#### STREETSCAPING FEASIBILITY STUDY

**66 THOMAS STREET** 

CITY OF MISSISSAUGA REGION OF PEEL

**CENTRE PLAZA** 

PREPARED FOR:

#### DEZEN REALTY COMPANY LTD.

**PREPARED BY:** 

#### C.F. CROZIER & ASSOCIATES INC. 211 YONGE STREET, SUITE 600 TORONTO, ON M5B 2H1

DECEMBER 2024

CFCA FILE NO. 1419-4679

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Revision Number	Date	Comments
Rev.0	December 20, 2024	Issued for Submission

#### TABLE OF CONTENTS

1.0		. 1
2.0	EXISTING UTILITY PLAN	. 1
3.0	TRENCH LOCATION PLAN	. 2
4.0	CONCLUSIONS	. 3

#### APPENDIX

**UG-1:** Telecon Subsurface Utility Engineering Level B-D Results

#### **CIVIL DRAWINGS**

- SFS-P: Utility and Streetscape Plan Proposed Conditions
- SFS-S1: Tannery Street Sections
- SFS-S2: Joymar Drive Sections
- SFS-S3: Thomas Street Sections

#### LANDSCAPE DRAWINGS

- L100: Landscape Concept Plan (by SBK)
- L104: Proposed Tannery Street Streetscape Plan (by SBK)
- **L105:** Proposed Joymar Drive Streetscape Plan (by SBK)
- **L106:** Proposed Thomas Street Streetscape Plan (by SBK)

#### 1.0 Introduction

C.F. Crozier & Associates Inc. (Crozier) was retained by De Zen Realty Company Ltd. to prepare a Streetscaping Feasibility Study. The study will support the applications for the Official Plan Amendment and Zoning By-Law Amendment required to permit the residential development at 66 Thomas Street in the City of Mississauga, Region of Peel (the Site).

The Site is located in a mixed use residential and commercial neighbourhood. The site currently features several low-rise commercial structures and an extensive paved parking area. The Streetscaping Feasibility Study has been completed for the site as required by the City of Mississauga and is in accordance with the Streetscape Feasibility Terms of Reference, May 2019. The purpose of the study is to demonstrate that the proposed development can accommodate the appropriate boulevard treatment within the public right-of-way and that the associated building setbacks are adequate on Tannery Street, Joymar Drive and Thomas Street.

Enclosed Drawings SFS-P, SFS-S1, SFS-S2, SFS-S3 (Plan and Sections) reflecting the existing and proposed Utility Plan and Trench Location Plan in accordance with the City of Mississauga for the proposed design on Tannery Street, Joymar Drive and Thomas Street.

#### 2.0 Existing Utility Plan

The utility plan package is based on the existing utility locations present along Tannery Street, Joymar Drive and Thomas Street. Information regarding existing underground utilities shown on the drawings is developed from the Sub-Surface Utility Investigation (SUE) Locates by Telecon dated December 9, 2022. Refer to Appendix A for the SUE results by Telecon.

Two cross-sections have been prepared along Tannery Street and Thomas Street and Three crosssections have been prepared along Joymar Drive to demonstrate compliance with the City of Mississauga Streetscape Feasibility Terms of Reference. All sections are in accordance with City policies and demonstrate above- and below-grade utilities.

The following utilities/sewers are identified by the SUE investigation for each right-of-way:

#### Tannery Street

- 1650 mm Storm sewer
- 375 mm Sanitary sewer

<u>Joymar Drive</u>

- 2" Gas Main
- Bell & Rogers communication lines
- Hydro conduit
- 200mm Watermain

<u>Thomas Street</u>

- Bell, Rogers & Telus communication (telecoms) lines
- Hydro conduit

It is noted that, likely due to the age of the existing site, utility locations are not uniform or in typical locations. As such, existing utilities are located at various and inconsistent locations in each Right-of-Way. Refer to Civil drawings SFS-P for plan view of the proposed site plan overlaid on existing utilities locations, and to drawings SFS-1-3 for existing conditions section views along Tannery, Joymar, and Thomas.

#### 3.0 Street Tree and Soil Trench Locations

Landscape drawings L104, L105 and L106 by Strybos Barron King depict the proposed street tree and tree trench locations along Tannery Street, Joymar Drive and Thomas Street.

Per City of Mississauga Requirements, a cross-sectional area of 2.0 m x 2.0 m soil trench at a minimum distance of 0.75 m from the back of the municipal curb is typically required, however, due to the presence of existing underground utilities and overhead wires this cannot be met without conflict with existing utilities in several locations.

There are various options in order to accommodate the conflicts:

- i) Do not plant street trees in conflict locations.
- ii) Revise the 2.0x2.0 m soil trench to avoid existing utilities, dimensions would typically be at shallower heights/depths and wider width (ex: 1.0 deep x 4.0m wide), which could also extend under sidewalk locations.
- iii) Relocate existing utilities to under proposed sidewalk areas, potential to utilize a 'common trench' for multiple relocations.

It is noted that, option iii) regarding potential relocations is subject to utility provider designs and approvals. Due to the extent of existing utilities, full relocations of utilities could represent significant down-times in services to external residences and developments as well as incur significant costs and extended timelines. Utilities should be identified on a location-specific basis and only relocated if no other alternatives or options are feasible.

Further collaboration with the City of Mississauga will be required to ensure requirements are being met given the Site constraints and implemented at the detailed design stage.

Building limits (both at-grade and below-grade) along Tannery Street, Joymar Drive and Thomas Street are setback at various distances from the existing property line, all of which are at minimum 0.9 m. These setbacks provide adequate clearance to the subsurface tree trenches within the private site frontage which will allow for future maintenance. The building setbacks from the ROW limits are summarized below per the architectural Site Plan by SRM:

<u>Right-of-Way</u>	At-Grade	Below-Grade
Tannery St	8.2 m	3.2 m
Joymar Dr	3.0 m	0.9 m
Thomas St	11.8 m	11.8 m

The Landscape Architect is responsible to specify trees that adhere to the above-grade street tree canopy clearances as shown in Figure 1 of the Streetscaping Feasibility Terms of Reference.

#### 4.0 Conclusions

Based on the results of Streetscaping Feasibility Study, the location of existing underground utilities and overhead wires in all three adjacent right-of-ways present conflicts with proposed street tree and typical soil trench locations. As such, alternative solutions should be explored in order to provide required street trees and soil volumes while minimizing conflicts and relocation requirements with existing utilities.

Respectfully submitted,

#### C.F. CROZIER & ASSOCIATES INC.

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Gamsa Sivanantham, P.Eng. Project Engineer

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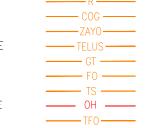
Rob Babic, P.Eng. Project Manager

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### APPENDIX A



SANIT STORM MANHOLL	GM	GAS MAIN
WATER VALVE	GS	GAS SERVICE
	FL	FUEL PIPE
	— н —	HYDRO
	—— HS ——	HYDRO SERVICE
	EL	ELECTRICAL
		STREET LIGHT
	— WM —	WATERMAIN
	— WS — —	WATER SERVICE
	CHEM	CHEMICAL



		-,		
H/CB or pipe	opening contains deb	ris. May require flushing or cleaning prior to obtaining measuremer	its.	
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N TELUS FO	"D=0.00m"	APPROXIMATE DEPTH MEASUREMENT FROM LOCATE EQUIPMENT		

