

**LEGEND**

- PROPERTY LINE
- EXISTING WATERMAIN & GATE VALVE
- EXISTING STORM SEWER & MANHOLE
- EXISTING SINGLE / DOUBLE CATCHBASIN
- EXISTING SANITARY SEWER & MANHOLE
- PROPOSED WATERMAIN & GATE VALVE
- PROPOSED WATER SERVICE LATERAL (Xxmm)
- PROPOSED FIRE HYDRANT & GATE VALVE
- PROPOSED STORM SEWER & MANHOLE
- PROPOSED SINGLE / DOUBLE CATCHBASIN
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED SAN. SERVICE LATERAL (125mm)
- PROPOSED ELECTRICAL TRANSFORMER
- PROPOSED RETAINING WALL

No.	ISSUE / REVISION	DATE
2	ISSUED FOR 2nd ZBA SUBMISSION	2019/OCT/07
1	NOT ISSUED WITH THIS SUBMISSION	2019/JUL/05
0	ISSUED FOR 1st SUBMISSION	2019/MAR/15

**ELEVATION NOTE:**  
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**SURVEY NOTES:**  
TOPOGRAPHIC SURVEY PREPARED BY VAN HARTEN SURVEYING AND ENGINEERING, DATED JANUARY 29, 2019. BEARINGS ARE UTM GRID BEARINGS AND ARE DERIVED FROM GPS OBSERVATIONS AND ARE REFERRED TO THE UTM PROJECTION, CENTRAL MERIDIAN 81°00' W LONGITUDE, ZONE 17, NAD 83 (CSRS), EPOCH 2010. DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.999759.

**SITE PLAN NOTES:**  
DESIGN ELEMENTS ARE BASED ON SITE PLAN DEVELOPMENT CONCEPT PLAN BY CUBE ARCHITECTS INC. WESTON CONSULTING  
DRAWING No.: A001 (2019/AUG/20)  
FILE No.: 1834

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**PROPOSED RESIDENTIAL DEVELOPMENT**  
20 SCOTT STREET  
TOWN OF GRAND VALLEY

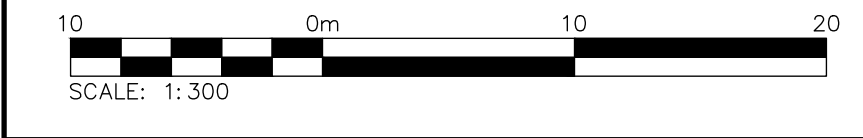
**PRELIMINARY SERVICING PLAN**

**NOT FOR CONSTRUCTION**

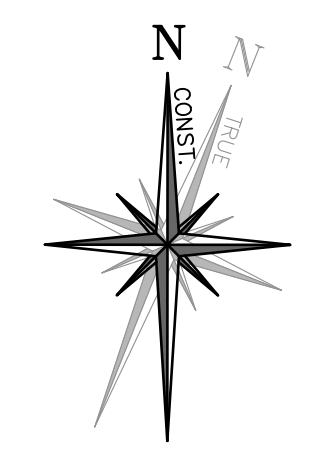
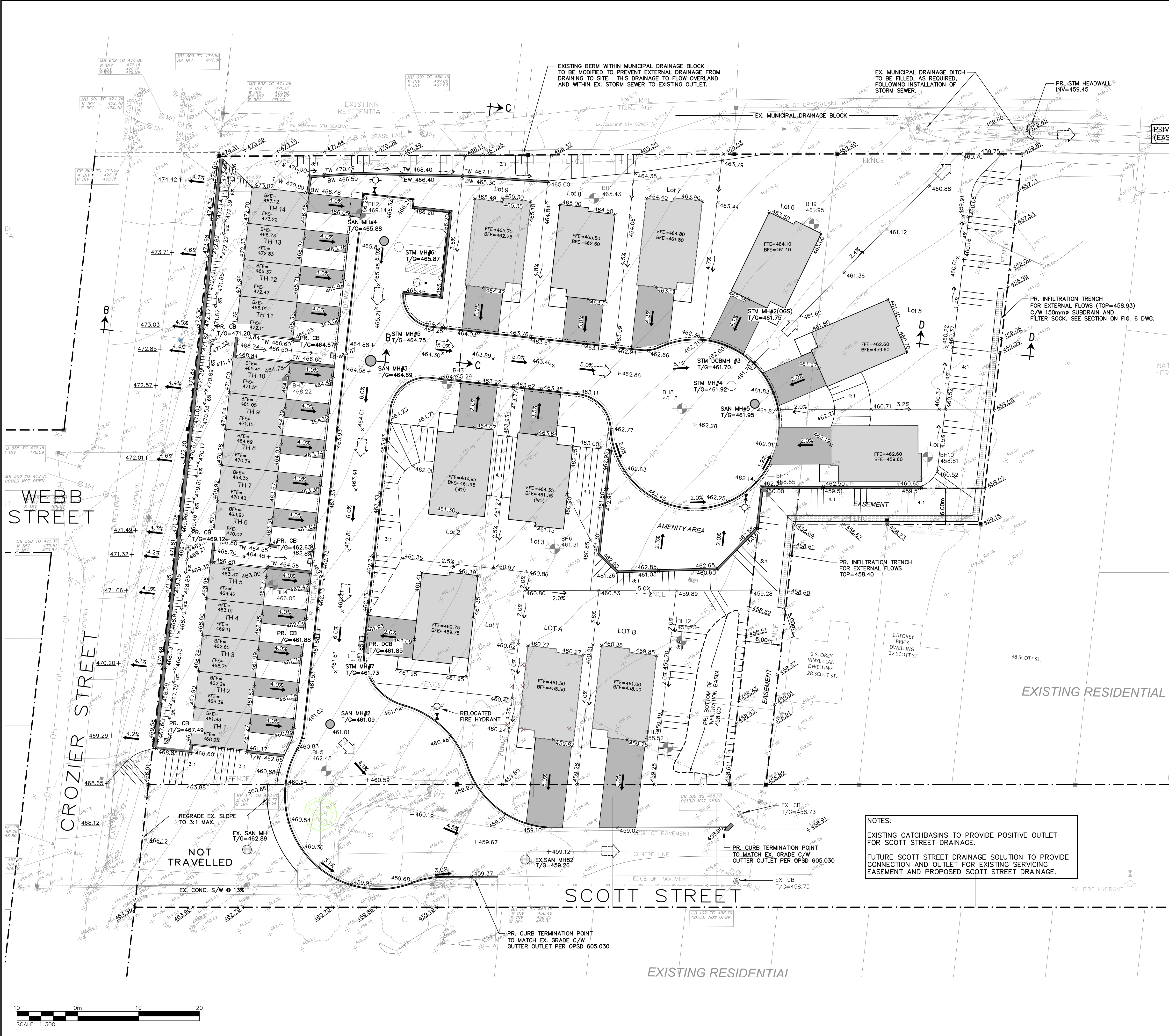
**PRELIMINARY**

