COORDINATES: MTM ZONE 9

JOHN CAVANAUGH DRIVE

MCGEE SIDE ROAD

PROPOSED BUILDING

BH 1-20
117.98
(113.18)

BH 2-20
117.96
(115.14)

BH 3-20
117.39
(114.95)

BH 4-20
117.07
(114.39)

BH 5-20
117.95
(116.36)

BH 6-20
117.23
(114.66)

BH 7-20
118.05
(116.02)

PT 1-23

PT 2-23

INFILTRATION TRENCH

GRAVEL AREA

CONCRETE PAD & GARBAGE ENCLOSURE

EDGE OF GRAVEL

UTILITY POLE

SUBJECT

No. 2171
1 STOREY
BRICK BUILDING
(Brief Noted)

PERMEAMETER (INFILTRATION) TESTING LOCATIONS

BOREHOLE LOCATION (PATERSON GROUP REPORT : DECEMBER 2020)

117.96 GROUND SURFACE ELEVATION (m)

(115.14) PRACTICAL REFUSAL TO AUGERING ELEVATION (m)

SCALE: 1:500

0 5 10 15 20 25 30m

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Table 1 - Field Saturated Hydraulic Conductivity and Estimated Infiltration Results

Testing ID	Ground Surface (m asl)	Testing Elevation (m asl)	Material	Kfs (m/sec)	Infiltration Rate (mm/hr)	Design Infiltratinon Rate (mm/hr)
PT 1-23	117.1	116	Glacial Till (Silty Sand w. Gravel)	2.10E-06	56	16
		115.5	Glacial Till (Silty Sand w. Gravel)	1.10E-06	47	
PT 2-23	116.9	116.2	Fill (Silty Sand w. Cobbles and Org.)	2.10E-05	104	30
		115.7	Glacial Till (Silty Sand w. Gravel, Cobbles and Boulders)	4.30E-06	68	
		115.2	Glacial Till (Silty Sand w. Gravel, Cobbles and Boulders)	2.10E-06	56	

Based on the subsurface profile and field testing results, a safety correction factor of 3.5 has been applied to the estimated infiltration rates at the approximate invert elevation of the proposed system. The safety correction factor was calculated based on Appendix C of the Low Impact Development Stormwater Management Planning and Design Guide (CVC-TRCA, 2010).

PATERSON GROUP