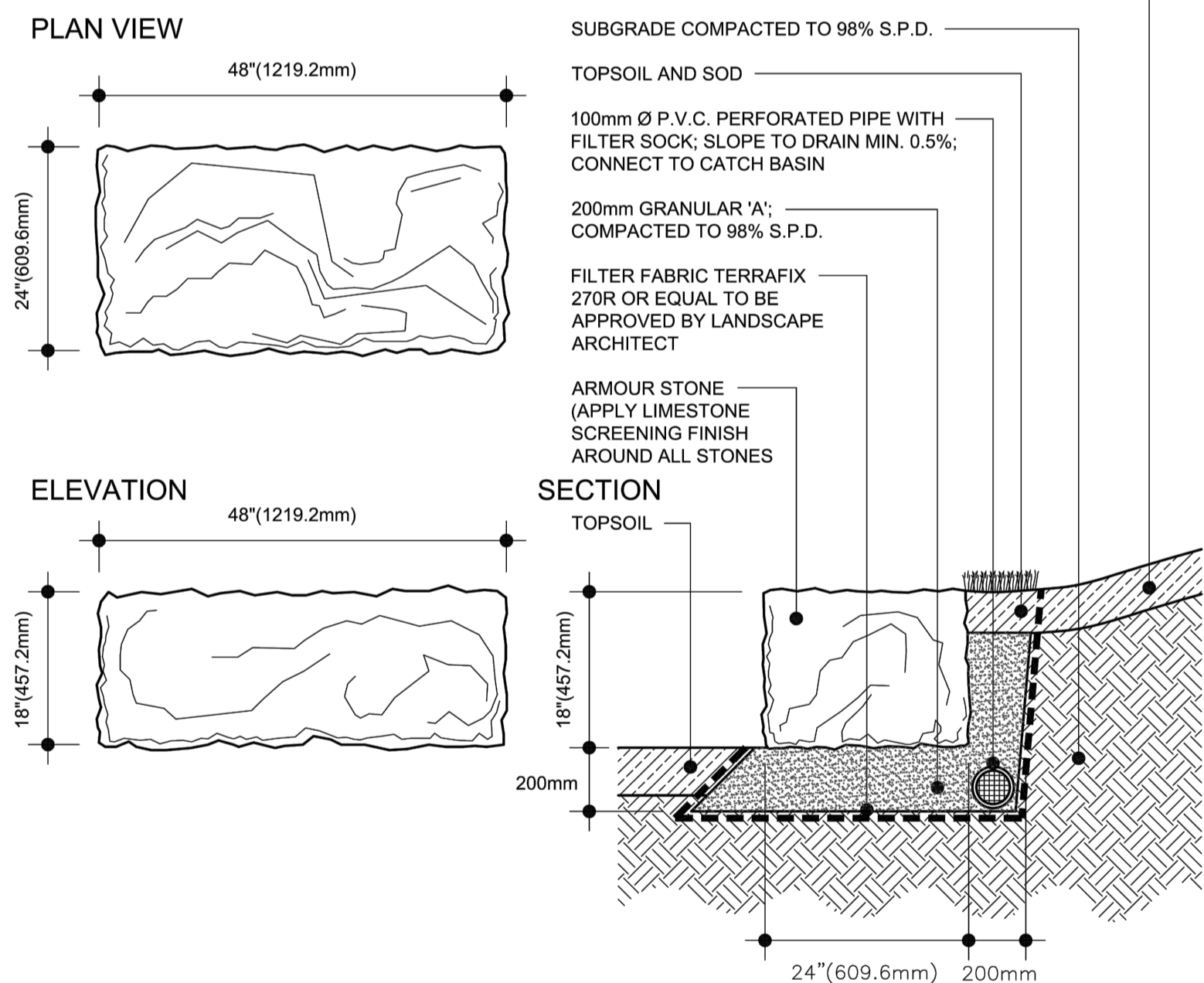
RETAINING WALL WITH POST



4 RETAINING WALL OPTIONS

L-504

RETAINING WALL WITHOUT POST



- NOTES:
1. All stones to be approved by Landscape Architect prior to installation.
  2. All quarry stone to have split or naturally weathered faces; no exposed drill markings.

