

Runoff Collection Point (Inlet or Manhole)	Distance Between Collection Points (feet)		Incremental Drainage Area				Time at Upstream Station (minutes)	Design Storm Frequency (yrs)	Intensity "I" (inches/hr)	Storm Water Runoff "Q" (c.f.s.)	Slope of Pipe (ft./ft.)	Capacity (c.f.s.)	Top of Pipe Downstream (Elev) (ft.)	Partial Flow (Full/Partial)	Slope of Hydraulic Gradient "S" (ft/ft)	Selected Storm Sewer Size (in.)	Velocity in Sewer Between Collection Points "V" (f.p.s.)	Head Loss Coeff. "Kj"	Vel. Head Loss at Upstream Station w/ Kj Kj x v2/2g (feet)	Vel. Head Loss at Upstream Station v2/2g (feet)	Flow Time in Sewer Distance V x 60 (minutes)	Time at Downstream Station (minutes)	Hydraulic Grade Line Elevation Downstream (elev)	Hydraulic Grade Line Elevation Upstream (elev)		
	Upstream Station	Downstream Station	Area No.	Drainage Area "A" (Acres)	Runoff Coeff. "C"	Incremental "CA"																			Accumulated "CA"	
LINE A	2+81.31	2+24.07	57.24	CONNECT TO EX 72"	40.23	0.90	36.21	36.21	10.00	100	9.80	354.82	0.0065	422.69	543.38	FULL	0.0046	78	10.69	0.50	0.89	1.78	0.09	10.09	550.28	550.54
LINE A	2+24.07	2+01.41	22.66	A3	0.14	0.90	0.13	36.33	10.09	100	9.80	356.05	0.0065	422.69	543.23	FULL	0.0046	78	10.73	0.50	0.89	1.79	0.04	10.12	549.27	549.38
LINE A	2+01.41	1+43.78	57.63	A2	0.04	0.90	0.04	36.37	10.12	100	9.80	356.41	0.0065	422.69	542.85	FULL	0.0046	78	10.74	0.40	0.72	1.79	0.09	10.21	547.93	548.20
LINE A	1+43.78	1+00.25	43.53	A1	0.29	0.90	0.26	36.63	10.21	100	9.80	358.97	0.0065	422.69	542.57	FULL	0.0047	78	10.82	0.50	0.91	1.82	0.07	10.28	546.80	547.01
LINE A	1+00.25	0+55.96	44.29	BEND	0.00	0.90	0.00	36.63	10.28	100	9.80	358.97	0.0065	422.69	542.28	FULL	0.0047	78	10.82	0.50	0.91	1.82	0.07	10.35	545.69	545.90
LINE A	0+55.96	0+04.00	51.96	BEND	0.00	0.90	0.00	36.63	10.35	100	9.80	358.97	0.0065	422.69	541.95	FULL	0.0047	78	10.82	0.50	0.91	1.82	0.08	10.43	544.54	544.78
LINE A	0+04.00	0+00.00	4.00	BEND	0.00	0.90	0.00	36.63	10.43	100	9.80	358.97	0.0065	422.69	541.92	FULL	0.0047	78	10.82	0.45	0.82	1.82	0.01	10.44	543.70	543.72
LINE B	0+35.80	0+10.00	25.80	B1	0.32	0.90	0.29	0.29	10.00	100	9.80	2.82	0.2400	51.46	544.15	FULL	0.0007	18	1.60	1.25	0.05	0.04	0.27	10.27	550.80	550.82
LINE B	0+10.00	0+00.00	10.00	BEND	0.00	0.90	0.00	0.29	10.27	100	9.80	2.82	0.2400	51.46	541.75	FULL	0.0007	18	1.60	0.45	0.02	0.04	0.10	10.37	550.69	550.70
