

Drawing name: V:\14\2405 Shady Creek Addition\Drawings\Engineering\Improvements\2405 MP Storm.dwg Plotted on: Dec 02, 2020 - 10:45am Plotted by: jmolitor

ISSUE	DATE / REMARKS
1	5-22-2020 Initial Submittal
2	7-14-2020 City Comment Revisions
3	6-13-2020 City Comment Revisions
4	9-01-2020 City Comment Revisions
5	12-02-2020 City Approval

15 YEAR - 20 MINUTE																			
LineNo.	LineID	LineSize	FlowRate	InvertDn	InvertUp	LineLength	LineSlope	VelAve	Grnd/RimElev Dn	Grnd/RimElev Up	HGLDn	HGLUp	Rim-Hw	CriticalDepth	EGLDn	EGLUp	EnergyLoss	CapacityFull	n-valuePipe
		(in)	(cfs)	(ft)	(ft)	(ft)	(%)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	
1	1-2	36	68.19	557.00	558.43	110.00	1.30	10.61	559.88	565.80	559.50	561.06	4.74	2.63	561.17	562.74	0.00	76.04	0.013
2	2-3	30	64.21	558.43	561.13	90.00	3.00	13.15	565.80	568.50	561.06	563.55	4.95	2.42	563.72	566.26	2.07	71.03	0.013
3	3-4	30	64.21	561.13	569.38	75.00	11.00	13.22	568.50	575.50	563.55	571.80	3.70	2.42	566.26	574.51	0.00	136.02	0.013
4	4-5	30	64.21	569.38	573.59	140.41	3.00	13.22	575.50	585.30	571.80	576.01	9.29	2.42	574.51	578.72	0.00	71.01	0.013
5	2-6	15	3.98	558.43	559.1	19.18	3.49	3.24	565.80	564.50	561.06	561.13	3.20	0.81	561.22	561.30	0.07	12.07	0.013
6	10-11	30	23.28	545.00	545.4	40.00	1.00	4.96	547.33	551.94	547.50	547.56	3.97	1.64	547.85	547.97	0.12	41.01	0.013
7	100-101	30	21.41	548.80	548.92	24.00	0.50	5.07	551.13	554.30	550.85	550.89	3.09	1.57	551.23	551.30	0.07	29.00	0.013
8	101-102	30	21.41	549.02	549.71	138.00	0.50	5.27	554.30	562.00	551.21	551.46	10.46	1.57	551.55	551.99	0.44	29.00	0.013
9	102-103	30	21.41	549.81	551.23	24.00	5.92	6.25	562.00	560.89	551.54	552.80j	8.09	1.57	552.21	553.48	0.00	99.76	0.013
10	103-104	30	21.04	550.15	550.75	60.00	1.00	4.49	560.89	562.40	552.80	552.90	9.16	1.56	553.09	553.24	0.15	41.01	0.013
11	104-105	30	21.04	550.85	551.85	100.00	1.00	5.45	562.40	564.10	553.24	553.41j	10.69	1.56	553.91	554.07	0.00	41.01	0.013
12	105-106	30	21.04	551.95	553.1	115.00	1.00	6.82	564.10	564.57	553.41	554.66	9.91	1.56	554.07	555.32	0.00	41.01	0.013
13	106-107	30	20.25	553.20	553.55	35.00	1.00	6.63	564.57	564.57	554.66	555.08	9.49	1.53	555.30	555.72	0.00	41.01	0.013
14	107-108	18	11.93	557.32	560.08	106.00	2.60	8.84	564.57	567.02	558.25	561.39	5.63	1.31	559.07	562.22	0.00	16.94	0.013
15	108-109	18	10.73	560.08	564.32	117.68	3.60	6.67	567.02	571.01	561.39	565.58j	5.43	1.26	562.11	566.29	0.00	19.93	0.013