**ARMOUR STONE RETAINING WALL DETAIL**

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN	STD. DWG. NO. ULA 310
NOT TO SCALE	DATE: 03 / 01 / 2011

NOTE: PREFABRICATED WALL OPTIONS IE: REDI WALL CAN BE EXPLORED FURTHER IN DETAILED DESIGN

Scale: NTS

KEY MAP

LEGEND

BENCHMARK INFORMATION

ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK No. XXXXXXXXXX, ELEVATION = XXX.XX  
SURVEY - DRAWING REF # XXX-XXX-XX-XXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO	DATE	REVISION/ISSUED	BY	APPD

Landscape Architecture  
582 Lancaster Street West  
Kitchener, ON N2K 1M3  
1.519-743-8777  
www.wsp.com

CLIENT: **CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT

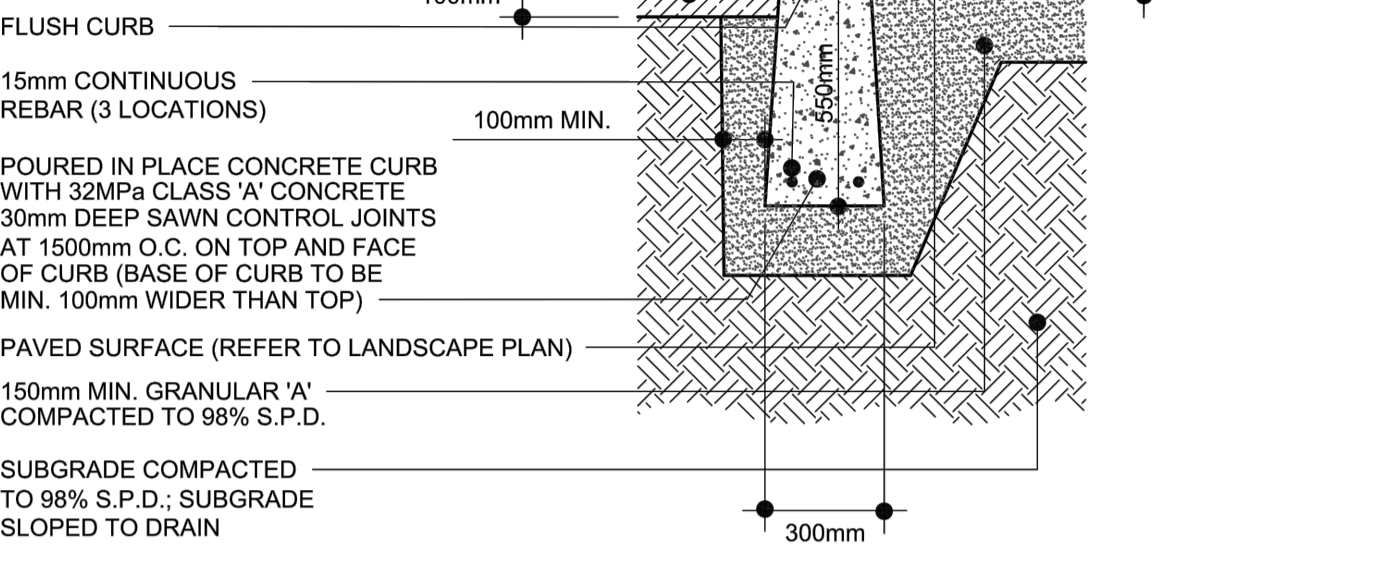
SITE ADDRESS:  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**DETAILS**