Н/CВ <b>#</b>	Type of sewer	Grade Elevation (m)	Direction	Materials	Depth Inv (m)	Depth Obv (m)	Size (mm)	Flows to	Elevation Invert (m)	Elevation Obvert (m)	Remarks
		154.04	N	Clay	2.32	2.12	200		151.72	151.92	
	Casilanu	154.04	S	Clay	2.35	2.15	200		151.69	151.89	
MH1	Sanitary	154.04	NW	Clay	1.94	1.74	200	S	152.10	152.30	
		154.04	W	Clay	2.07	1.82	250		151.97	152.22	
000	ā	153.64	N	Concrete	1.03	0.83	200	6	152.61	152.81	
CB2	Storm	153.64	SE	Concrete	1.17	0.87	300	SE	152.47	152.77	
CB3 St	Charma	153.97	NE	Clay	1.34	1.19	150	CW	152.63	152.78	
	Storm	153.97	SW	Concrete	1.60	1.30	300	SW	152.37	152.67	
CB4	Storm	154.46	W	Plastic	0.84	0.59	250	W	153.62	153.87	
MUE	Sanitary	156.00	W	Plastic	3.90	3.65	250	w	152.10	152.35	
MH5		156.00	E	Plastic	3.89	3.64	250	W	152.11	152.36	
CB6	Storm	156.24	W	Plastic	1.25	1.00	250	W	154.99	155.24	
CB7	Storm	157.21	W	Plastic	1.23	0.98	250	W	155.98	156.23	
MH8	Sanitary	157.83	W	Plastic	4.58	4.33	250	w	153.25	153.50	
мпо		157.83	E	Plastic	4.54	4.29	250	vv	153.29	153.54	
	0	157.49	W	Concrete	N/A	N/A	N/A	-	N/A	N/A	Dattern of chamber - 7.74m, CCC acquired
MH9	Storm	157.49	E	Concrete	N/A	N/A	N/A	E	N/A	N/A	Bottom of chamber = 3.34m, CSE required
0.54.0	ā	156.85	N	Concrete	1.50	1.25	250		155.35	155.60	
CB10	Storm	156.85	S	Concrete	1.65	1.40	250	S	155.20	155.45	
		153.86	S	Concrete	N/A	N/A	N/A		N/A	N/A	Pipe size as per measurement = 375mmø
		153.86	E	Metal	1.38	1.23	150	_	152.48	152.63	Weeping tile pipe
CB11	Storm	153.86	NW	Concrete	N/A	N/A	N/A	S	N/A	N/A	
		153.86	NE	Concrete	N/A	N/A	N/A		N/A	N/A	Bottom of chamber = 2.07m, CSE required
CB12	Strom	153.69	S	Concrete	1.42	1.12	300	S	152.27	152.57	
CB13	Storm	153.73	SW	Plastic	1.07	0.77	300	SW	152.66	152.96	

\* Where one or more leads are recessed, measurements for invert and obvert are approximate. Confined Space Entry required in order to obtain accurate measurements. \*\* MH/CE

COMMUNICATION	BELL	
COMMUNICATION	ROGERS	
COMMUNICATION	COGECO	
COMMUNICATION	ALLSTREAM	
COMMUNICATION	TELUS	
COMMUNICATION	GT	
FIBER OPTIC CA	BLE	
TRAFFIC SIGNAL		
OVERHEAD WIRE	S	

LEGEND

SIB

SSIB

1672

1059

M P1

P3

P4

P6 ANC

BB

BOLL

BPED

CB

CCUT CLF

CPAD

CPP

CSP

CSW

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DS

EP

FF

FH

GDR

GM

HM

SP SPR

TLCB

WRTW

{0}

WV

CRTW

BC

DENOTES MONUMENT FOUND

DENOTES STANDARD IRON BAR

DENOTES TONY STAUSKAS, O.L.S.

DENOTES WILLIAM M. FENTON O.L.S.

DATED JUNE 8, 1990

DATED JUNE 9, 2009

CP(H)LS DENOTES CONCRETE POLE (HYDRO) WITH LIGHT STANDARD

DENOTES PLAN OF SURVEY BY B.J. STASSEN, O.L.S.,

DENOTES TOPO SURVEY BY TONY STAUSKAS, O.L.S.

DENOTES PLAN BY C. PEAT O.L.S., DATED OCTOBER 4, 1967

DENOTES SHORT STANDARD IRON BAR

DENOTES MONUMENT SET

DENOTES ORIGIN UNKNOWN

DENOTES PLAN 43R-16616

DENOTES BACK OF CURB

DENOTES BELL PEDESTAL

DENOTES CATCH BASIN

DENOTES CONCRETE PAD

DENOTES CHAIN LINK FENCE

DENOTES CULVERT (PLASTIC PIPE)

DENOTES CONCRETE RETAINING WALL

DENOTES CULVERT (STEEL PIPE)

DENOTES CONCRETE SIDE WALK

DENOTES MINITORING WELL

DENOTES FINISHED FLOOR

DENOTES FIRE HYDRANT

DENOTES HYDRO METER

DENOTES LIGHT STANDARD

MHC(B) DENOTES MAINTENANCE HOLE COVER (BELL)

MHC(SAN) DENOTES MAINTENANCE HOLE COVER (SANITARY)

DENOTES WOODEN RETAINING WALL

DENOTES TRAFFIC LIGHT CONTROL BOX

WP(H)LS DENOTES WOODEN POLE (HYDRO) WITH LIGHT STANDARD

MHC(STM) DENOTES MAINTENANCE HOLE COVER (STORM)

MHC(W) DENOTES MAINTENANCE HOLE COVER (WATER)

DENOTES GUARDRAIL

DENOTES SIGN POST

DENOTES SPRINKLER

SRTW DENOTES STONE RETAINING WALL

WP(H) DENOTES WOODEN POLE (HYDRO)

