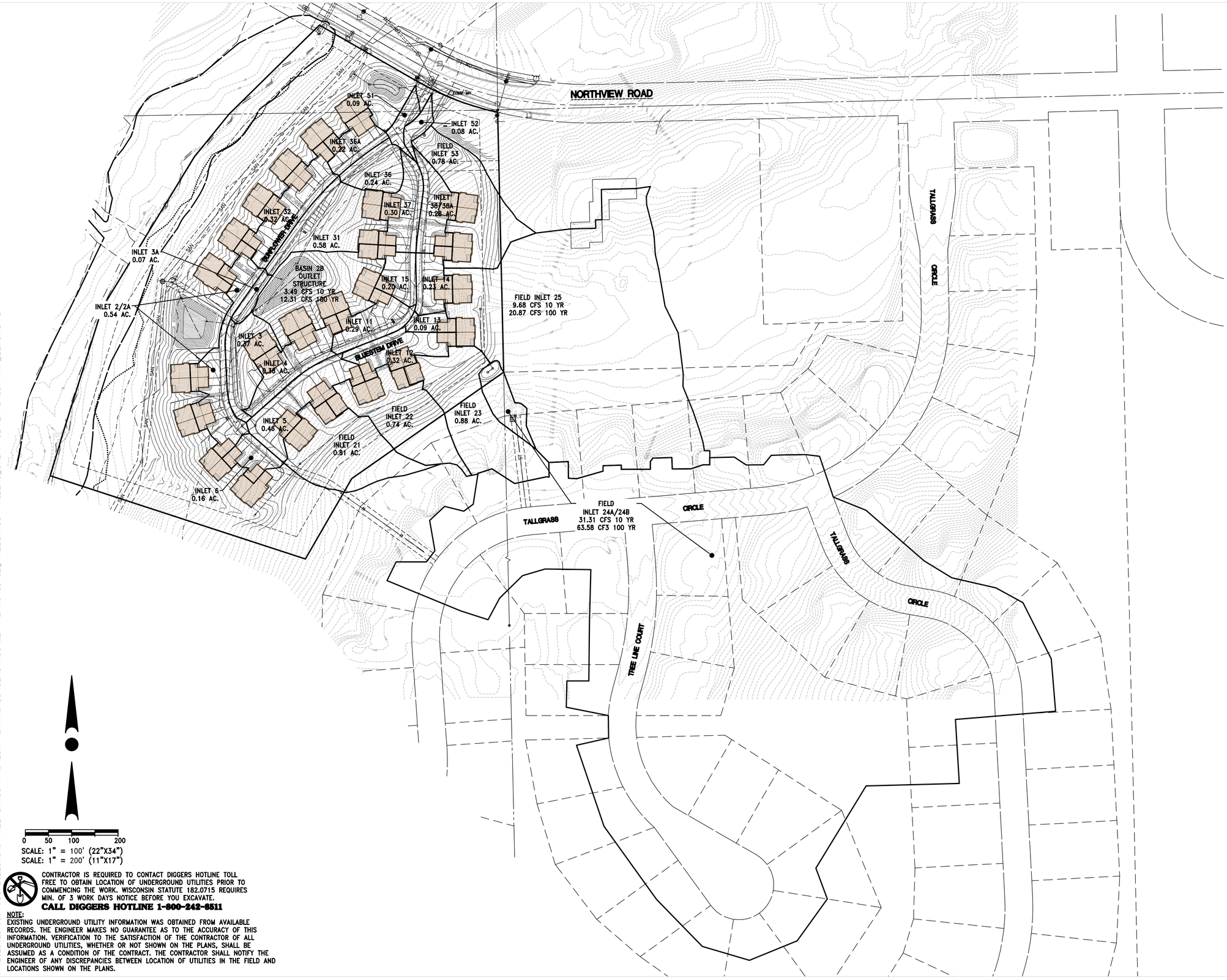

0 50 100 200

SCALE: 1" = 100' (22"X34")
SCALE: 1" = 200' (11"X17")

CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

WISCONSIN
PAUL J. JENSWOLD
E-34365
MILWAUKEE
PROFESSIONAL ENGINEER

TRIO
DESIGN • LAND SURVEYING
CIVIL ENGINEERING

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PROJECT:
TALLGRASS VILLAS
CITY OF WAUKESHA, WISCONSIN
BY: BIELINSKI HOMES
1830 MEADOW LN, SUITE A
PEWAUKEE, WI 53072

REVISION HISTORY

DATE	DESCRIPTION
11/30/21	PRELIMINARY PLAN SET
2/21/22	CIVIL PLAN SET

DATE:
FEBRUARY 21, 2021

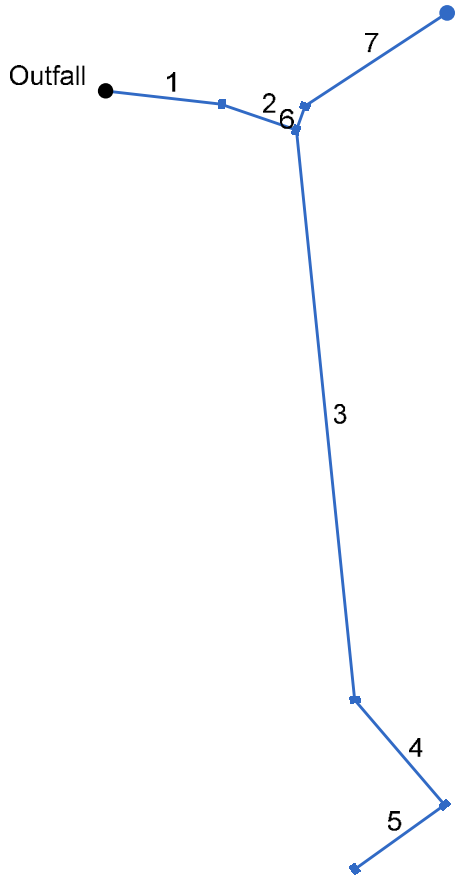
JOB NUMBER:
21-059-966

DESCRIPTION:
STORM SEWER BASIN MAP

SHEET
E1.0

X:\2021\21-059-966 BIELINSKI TALL GRASS WAUKESHA\DRAWINGS\CONSTRUCTION PLANS\CIVIL_TALLGRASS VILLAS_STORM SEWER BASIN MAP_22X34.DWG

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 1-6.stm	Number of lines: 7	Date: 2/17/2022