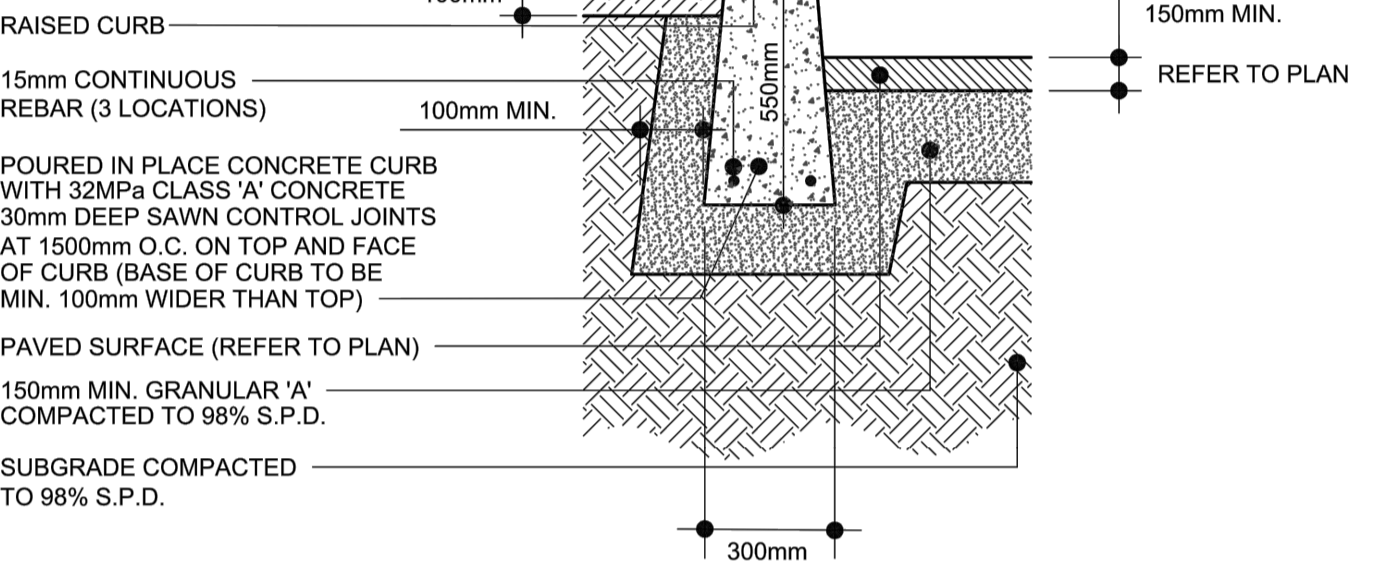
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DESIGNED WL	DRAWN WL
SCALE NA	DATE DEC 10 2021
PROJECT NUMBER 211-07301-00	DWG. NUMBER L-504

CHECKED BV	DATE DEC 10 2021	DWG. NUMBER L-504
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**FLUSH CURB**



**RAISED CURB**



- NOTES:
1. All dimensions in millimetres.
  2. Asphalt and granular base dimensions shown are minimum after compaction.
  3. Slope subgrade parallel to finished grade.
  4. Raised curb; drainage of paved surface to be accommodated (ie. area drain or swale).