Ø DENOTES DIAMETER

DENOTES TREE LINE

DENOTES BOTTOM OF SLOPE

------ DENOTES OVERHEAD WIRES ------ DENOTES TOP OF SLOPE

 O
 DENOTES
 DECIDUOUS
 TREE

DENOTES WATER VALVE

DENOTES CONIFEROUS TREE

DENOTES GAS METER

DENOTES EDGE OF PAVEMENT

DENOTES IRON BAR

DENOTES MEASURED

DENOTES ANCHOR

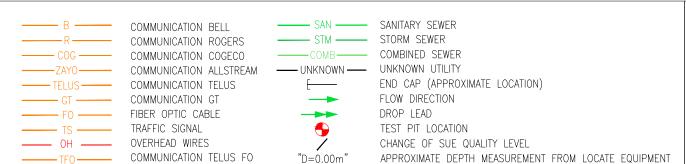
DENOTES BELL BOX

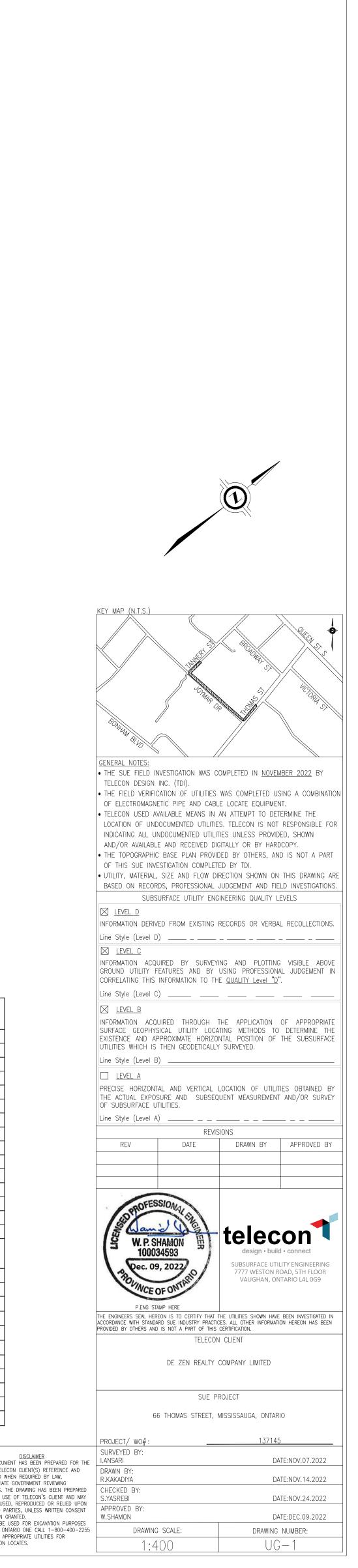
DENOTES BOLLARD

DENOTES CURB CUT

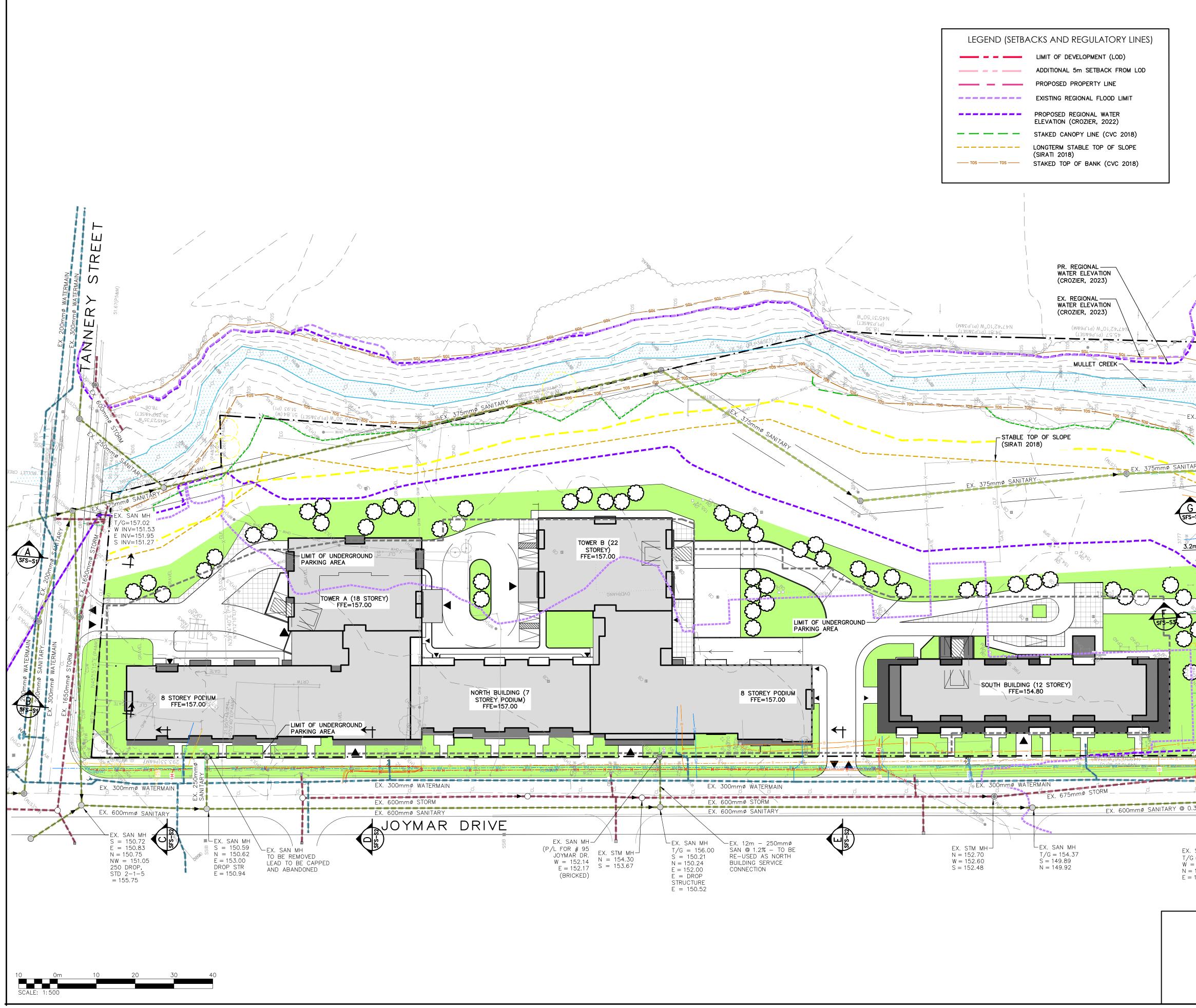
DENOTES CULVERT

DENOTES DOOR SILL

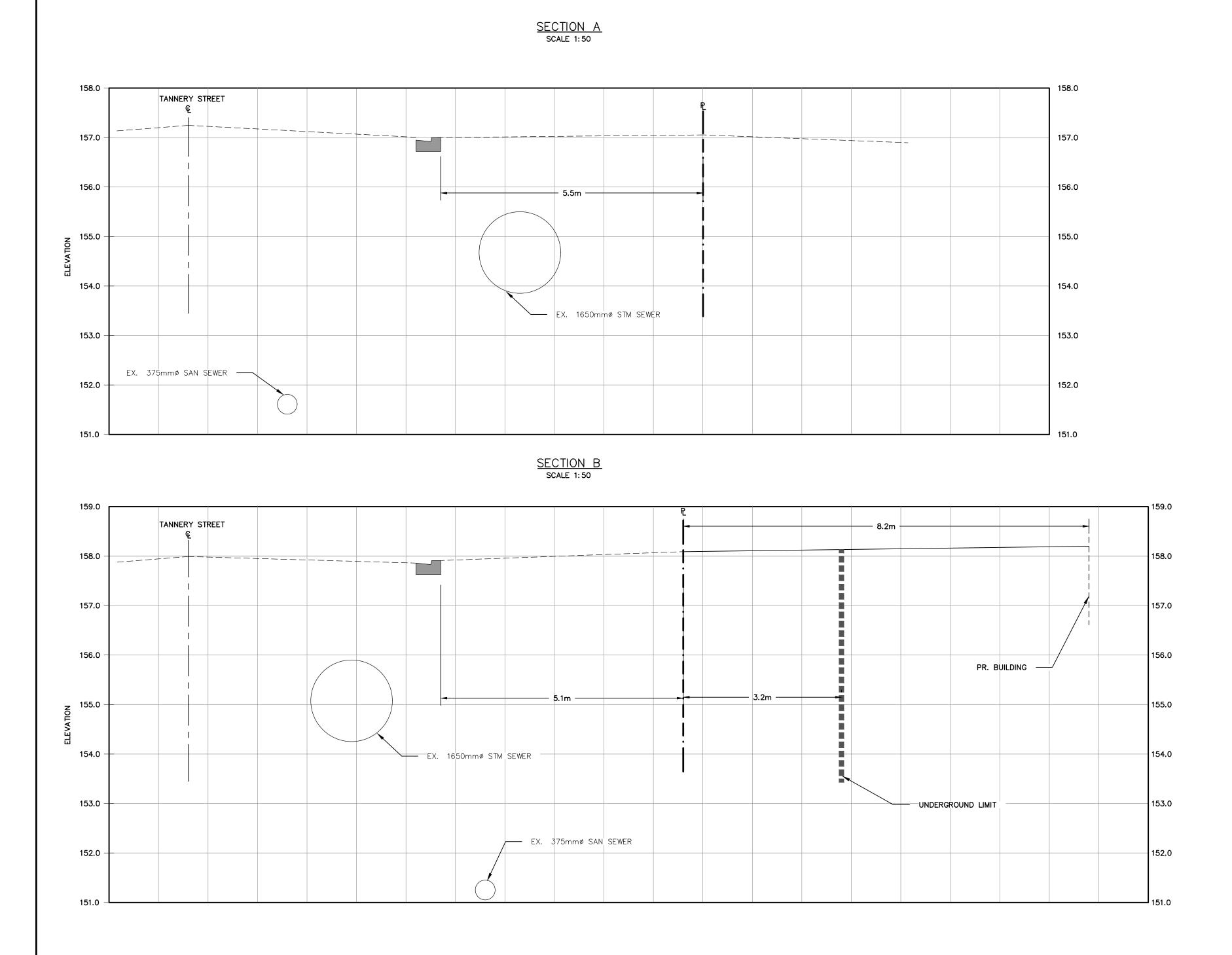




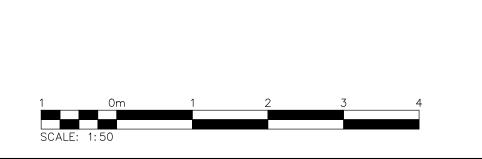
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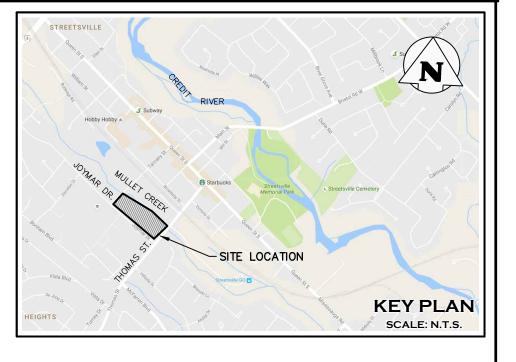