LINE C	1+56.27	1+42.13	14.14	C1	0.05	0.90	0.05	0.05	10.00	100	9.80	0.44	0.0100	10.50	551.44	PARTIAL	0.0000	18	0.25	1.25	0.00	0.00	0.94	10.94	550.95	550.95
LINE C	1+42.13	0+72.38	69.75	BEND	0.00	0.90	0.00	0.05	10.94	100	9.80	0.44	0.0100	10.50	550.75	FULL	0.0000	18	0.25	0.50	0.00	0.00	4.66	16.00	550.85	550.85
LINE C	0+72.38	0+55.92	16.46	C2	0.09	0.90	0.08	0.13	15.60	100	9.80	1.23	0.0100	10.50	550.58	FULL	0.0001	18	0.70	0.60	0.00	0.01	0.39	16.00	550.75	550.75
LINE C	0+55.92	0+35.95	19.97	BEND	0.00	0.90	0.00	0.13	16.00	100	9.80	1.23	0.1624	42.33	547.34	FULL	0.0001	18	0.70	0.50	0.00	0.01	0.48	16.47	550.64	550.65
LINE C	0+35.95	0+00.00	35.95	BEND	0.00	0.90	0.00	0.13	16.47	100	9.80	1.23	0.1624	42.33	541.50	FULL	0.0001	18	0.70	0.50	0.00	0.01	0.86	17.33	550.54	550.54
LINE D	9+05.78	8+71.64	34.14	D4	0.25	0.90	0.23	0.23	10.00	100	9.80	2.21	0.0090	9.94	552.14	FULL	0.0004	18	1.25	1.25	0.03	0.02	0.45	10.45	552.34	552.36
LINE D	8+71.64	7+96.88	74.76	BEND	0.00	0.90	0.00	0.23	10.45	100	9.80	2.21	0.0090	9.94	551.47	FULL	0.0004	18	1.25	0.50	0.01	0.02	0.99	11.45	552.21	552.24
LINE D	7+96.88	6+80.27	116.61	D3	0.22	0.90	0.20	0.42	11.45	100	9.80	4.15	0.0090	9.94	550.43	FULL	0.0016	18	2.35	0.60	0.05	0.09	0.83	12.28	551.93	552.11
LINE D	6+80.27	6+17.36	62.91	BEND	0.00	0.90	0.00	0.42	12.28	100	9.80	4.15	0.0090	9.94	549.87	FULL	0.0016	18	2.35	0.50	0.04	0.09	0.45	12.72	551.73	551.83
LINE D	6+17.36	6+13.36	4.00	GRADE BREAK	0.00	0.90	0.00	0.42	12.72	100	9.80	4.15	0.0067	8.61	549.84	FULL	0.0016	18	2.35	1.00	0.09	0.09	0.03	12.75	551.62	551.63
LINE D	6+13.36	5+63.51	49.85	LINE E	0.58	0.90	0.52	0.95	12.75	100	9.80	9.27	0.0067	8.61	549.51	FULL	0.0078	18	5.25	0.60	0.26	0.43	0.16	12.91	550.86	551.25
LINE D	5+63.51	2+65.00	298.51	D2	0.13	0.90	0.12	1.06	12.91	100	9.80	10.42	0.0067	8.61	547.50	FULL	0.0098	18	5.90	0.60	0.32	0.54	0.84	13.75	547.64	550.57
LINE D	2+65.00	0+84.90	180.10	GRADE BREAK	0.00	0.90	0.00	1.06	13.75	100	9.80	10.42	0.0283	17.67	542.40	FULL	0.0098	18	5.90	0.40	0.22	0.54	0.51	14.26	545.53	547.30
LINE D	0+84.90	0+76.45	8.45	BEND	0.00	0.90	0.00	1.06	14.26	100	9.80	10.42	0.0283	17.67	542.16	FULL	0.0098	18	5.90	0.50	0.27	0.54	0.02	14.29	545.18	545.26
LINE D	0+76.45	0+25.88	50.57	D1	0.99	0.90	0.89	1.95	14.29	100	9.80	19.15	0.0283	17.67	540.73	FULL	0.0332	18	10.84	0.40	0.73	1.82	0.08	14.36	541.89	543.57
LINE D	0+25.88	0+00.00	25.88	WYE	0.00	0.90	0.00	1.95	14.36	100	9.80	19.15	0.0283	17.67	540.00	FULL	0.0332	18	10.84	0.60	1.09	1.82	0.04	14.40	540.30	541.16