**CROZIER CONSULTING ENGINEERS**  
2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA

Drawn	M.J.M.	Design	B.W.	Project No.	1559-5037
Check	S.C.	Check	K.J.F./J.K.	Scale	1:300
				Dwg.	FIG 1







**LEGEND**

- PROPERTY LINE
- EXISTING CONTOUR (0.5m)
- EXISTING CONTOUR (1.0m)
- EXISTING DITCH
- EXISTING FENCE
- EXISTING GRADE
- PROPOSED GRADE
- PROPOSED GRADE (TO MATCH EXISTING)
- PROPOSED MINOR FLOW DIRECTION
- PROPOSED GRASSED SWALE
- PROPOSED SNOW STORAGE AREA
- PROPOSED RETAINING WALL
- PROPOSED SLOPE (3:1 MAX.)
- PROPOSED MAJOR OVERLAND FLOW DIRECTION
- PROPOSED ELECTRICAL TRANSFORMER
- PROPOSED FIRE HYDRANT & GATE VALVE
- BOREHOLE LOCATION PER PLAN PREPARED BY CHUNG & VANDER DOELEN ENGINEERING LTD. DATED, FEBRUARY 2019 - FILE NO. G17440

NOTE:  
REFER TO FIGURES 4-6 FOR CROSS-SECTION PROFILE DETAILS

NOTE:  
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No.	ISSUE / REVISION	YYYY/MM/DD

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**PROPOSED RESIDENTIAL DEVELOPMENT  
20 SCOTT STREET  
TOWN OF GRAND VALLEY**