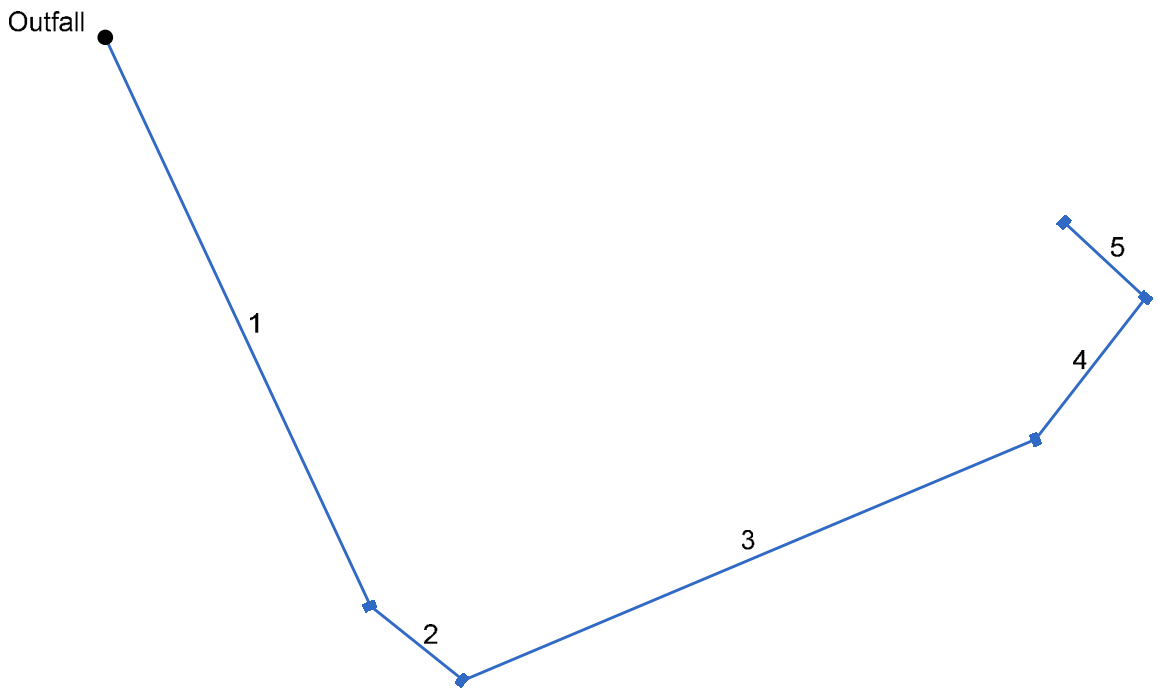
Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	36.468	0.54	1.98	0.50	0.27	0.99	10.0	12.4	4.8	17.08	24.56	7.63	24	1.18	95.00	95.43	96.23	96.92	0.00	104.69	Pipe 2-1
2	1	25.000	0.37	1.44	0.50	0.19	0.72	10.0	12.3	4.8	15.79	22.62	6.43	24	1.00	95.43	95.68	96.92	97.11	104.69	104.69	Pipe 3-2
3	2	180.227	0.38	1.00	0.50	0.19	0.50	10.0	11.4	5.0	2.51	8.21	6.80	12	5.32	100.69	110.27	101.07	110.95	104.69	114.27	Pipe 4-3
4	3	43.483	0.46	0.62	0.50	0.23	0.31	10.0	11.1	5.1	1.58	4.80	3.25	12	1.82	110.27	111.06	110.95	111.59	114.27	115.89	Pipe 5-4
5	4	34.547	0.16	0.16	0.50	0.08	0.08	10.0	10.0	5.3	0.43	3.58	1.75	12	1.01	111.06	111.41	111.59	111.68	115.89	115.41	Pipe 6-5
6	2	8.000	0.07	0.07	0.50	0.04	0.04	10.0	10.0	5.3	12.50	22.62	5.57	24	1.00	95.68	95.76	97.11	97.03	104.69	104.72	Pipe 3A-3
7	6	53.319	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	12.31	9.85	10.03	15	2.33	95.76	97.00	97.03	98.97	104.72	104.75	Pipe O2B-3A

Project File: STM SEWER 1-6.stm | Number of lines: 7 | Run Date: 2/17/2022

NOTES:Intensity = 33.54 / (Inlet time + 4.60) ^ 0.68; Return period =Yrs. 10 ; c = cir e = ellip b = box

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 10-15.stm	Number of lines: 5	Date: 2/17/2022

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	153.014	0.29	1.13	0.50	0.15	0.57	10.0	12.8	4.7	2.68	10.80	7.97	12	9.20	102.85	116.93	103.19	117.63	0.00	121.02	Pipe 11-10
2	1	28.762	0.32	0.84	0.50	0.16	0.42	10.0	12.6	4.8	2.01	3.58	3.73	12	1.01	116.93	117.22	117.63	117.82	121.02	121.22	Pipe 12-11
3	2	150.952	0.09	0.52	0.50	0.05	0.26	10.0	11.2	5.1	1.32	4.26	3.08	12	1.43	117.22	119.38	117.82	119.86	121.22	123.38	Pipe 13-12
4	3	43.720	0.23	0.43	0.50	0.12	0.22	10.0	10.7	5.2	1.11	3.57	3.13	12	1.01	119.38	119.82	119.86	120.26	123.38	123.94	Pipe 14-13
5	4	26.996	0.20	0.20	0.50	0.10	0.10	10.0	10.0	5.3	0.53	3.56	2.12	12	1.00	119.82	120.09	120.26	120.39	123.94	124.09	Pipe 15-14

