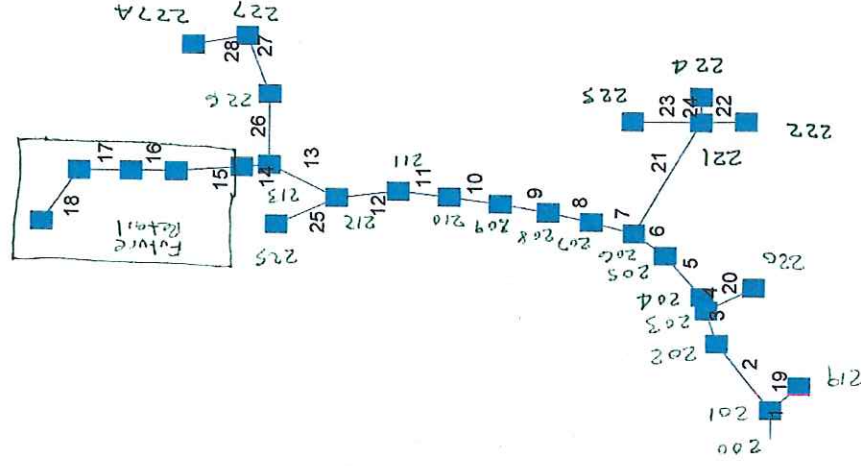


Hydraflow Plan View



Hydraflow Storm Sewer Tabulation

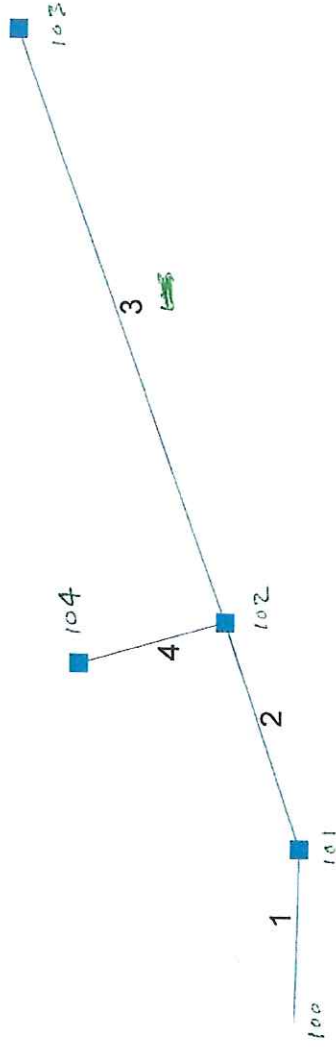
Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	
1	End	50.0	0.30	14.90	0.90	0.27	12.46	10.0	17.8	5.9	73.89	149.1	10.73	36	5.00	772.80	770.30	775.51	773.30	788.00	774.00	201-200
2	1	140.0	0.60	14.47	0.85	0.51	12.07	10.0	17.6	6.0	71.95	149.1	10.48	36	5.00	779.80	772.80	782.49	777.58	792.00	788.00	202-201
3	2	60.0	0.10	13.87	0.90	0.09	11.56	10.0	17.5	6.0	69.07	149.1	10.11	36	5.00	782.80	779.80	785.45	783.75	792.00	792.00	203-202
4	3	25.0	0.30	13.45	0.85	0.26	11.21	10.0	17.4	6.0	67.07	149.1	9.49	36	5.00	784.05	782.80	787.83	787.57	792.00	792.00	204-203
5	4	90.0	0.70	13.15	0.85	0.60	10.96	10.0	17.3	6.0	65.77	115.5	9.46	36	3.00	786.75	784.05	789.53	788.81	793.00	792.50	205-204
6	5	60.0	0.70	12.45	0.85	0.60	10.36	10.0	17.1	6.0	62.36	66.69	8.82	36	1.00	787.35	786.75	791.06	790.54	793.00	793.00	206-205
7	6	65.0	0.80	8.86	0.85	0.68	7.43	10.0	17.0	6.0	44.84	41.01	9.14	30	1.00	788.50	787.85	793.66	792.88	793.60	793.60	207-206
8	7	55.0	0.70	8.06	0.85	0.60	6.75	10.0	16.9	6.0	40.85	41.01	8.32	30	1.00	789.15	788.50	794.95	794.30	794.30	794.30	208-207
9	8	70.0	0.60	6.66	0.85	0.51	5.56	10.0	16.7	6.1	37.38	41.01	7.62	30	1.00	789.85	789.15	796.07	795.49	795.00	794.30	209-208
10	9	75.0	0.60	6.06	0.85	0.51	5.05	10.0	16.5	6.1	33.90	41.01	6.91	30	1.00	790.60	789.85	797.03	796.52	796.00	795.00	210-209
11	10	75.0	0.60	6.06	0.85	0.51	5.05	10.0	16.3	6.1	30.92	41.01	6.30	30	1.00	791.35	790.60	797.03	796.52	796.00	795.00	211-210