**PRELIMINARY GRADING PLAN**

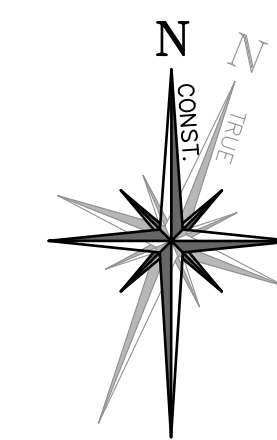
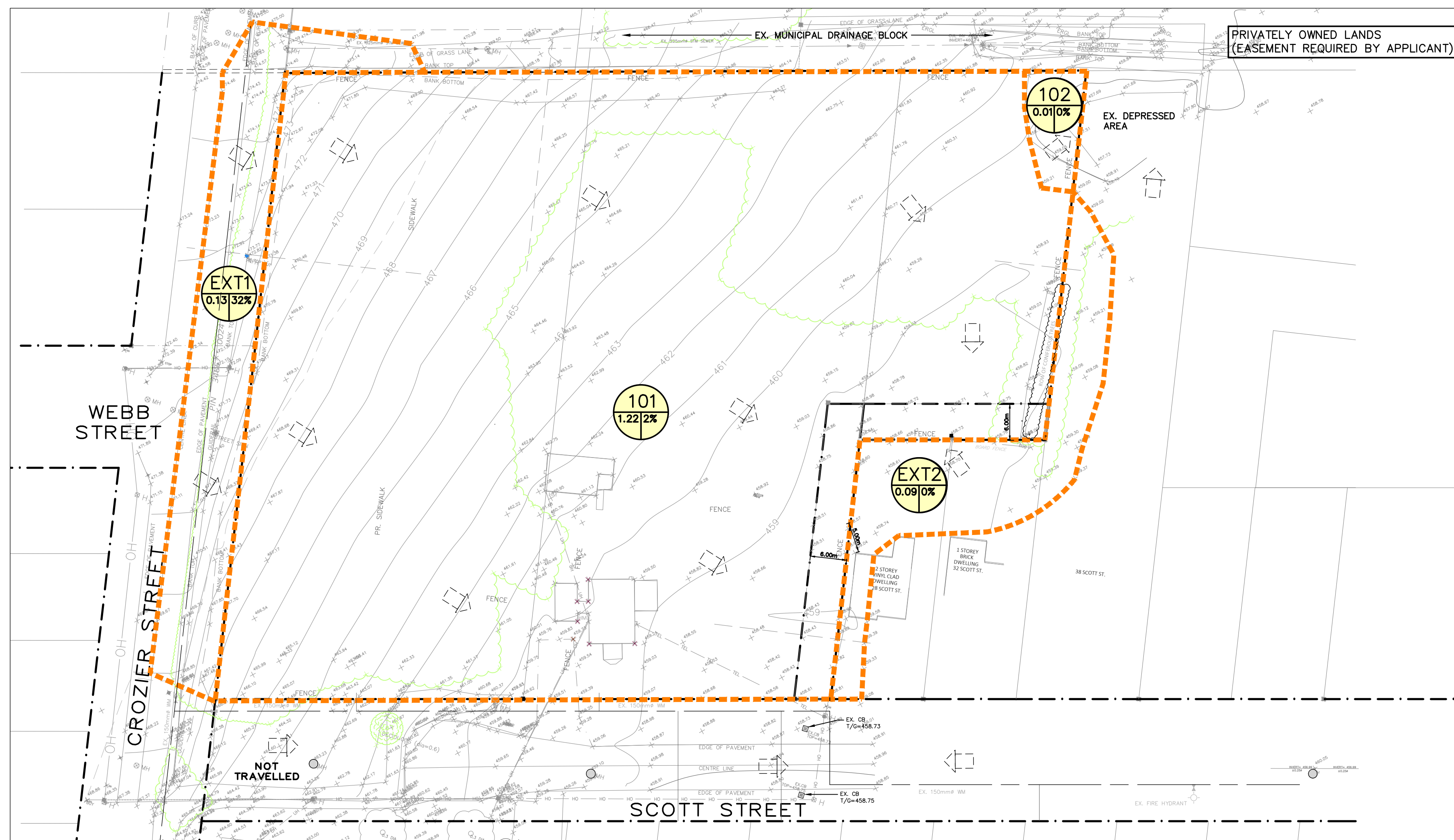
**NOT FOR CONSTRUCTION**

**PRELIMINARY**

Drawn	M.I.M.	Design	B.W.	Project No.	1559-5037
Check	S.C.	Checked	K.J.F./J.K.	Scale	1:300
				Dwg.	FIG 2







**LEGEND**

- PROPERTY LINE
- EXISTING CONTOUR (1.0m)
- EXISTING DITCH
- EXISTING GRADE
- PROPOSED OVERLAND FLOW DIRECTION
- EXISTING OVERLAND FLOW DIRECTION
- STORM DRAINAGE CATCHMENT
- CATCHMENT I.D.
- AREA (ha) | PERCENT IMPERVIOUS (%)



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**PROPOSED RESIDENTIAL DEVELOPMENT  
20 SCOTT STREET  
TOWN OF GRAND VALLEY**