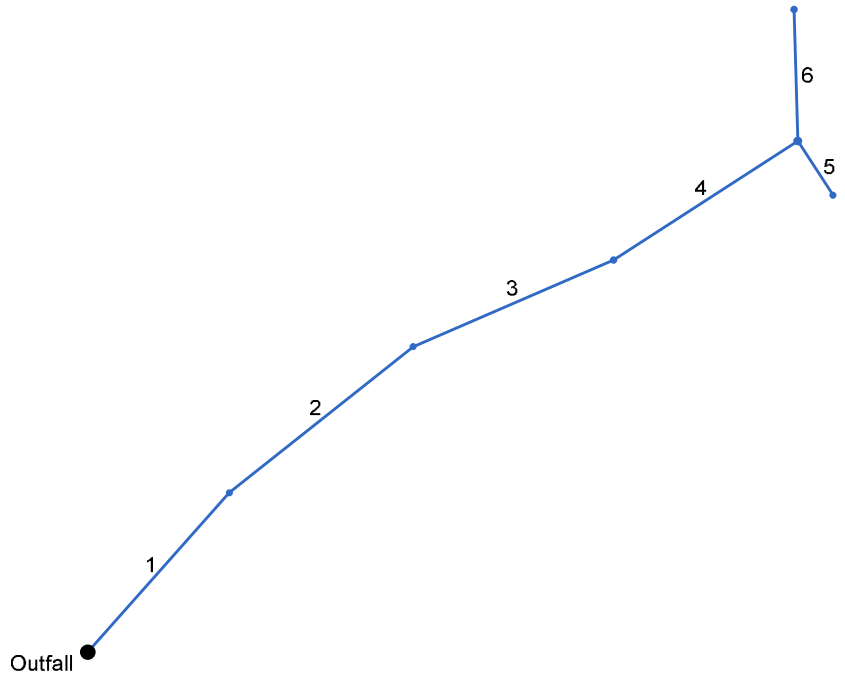
Project File: STM SEWER 10-15.stm

Number of lines: 5

Run Date: 2/17/2022

NOTES:Intensity = 33.54 / (Inlet time + 4.60) ^ 0.68; Return period =Yrs. 10 ; c = cir e = ellip b = box

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 20-25.stm	Number of lines: 6	Date: 2/18/2022

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	147.003	0.81	2.43	0.30	0.24	0.73	15.0	16.2	4.2	44.05	93.85	8.52	42	0.74	109.50	110.59	111.19	112.66	0.00	116.50	Pipe 21-20
2	1	161.919	0.74	1.62	0.30	0.22	0.49	15.0	15.6	4.3	43.07	96.15	7.33	42	0.78	110.59	111.85	112.66	113.89	116.50	119.00	Pipe 22-21
3	2	150.387	0.88	0.88	0.30	0.26	0.26	15.0	15.0	4.4	42.14	94.89	7.28	42	0.76	111.85	112.99	113.89	115.01	119.00	121.50	Pipe 23-22
4	3	151.192	0.00	0.00	0.00	0.00	0.00	0.0	0.4	0.0	40.99	101.6	9.62	36	1.98	113.49	116.48	115.01	118.56	121.50	124.75	Pipe 24-23
5	4	44.573	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	31.31	146.7	15.78	30	10.90	120.00	124.86	120.78	126.76	124.75	133.04	Pipe 24A-24
6	4	91.048	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	9.68	15.26	6.23	21	0.79	117.73	118.45	118.74	119.61	124.75	123.20	Pipe 25-24