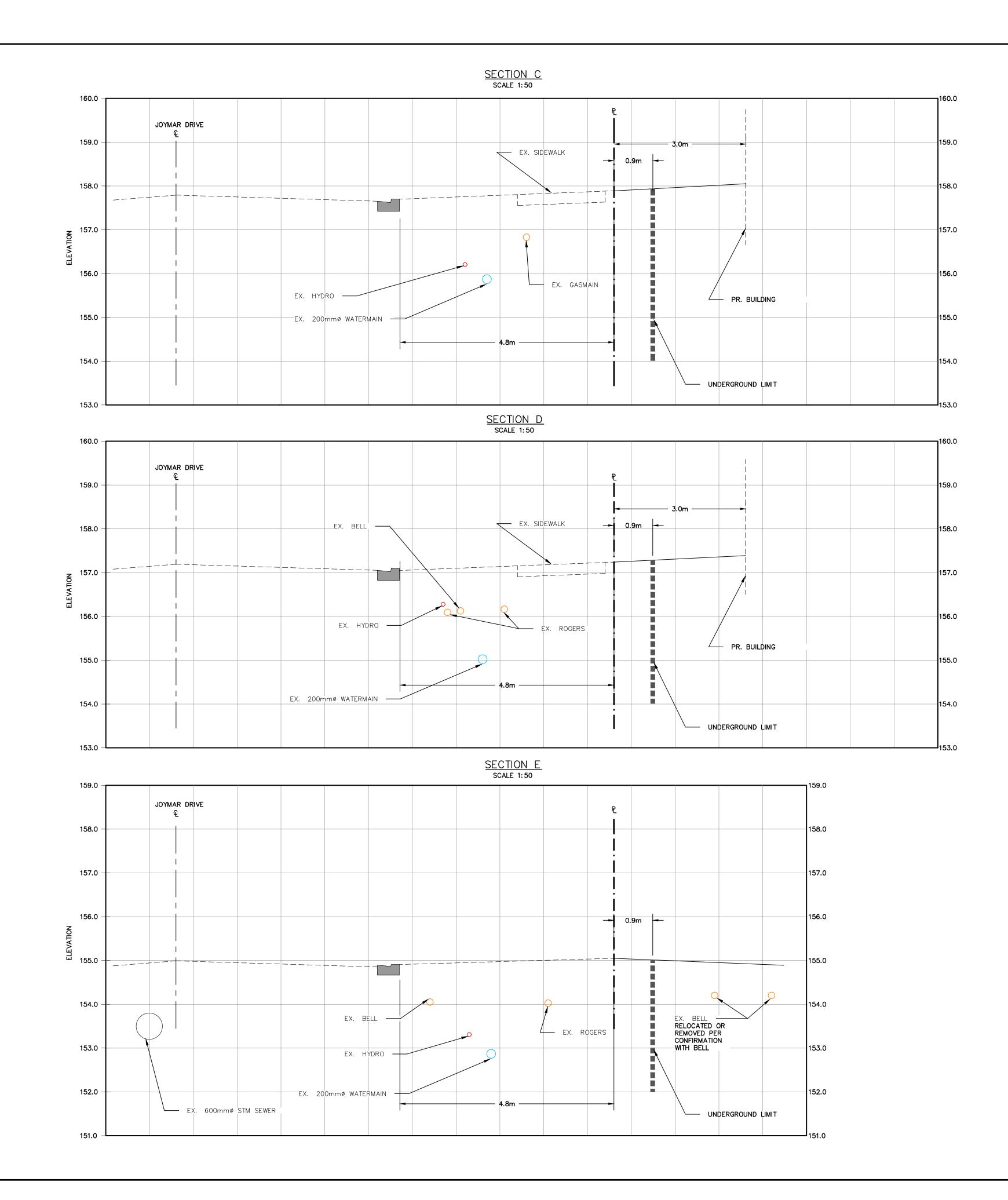
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STREETSCAPE FEASIBILITY STUDY SECTIONS (TANNERY STREET)						





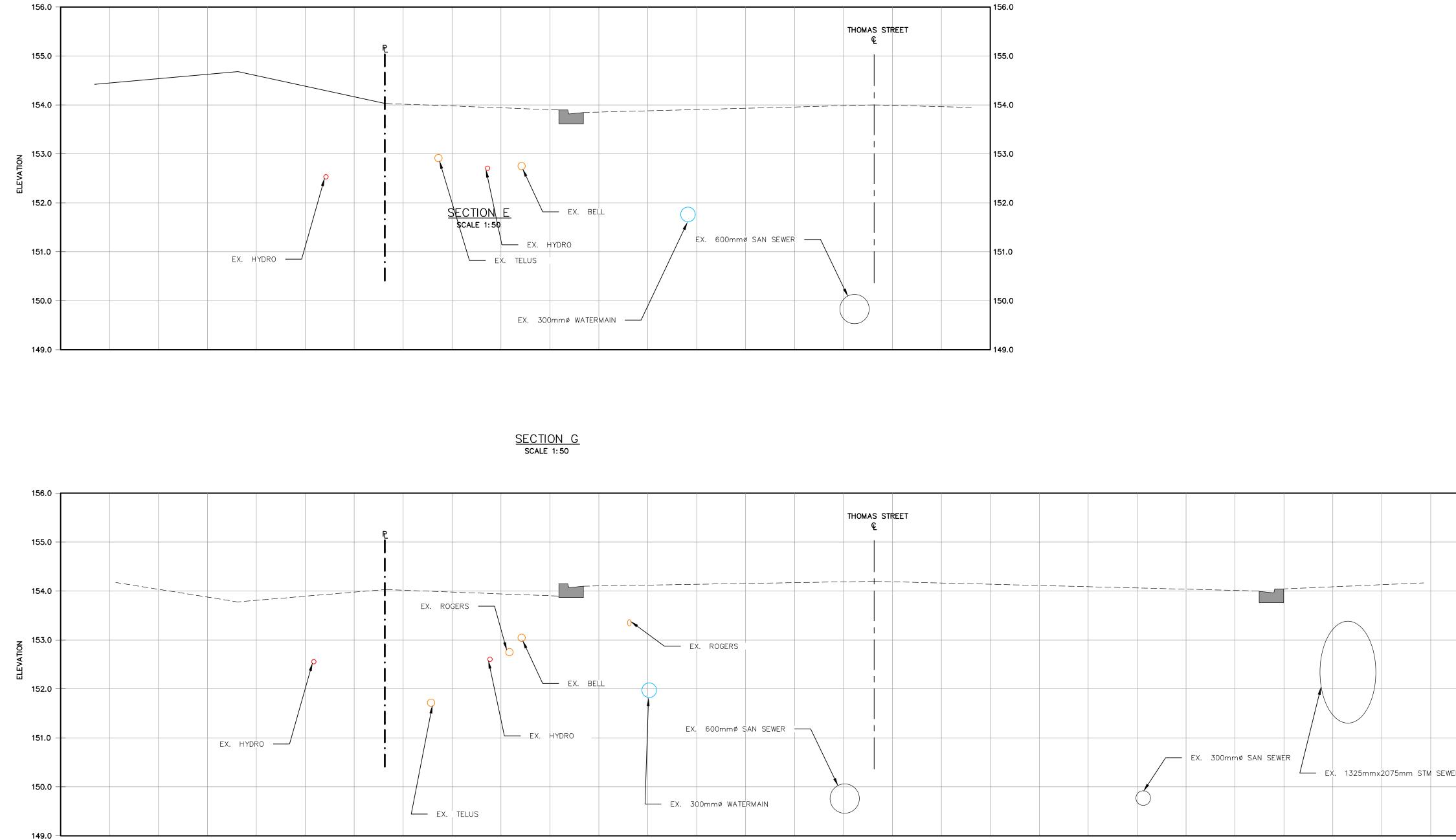


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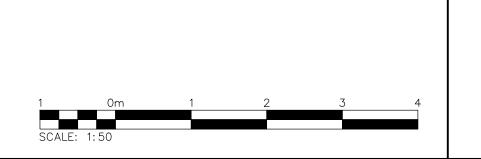
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SECTION F SCALE 1:50

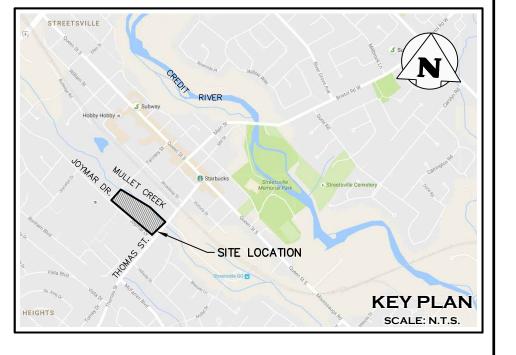


400/1419-De Zen Realty Co Ltd/4679-66 Thomas St\CAD\Civil\Sheets\4679 SFS.dwg. DWG To P