LINE E	1+62.28	0+48.05	114.23	E3	0.30	0.90	0.27	0.27	10.00	100	9.80	2.65	0.0050	7.43	550.11	FULL	0.0006	18	1.50	1.25	0.04	0.03	1.27	11.27	551.89	551.97
LINE E	0+48.05	0+18.48	29.57	E2	0.07	0.90	0.06	0.33	11.27	100	9.80	3.27	0.0050	7.43	549.96	FULL	0.0010	18	1.85	0.60	0.03	0.05	0.27	11.54	551.77	551.79
LINE E	0+18.48	0+00.00	18.48	E1	0.21	0.90	0.19	0.52	11.54	100	9.80	5.12	0.0050	7.43	549.87	FULL	0.0024	18	2.90	0.60	0.08	0.13	0.11	11.64	551.62	551.67
LINE F	3+37.50	3+20.53	16.97	F5	0.25	0.90	0.23	0.23	10.00	100	9.80	2.21	0.0222	15.63	545.73	PARTIAL	0.0004	18	1.25	1.25	0.03	0.02	0.23	10.23	545.02	545.02
LINE F	3+20.53	2+69.57	50.96	BEND	0.00	0.90	0.00	0.23	10.23	100	9.80	2.21	0.0222	15.63	544.60	FULL	0.0004	18	1.25	0.50	0.01	0.02	0.68	10.91	544.89	544.92
LINE F	2+69.57	2+65.57	4.00	PIPE SIZE CHANGE	0.00	0.90	0.00	0.23	10.91	100	9.80	2.21	0.0222	23.58	544.51	FULL	0.0002	21	0.92	0.60	0.01	0.01	0.07	10.98	544.79	544.79
LINE F	2+65.57	1+17.10	148.47	F4	1.70	0.90	1.53	1.76	10.98	100	9.80	17.20	0.0222	33.67	541.22	FULL	0.0058	24	5.47	0.60	0.28	0.47	0.45	11.43	543.48	544.33
LINE F	1+17.10	0+62.10	55.00	F3	0.39	0.90	0.35	2.11	11.43	100	9.80	20.64	0.0222	33.67	540.00	FULL	0.0083	24	6.57	0.60	0.40	0.67	0.14	11.57	542.63	543.09
LINE F	0+62.10	0+58.10	4.00	GRADE BREAK	0.00	0.90	0.00	2.11	11.57	100	9.80	20.64	0.0786	63.42	539.69	FULL	0.0083	24	6.57	1.00	0.67	0.67	0.01	11.58	542.49	542.53
LINE F	0+58.10	0+44.40	13.70	F2	0.44	0.90	0.40	2.50	11.58	100	9.80	24.52	0.0786	63.42	538.61	FULL	0.0117	24	7.80	0.60	0.57	0.95	0.03	11.61	541.79	541.95
LINE F	0+44.40	0+00.00	44.40	F1	0.18	0.90	0.16	2.66	11.61	100	9.80	26.11	0.0786	63.42	535.12	FULL	0.0133	24	8.31	0.60	0.64	1.07	0.09	11.70	540.69	541.28
LINE G	8+79.55	8+68.95	10.60	G6	0.41	0.90	0.37	0.37	10.00	100	9.80	3.62	0.0138	12.34	551.25	PARTIAL	0.0012	18	2.05	1.25	0.08	0.07	0.09	10.09	549.86	549.87
LINE G	8+68.95	7+46.70	122.25	BEND	0.00	0.90	0.00	0.37	10.09	100	9.80	3.62	0.0138	12.34	549.56	FULL	0.0012	18	2.05	0.50	0.03	0.07	1.00	11.08	549.61	549.76
LINE G	7+46.70	6+84.84	61.86	G5	0.53	0.90	0.48	0.85	11.08	100	9.80	8.29	0.0138	12.34	548.71	FULL	0.0062	18	4.69	0.60	0.21	0.34	0.22	11.30	548.92	549.31
LINE G	6+84.84	6+45.29	39.55	G4	0.05	0.90	0.05	0.89	11.30	100	9.80	8.73	0.0138	12.34	548.16	FULL	0.0069	18	4.94	0.60	0.23	0.38	0.13	11.44	548.48	548.75
LINE G	6+45.29	6+41.29	4.00	PIPE SIZE CHANGE	0.00	0.90	0.00	0.89	11.44	100	9.80	8.73	0.0138	26.58	548.11	FULL	0.0015	24	2.78							