

1277 JOHN BRACKETT DRIVE
PID 40601023
LANDS OF
NS DEPARTMENT OF NATURAL RESOURCES
HER MAJESTY THE QUEEN IN RIGHT OF THE
PROVINCE OF NOVA SCOTIA

PRELIMINARY STORMWATER MANAGEMENT CALCULATIONS			
DESIGN RAINFALL EVENT	PRE-DEVELOPMENT PEAK RUNOFF TO POINT 1 (m³/s)	UNMITIGATED POST-DEVELOPMENT PEAK RUNOFF TO POINT 1 (m³/s)	APPROX STORAGE VOLUME REQ'D TO BALANCE FLOWS (m³)
1.5-YEAR	0.51	1.05	370
1.10-YEAR	0.63	1.27	460
1.25-YEAR	0.78	1.54	570
1.50-YEAR	0.89	1.72	650
1.100-YEAR	1.00	1.92	750

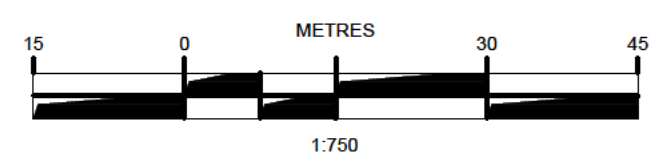
LEGEND		
EXISTING	RIGHT OF WAY	PROPOSED
	LOT LINE	
	EASEMENT	
	WATER PIPE	
	SANITARY PIPE	
	FORCE MAIN	
	STORM PIPE	
	TOP OF SLOPE	
	BOTTOM OF SLOPE	
	SEWERSHED AREA	

SEWERSHED ID (A)

EXISTING GRADE CONTOURS BASED ON LIDAR ELEVATION DATA. CONTOUR INTERVAL = 2 m.

EXISTING PIPE LAYOUT AND SIZES BASED ON GIS DATA PROVIDED BY HALIFAX WATER.

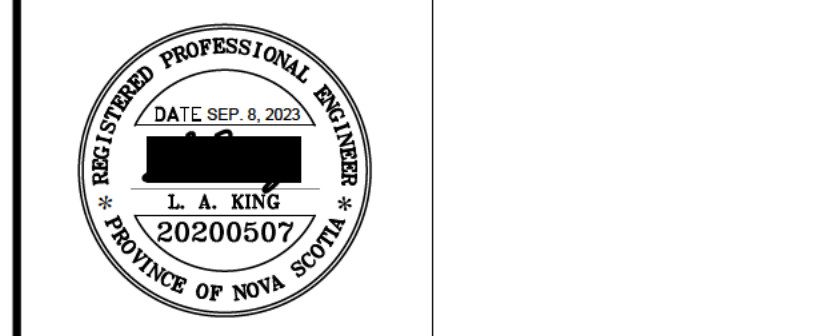
PROPOSED PIPE SIZING IS PRELIMINARY ONLY AND IS SUBJECT TO DETAILED DESIGN.



ISSUE	DATE	DESCRIPTION
2	SEP. 8, 2023	REVISED AS PER HRM COMMENTS
1	APR. 24, 2023	ISSUED FOR DA APPLICATION

DESIGNPOINT
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CLIENT

4343314 NOVA SCOTIA LIMITED

PROJECT DESCRIPTION

COVESIDE WALK

HERRING COVE, NOVA SCOTIA

SHEET DESCRIPTION

SERVICING SCHEMATIC

Drawn T. MILLS	Engineer L. KING	Project No. 22-038	Drawing No. C-SCH01
Scale 1:750	Filename 22-038_Schematic.dwg		01 of 1

PROPOSED WATER DEMANDS			
AVERAGE DAILY (L/min)	MAXIMUM DAILY (L/min)	PEAK HOURLY (L/min)	FIRE FLOW (L/min)
49.7	82.1	124.3	3,300

DOWNSTREAM WASTEWATER ANALYSIS			
Area	Total Area (ha)	Res Units @ 3.35 ppl	Population
S1	3.98	57	191
S2	3.69	40	134
S3	1.32	26	87
S4	1.07	13	44

UIS MH	TRIBUTARY AREAS	Total Area (ha)	Tot. Pop. (ppl)	Domestic Load (L/day)	Average Dry Weather (L/day)	Average Dry Weather Factor	Harmon Peak Factor	Peak Dry Weather (L/day)	Peak Dry Weather (L/s)	Safety Factor	Peak Dry Weather incl SF (L/s)	W Allowance (L/s/ha)	W Loading (L/s)	Peak Wet Weather (L/s)	Pipe Size (mm)	Approx. Upstream Elevation (m)	Approx. Downstream Elevation (m)	Length (m)	Pipe Slope (%)	Pipe Manning's (n)	Pipe Capacity (L/s)	Percent Full (%)	
cap	MH59569	S1	3.98	191	300	57285	0.66	4.16	238036	2.8	1.25	3.4	0.28	1.1	4.6	250	unknown	31.50	38	0.60%	0.010	59.9	8
MH59569	MH59569	S1-S2	7.67	325	300	97485	1.13	4.06	396123	4.6	1.25	5.7	0.28	2.1	7.9	250	31.39	30.39	32	3.13%	0.010	136.9	6
MH59590	MH59574	S1-S2	7.67	325	300	97485	1.13	4.06	396123	4.6	1.25	5.7	0.28	2.1	7.9	250	30.28	28.55	57	3.05%	0.010	135.2	6
MH59574	EX PS	S1-S3	8.99	412	300	123615	1.43	4.02	496438	5.7	1.25	7.2	0.28	2.5	9.7	250	28.32	28.22	8	1.28%	0.010	87.6	11
EX PS	S1-S3		8.99	412	300	123615	1.43	4.02	496438	5.7	1.00	5.7	0.28	2.5	8.2	-	-	-	-	-	-	-	-
MH59564	MH45144	S1-S4	10.05	456	300	136680	1.58	3.99	545991	6.3	1.25	7.9	0.28	2.8	10.7	250	52.68	52.45	23	1.02%	0.010	78.0	14
MH45144	MH45114	S1-S4	10.05	456	300	136680	1.58	3.99	545991	6.3	1.25	7.9	0.28	2.8	10.7	250	52.37	51.90	85	0.55%	0.010	57.3	19
MH45114	MH14343	S1-S4	10.05	456	300	136680	1.58	3.99	545991	6.3	1.25	7.9	0.28	2.8	10.7	250	51.84	51.58	35	0.74%	0.010	66.3	16

*EXISTING PUMP STATION FIRM CAPACITY CALCULATED TO BE APPROX. 32 L/s

