

RUNOFF COLLECTION POINT	Downstream Station	Upstream Station	Distance Between Points (feet)	DRAINAGE AREA			Runoff Coeff. "C"	Incr. "CA" (in/hr)	STORMWATER RUNOFF		PROPOSED STORM SEWER			Proposed Storm Slope (ft/ft)	Slope of Hydraulic Gradient Based on Pipe Size (ft/ft)	Full Capacity (c.f.s.)	Depth of Flow (ft)	Actual Flow Velocity (f.p.s.)	Q100 Flow Velocity (f.p.s.)	Head Loss Coeff. K _L	Head Loss at Upstream Station V ₂ ² /2g (feet)	Pipe Flowline Elev. (feet)	Pipe Flowline Upstream Elev. (feet)	Top of Pipe Elev. (feet)	Top of Pipe Upstream Elev. (feet)	H _g Downstream Elev. (feet)	H _g Upstream Elev. (feet)	Full/Partial Flow										
				Incr. "A" (acres)	Accum. "A" (acres)	Incr. "Q ₁ " (c.f.s.)			Accum. "Q ₁ " (c.f.s.)	Pipe or Box Diameter (in)	Rectangular Box Width (ft)	Rectangular Box Height (ft)	Incr. "Q ₂ " (c.f.s.)																Accum. "Q ₂ " (c.f.s.)									
Storm Sewer Line G	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
5+43.74	5+43.74		12.08	G	0.27	0.27	0.75	0.20	9.80	1.98	1.98	Pipe 24	-	-	0.0050	0.0001	16.00	0.04	3.92	0.63	1.25	0.01	540.74	540.74	542.74	542.74	543.76	543.76	543.75	543.75	543.75	543.75	543.75	FULL				
5+36.66	5+36.66		5.00	45 Bend	0.00	0.27	0.75	0.20	9.80	0.00	1.98	Pipe 24	-	-	0.0050	0.0001	16.00	0.04	3.92	0.63	0.50	0.00	540.68	540.68	542.68	542.68	543.75	543.75	543.75	543.75	543.75	543.75	543.75	FULL				
5+31.66	5+31.66		134.97	G-2	0.00	0.27	0.75	0.20	9.80	0.00	1.98	Pipe 24	-	-	0.0050	0.0001	16.00	0.04	3.92	0.63	0.40	0.00	540.65	540.65	542.65	542.65	543.73	543.73	543.74	543.74	543.74	543.74	543.74	FULL				
3+96.69	3+96.69		14.15	45 Bend	0.00	0.27	0.75	0.20	9.80	0.00	1.98	Pipe 24	-	-	0.0050	0.0001	16.00	0.04	3.92	0.63	0.50	0.00	539.98	539.98	541.98	541.98	543.73	543.73	543.73	543.73	543.73	543.73	543.73	FULL				
3+82.54	3+82.54		12.13	45 Bend	0.00	0.27	0.75	0.20	9.80	0.00	1.98	Pipe 24	-	-	0.0050	0.0001	16.00	0.04	3.92	0.63	0.50	0.00	539.91	539.91	541.91	541.91	543.73	543.73	543.73	543.73	543.73	543.73	543.73	543.73	FULL			
3+70.41	3+70.41		42.25	G-1	0.47	0.74	0.75	0.56	9.80	3.45	5.44	Pipe 24	-	-	0.0050	0.0006	16.00	0.79	4.62	1.73	0.75	0.04	539.85	539.85	541.85	541.85	543.73	543.73	543.86	543.86	543.86	543.86	543.86	FULL				
3+28.16	3+28.16		37.24	45 Bend	0.00	0.74	0.75	0.56	9.80	0.00	5.44	Pipe 24	-	-	0.0118	0.0006	24.57	0.60	6.34	1.73	0.35	0.03	539.63	539.63	541.63	541.63	543.61	543.61	543.63	543.63	543.63	543.63	543.63	FULL				
2+90.92	2+90.92		186.02	45 Bend	0.00	0.74	0.75	0.56	9.80	0.00	5.44	Pipe 24	-	-	0.0118	0.0006	24.57	0.60	6.34	1.73	0.35	0.03	539.20	539.20	541.20	541.20	543.47	543.47	543.58	543.58	543.58	543.58	543.58	FULL				
1+04.90	1+04.90																																					
Storm Sewer Lateral G-1																																						
1+24.04	1+24.04		24.04	H-1	0.47	0.47	0.75	0.35	9.80	3.45	3.45	Pipe 24	-	-	0.0500	0.0002	50.59	2.00	15.00	1.10	1.25	0.02	541.05	541.05	543.05	543.05	543.75	543.75	543.73	543.73	543.73	543.73	543.73	543.73	FULL			
1+00.00	1+00.00																																					
Storm Sewer Line H																																						
6+91.11	6+91.11		38.01	H-3.4	1.32	1.32	0.75	0.99	9.80	9.70	9.70	Pipe 18	-	-	0.0151	0.0085	12.91	0.79	8.48	5.49	1.25	0.59	555.57	555.57	557.07	557.07	557.80	557.80	557.21	557.21	557.21	557.21	557.21	557.21	557.21	FULL		
