

Drawing name: V:\1910344-Feldewer\Drawings\Improvements\034\IMP.dwg Plotted on: Jun 15, 2021 - 7:53am Plotted by: junkunhaus

15 YEAR - 20 MINUTE																				
LineNo	LineID	LineSize (in)	FlowRate (cfs)	InvertDn (ft)	InvertUp (ft)	LineLength (ft)	LineSlope (%)	VelAve (ft/s)	Grnd/Rim/Elev Dn (ft)	Grnd/Rim/Elev Up (ft)	HGLDn (ft)	HGLUp (ft)	Rim-Hw/ Critical (ft)	CriticalDepth (ft)	EGLDn (ft)	EGLUp (ft)	EnergyLoss (ft)	CapacityFull (cfs)	n-value	Pipe
1	FE 01 - FE 02	36	6.62	467.60	468.18	250.00	0.20	0.34	471.02	471.60	475.40	475.43	-3.84	0.81	475.41	475.44	0.029	29.83	0.013	
2	FE 10 - OS 11	24	9.12	471.95	472.24	38.99	1.00	2.90	474.18	475.66	476.00	476.06	-0.53	1.08	476.13	476.19	0.053	22.62	0.013	
3	FE 12 - MH 13	18	8.10	473.70	473.94	24.15	0.99	4.58	475.49	480.70	476.44	476.58	-3.92	1.10	476.77	476.91	0.144	10.47	0.013	
4	MH 13 - MH 14	18	8.10	473.94	476.18	26.05	8.60	5.20	480.70	485.35	476.78	477.28	8.07	1.10	477.11	477.81	0.175	30.79	0.013	
5	MH 14 - MH 15	18	8.10	474.58	474.92	34.08	1.00	4.58	485.35	485.30	477.28	477.48	2.49	1.10	477.61	477.81	0.203	10.49	0.013	
6	MH 15 - MH 16	15	3.93	474.92	475.91	99.32	1.00	3.20	487.40	487.40	477.81	478.18	9.20	0.80	477.97	478.34	0.368	6.45	0.013	
7	MH 16 - CI 17	15	3.93	475.91	478.04	213.23	1.00	3.58	487.40	487.11	478.20	478.98	7.88	0.80	478.36	479.23	0.862	6.45	0.013	
8	CI 17 - MH 18	12	1.93	478.04	478.30	25.67	1.01	2.46	487.11	487.00	479.23	479.30	7.65	0.59	479.32	479.30	0.075	3.58	0.013	
9	MH 18 - AI 19	12	1.93	478.30	479.24	94.00	1.00	3.22	487.00	483.90	479.35	479.83	4.07	0.59	479.44	480.08	0.457	3.56	0.013	
10	MH 14 - CI 20	12	2.65	479.95	480.50	55.34	0.99	4.74	485.30	484.57	480.59	481.20	3.37	0.70	480.91	481.52	0.000	3.55	0.013	
11	CI 20 - CI 21	12	1.31	480.50	480.85	35.00	1.00	2.86	484.57	484.57	481.20	481.33	3.24	0.48	481.39	481.52	0.000	3.56	0.013	
12	MH 14 - AI 22	12	1.52	474.92	479.01	95.11	4.30	2.80	485.30	483.70	477.81	479.53	4.17	0.52	477.97	479.74	0.386	7.38	0.013	
13	CI 17 - CI 23	12	1.00	478.04	482.24	35.00	12.00	2.24	487.11	487.11	479.23	482.66	4.45	0.42	479.25	482.82	0.116	12.34	0.013	
14	HW 25 - OS 26	36	37.90	473.00	473.60	60.00	1.00	7.59	475.52	481.00	474.99	475.50	5.40	2.00	475.88	476.49	0.000	66.69	0.013	
15	FE 30 - CI 31	24	11.53	479.00	479.48	48.39	0.99	3.67	481.33	490.95	481.94	482.07	8.79	1.22	482.15	482.28	0.126	22.53	0.013	
16	CI 31 - CI 32	24	11.15	479.48	479.83	35.00	1.00	3.55	490.95	490.95	482.16	482.24	8.52	1.20	482.35	482.44	0.085	22.62	0.013	
17	CI 32 - AI 33	18	6.11	480.29	481.28	99.46	1.00	3.47	490.95	489.50	482.43	482.75	6.57	0.95	482.62	482.94	0.319	10.48	0.013	