16	109-110	15	7.44	564.32	565.23	35.00	2.60	6.32	571.01	571.01	565.58	566.32j	4.69	1.09	566.15	566.99	0.45	10.41	0.013
17	110-111	15	3.76	565.23	567.63	92.50	2.59	3.99	571.01	575.30	566.32	568.41j	6.89	0.78	566.65	568.75	0.00	10.40	0.013
18	111-112	15	3.76	567.63	568.71	108.00	1.00	4.65	575.30	574.00	569.49	569.49	4.51	0.78	568.75	569.83	0.00	6.46	0.013
19	112-113	12	2.95	568.71	581.73	186.00	7.00	4.62	574.00	587.00	569.49	582.47j	4.53	0.74	569.85	582.82	0.00	9.42	0.013
20	113-114	12	1.36	581.73	594.47	182.00	7.00	2.86	587.00	599.80	582.47	594.96j	4.84	0.49	582.66	595.16	0.00	9.42	0.013
21	107-116	18	7.79	553.65	554.41	76.00	1.00	5.10	564.57	560.50	555.08	555.49j	5.01	1.08	555.58	556.00	0.00	10.50	0.013
22	116-117	18	7.13	554.51	555.61	110.00	1.00	5.66	560.50	561.20	555.49	556.64	4.56	1.03	555.96	557.11	0.00	10.50	0.013
23	117-118	15	4.74	555.71	559.77	203.00	2.00	4.97	561.20	571.50	556.64	560.65j	10.85	0.88	557.05	561.06	0.00	9.13	0.013
24	118-119	15	3.37	559.87	560.31	44.00	1.00	4.32	571.50	567.20	560.65	561.05j	6.15	0.74	560.96	561.36	0.00	6.46	0.013
25	119-120	12	1.33	560.31	591.67	196.00	16.00	2.82	567.20	595.70	561.05	592.16j	3.54	0.49	561.24	592.35	0.00	14.25	0.013
26	108-121	12	0.75	560.08	562.36	35.00	6.51	1.94	567.02	567.02	561.39	562.72j	4.30	0.36	561.40	562.85	0.11	9.09	0.013
27	20-21	30	26.29	550.00	550.42	42.00	1.00	5.53	551.25	557.48	552.59	552.59	4.37	1.75	552.95	553.11	0.17	41.01	0.013
28	200-201	30	24.95	552.65	552.91	26.00	1.00	5.08	555.53	560.20	555.74	555.84	4.30	1.70	556.14	556.24	0.10	41.01	0.013
29	201-202	30	24.95	553.06	554.83	24.00	7.38	6.05	560.20	559.94	555.90	556.53j	3.41	1.70	556.30	557.30	0.11	111.38	0.013
30	202-203	30	22.83	553.47	553.82	35.00	1.00	4.65	559.94	559.94	556.53	556.64	3.01	1.62	556.87	556.98	0.11	41.01	0.013
31	203-204	24	18.71	553.92	554.4	48.00	1.00	5.96	559.94	560.20	556.93	557.26	2.61	1.56	557.48	557.81	0.33	22.62	0.013
32	204-205	24	17.68	554.50	555.39	90.00	0.99	5.63	560.20	562.40	557.59	558.14	3.77	1.51	558.08	558.63	0.55	22.49	0.013
33	205-206	24	16.71	555.49	558.1	154.00	1.69	6.03	562.40	570.00	558.63	559.57j	10.43	1.47	559.07	560.28	0.95	29.44	0.013
34	206-207	24	16.71	558.10	563.02	41.00	12.00	6.74	570.00	570.47	559.57	564.49	5.98	1.47	560.28	565.20	0.00	78.35	0.013
35	207-208	24	13.27	563.02	568.40	150.00	3.59	5.72	570.47	577.50	564.49	569.71j	7.79	1.31	565.07	570.29	0.00	42.83	0.013
36	208-209	24	13.27	568.50	570.28	177.00	1.01	6.38	577.50	576.40	569.71	571.59	4.81	1.31	570.29	572.17	0.00	22.68	0.013