**VAUGHAN**  
DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION

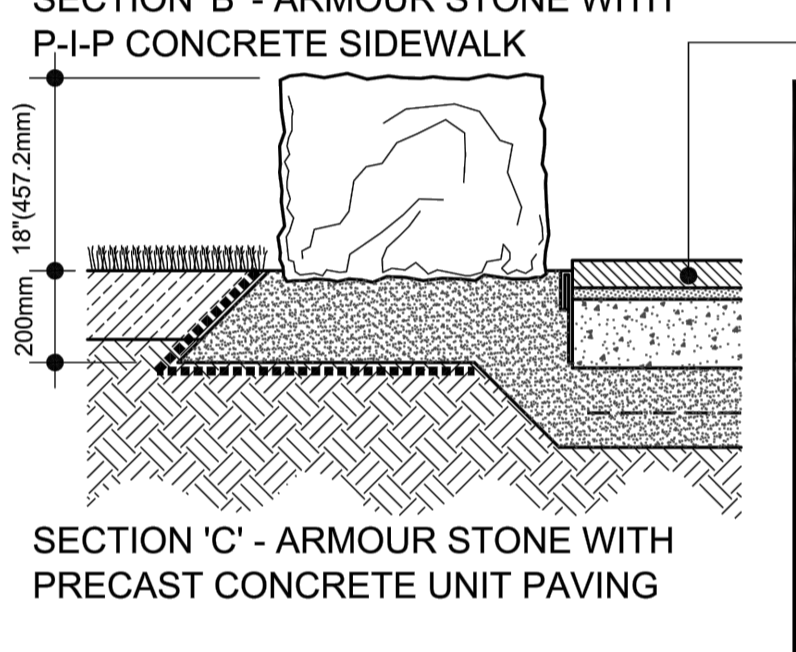
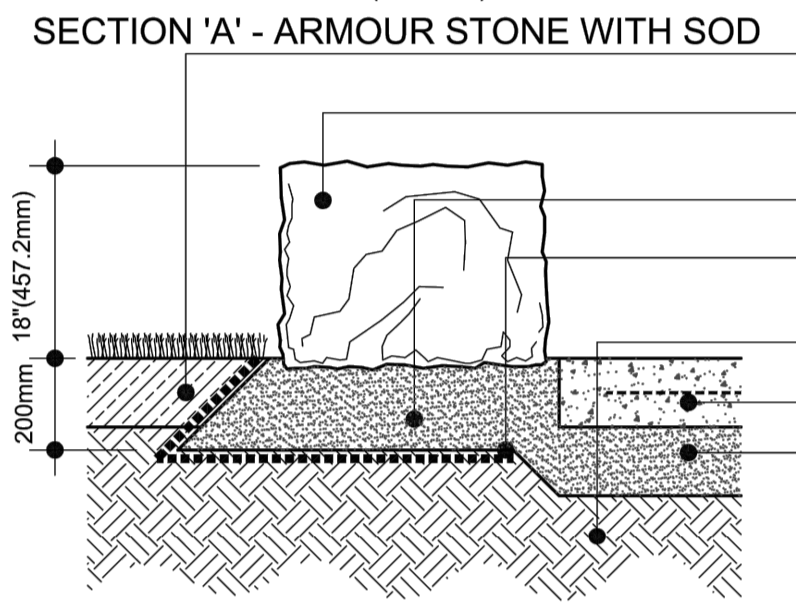
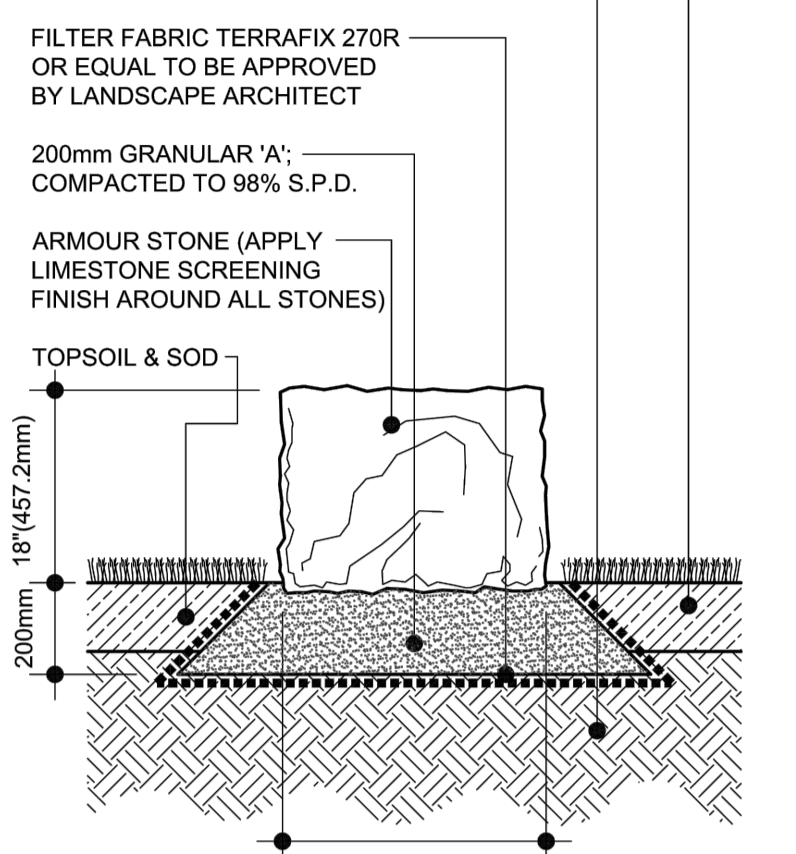
POURED-IN-PLACE CONCRETE CURB  
(RAISED AND FLUSH)  
DETAIL