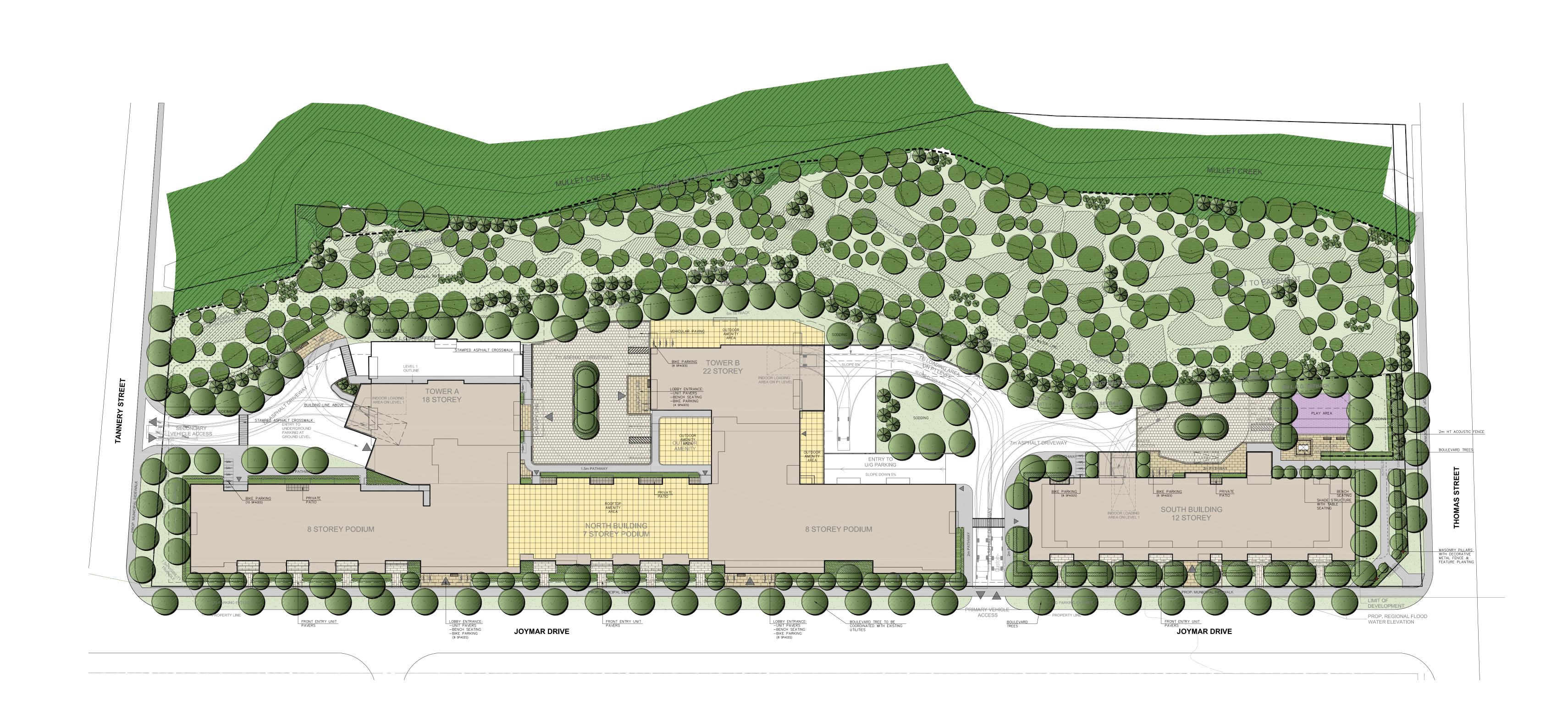


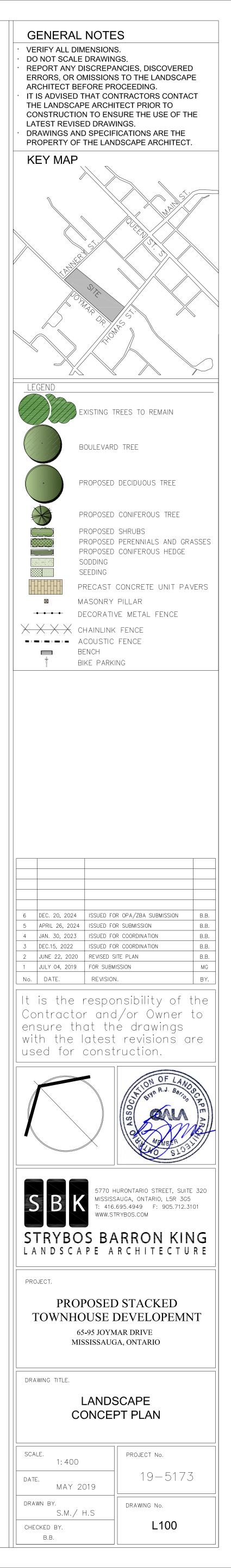
		ELEN	<u>/ATION_NOTE:</u>			
	156.0	LOCA RED STRE CANA	ATIONS ARE REFERRED TO THE CITY OF MISSISSAUGA BENCHMARK NTED ON THE SOUTH FACE, 0.61 METRE WEST OF THE EAST CORN BRICK BUILDING AT THE NORTHWEST CORNER OF THOMAS STREET (ET, HAVING AN ELEVATION OF 162.08m. ADIAN GEODETIC VERTICAL DATUM 1928: PRE 1978 ADJUSTMENT. VEY NOTES:	IER OF THE		
	455.0	REFE	/EY COMPLETED BY DAVID B. SEARLES SURVEYING LTD. (2017/AUG RENCE No.: 116–0–16. TOP OF BANK AND CANOPY LINE AS DEFIN < WITH CVC STAFF (2018/APR/4). SURVEY BY DAVID B. SEARLES	NED BY SITE		
	- 155.0	SMAF UTM BEAR PLAN	RINGS ARE GRID BEARINGS DERIVED FROM GPS OBSERVATIONS USIN RINET NETWORK AND ARE REFERRED TO THE CENTRAL MERIDIAN C ZONE 17 (81°00' WEST), NAD83 (CSRS 2010) RINGS ON PLAN SURVEY BY B.J. STASSEN, O.L.S., DATED JUNE 8, I 43R-16616 (P6) HAVE BEEN ROTATED 01°01'10" COUNTERCLOCKV PARISONS.	9F 1990 (PI) AND		
	- 154.0	BEAR ROTA BEAR	RINGS ON PLAN BY C. PEAT O.L.S., DATED OCTOBER 4, 1967 (P3) ATED 00°53'20" COUNTERCLOCKWISE TO MAKE COMPARISONS RINGS ON TOPO SURVEY BY TONY STAUSKAS, O.L.S., DATED JUNE E BEEN ROTATED 00°52'20" COUNTERCLOCKWISE TO MAKE COMPARI	9, 2009 (P4)		
	153.0	GRID	ANCES SHOWN HEREON ARE GROUND DISTANCES AND CAN BE CON DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF O <u>PLAN NOTES</u> :			
	152.0	DRAV REV.0 FILE	GN ELEMENTS ARE BASED ON SITE PLAN BY 4 ARCHITECTURE INC. WING NAME: TOWNNHOUSE RESIDENTIAL SUBDIVISION – 218072 – 5 03 (MAR2023) No.: 218072DSP01 WING NOTES:	SITE PLAN,		
		THE	DRAWING IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOC REPRODUCTION OF ANY PART OF IT WITHOUT PRIOR WRITTEN CONS CE IS STRICTLY PROHIBITED.			
	-151.0	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER				
		ALL	IS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY			
WER		CON	IRACTOR PRIOR TO CONSTRUCTION.			
	150.0	1	ISSUED FOR ZBA SUBMISSION	2024/DEC/20		
		o i	NOT ISSUED FOR THIS SUBMISSION	2024/APR/22		
		No.	ISSUE / REVISION	YYYY/MMM/DD		
	J 149.0	Projec <sup>.</sup>	66 THOMAS STREET CITY OF MISSISSAUGA			
		Drawin	STREETSCAPE FEASIBILITY ST SECTIONS (THOMAS STREE			
			CROZIER & ASSOCIATES Consulting Engineers 2800 High Po Suite 10 Milton, ON L 905 875-00 905 875-00 905 875-00 905 875-00	DO L9T 6P4 D26 T 915 F		
		Drawn	S.C. Design A.R./A.O. Project No. 1419	-4679		
		Check	R.B. <sup>Check</sup> R.B./J.R.K. <sup>Scale</sup> 1:50 <sup>Dwg.</sup> <b>S</b>	FS-S3		