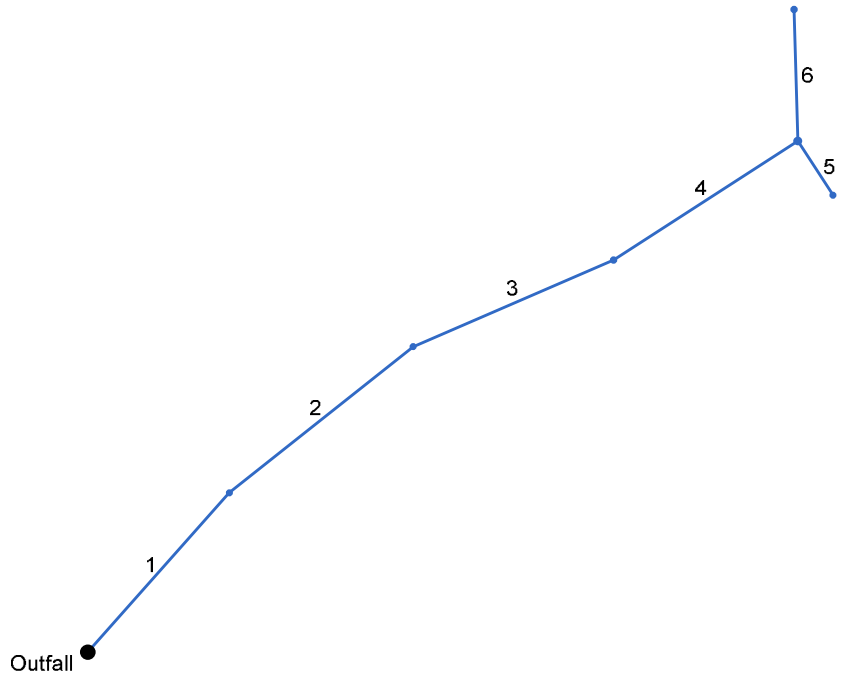
Project File: STM SEWER 20-25.stm

Number of lines: 6

Run Date: 2/18/2022

NOTES:Intensity = 33.54 / (Inlet time + 4.60) ^ 0.68; Return period =Yrs. 10 ; c = cir e = ellip b = box

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 20-25.stm	Number of lines: 6	Date: 2/18/2022

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	147.003	0.81	2.43	0.30	0.24	0.73	15.0	15.6	6.3	89.03	93.85	10.73	42	0.74	109.50	110.59	112.22	113.52	0.00	116.50	Pipe 21-20
2	1	161.919	0.74	1.62	0.30	0.22	0.49	15.0	15.3	6.3	87.53	96.15	10.22	42	0.78	110.59	111.85	113.52	114.76	116.50	119.00	Pipe 22-21
3	2	150.387	0.88	0.88	0.30	0.26	0.26	15.0	15.0	6.4	86.14	94.89	10.12	42	0.76	111.85	112.99	114.76	115.88	119.00	121.50	Pipe 23-22
4	3	151.192	0.00	0.00	0.00	0.00	0.00	0.0	0.2	0.0	84.45	101.6	13.14	36	1.98	113.49	116.48	115.88	119.29	121.50	124.75	Pipe 24-23
5	4	44.573	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	63.58	146.7	20.95	30	10.90	120.00	124.86	121.15	127.27	124.75	133.04	Pipe 24A-24
6	4	91.048	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	20.87	15.26	8.68	21	0.79	117.73	118.45	119.48	120.83	124.75	123.20	Pipe 25-24