18	AI 33 - AI 34	15	4.23	482.28	483.72	144.40	1.00	5.24	489.50	490.90	483.02	484.55	6.35	0.83	483.39	484.92	0.000	6.45	0.013	
19	AI 34 - AI 35	15	3.43	483.72	485.00	127.64	1.00	4.22	490.90	490.30	484.55	485.75	4.55	0.75	484.87	486.06	0.000	6.47	0.013	
20	CI 32 - DCI 36	15	4.08	484.23	484.77	54.45	0.99	5.17	490.95	491.37	484.95	485.59	5.78	0.82	485.31	485.95	0.000	6.43	0.013	
21	DCI 36 - DCI 37	12	2.14	484.77	486.31	35.00	4.40	3.63	491.37	491.37	485.59	486.93	4.44	0.62	485.85	487.20	0.000	7.47	0.013	
22	FE 40 - DCI 41	30	23.77	480.00	480.76	76.18	1.00	6.34	482.88	493.15	481.94	482.42	10.73	1.66	482.67	483.15	0.000	40.96	0.013	
23	DCI 41 - DCI 42	30	18.65	486.50	487.68	118.34	1.00	7.20	493.15	493.02	487.68	489.14	5.88	1.46	488.29	489.75	0.000	40.95	0.013	
24	DCI 42 - AI 43	24	12.75	487.68	489.63	129.95	1.50	5.59	495.02	497.50	489.14	490.91	8.59	1.28	489.70	491.47	0.000	27.71	0.013	
25	AI 43 - AI 44	15	7.57	489.63	496.07	92.00	7.00	6.41	497.50	502.50	490.91	497.16	5.74	1.09	491.51	497.85	1.206	17.08	0.013	
26	AI 44 - AI 45	12	6.43	496.07	508.50	110.00	11.30	8.23	502.90	513.40	497.16	509.47	3.93	0.97	498.20	510.53	3.363	11.97	0.013	
27	AI 45 - AI 46	12	3.13	508.50	525.14	169.80	9.80	4.47	513.40	530.40	509.47	525.90	4.50	0.76	509.84	526.27	0.000	11.15	0.013	
28	AI 46 - MH 46.1	12	2.00	525.14	539.44	75.28	19.00	3.59	530.40	544.80	525.90	540.04	4.76	0.60	526.15	540.30	0.000	15.52	0.013	
29	MH 46.1 - MH 46.2	12	2.00	539.44	545.87	77.49	8.30	4.04	544.80	551.80	540.04	546.47	5.33	0.60	540.30	546.73	0.000	10.26	0.013	
30	MH 46.2 - DCI 47	12	2.00	545.87	546.14	27.10	1.00	4.04	551.80	551.10	546.47	546.74	4.36	0.60	546.73	547.00	0.000	3.56	0.013	
31	DCI 47 - DCI 48	12	1.28	546.14	546.52	35.00	1.09	3.02	551.10	551.10	546.74	547.00	4.10	0.48	546.93	547.18	0.000	3.71	0.013	
32	DCI 41 - DCI 49	15	4.78	480.76	481.81	35.00	1.00	4.52	493.15	493.15	482.42	482.70	10.45	0.89	482.65	483.11	0.229	11.78	0.013	
33	DCI 49 - AI 50	15	4.12	481.81	483.57	175.74	1.00	4.63	493.15	488.70	482.70	484.39	4.31	0.82	483.06	484.75	0.000	6.46	0.013	
34	DCI 42 - DCI 51	12	3.14	487.68	490.20	35.00	7.20	4.46	495.02	495.02	489.14	490.96	4.06	0.76	489.39	491.33	0.255	9.56	0.013	
35	AI 43 - MH 52	15	4.08	491.63	511.78	67.17	30.00	12.00	497.50	516.50	491.92	512.60	3.90	0.82	492.28	512.96	0.000	35.37	0.013	
36	MH 52.1 - MH 53	15	4.08	511.78	514.76	74.50	4.00	4.80	516.50	524.30	512.60	515.58	8.72	0.82	512.96	515.94	0.000	12.91	0.013	
37	MH 53 - DCI 54	15	4.08	514.76	517.39	65.87	3.99	4.80	524.30	521.80	515.58	518.21	3.59	0.82	515.94	518.57	0.000	12.90	0.013	