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN    STD. DWG. NO. ULA 306  
NOT TO SCALE    DATE: 03 / 01 / 2011

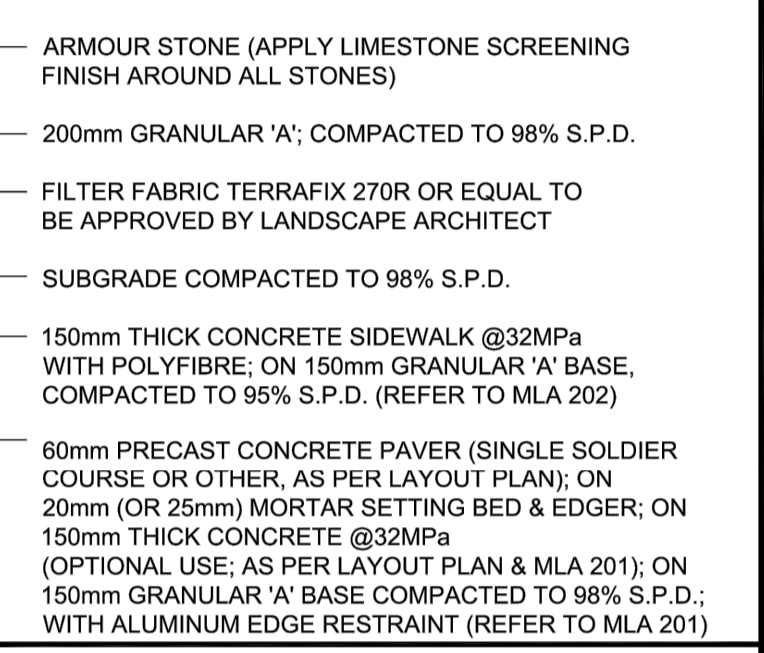
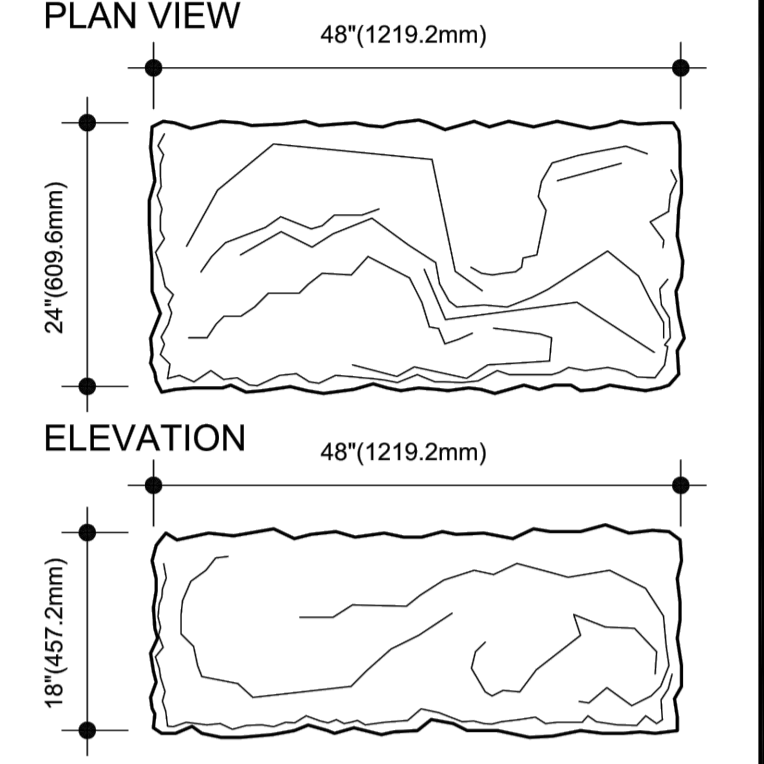
1 POURED-IN-PLACE CONCRETE CURB (RAISED AND FLUSH) DETAIL  
L-505 Scale: NTS

**TOPSOIL AND SOD**



**NOTES:**

1. All stones to be approved by Landscape Architect prior to installation.
2. All quarry stone to have split or naturally weathered faces; no exposed drill markings.