EXISTING & PROPOSED DRAINAGE PLAN

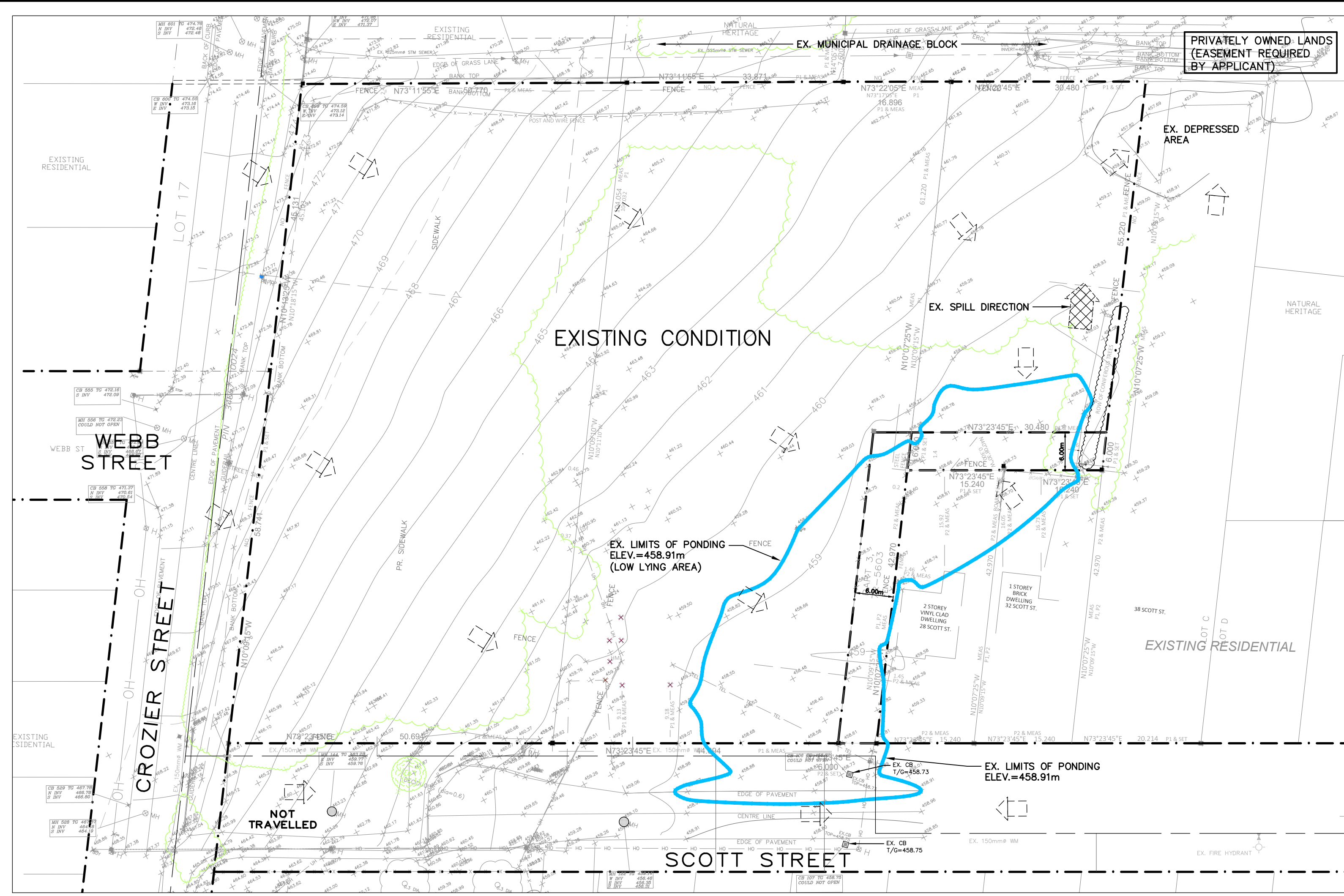
**NOT FOR CONSTRUCTION**

**PRELIMINARY**

**CROZIER CONSULTING ENGINEERS**  
2800 HIGH POINT DRIVE SUITE 100 MILTON, ON L9T 6P4 905-875-0026 T 905-875-4915 F WWW.CFCROZIER.CA

Drawn	M.I.M.	Design	B.W.	Project No.	1559-5037	
Check	S.C.	Check	K.J.F./J.K.	Scale	1:500	
					Dwg.	FIG 3