37	209-210	24	12.53	570.38	572.68	115.33	1.99	6.12	576.40	578.50	571.59	573.95	4.55	1.27	572.14	574.50	0.00	31.94	0.013
38	210-211	12	6.14	572.68	579.27	36.60	18.01	7.87	578.50	586.40	573.95	580.23j	6.17	0.96	574.90	581.21	1.02	15.11	0.013
39	211-212	12	5.43	579.27	587.07	78.00	10.00	7.06	586.40	592.80	580.23	588.01j	4.79	0.94	581.01	588.79	0.00	11.26	0.013
40	212-213	12	2.19	587.07	604.55	184.00	9.50	3.53	592.80	609.11	588.01	605.18j	3.93	0.63	588.28	605.45	0.00	10.98	0.013
41	203-215	15	3.24	553.92	556.12	110.00	2.00	2.79	559.94	562.80	556.93	557.18	5.51	0.72	557.04	557.31	0.27	9.13	0.013
42	215-216	15	3.24	556.22	556.79	48.00	1.19	3.65	562.80	561.89	557.29	557.51j	4.38	0.72	557.59	557.81	0.00	7.04	0.013
43	216-217	12	1.97	556.89	557.31	35.00	1.20	3.92	561.89	561.89	557.51	557.91j	3.98	0.60	557.77	558.16	0.00	3.90	0.013
44	207-218	12	1.77	563.02	565.82	35.00	8.00	3.06	570.47	570.47	564.49	566.39j	4.08	0.57	564.57	566.62	0.16	10.07	0.013
45	210-219	12	5.26	572.68	583.38	56.32	19.00	6.81	578.50	590.50	573.95	584.31j	6.19	0.93	574.65	585.05	1.15	15.52	0.013
46	219-220	12	5.26	585.00	603	150.00	12.00	10.99	590.50	607.27	585.46	603.93	3.34	0.93	586.20	604.67	0.00	12.34	0.013
47	30-31	18	9.68	581.86	582.16	30.00	1.00	5.54	583.65	587.50	583.36	583.58	3.44	1.20	583.83	584.06	0.24	10.50	0.013
48	31-31	18	8.12	582.16	587.85	94.86	6.00	5.21	587.50	595.00	584.06	588.95j	6.05	1.10	584.39	589.48	0.64	25.72	0.013
49	31-33	12	1.56	582.16	595.46	70.00	19.00	2.84	587.50	602.00	584.06	595.99j	6.01	0.53	584.12	596.20	0.29	15.52	0.013
50	300-301	18	7.07	590.30	590.7	20.00	2.00	4.00	591.55	595.80	594.59	594.68	1.02	1.03	594.84	594.93	0.09	14.85	0.013
51	301-302	15	7.07	590.70	599.21	46.00	18.50	6.06	595.80	607.50	594.78	600.27j	7.23	1.06	595.30	600.90	0.54	27.77	0.013
52	302-303	15	7.07	599.21	600.69	16.00	9.25	6.35	607.50	610.00	600.27	601.75	8.25	1.06	600.90	602.38	0.00	19.64	0.013
53	303-304	15	7.07	599.61	600.41	32.00	2.50	5.76	610.00	610.17	601.75	602.14	7.66	1.06	602.27	602.65	0.38	10.21	0.013
54	304-305	15	4.07	602.36	603.06	35.00	2.00	6.01	610.17	610.17	602.94	603.88	6.29	0.82	603.30	604.23	0.00	9.13	0.013
55	305-306	12	1.89	603.16	603.72	28.00	2.00	3.55	610.17	611.30	603.88	604.31j	6.99	0.59	604.12	604.55	0.00	5.04	0.013
56	306-307	12	1.89	603.82	604.41	118.00	0.50	3.52	611.30	612.00	604.47	605.06	6.89	0.59	604.66	605.25	0.59	2.52	0.013
57	307-308	12	1.08	604.51	605	98.00	0.50	2.72	612.00	609.20	605.11	605.44	3.60	0.44	605.19	605.60	0.38	2.52	0.013