**VAUGHAN**  
DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION

ARMOUR STONE  
DETAIL

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DRAWN & DESIGNED: URBAN DESIGN    STD. DWG. NO. ULA 309  
NOT TO SCALE    DATE: 03 / 01 / 2011

2 ARMOUR STONE DETAIL  
L-505 Scale: NTS

KEY MAP

LEGEND

BENCHMARK INFORMATION  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM BENCHMARK NO. XXXXXXXXXXXX. ELEVATION = XXX.XX

SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
BY:    DATE:


NO    DATE    REVISION/ISSUED    BY    APPD

Landscaping Architecture  
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Kitchener, ON N2K 1M3  
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CLIENT:  
**CITY OF VAUGHAN**  
2141 Major MacKenzie Dr W, Maple, ON L6A 1T1

PROJECT TITLE:  
**BARTLEY SMITH GREENWAY TRAIL**  
TRAIL ALIGNMENT

SITE ADDRESS:  
MCNAUGHTON RD. & MAJOR MACKENZIE DR.

DRAWING TITLE:  
**DETAILS**

STAMP

STAMP

DESIGNED: WL    DRAWN: WL    CHECKED: BV  
SCALE: NA    DATE: DEC 10 2021

PROJECT NUMBER: 211-07301-00    DWG. NUMBER: L-505

**PART 1 - SCOPE**  
TerraSeeding is the process involving the use of composted topsoil that is injected with seed into a pneumatic blower truck then subsequently blown onto areas designated for the establishment of turf.

**PART 2 - MATERIALS**  
2.1 Seed:  
Seed is to be Canada No.1 seed or higher quality  
2.2 Seed Mix:  
2.2.1 Type 'A' Custom Meadow Mix:  
To be used in all stormpond and valley areas outside 5 year flood line.  
Big Blue Stem (Andropogon Gerardii) 25%  
Little Blue Stem (Schizachyrum Scoparium) 25%  
Fox Sedge (Carex Vulpinoidea) 15%  
Canadian Wild Rye (Elymus Canadensis) 25%  
Poverty Oat Grass (Danthonia Spicata) 10%  
Application seed rate:  
200kg / ha  
Supplied by:  
Ontario Seed Company // tel: 519-886-0557  
(or approved equal to be approved by Landscape Architect)

2.2.2 Type 'B' Custom Wet Meadow Mix:  
To be used in all stormpond and valley areas inside 5 year flood line.  
Joe Pye Weed (Eupatorium Malculatum) 10%  
Canada Bluejoint (Calamagrostis Canadensis) 15%  
Fox Sedge (Carex Vulpinoidea) 25%  
Soft Rush (Juncus Effusus) 15%  
Jointed Rush (Juncus Articulatus) 10%  
Porcupine Sedge (Carex Hysterica) 15%  
Blue Vervain (Verberna Hastata) 10%  
Application seed rate:  
200kg / ha  
Supplied by:  
Ontario Seed Company // tel: 519-886-0557  
(or approved equal to be approved by Landscape Architect)

2.3 Annual Nurse Crop Seed  
Nurse crop seed shall be a cereal grain such as Fall Rye Grain or Winter Wheat Grain unless otherwise approved by the Contract Administrator.  
2.4 Fertilizer  
Fertilizer shall comply with the provisions of the Canada Fertilizers Act and Fertilizer Regulations. Fertilizer shall be supplied in original bags bearing the manufacturer's original label indicating mass and analysis. All fertilizer shall be in granular form, dry, free flowing and free from lumps and with an analysis as specified in Table 1 (Page 6).