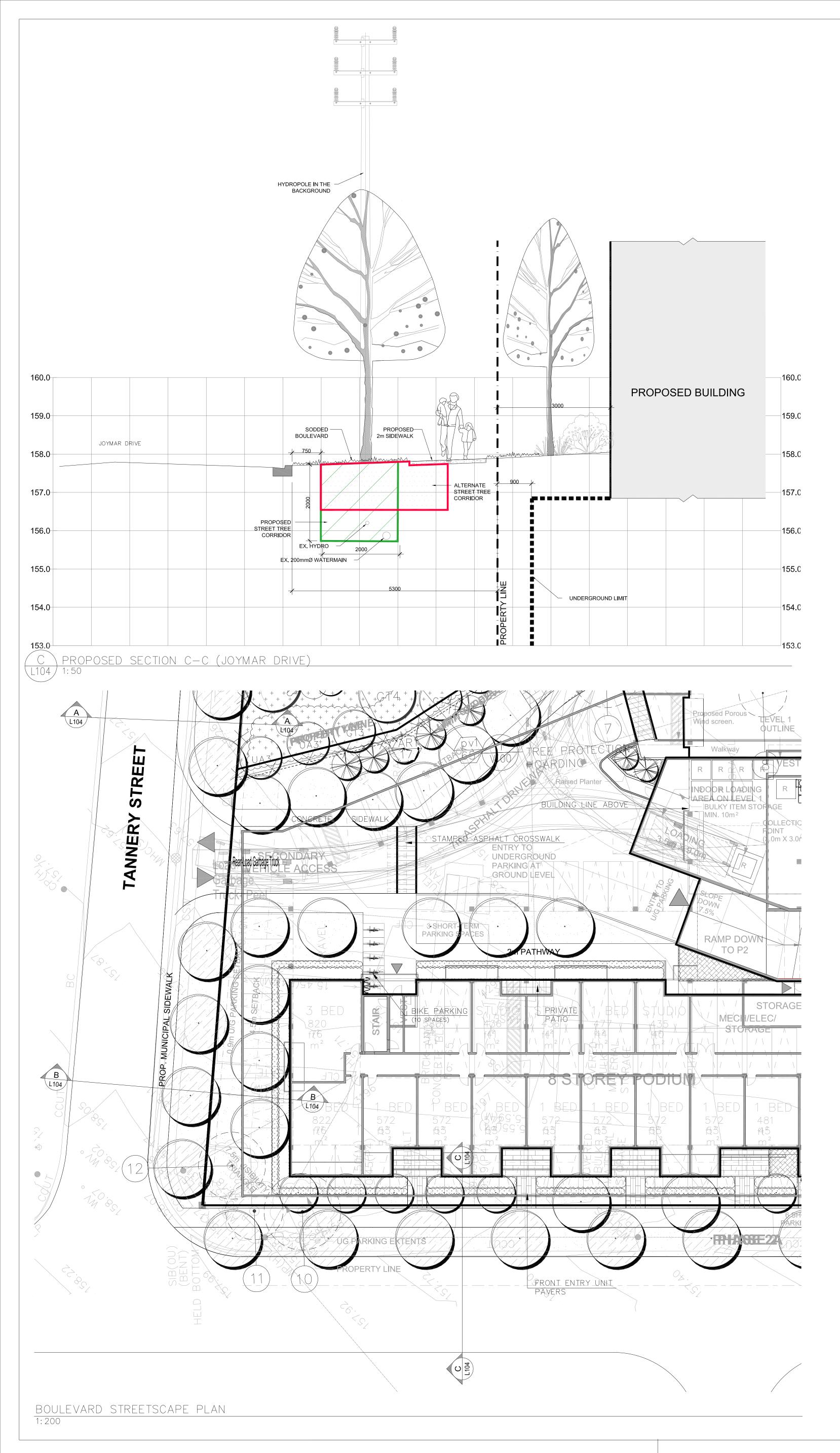
ELEVATION NOTE:

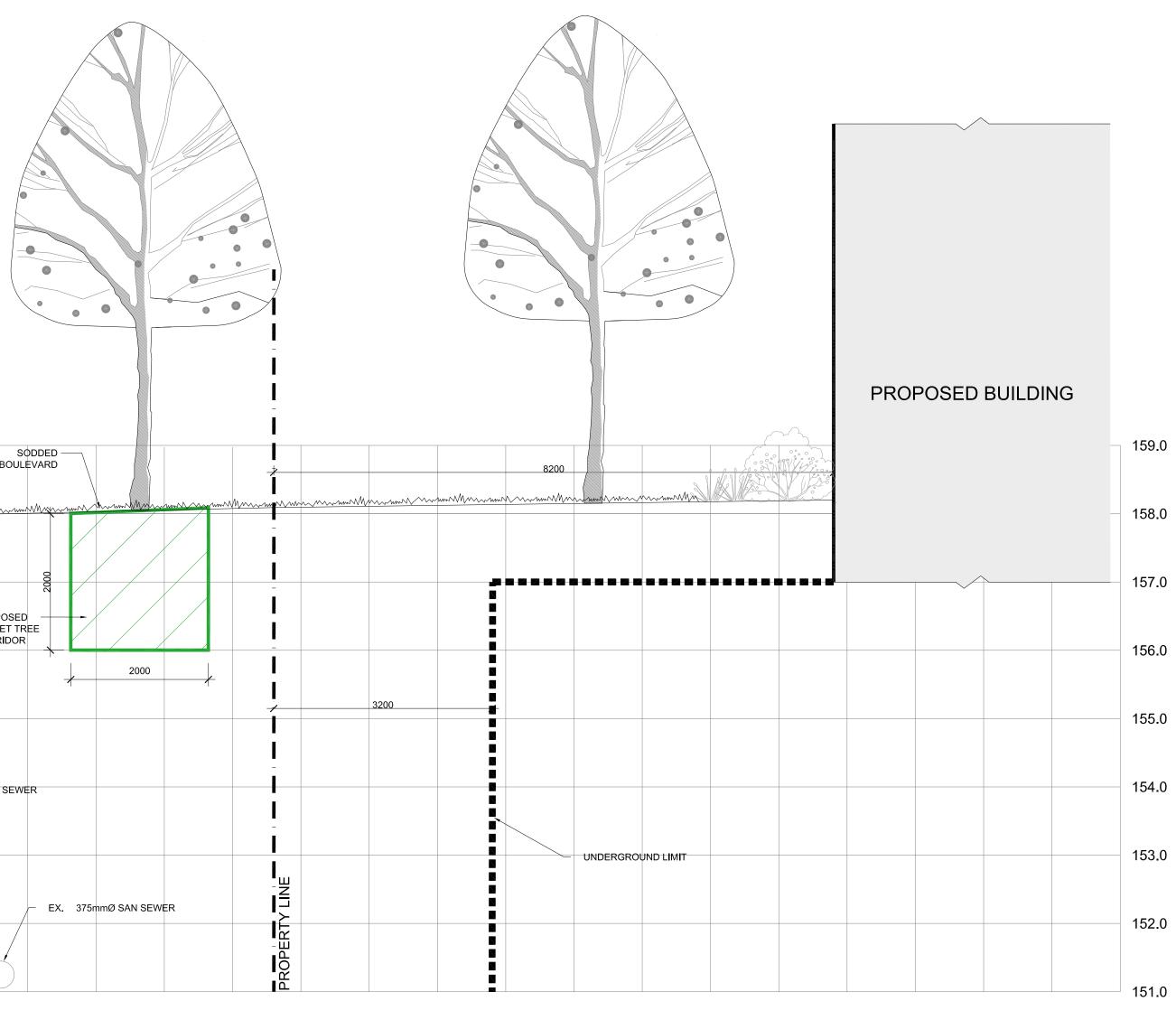


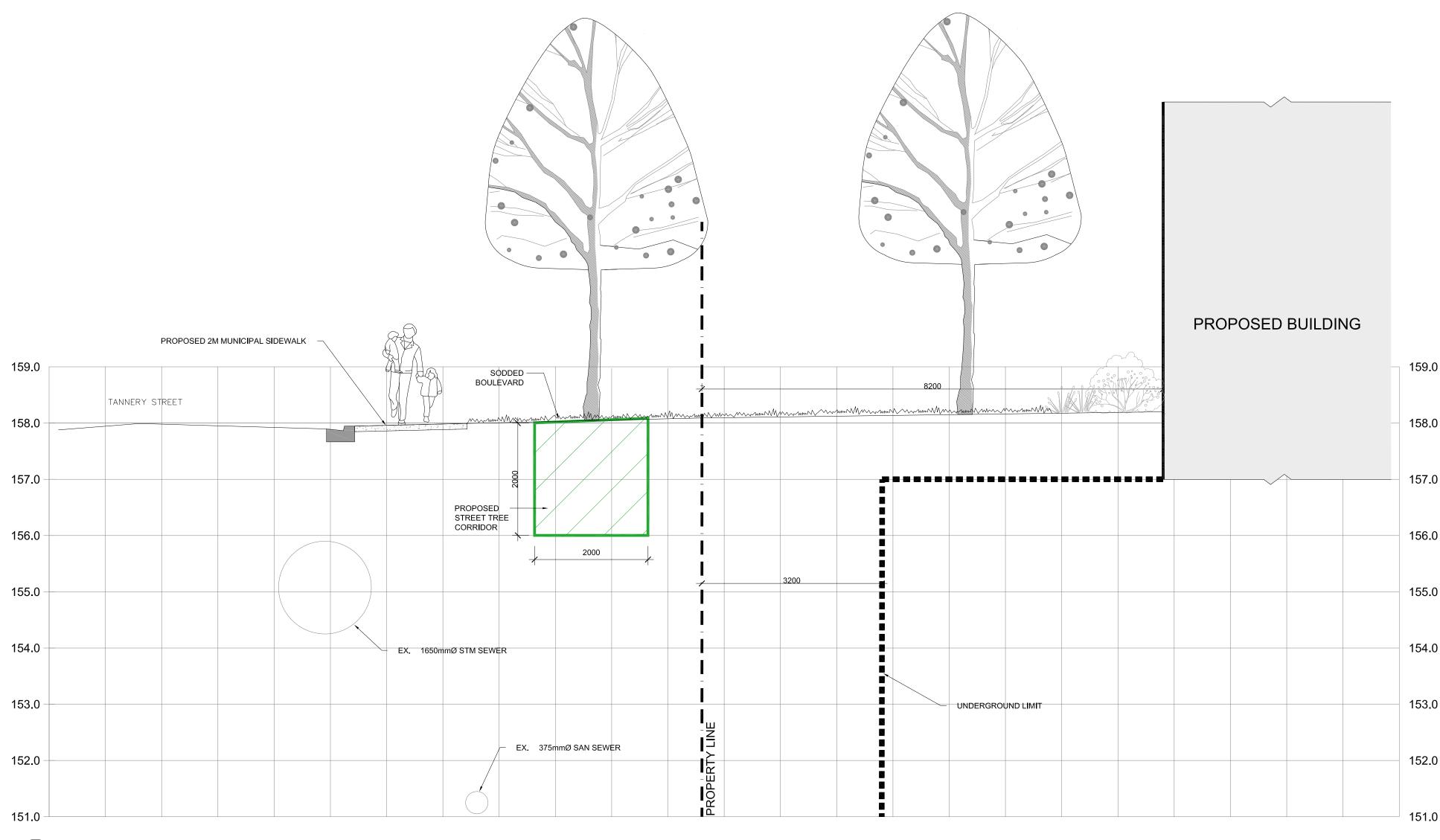
## LANDSCAPE DRAWINGS





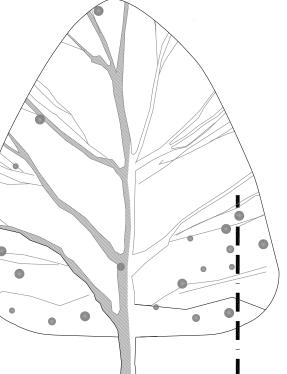




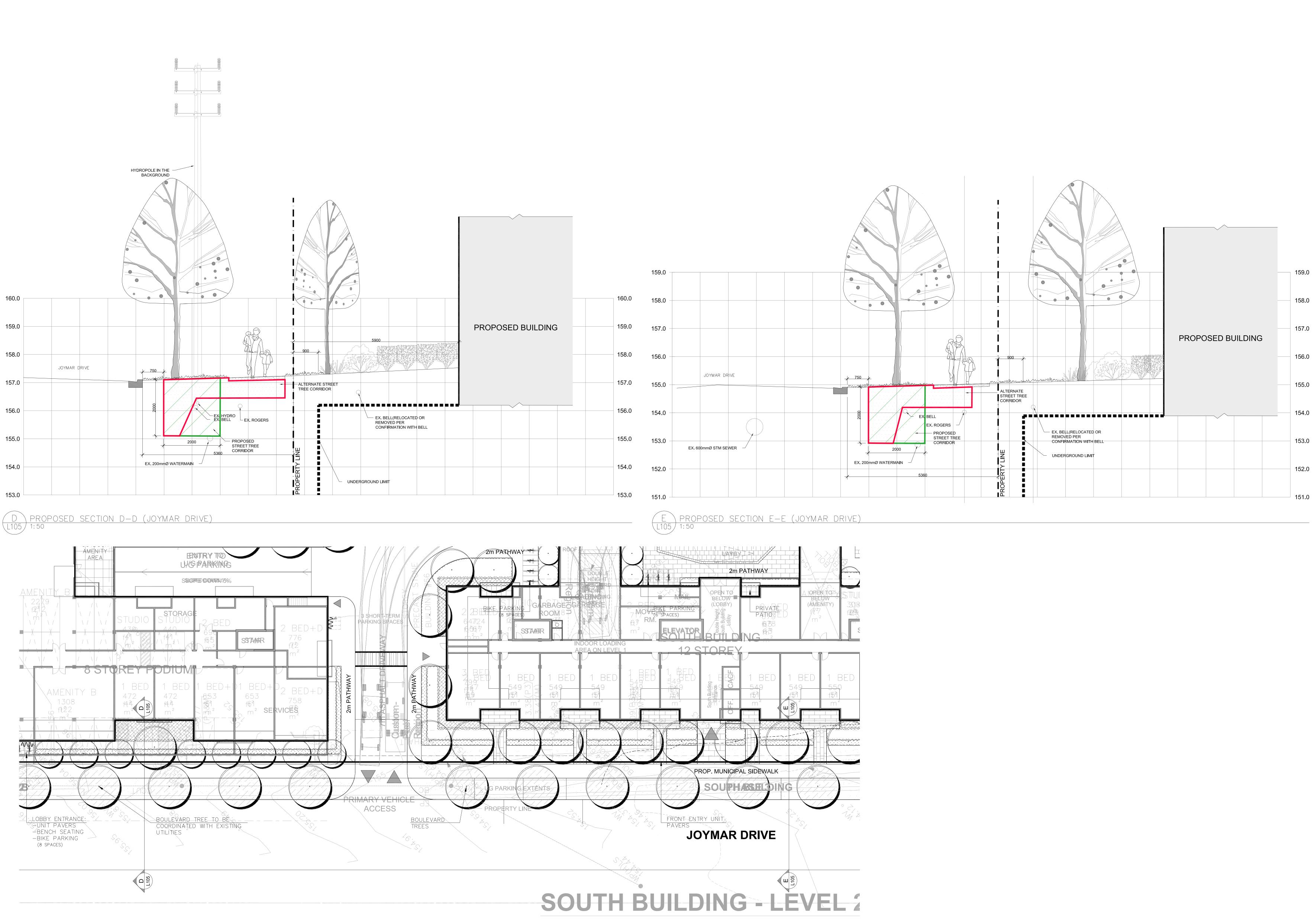


B PROPOSED SECTION B-B (TANNERY STREET) L104 1:50

58.0	TANNERY STREET	SODDED BOULEVARD	158.0
57.0			157.0
56.0		PROPOSED STREET TREE CORRIDOR	156.0
55.0			155.0
54.0			154.0
53.0 —		EX. 1650mmØ STM SEWER	153.0
52.0	EX. 375mmØ SAN SEWER		152.0
51.0			151.0