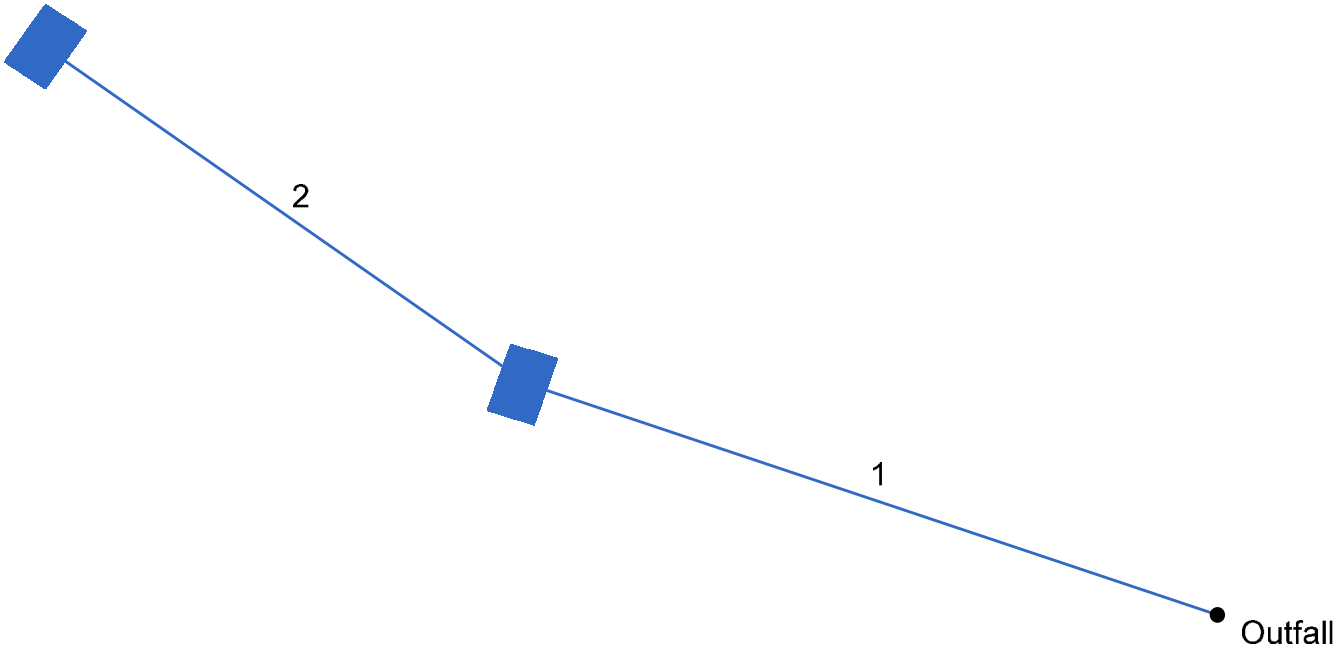
Project File: STM SEWER 20-25.stm

Number of lines: 6

Run Date: 2/18/2022

NOTES:Intensity = 34.00 / (Inlet time + 2.20) ^ 0.59; Return period =Yrs. 100 ; c = cir e = ellip b = box

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 30-32.stm	Number of lines: 2	Date: 2/17/2022

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	30.946	0.58	0.90	0.50	0.29	0.45	10.0	10.4	5.3	2.36	3.56	4.56	12	1.00	101.69	102.00	102.29	102.66	0.00	106.25	Pipe 31-30
2	1	25.000	0.32	0.32	0.50	0.16	0.16	10.0	10.0	5.3	0.86	3.56	2.31	12	1.00	102.00	102.25	102.66	102.64	106.25	106.25	Pipe 32-31

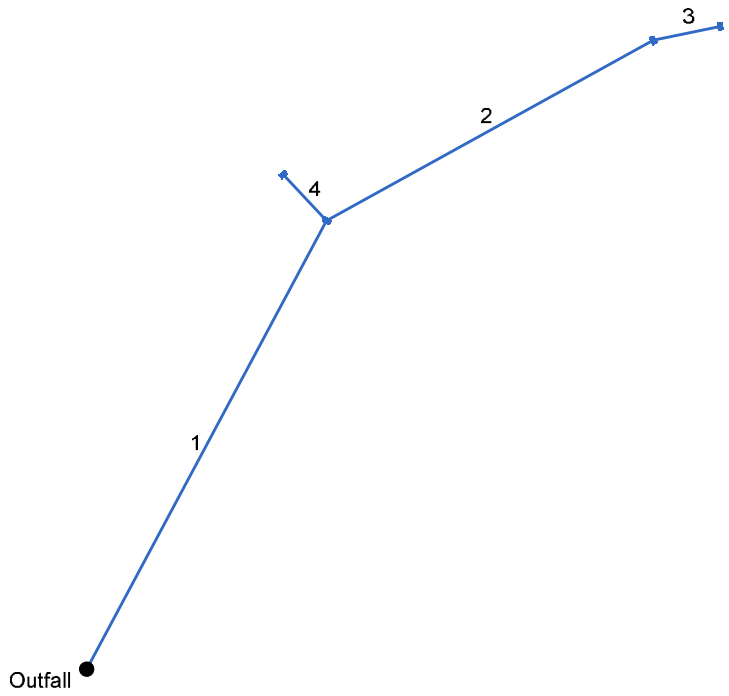
Project File: STM SEWER 30-32.stm

Number of lines: 2

Run Date: 2/17/2022

NOTES:Intensity = 33.54 / (Inlet time + 4.60) ^ 0.68; Return period =Yrs. 10 ; c = cir e = ellip b = box

