

C CROZIER CONSULTING ENGINEERS																PROJECT: Lora Bay Phase 4 Block 39 PROJECT No.: 183-5908 FILE: Storm Sewer Design									
LORA BAY PHASE 4 BLOCK 39 5 YEAR - STORM SEWER DESIGN MODEL																									
DESIGN: Z. Holland						FREQUENCY				5 YEARS - Owen Sound IDF				100 YEARS - Owen Sound IDF											
CHECK: A. Spencer						5 YEARS		Coef. A=		29.1		Coef. B=		-0.724		Coef. A=		47.7		Coef. B=		-0.738			
UPDATED: September 29, 2021						TIME OF CONCENTRATION				15.00		MANNINGS "n"				0.013									
CATCHMENT AREA I.D.	FR MH NO	TO MH NO	AREA (A) Ha	RUN-OFF COEFF (C _s)	A x C	Cummul. A x C	TIME OF CONC. (min.)	I (mm/hr)	Q (l/sec)	SLOPE (%)	PIPE DIA. (mm)	VEL. (m/sec)	LENGTH (m)	TIME OF FLOW (min)	CAPACITY (l/sec)	FALL (m)	PIPE INV ELEV. UPPER END		LOWER END	GROUND ELEV. UPPER END		LOWER END	COVER UPPER END		LOWER END
Sladden Court Outlet																									
7	CB#1	STMH#6	0.17	0.65	0.111	0.111	15.00	79.39	24.39	1.70	300	1.78	15.0	0.14	126.08	0.26	208.20	207.94	209.79	209.73	1.29	1.49			
10	CB#2	STMH#6	0.17	0.65	0.111	0.111	15.00	79.39	24.39	2.90	300	2.33	9.0	0.06	164.68	0.26	208.20	207.94	209.79	209.73	1.29	1.49			
-	STMH#6	STMH#5	0.00	0.00	0.000	0.221	15.14	78.86	48.45	0.50	300	0.97	18.8	0.32	68.38	0.09	207.86	207.77	209.73	209.36	1.57	1.29			
-	STMH#5	CBMH#4	0.00	0.00	0.000	0.221	15.46	77.66	47.71	0.50	300	0.97	10.2	0.18	68.38	0.06	207.72	207.66	209.36	209.21	1.34	1.25			
8, 9	CBMH#4	STMH#3	0.16	0.65	0.104	0.325	15.64	77.03	69.60	0.50	375	1.12	17.4	0.26	123.98	0.09	207.55	207.46	209.21	209.33	1.29	1.50			
-	STMH#3	DCBMH#2	0.00	0.00	0.000	0.325	15.90	76.12	68.77	0.50	375	1.12	14.7	0.22	123.98	0.07	207.41	207.34	209.33	209.34	1.55	1.63			
5	DCBMH#2	STMH#1	0.09	0.65	0.059	0.384	16.12	75.37	80.36	0.50	375	1.12	19.1	0.28	123.98	0.09	207.26	207.16	209.34	209.44	1.71	1.90			
2	STMH#1	Storm Stub	0.06	0.65	0.039	0.423	16.40	74.43	87.42	0.50	375	1.12	12.2	0.18	123.98	0.06	207.08	207.02	209.44	-	1.98	-			
Ditch Outlet																									
4, 11	CB#3	CBMH#8	0.13	0.65	0.085	0.085	15.00	79.39	18.65	0.50	300	0.97	15.1	0.26	68.38	0.08	206.65	206.57	208.23	207.83	1.28	0.96			
3	CBMH#8	CBMH#7	0.19	0.65	0.124	0.208	15.26	78.41	45.34	0.50	300	0.97	38.6	0.67	68.38	0.19	206.14	205.95	207.83	207.64	1.39	1.39			
-	CBMH#7	OUTLET #1	0.00	0.00	0.000	0.208	15.93	76.03	43.96	0.50	300	0.97	5.6	0.10	68.38	0.03	205.87	205.84	207.64	-	1.47	-			

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