6+53.10	6+53.10		35.35	45 Bend	0.00	1.32	0.75	0.99	9.80	0.00	9.70	Pipe 18	-	-	0.0151	0.0085	12.91	0.79	8.48	5.49	0.60	0.19	555.00	555.00	556.50	556.50	556.89	556.89	556.70	556.70	556.70	556.70	556.70	556.70	556.70	FULL		
6+17.75	6+17.75		101.53	45 Bend	0.00	1.32	0.75	0.99	9.80	0.00	9.70	Pipe 18	-	-	0.0151	0.0085	12.91	0.79	8.48	5.49	0.50	0.23	554.47	554.47	555.97	555.97	555.30	555.30	555.17	555.17	555.17	555.17	555.17	555.17	555.17	FULL		
5+16.22	5+16.22		10.98	I	0.26	1.58	0.75	1.19	9.80	1.91	11.61	Pipe 18	-	-	0.0151	0.0122	12.91	0.88	8.85	6.57	0.50	0.44	552.93	552.93	554.43	554.43	554.30	554.30	554.86	554.86	554.86	554.86	554.86	554.86	554.86	FULL		
5+05.24	5+05.24		50.47	H-2	0.40	1.98	0.75	1.49	9.80	2.94	14.55	Pipe 18	-	-	0.0200	0.0192	14.86	0.93	10.40	8.24	0.50	0.72	552.77	552.77	554.27	554.27	554.73	554.73	554.01	554.01	554.01	554.01	554.01	554.01	554.01	FULL		
4+54.77	4+54.77		36.82	45 Bend	0.00	1.98	0.75	1.49	9.80	0.00	14.55	Pipe 18	-	-	0.0200	0.0192	14.86	0.93	10.40	8.24	0.50	0.53	551.76	551.76	553.26	553.26	553.04	553.04	552.52	552.52	552.52	552.52	552.52	552.52	552.52	552.52	PARTIAL	
4+17.95	4+17.95		111.84	45 Bend	0.00	1.98	0.75	1.49	9.80	0.00	14.55	Pipe 18	-	-	0.0200	0.0192	14.86	0.93	10.40	8.24	0.50	0.53	551.02	551.02	552.52	552.52	551.81	551.81	551.28	551.28	551.28	551.28	551.28	551.28	551.28	PARTIAL		
3+06.11	3+06.11		199.04	H-1	0.62	2.60	0.75	1.95	9.80	4.56	19.11	Pipe 24	-	-	0.0183	0.0071	30.60	1.14	10.29	6.08	0.50	0.05	548.84	548.84	550.84	550.84	549.14	549.14	549.09	549.09	549.09	549.09	549.09	549.09	549.09	PARTIAL		
1+07.07	1+07.07		7.07	45 Bend	0.00	2.80	0.75	1.95	9.80	0.00	19.11	Pipe 24	-	-	0.0183	0.0071	30.60	1.14	10.29	6.08	0.50	0.05	544.68	544.68	546.68	546.68	547.67	547.67	547.62	547.62	547.62	547.62	547.62	547.62	547.62	PARTIAL		
1+00.00	1+00.00																																					
Storm Sewer Lateral H-1																																						
1+16.97	1+16.97		16.97	H-1	0.70	0.70	0.75	0.53	9.80	5.15	5.15	Pipe 18	-	-	0.1250	0.0024	37.14	0.02	14.86	2.91	1.25	0.16	550.71	550.71	552.21	552.21	549.34	549.34	549.18	549.18	549.18	549.18	549.18	549.18	549.18	549.18	PARTIAL	
1+00.00	1+00.00																																					
Storm Sewer Lateral H-2																																						
1+38.41	1+38.41		16.52	I	0.40	0.40	0.75	0.30	9.80	2.94	2.94	Pipe 18	-	-	0.0575	0.0008	25.19	0.39	3.71	1.66	1.25	0.05	554.98	554.98	556.48	556.48	555.51	555.51	555.45	555.45	555.45	555.45	555.45	555.45	555.45	555.45	555.45	FULL
1+21.89	1+21.89		21.89	45 Bend	0.00	0.40	0.75	0.30	9.80	0.00	2.94	Pipe 18	-	-	0.0575	0.0008	25.19	0.39	3.71	1.66	0.50	0.02	554.03	554.03	555.53	555.53	555.44	555.44	555.42	555.42	555.42	555.42	555.42	555.42	555.42	555.42	PARTIAL	
1+00.00	1+00.00																																					
Storm Sewer Lateral H-3																																						
4+10.00	4+10.00		310.00	H-1	0.65	0.65	0.75	0.49	9.80	4.78	4.78	Pipe 18	-	-	0.0040	0.0021	6.54	0.77	4.32	2.70	1.25	0.14	557.01	557.01	558.51	558.51	555.88	555.88	558.44	558.44	558.44	558.44	558.44	558.44	558.44	558.44	FULL	
1+00.00	1+00.00																																					
Storm Sewer Line I																																						
2+51.46	2+51.46		130.25	I	0.26	0.26	0.75	0.20	9.80	1.91	1.91	Pipe 18	-	-	0.0050	0.0003	7.43	0.39	3.71	1.08	1.25	0.02	553.69	553.69	555.19	555.19	555.41</											