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 35-38A.stm	Number of lines: 4	Date: 2/17/2022

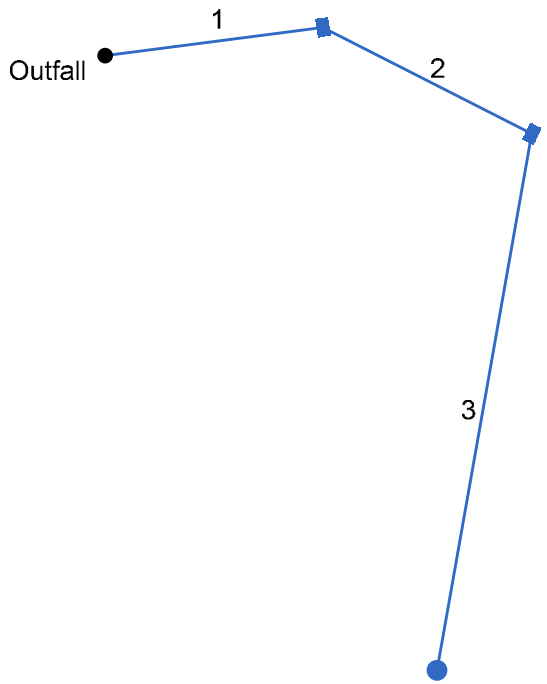
Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	199.863	0.24	1.04	0.50	0.12	0.52	10.0	11.7	5.0	2.58	4.77	5.33	12	1.79	101.50	105.08	102.02	105.77	0.00	109.33	Pipe 36-35
2	1	146.296	0.30	0.58	0.50	0.15	0.29	10.0	10.5	5.2	1.52	4.94	3.15	12	1.93	105.08	107.90	105.77	108.42	109.33	111.90	Pipe 37-36
3	2	26.924	0.28	0.28	0.50	0.14	0.14	10.0	10.0	5.3	0.75	4.90	2.37	12	1.89	107.90	108.41	108.42	108.77	111.90	112.41	Pipe 38-37
4	1	25.000	0.22	0.22	0.50	0.11	0.11	10.0	10.0	5.3	0.59	3.56	1.88	12	1.00	105.08	105.33	105.77	105.65	109.33	109.33	Pipe 36A-36

Project File: STM SEWER 35-38A.stm | Number of lines: 4 | Run Date: 2/17/2022

NOTES:Intensity = 33.54 / (Inlet time + 4.60) ^ 0.68; Return period =Yrs. 10 ; c = cir e = ellip b = box

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



Project File: STM SEWER 50-53.stm	Number of lines: 3	Date: 2/17/2022

Storm Sewer Tabulation

Station		Len	Drng Area		Rnoff coeff	Area x C		Tc		Rain (I)	Total flow	Cap full	Vel	Pipe		Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID
Line	To Line	(ft)	Incr (ac)	Total (ac)	(C)	Incr	Total	Inlet (min)	Syst (min)	(in/hr)	(cfs)	(cfs)	(ft/s)	Size (in)	Slope (%)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	Dn (ft)	Up (ft)	
1	End	36.502	0.09	0.95	0.90	0.08	0.39	10.0	16.6	4.1	1.60	2.78	3.67	12	0.52	100.81	101.00	101.35	101.55	0.00	104.25	Pipe 51-50
2	1	39.051	0.08	0.86	0.90	0.07	0.31	10.0	16.2	4.2	1.29	8.31	2.76	12	4.63	101.00	102.81	101.74	103.29	104.25	106.06	Pipe 52-51
3	2	90.827	0.78	0.78	0.30	0.23	0.23	15.0	15.0	4.4	1.02	8.09	2.99	12	4.39	102.81	106.80	103.29	107.22	106.06	110.80	Pipe 53-52

Project File: STM SEWER 50-53.stm

Number of lines: 3

Run Date: 2/17/2022

NOTES:Intensity = 33.54 / (Inlet time + 4.60) ^ 0.68; Return period =Yrs. 10 ; c = cir e = ellip b = box