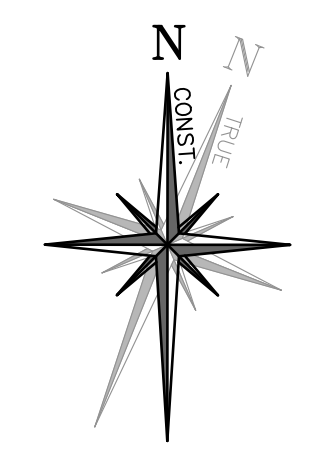




**EXISTING INFILTRATION/SURFACE PONDING**

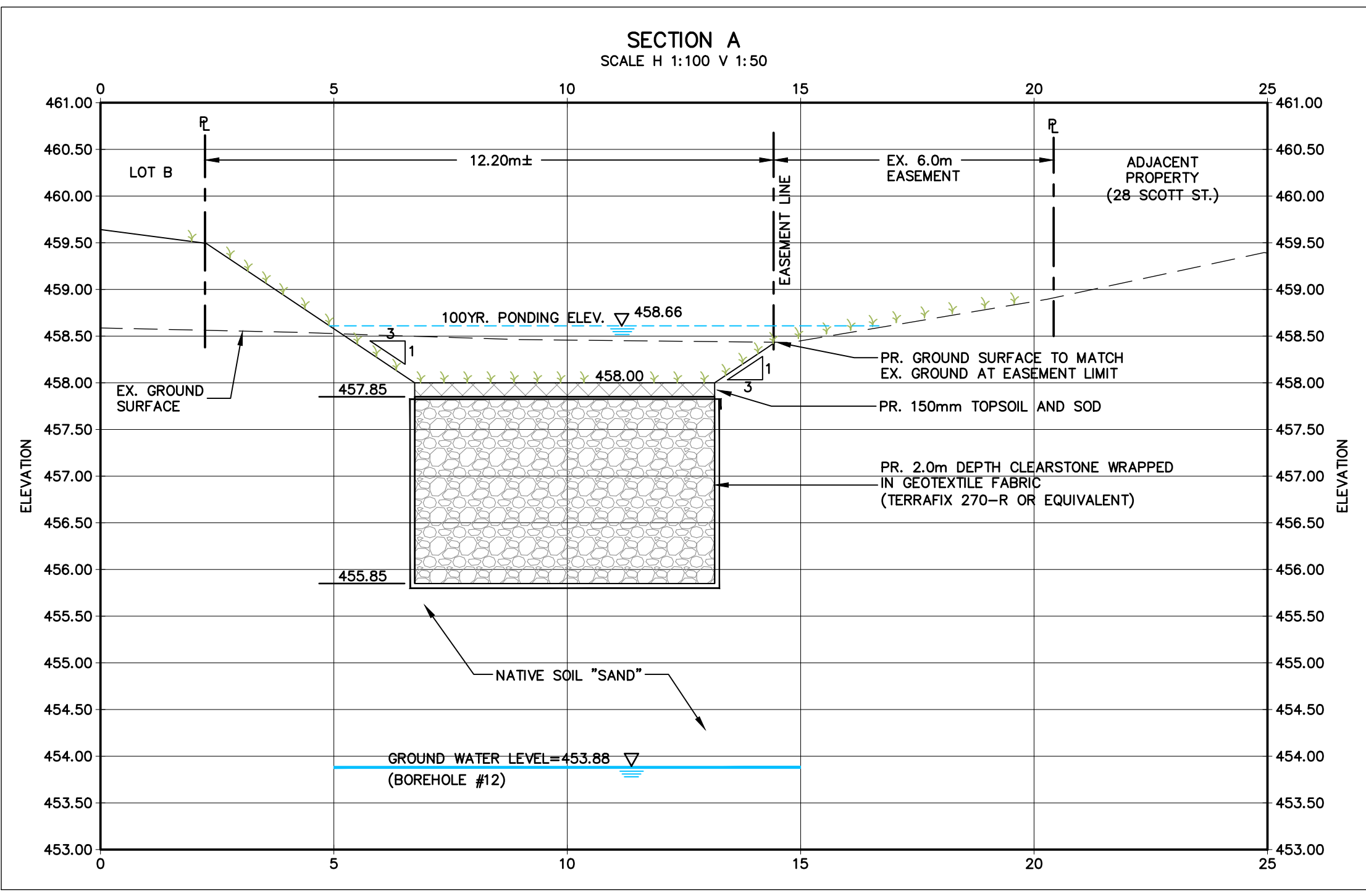
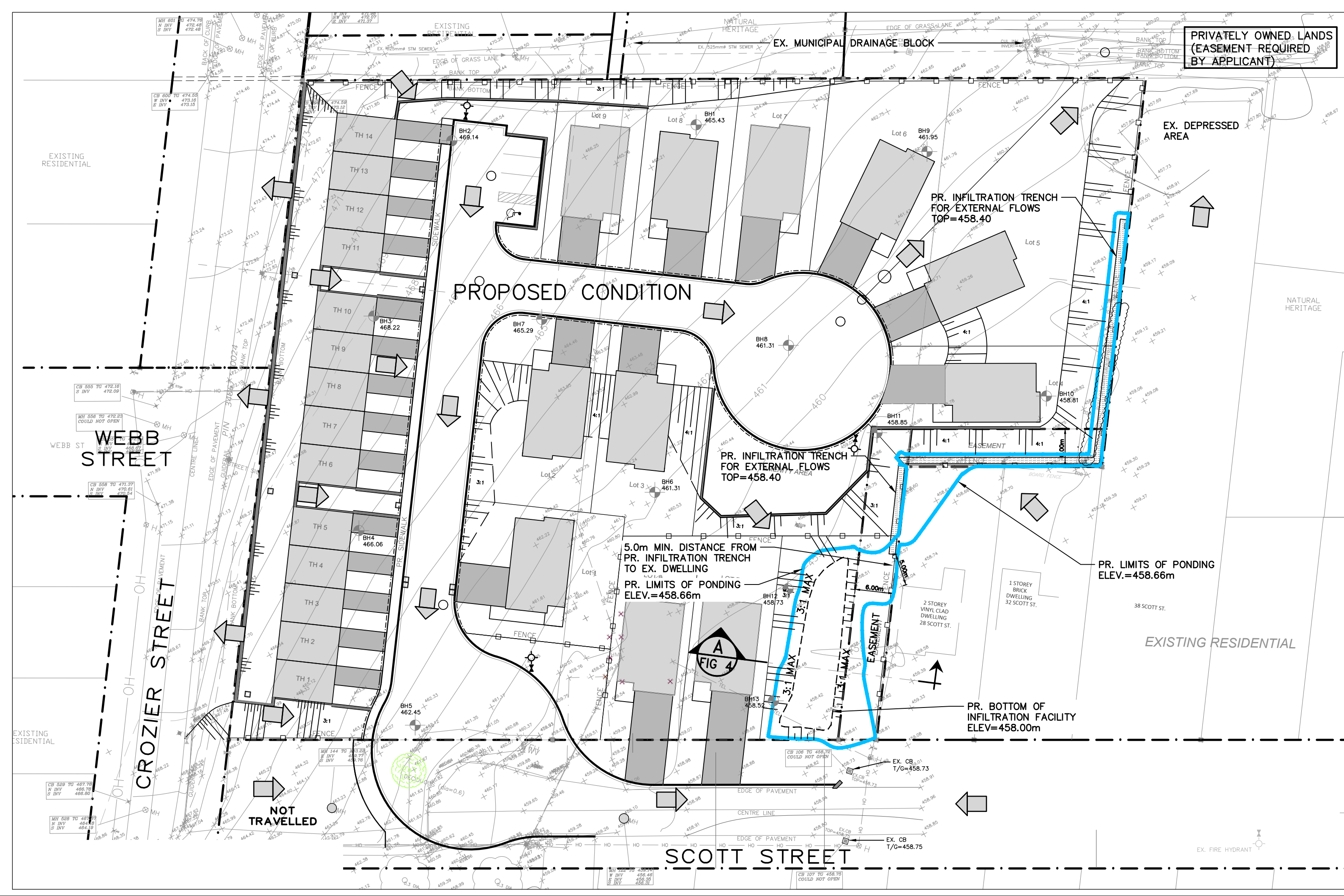
PONDING AREA	1900m <sup>2</sup>
MAX. PONDING ELEVATION	458.91m
MAX. PONDING DEPTH	0.49m
TOTAL SURFACE VOLUME	378m <sup>3</sup> (AVAILABLE)
REQ'D STORAGE VOLUME (100 YR.)	719m <sup>3</sup> (MIDUSS OUTPUT)