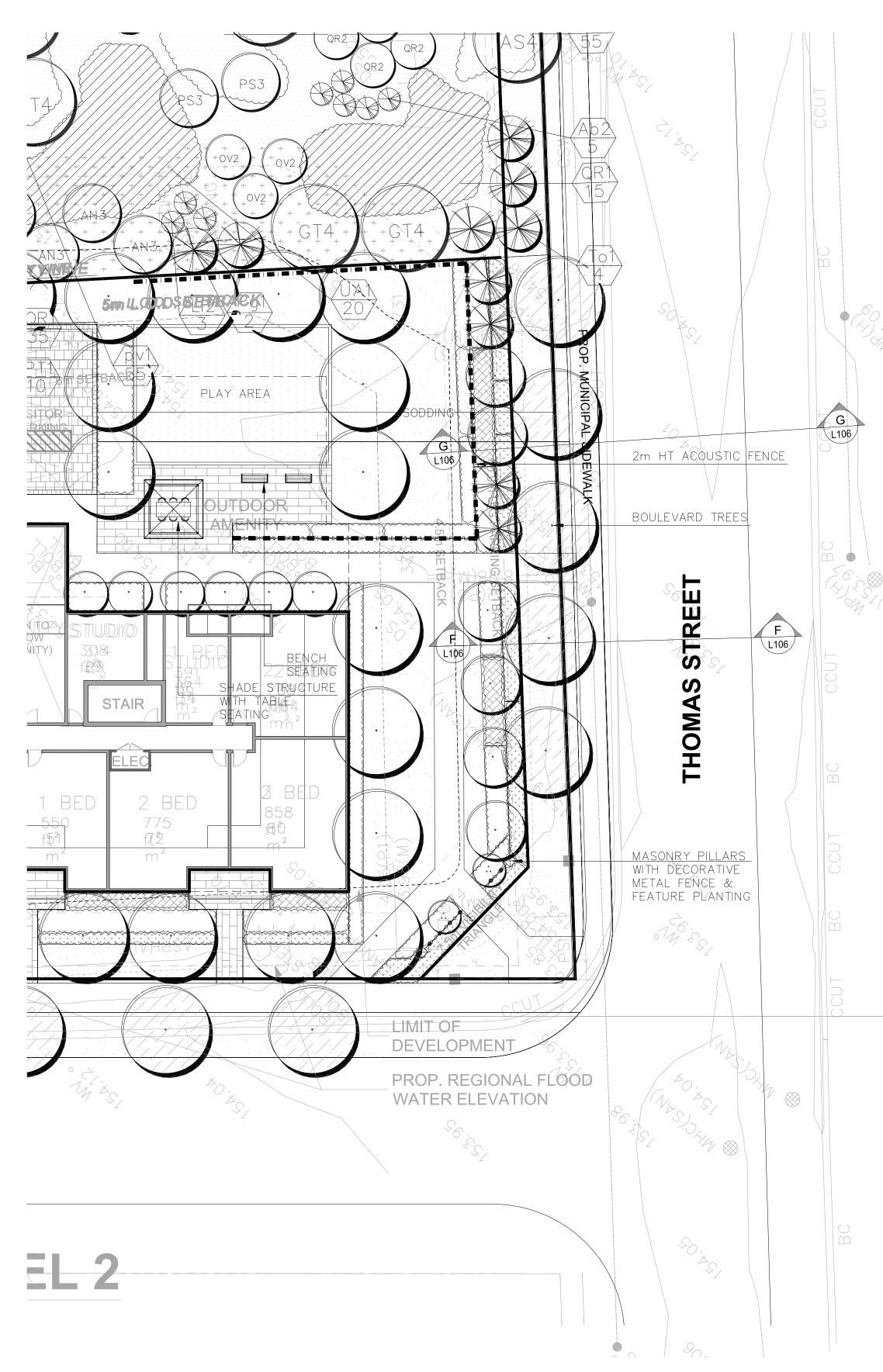


GENERAL NOTES VERIFY ALL DIMENSIONS. DO NOT SCALE DRAWINGS. REPORT ANY DISCREPANCIES, DISCOVERED ERRORS, OR OMISSIONS TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING. IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE THE USE OF THE LATEST REVISED DRAWINGS. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT. KEY MAP 6 DEC. 20, 2024 ISSUED FOR OPA/ZBA SUBMISSION B.B. 5 APRIL 26, 2024 ISSUED FOR SUBMISSION B.B. 4JAN. 30, 2023ISSUED FOR COORDINATION3DEC.15, 2022ISSUED FOR COORDINATION B.B. B.B. B.B. MG BY. 2JUNE 22, 2020REVISED SITE PLAN1JULY 04, 2019FOR SUBMISSION No. DATE. REVISION. It is the responsibility of the Contractor and/or Owner to ensure that the drawings with the latest revisions are used for construction. 5770 HURONTARIO STREET, SUITE 320 MISSISSAUGA, ONTARIO, L5R 3G5 T: 416.695.4949 F: 905.712.3101 WWW.STRYBOS.COM STRYBOS BARRON KING PROJECT. PROPOSED STACKED TOWNHOUSE DEVELOPEMNT 65-95 JOYMAR DRIVE MISSISSAUGA, ONTARIO DRAWING TITLE. STREETSCAPE PLAN SCALE. PROJECT No. AS SHOWN 19-5173 DATE. MAY 2019 DRAWN BY. DRAWING No. SM L104 CHECKED BY. B.B.

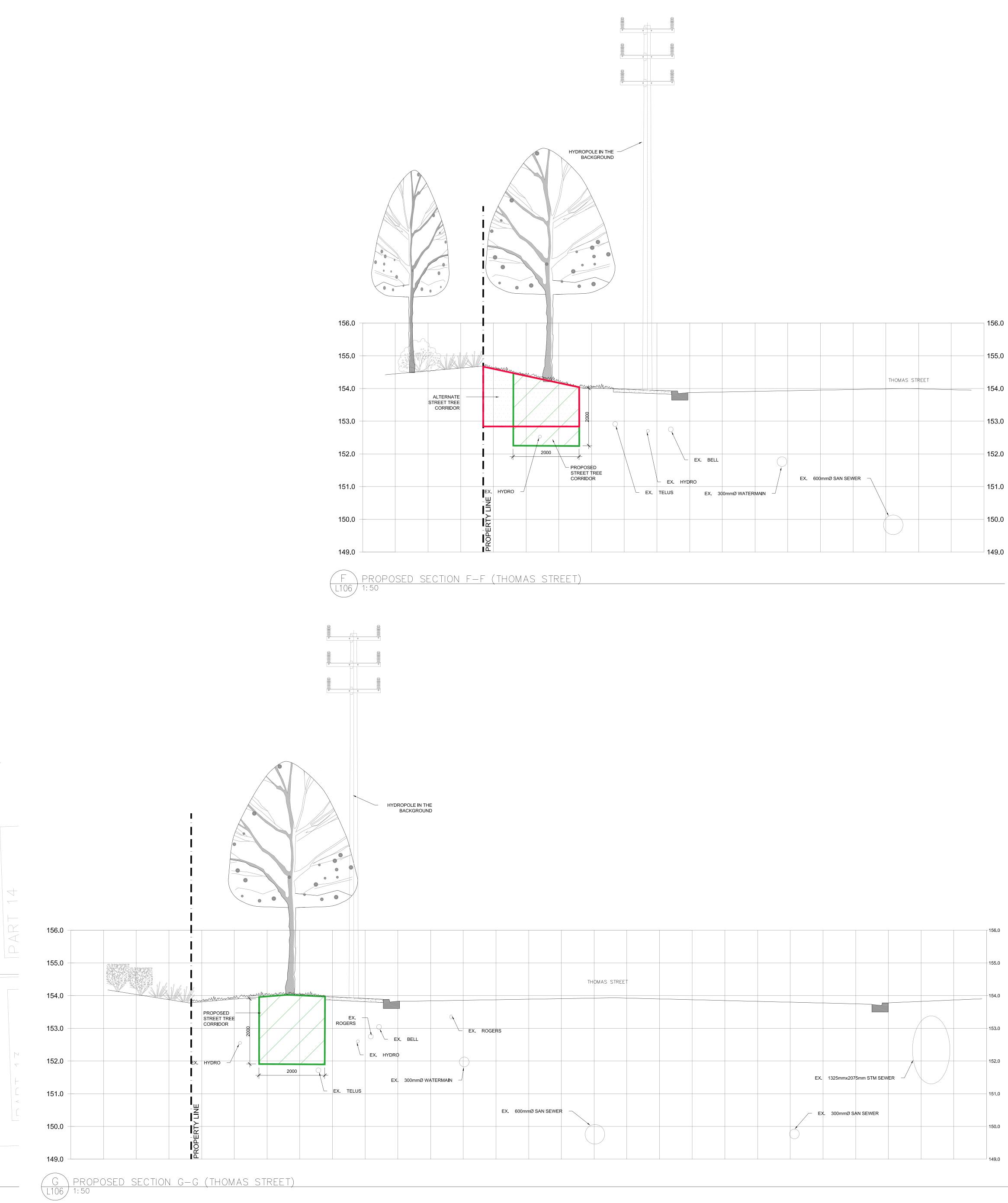


		160.0
en san der der der	PROPOSED BUILDING	159.0
		158.0
		157.0
<b>I I I I I I I I I I I I I I I</b> I I I I		156.0
		155.0
		154.0
		153.0

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# BOULEVARD STREETSCAPE PLAN 1:200



	156.0
	100.0
THOMAS STREET IN THOMAS STREET. THOMAS STREET IN THOMAS STREET IN THOMAS STREET IN THOMAS STREET IN THOMAS STREET. THOMAS STREET IN THOMAS STREET IN THOMAS STREET IN THOMAS STREET IN THOMAS STREET. THOMAS STREET IN THOMAS STREET. THOMAS STREET IN THOMAS STREET	154.0
ROGERS	100.0
Image: second	152.0
Image: Second	151.0
EX. 600mmØ SAN SEWER	150.0
	149.0

**GENERAL NOTES** VERIFY ALL DIMENSIONS. DO NOT SCALE DRAWINGS. REPORT ANY DISCREPANCIES, DISCOVERED ERRORS, OR OMISSIONS TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING. IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE THE USE OF THE LATEST REVISED DRAWINGS. DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT. KEY MAP 6 DEC. 20, 2024 ISSUED FOR OPA/ZBA SUBMISSION B.B. 5 APRIL 26, 2024 ISSUED FOR SUBMISSION B.B. 4JAN. 30, 2023ISSUED FOR COORDINATION3DEC.15, 2022ISSUED FOR COORDINATION B.B. B.B. B.B. MG BY. 2 JUNE 22, 2020 REVISED SITE PLAN 1 JULY 04, 2019 FOR SUBMISSION No. DATE. REVISION. It is the responsibility of the Contractor and/or Owner to ensure that the drawings with the latest revisions are used for construction. 5770 HURONTARIO STREET, SUITE 320 MISSISSAUGA, ONTARIO, L5R 3G5 T: 416.695.4949 F: 905.712.3101 WWW.STRYBOS.COM STRYBOS BARRON KING LANDSCAPE ARCHITECTURE PROJECT. PROPOSED STACKED TOWNHOUSE DEVELOPEMNT 65-95 JOYMAR DRIVE MISSISSAUGA, ONTARIO DRAWING TITLE. STREETSCAPE PLAN PROJECT No. SCALE. AS SHOWN 19-5173 DATE. MAY 2019 DRAWN BY. DRAWING No. SM L106 CHECKED BY. B.B.