38	AI 45 - MH 55	12	1.19	508.50	517.67	48.28	18.99	2.45	513.40	526.70	509.47	518.13	8.57	0.46	509.64	518.31	0.000	15.52	0.013	
39	MH 55 - CI 56	12	1.19	521.50	526.46	141.71	3.50	4.89	526.70	532.79	521.79	526.92	5.87	0.46	521.96	527.10	0.000	6.66	0.013	
40	HW 60 - MH 61	24	11.49	481.00	481.12	12.00	1.00	5.74	483.38	486.20	482.22	482.34	3.86	1.22	482.73	482.85	0.000	22.62	0.013	
41	MH 61 - MH 62	24	11.49	481.12	483.22	13.00	16.15	5.75	485.20	488.30	482.34	484.44	3.86	1.22	482.85	484.95	0.000	90.91	0.013	
42	MH 62 - CI 63	24	10.48	480.95	481.56	121.18	0.50	3.34	488.30	488.01	484.44	484.70	3.79	1.16	484.61	484.87	0.760	16.05	0.013	
43	CI 63 - DCI 64	24	10.02	481.57	481.74	35.00	0.49	3.19	488.01	488.01	484.72	484.79	3.08	1.13	484.88	484.95	0.069	15.76	0.013	
44	DCI 64 - MH 65	24	8.66	481.74	482.00	52.04	0.50	2.76	488.01	487.08	484.93	485.01	1.97	1.05	485.05	485.13	0.076	15.99	0.013	
45	MH 65 - AI 66	24	8.66	482.00	482.80	80.00	1.00	2.76	487.08	487.90	485.11	485.23	2.56	1.05	485.23	485.35	0.117	22.62	0.013	
46	AI 66 - MH 65.1	15	4.84	482.80	483.25	45.00	1.00	3.94	487.90	489.50	485.34	485.59	3.71	0.89	485.58	485.83	0.253	6.46	0.013	
47	MH 66.1 - AI 67	15	4.84	483.25	483.81	56.00	1.00	3.94	489.50	489.90	485.79	486.11	3.55	0.89	486.03	486.35	0.315	6.46	0.013	
48	MH 62 - CI 68	12	1.01	480.95	483.76	112.37	2.50	1.43	488.30	489.09	484.44	484.52	4.56	0.42	484.64	484.56	0.058	5.63	0.013	
49	CI 68 - CI 69	12	0.74	483.76	484.11	35.00	1.00	2.03	489.09	489.09	484.53	484.47	4.62	0.36	484.66	484.60	0.000	3.56	0.013	
50	FE 80 - OS 81	30	21.46	488.00	488.72	72.00	1.00	5.00	489.25	502.00	490.50	490.53	10.97	1.57	490.80	491.03	0.227	41.01	0.013	
51	FE 83 - MH 84	15	3.95	500.00	500.28	28.00	1.00	3.27	501.25	507.00	502.61	502.71	4.25	0.80	502.77	502.88	0.105	6.46	0.013	
52	MH 84 - MH 85	12	3.95	500.28	510.02	51.26	19.00	5.31	507.00	520.50	502.75	510.86	9.64	0.84	503.14	511.35	0.617	15.52	0.013	
53	MH 85 - MH 86	12	3.95	514.11	538.15	184.01	13.00	9.99	520.50	543.50	514.98	538.99	4.51	0.84	514.98	539.48	0.000	12.84	0.013	
54	MH 86 - AI 87	12	3.95	538.15	543.55	77.21	6.99	5.59	543.50	548.50	538.99	544.39	4.11	0.84	539.48	544.88	0.000	9.42	0.013	
55	AI 87 - CI 88	12	3.58	543.55	552.35	137.50	6.40	5.17	548.50	558.50	544.39	553.16	5.34	0.81	544.82	553.58	0.000	9.01	0.013	
56	CI 88 - CI 89	12	2.47	552.35	552.70	35.00	1.00	4.02	558.50	558.50	553.16	553.37	5.13	0.67	553.46	553.67	0.000	3.56	0.013	
57	CI 89 - AI 90	12	1.36	552.70	553.88	117.50	1.00	2.97	558.50	558.60	553.37	554.37								