**NOTE:**  
EXISTING PONDING DETAILS ARE BASED ON AVAILABLE TOPOGRAPHIC INFORMATION FOR SUBJECT LANDS AND ADJACENT CATCHMENT AREAS.



**LEGEND**

	PROPERTY LINE
	EXISTING CONTOUR (1.0m)
	EXISTING DITCH
	EXISTING GRADE
	PROPOSED OVERLAND FLOW DIRECTION
	EXISTING OVERLAND FLOW DIRECTION
	EXISTING SPILL DIRECTION
	PONDING LIMITS



**PROPOSED INFILTRATION FACILITY**

100YR. PONDING AREA	721m <sup>2</sup>
100YR. PONDING ELEVATION	458.66m
100YR. PONDING DEPTH (WITHIN PR. DEPRESSION AREA)	0.66m
INFILTRATION FACILITY SURFACE VOLUME	241m <sup>3</sup>
INFILTRATION FACILITY SUBSURFACE VOLUME	130m <sup>3</sup>
INFILTRATION TRENCH SUBSURFACE VOLUME	17m <sup>3</sup>
TOTAL VOLUME	388m <sup>3</sup>
REQ'D STORAGE VOLUME (100 YR.)	244m <sup>3</sup>

**NOTE:**  
MAXIMUM SURFACE PONDING ELEVATION EXCLUDES AVAILABLE SUBSURFACE STORAGE IN PROPOSED INFILTRATION GALLERY AND TRENCH.