2.5 Composted Topsoil  
Composted topsoil shall be pre-mixed and shall consist of a minimum 60% compost material. The composted topsoil may be amended by the addition of concrete sand and peat loam. Concrete sand shall be added to improve aeration and soil structure. Peat loam shall be added to adjust the pH of the compost and to make the composted topsoil lighter and easier to blow. Both amendments shall be added at the discretion of the Contractor to ensure that the composted topsoil meets the material specification and is suited for distribution by a pneumatic blower.  
Once mixed, composted topsoil material shall consist of particles where 100% of the material is able to pass through a 25 mm sieve.


2.6 Compost  
Compost shall be derived from well-composted green organic waste matter. All compost material shall meet the Ontario Ministry of the Environment's Interim Guidelines for the Production and Use of Aerobic Compost in Ontario definition for Type A compost and shall be supplied from composting sites certified to meet the Ontario Ministry of the Environment's Compost Regulation 101.

2.7 Concrete Sand  
Concrete sand shall have a pH range from 7.7 to 8.0 with a mid-range of 7.8 and shall meet gradation requirements for concrete sand as described in OPSS.

2.8 Peat Loam  
Peat loam shall consist of a minimum 50% organic matter and equal parts sand, silt and clay. Peat loam shall be suitable for horticultural purposes. Shredded particles shall not exceed 16 mm in size.

2.9 Water  
Water shall be free of any contaminants or impurities that would adversely affect the germination and growth of vegetation.

**PART 3 - EQUIPMENT**  
3.1 Pneumatic Blower Truck  
The pneumatic blower truck shall be a custom manufactured, fully integrated, truck-mounted unit. The blower truck shall be equipped with a computer-calibrated seed injection system and shall be capable of uniformly applying composted topsoil and seed at a rate greater than 0.25 cubic meters of material per minute. The blower truck shall also be equipped with an application hose capable of extended 90 meters from the blower truck unit.



**TERRASEEDING DETAIL  
GENERAL NOTES (1 of 2)**

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DRAWN & DESIGNED: URBAN DESIGN      STD. DWG. NO. ULA 211  
NOT TO SCALE      DATE: 03/01/2011

1 L-506 TERRASEEDING DETAIL GENERAL NOTES (1) Scale: NTS

**PART 4 - CONSTRUCTION**  
4.1 Operational Constraints  
The composted topsoil and seeding operation shall not commence until a legible, valid Seed Analysis Certificate and a legible, valid signed declaration from the compost supplier have been provided to the Contract Administrator.  
The composted topsoil and seeding operation shall not commence until the Contract Administrator has approved the surface preparation and the layout of permanent seed mixes.  
The composted topsoil and seeding application and/or re-application shall not be carried out under adverse field conditions such as high wind, frozen soil or soil covered with snow, ice or in areas of standing water or a concentrated flow of water.  
The Contractor shall maintain the site and control erosion until conditions permit application or re-application of seed and composted topsoil.  
The surface to be seeded shall be prepared not more than 7 calendar days before the seeding operation.  
No seeding or composted topsoil application shall come in contact with the foliage of any trees, shrubs, or other vegetation. No seed or composted topsoil application shall come in contact with waterbodies.  
4.2 Surface Preparation for Composted Topsoil and Seeding  
At the time of seeding, all surface areas designated for seeding shall be free of erosion and shall have a fine graded uniform surface. The surface shall be uniformly cultivated with agricultural implements to a minimum depth of 50 mm and shall not have surface stones greater than 50 mm in diameter, weeds or other unwanted vegetation. Soil to be loose, friable and suitable as a seed bed to germinate seed.  
4.3 Layout  
The location of the seed mix and composted topsoil shall be staked out on the ground surface in accordance with the contract drawings. Stakes shall be used to indicate the limits of the seed mix.  
4.4 Composted Topsoil and Seeding  
4.4.1 Application Rates for Composted Topsoil  
Depending on slope gradation, depth of composted soil, seed shall be as follows:  
0-5% slope: 10-15 mm. depth  
5-10% slope: 15-20 mm. Depth  
10-25% slope: (4:1) 20-25 mm. depth  
25-35% slope: (3:1) 25-40 mm. depth  
35-45% slope: 40-50 mm. depth  
4.4.2 Composted Topsoil and Seed Application  
Prior to the application of the composted topsoil and seeding, the Contractor shall ensure that the pneumatic blower has been properly calibrated to provide the specified amounts of seed and that the blower can adequately uniformly apply composted topsoil and seed at a rate greater than 0.25 cubic meters of material per minute. Once the blower has been calibrated, the Contractor shall apply composted topsoil and seeding uniformly at specified depths to all areas identified for cover in the contract drawings or as directed by the Contract Administrator.  
Composted topsoil and seed shall overlap the adjoining ground cover by 300 mm.