12	11	45.0	0.36	5.46	0.85	0.31	4.54	10.0	16.2	6.1	27.88	41.01	5.68	30	1.00	791.80	791.35	798.47	798.26	797.50	796.50	212-211
13	12	141.0	0.20	4.98	0.90	0.18	4.13	10.0	15.7	6.2	25.63	82.46	5.79	30	4.04	797.50	791.80	799.41	799.02	802.00	802.00	213-212
14	13	40.0	0.45	2.18	0.85	0.38	1.86	10.0	12.4	6.7	12.41	22.62	3.99	24	1.00	798.40	798.00	800.30	800.20	804.00	804.00	214-213
15	14	95.0	0.40	1.73	0.85	0.34	1.48	10.0	12.1	6.7	9.92	10.50	5.85	18	1.00	799.85	798.90	801.15	800.43	804.50	804.50	Future Retain
16	15	65.0	0.50	1.33	0.85	0.43	1.14	10.0	12.0	6.7	7.67	4.53	6.25	15	0.49	800.42	800.10	802.36	801.44	804.50	804.50	
17	16	75.0	0.70	0.83	0.85	0.60	0.71	10.0	11.7	6.8	4.84	4.54	3.94	15	0.49	800.79	800.42	803.08	802.66	804.50	804.50	
18	17	105.0	0.13	0.13	0.90	0.12	0.12	10.0	10.0	7.1	0.83	2.46	1.05	12	0.48	801.50	801.00	803.44	803.38	804.50	804.50	
19	1	60.0	0.13	0.13	0.90	0.12	0.12	10.0	10.0	7.1	0.83	3.56	3.31	12	1.00	784.30	783.70	784.69	784.03	787.30	788.00	219-201
20	3	80.0	0.32	0.32	0.80	0.26	0.26	10.0	10.0	7.1	1.81	6.46	4.01	15	1.00	788.75	787.95	789.29	788.41	792.00	792.00	220-203
21	6	220.0	0.08	2.89	0.90	0.07	2.34	10.0	12.1	6.7	15.70	34.10	5.83	24	2.27	793.35	788.35	794.75	792.88	798.00	793.30	221-206
Project File: 7625_parking.stm											IDF File: Oxford.idf		Total number of lines: 28		Run Date: 07-27-2017							
NOTES: Intensity = 268.45 / (Inlet time + 30.20) ^ 0.98; Return period = 100 Yrs. Initial tailwater elevation = 773.30 (ft)																						