**NOT FOR CONSTRUCTION**

**PRELIMINARY**

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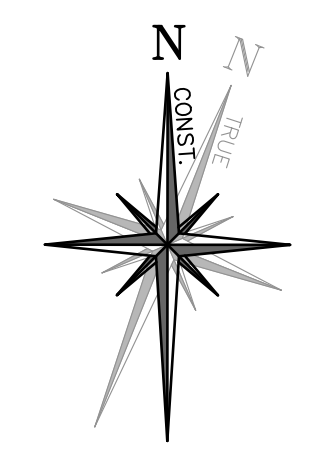
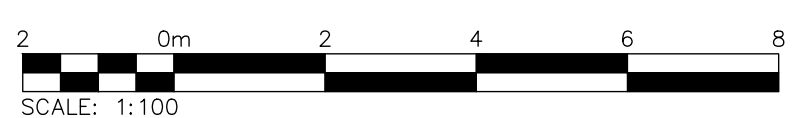
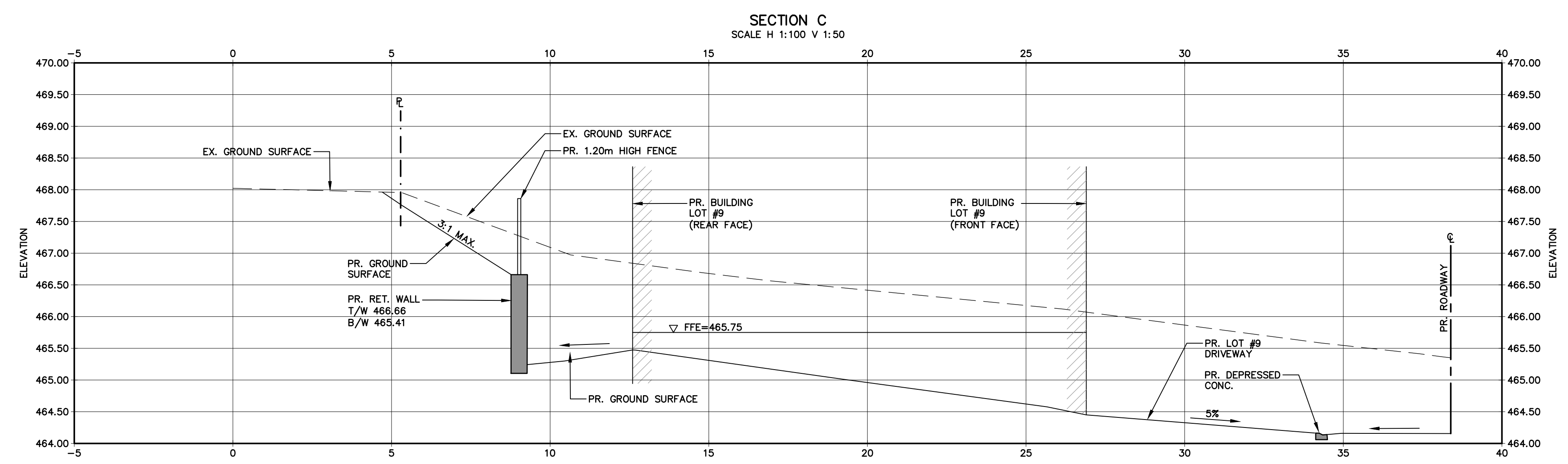
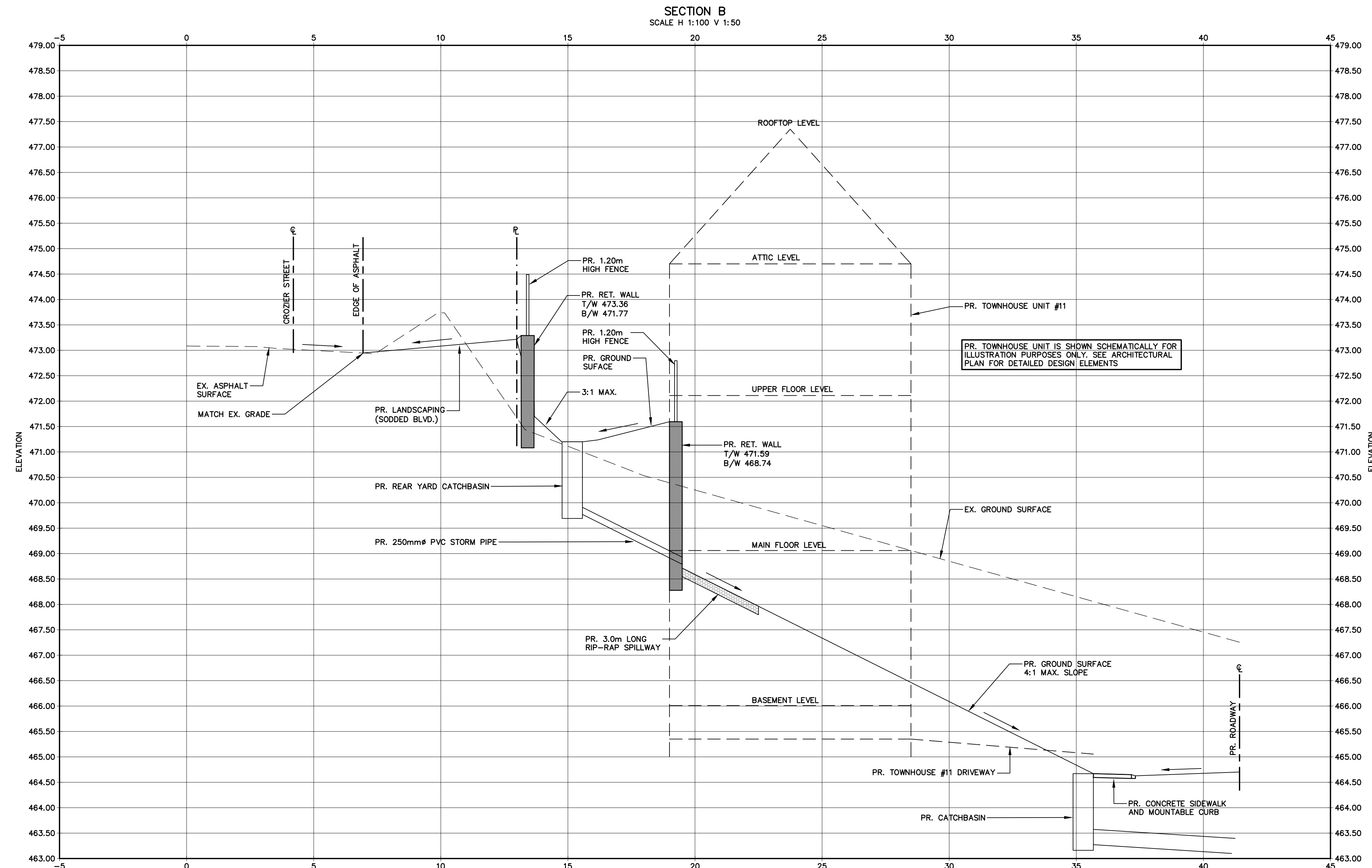
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**PROPOSED RESIDENTIAL DEVELOPMENT  
20 SCOTT STREET  
TOWN OF GRAND VALLEY**

**EXISTING & PROPOSED  
PONDING LIMITS**

Drawn	M.I.M.	Design	B.W.	Project No.	1559-5037
Check	S.C.	Check	K.J.F./J.K.	Scale	1:500
				Dwg	FIG 4





**LEGEND**

	PROPERTY LINE
	PROPOSED RETAINING WALL

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Project  
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20 SCOTT STREET  
TOWN OF GRAND VALLEY**

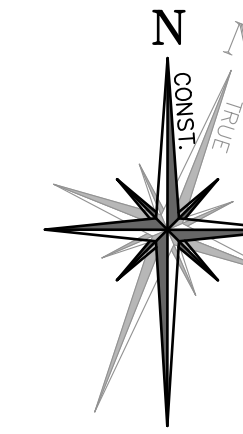
Drawing  
**PRELIMINARY SERVICING PLAN**