4.4.3 Clean-up  
At the completion of the seeding and cover operation, materials applied to areas or objects other than those designated to grow grass shall be removed. Clean water shall be used to immediately wash seed or cover materials that have been applied to the foliage of trees, shrubs or other susceptible plant growth.

**PART 5 - QUALITY ASSURANCE**  
5.1 Performance Measure  
All composted topsoil and seeded areas will be inspected by the Contract Administrator to ensure compliance with this specification at thirty, sixty and ninety day periods following the composted topsoil and seeding operation.  
At the thirty day inspection within the seeded earth area:  
- the composted topsoil shall be visually intact and shall form a uniform cohesive mat;  
- germination of the nurse crop shall be visually evident.  
At the sixty day inspection within the seeded earth area:  
- the nurse crop shall be evident at mature height in an evenly dispersed, uniform cover;  
- germination of the specified, permanent seed species shall be visually evident in an evenly dispersed uniform cover;  
- there shall not be any significant bare areas, both in terms of quantity and size;  
- non-seeded, non-specified vegetation shall not exceed 20% of the seeded earth area.  
At the ninety day inspection within the seeded earth area:  
- the permanent seed species shall be at an average height of 50mm in an evenly dispersed, uniform cover, representative of the specified, permanent seed mixes;  
- there shall not be any significant bare areas, both in terms of quantity and size;  
- non-seeded, non-specified vegetation shall not exceed 20% of the seeded earth area.  
No inspections will be held during the winter dormant period or when site conditions prohibit a visual field inspection. The timing intervals between inspections will be suspended during the winter dormant period.

5.2 Failure to Meet Performance Measure  
If the completed work does not meet the Performance Measure after the thirty-day inspection, the Contract Administrator shall document the failure areas, notify the Contractor of those areas, and re-inspect at the sixty day inspection.  
If the completed work does not meet the Performance Measure after the sixty or ninety day inspection, the Contract Administrator shall notify the Contractor in writing and the Contractor shall re-apply the specified materials in accordance with this specification within 14 calendar days of receiving the notification.  
The Contractor shall maintain the site and control erosion until conditions permit application or re-application of and composted topsoil seed.  
All replaced composted topsoil and seed shall be subject to the Quality Assurance section of this specification.

5.3 Measurement and Payment Procedures  
Measurement: Measurement shall be based on a lump sum basis.  
Payment: Payment shall be based on the lump sum price in the tender.  
The tendered price shall constitute full compensation for furnishing and preparation of all materials and equipment as required to complete the work as specified in the Contract Drawings. In addition, the price is to include the cost of all labour as required to complete the above-noted work.



**TERRASEEDING DETAIL  
GENERAL NOTES (2 of 2)**

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DRAWN & DESIGNED: URBAN DESIGN      STD. DWG. NO. ULA 212  
NOT TO SCALE      DATE: 03/01/2011

2 L-506 TERRASEEDING DETAIL GENERAL NOTES (2) Scale: NTS

KEY MAP

LEGEND

BENCHMARK INFORMATION  
ELEVATIONS ARE IN METRES AND ARE DERIVED FROM  
BENCHMARK No. XXXXXXXXXX,  
ELEVATION = XXX.XX  
SURVEY - DRAWING REF #. XXX-XXX-XX-XXX  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NO.	DATE	REVISION/ISSUED	BY	APPD



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PROJECT TITLE:  
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TRAIL ALIGNMENT

SITE ADDRESS:  
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DRAWING TITLE:  
**DETAILS**

DESIGNED	WL	DRAWN	WL	CHECKED	BV
SCALE	NA	DATE	DEC 10 2021		
PROJECT NUMBER	211-07301-00		DWG. NUMBER	L-506	

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