full basin

Hydraflow Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID	
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)		Up (ft)
22	21	65.0	0.20	0.20	0.85	0.17	0.17	10.0	10.0	7.1	1.20	3.56	1.61	12	1.00	795.00	794.35	795.85	795.79	798.00	798.00	21.2 - 22.1	
23	21	100.0	0.11	0.11	0.85	0.09	0.09	10.0	10.0	7.1	0.66	2.87	0.90	12	0.65	795.00	794.35	795.82	795.79	798.00	798.00	21.2 - 22.1	
24	21	45.0	2.50	2.50	0.80	2.00	2.00	12.0	12.0	6.7	13.48	10.50	7.63	18	1.00	794.30	793.85	796.53	796.79	798.00	798.00	22.4 - 22.1	
25	12	145.0	0.12	0.12	0.85	0.10	0.10	12.0	12.0	6.7	0.69	3.62	0.88	12	1.03	794.80	793.30	799.08	799.02	797.50	797.50	21.5 - 21.2	
26	13	125.0	0.10	2.60	0.85	0.09	2.10	10.0	15.5	6.2	13.07	16.27	7.59	18	2.40	801.50	798.50	802.86	800.20	805.00	802.00	22.6 - 21.5	
27	26	107.0	0.20	2.50	0.85	0.17	2.01	10.0	15.2	6.3	12.60	14.36	7.22	18	1.87	803.50	801.50	804.91	803.51	807.00	805.00	22.7 - 22.6	
28	27	80.0	2.30	2.30	0.80	1.84	1.84	15.0	15.0	6.3	11.59	16.60	6.56	18	2.50	805.50	803.50	807.13	806.16	808.00	807.00	22.7A - 22.7	
Project File: 7625_parking.stm										IDF File: Oxford.idf		Total number of lines: 28										Run Date: 07-27-2017	
NOTES: Intensity = 268.45 / (Inlet time + 30.20) ^ 0.98; Return period = 100 Yrs ; Initial tailwater elevation = 773.30 (ft)																							

Hydraflow Plan View



Project file: 7625_rt4.stm

IDF file: Oxford.idf

No. Lines: 4

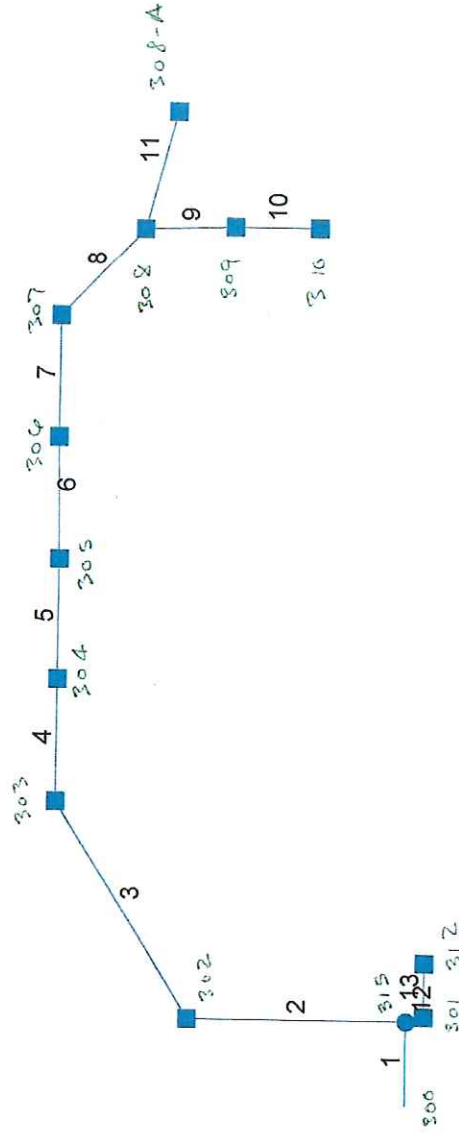
03-24-2017

Hydraflow Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID	
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)		
1	End	40.0	0.27	4.44	0.85	0.23	3.58	10.0	15.1	6.3	22.51	66.90	7.58	24	8.75	773.00	769.50	774.68	771.50	781.30	772.00	101 - 106	
2	1	55.0	0.17	4.17	0.50	0.09	3.36	15.0	15.0	6.3	21.13	50.57	7.22	24	5.00	775.75	773.00	777.38	775.38	782.00	781.30	102 - 101	
3	2	145.0	3.30	3.30	0.80	2.64	2.64	10.0	10.0	7.1	18.66	29.99	6.59	24	1.76	778.30	775.75	779.83	778.77	785.00	782.00	103 - 102	
4	2	35.0	0.70	0.70	0.90	0.63	0.63	10.0	10.0	7.1	4.45	11.50	5.98	12	10.43	781.50	777.85	782.39	778.77	784.50	782.00	104 - 102	
Project File: 7625_rt4.stm												IDF File: Oxford.idf										Run Date: 03-24-2017	
NOTES: Intensity = 268.45 / (Inlet time + 30.20) ^ 0.98; Return period = 100 Yrs. ; Initial tailwater elevation = 771.50 (ft)																							