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**PRELIMINARY**

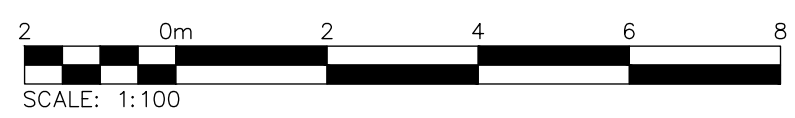
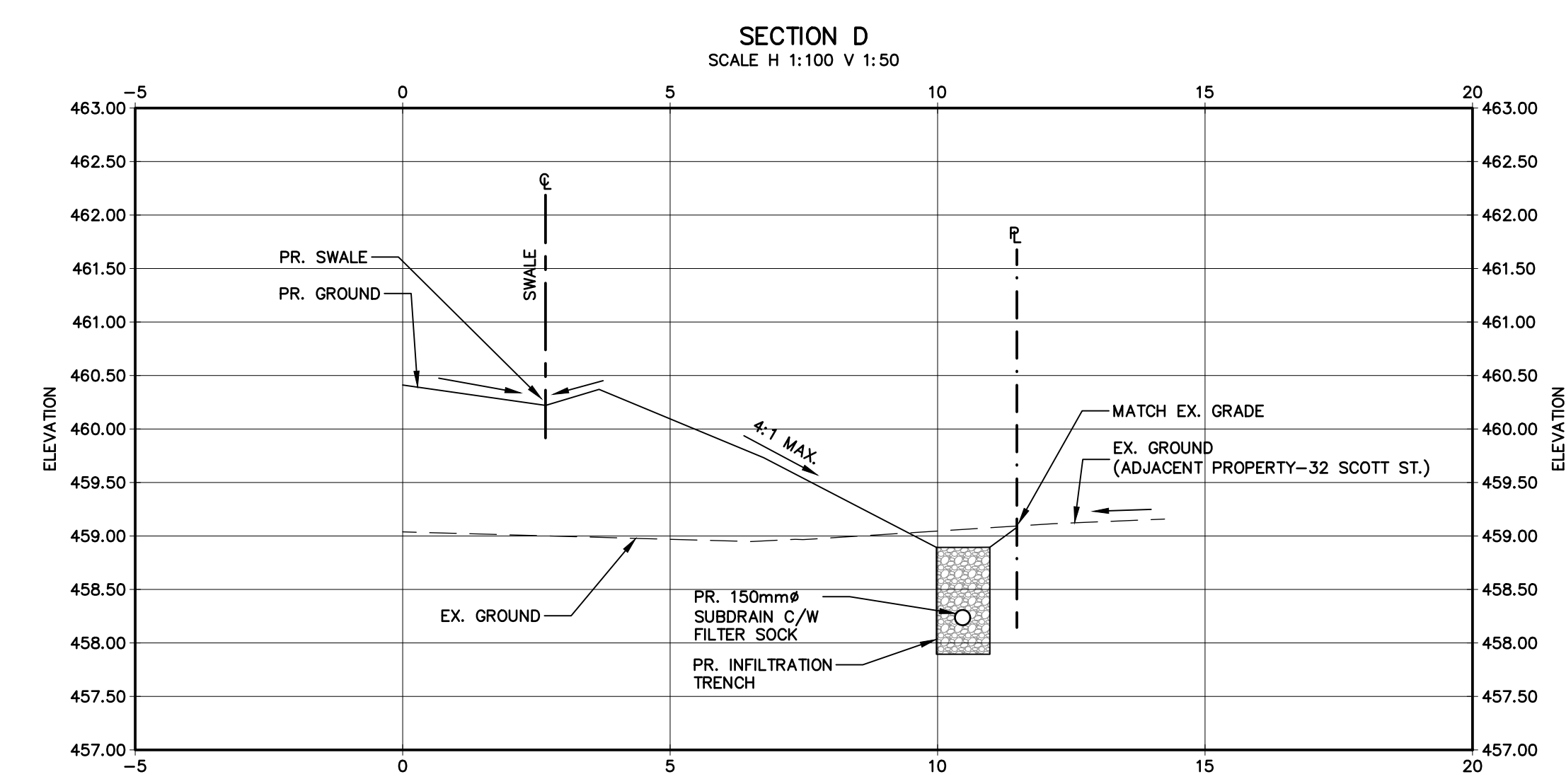
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2800 HIGH POINT DRIVE SUITE 100  
MILTON, ON L9T 6P4  
905-875-0026 T  
905-875-4915 F  
WWW.CFCROZIER.CA

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Check	S.C.	Check	K.J.F./J.K.	Scale	H 1:100 V 1:50	
					Dwg.	FIG 5



**LEGEND**

	PROPERTY LINE
	PROPOSED RETAINING WALL



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Project  
**PROPOSED RESIDENTIAL DEVELOPMENT  
20 SCOTT STREET  
TOWN OF GRAND VALLEY**

Drawing  
**PRELIMINARY SERVICING PLAN**

**NOT FOR CONSTRUCTION**

**PRELIMINARY**

Drawn	M.J.M.	Design	B.W.	Project No.	<b>1559-5037</b>
Check	S.C.	Check	K.J.F./J.K.	Scale	Dwg. <b>FIG 6</b>