? why not 773.3 ft

Hydraflow Plan View



Project file: 7625_Kroger.stm	IDF file: Oxford.idf	No. Lines: 13	03-24-2017
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Hydraflow Storm Sewer Tabulation

Station		Len (ft)	Drng Area		Rnoff coeff (C)	Area x C		Tc		Rain (l) (in/hr)	Total flow (cfs)	Cap full (cfs)	Vel (ft/s)	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID																
Line	To Line		Incr (ac)	Total (ac)		Incr	Total	Inlet (min)	Syst (min)					Size (in)	Slope (%)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)		Up (ft)	Dn (ft)														
1	End	70.0	0.00	6.42	0.00	5.78	0.0	14.2	6.4	37.01	108.5	8.10	30	7.00	776.70	771.80	778.73	774.30	794.50	774.00	315 - 300																	
2	1	182.0	0.36	5.89	0.90	0.32	5.30	10.0	13.8	6.5	34.29	87.58	7.65	30	4.56	785.00	776.70	786.96	779.90	796.00	794.50	302 - 315																
3	2	210.0	0.65	5.53	0.90	0.58	4.98	10.0	13.4	6.5	32.45	22.62	10.33	24	1.00	787.60	785.50	792.62	788.30	798.00	796.00	303 - 302																
4	3	100.0	1.20	4.88	0.90	1.08	4.39	10.0	13.3	6.5	28.75	22.62	9.15	24	1.00	788.60	787.60	795.40	793.79	798.00	796.00	304 - 303																
5	4	100.0	1.20	3.68	0.90	1.08	3.31	10.0	13.0	6.6	21.80	22.62	6.94	24	1.00	789.60	788.60	796.98	796.05	798.00	796.00	305 - 304																
6	5	100.0	0.08	2.48	0.90	0.07	2.23	10.0	12.7	6.6	14.81	22.62	4.71	24	1.00	790.60	789.60	797.79	797.36	798.00	798.00	306 - 305																
7	6	100.0	0.60	2.40	0.90	0.54	2.16	10.0	12.5	6.7	14.39	10.50	8.15	18	1.00	792.10	791.10	799.84	797.96	798.00	798.00	307 - 306																
8	7	75.0	0.10	0.20	0.90	0.09	0.18	10.0	11.4	6.8	1.23	3.56	1.57	12	1.00	793.10	792.10	802.04	800.97	798.00	798.00	308 - 307																
9	8	70.0	0.10	0.10	0.90	0.09	0.09	10.0	10.0	7.1	0.64	3.43	0.81	12	0.93	794.35	793.60	802.78	802.69	798.00	798.00	309 - 308																
10	9	100.0	1.00	1.00	0.90	0.90	0.90	10.0	10.0	7.1	6.36	11.18	5.18	15	3.00	795.00	794.35	802.82	802.80	798.00	798.00	310 - 309																
11	8	100.0	1.00	1.00	0.90	0.90	0.90	10.0	10.0	7.1	6.36	11.18	5.18	15	3.00	797.50	794.50	803.66	802.69	801.00	798.00	308A - 308																
12	1	15.0	0.23	0.53	0.90	0.21	0.48	10.0	10.5	7.0	3.33	14.44	6.07	15	5.00	790.50	789.75	791.81	790.16	793.50	794.50	301 - 315																
13	12	44.0	0.30	0.30	0.90	0.27	0.27	10.0	10.0	7.1	1.91	18.21	2.60	15	7.95	794.00	790.50	794.55	791.95	797.00	793.50	312 - 301																
																					?																	313 - 304
																																						314 - 305
Project File: 7625_Kroger.stm											IDF File: Oxford.idf											Total number of lines: 13		Run Date: 03-24-2017														
NOTES: Intensity = 268.45 / (Inlet time + 30.20) ^ 0.98; Return period = 100 Yrs.; Initial tailwater elevation = 774.30 (ft)																																						

313 - 304
314 - 305