

**BENCHMARKS:**  
**BM #1:**  
 RR Spike in CATV Pole, 85'  
 east and 77' south of SE  
 corner of Woods North 3rd  
 Addition.  
 Elev. = 1383.00 NAVD88

**BM #2:**  
 "□" cut at centerline of  
 inlet adjacent to Lot 29,  
 Block A, Woods North 2nd  
 Addition.  
 Elev. = 1387.12 NAVD88

**BM #3:**  
 Cross cut on north end of  
 west headwall 137.5' south &  
 12' west of the intersection  
 of 29th St N & 127th St E.  
 ELEV. = 1382.45 NAVD88

Curve #4  
 Curve Data Based on Waterline  
 Rad. = 777' Delta = 343.28' Tangent = 38.85'  
 Arc = 77.63' L.C. = 77.60' Def./Ft. = 2.21220 Min.

Station	Arc	Chord	Defl.	Total Defl.
0+06.00	0.00	0.00	0.00	0.00
0+25.00	19.00	18.85	0.42	0.42
0+50.00	38.00	37.71	0.84	0.84
0+75.00	57.00	56.42	1.26	1.26
0+83.63	8.63	8.56	0.19	2.51

Curve #5  
 Curve Data Based on Waterline  
 Rad. = 523' Delta = 15.9611' Tangent = 73.21'  
 Arc = 145.46' L.C. = 145.00' Def./Ft. = 3.28676 Min.

Station	Arc	Chord	Defl.	Total Defl.
0+83.63	0.00	0.00	0.00	0.00
1+00.00	16.37	16.56	0.53	0.53
1+16.26	32.74	33.12	1.06	1.06
1+32.00	49.11	49.50	1.59	1.59
1+47.81	65.48	66.00	2.12	2.12
1+63.63	81.85	82.50	2.65	2.65
1+79.46	98.22	99.00	3.18	3.18
1+95.29	114.59	115.50	3.71	3.71
2+11.12	130.96	132.00	4.24	4.24
2+26.95	147.33	148.50	4.77	4.77
2+42.78	163.70	165.00	5.30	5.30
2+58.61	180.07	181.50	5.83	5.83
2+74.44	196.44	198.00	6.36	6.36
2+90.27	212.81	214.50	6.89	6.89
3+06.10	229.18	231.00	7.42	7.42
3+21.93	245.55	247.50	7.95	7.95
3+37.76	261.92	264.00	8.48	8.48
3+53.59	278.29	280.50	9.01	9.01
3+69.42	294.66	297.00	9.54	9.54
3+85.25	311.03	313.50	10.07	10.07
4+01.08	327.40	330.00	10.60	10.60
4+16.91	343.77	346.50	11.13	11.13
4+32.74	360.14	363.00	11.66	11.66
4+48.57	376.51	379.50	12.19	12.19
4+64.40	392.88	396.00	12.72	12.72
4+80.23	409.25	412.50	13.25	13.25
4+96.06	425.62	429.00	13.78	13.78
5+11.89	441.99	445.50	14.31	14.31
5+27.72	458.36	462.00	14.84	14.84
5+43.55	474.73	478.50	15.37	15.37
5+59.38	491.10	495.00	15.90	15.90
5+75.21	507.47	509.50	16.43	16.43
5+91.04	523.84	527.00	16.96	16.96
6+06.87	540.21	544.50	17.49	17.49
6+22.70	556.58	561.00	18.02	18.02
6+38.53	572.95	577.50	18.55	18.55
6+54.36	589.32	594.00	19.08	19.08
6+70.19	605.69	609.50	19.61	19.61
6+86.02	622.06	625.50	20.14	20.14
7+01.85	638.43	642.00	20.67	20.67
7+17.68	654.80	658.50	21.20	21.20
7+33.51	671.17	675.00	21.73	21.73
7+49.34	687.54	691.50	22.26	22.26
7+65.17	703.91	708.00	22.79	22.79
7+81.00	720.28	723.00	23.32	23.32
7+96.83	736.65	739.50	23.85	23.85
8+12.66	753.02	756.00	24.38	24.38
8+28.49	769.39	772.50	24.91	24.91
8+44.32	785.76	789.00	25.44	25.44
8+60.15	802.13	805.50	25.97	25.97
8+75.98	818.50	822.00	26.50	26.50
8+91.81	834.87	838.50	27.03	27.03
9+07.64	851.24	855.00	27.56	27.56
9+23.47	867.61	871.50	28.09	28.09
9+39.30	883.98	888.00	28.62	28.62
9+55.13	900.35	904.50	29.15	29.15
9+70.96	916.72	921.00	29.68	29.68
9+86.79	933.09	937.50	30.21	30.21
10+02.62	949.46	954.00	30.74	30.74
10+18.45	965.83	970.50	31.27	31.27
10+34.28	982.20	987.00	31.80	31.80
10+50.11	998.57	1003.50	32.33	32.33
10+65.94	1014.94	1020.00	32.86	32.86
10+81.77	1031.31	1036.50	33.39	33.39
10+97.60	1047.68	1052.50	33.92	33.92
11+13.43	1064.05	1068.50	34.45	34.45
11+29.26	1080.42	1084.50	34.98	34.98
11+45.09	1096.79	1108.50	35.51	35.51
11+60.92	1113.16	1124.00	36.04	36.04
11+76.75	1129.53	1140.00	36.57	36.57
11+92.58	1145.90	1156.00	37.10	37.10
12+08.41	1162.27	1171.50	37.63	37.63
12+24.24	1178.64	1187.00	38.16	38.16
12+40.07	1195.01	1202.50	38.69	38.69
12+55.90	1211.38	1218.00	39.22	39.22
12+71.73	1227.75	1233.50	39.75	39.75
12+87.56	1244.12	1249.50	40.28	40.28
13+03.39	1260.49	1265.00	40.81	40.81
13+19.22	1276.86	1279.50	41.34	41.34
13+35.05	1293.23	1295.50	41.87	41.87
13+50.88	1309.60	1311.50	42.40	42.40
13+66.71	1325.97	1327.00	42.93	42.93
13+82.54	1342.34	1343.00	43.46	43.46
13+98.37	1358.71	1359.00	43.99	43.99
14+14.20	1375.08	1375.50	44.52	44.52
14+30.03	1391.45	1391.50	45.05	45.05
14+45.86	1407.82	1407.50	45.58	45.58
14+61.69	1424.19	1424.00	46.11	46.11
14+77.52	1440.56	1440.00	46.64	46.64
14+93.35	1456.93	1456.50	47.17	47.17
15+09.18	1473.30	1473.00	47.70	47.70
15+25.01	1489.67	1489.50	48.23	48.23
15+40.84	1506.04	1506.00	48.76	48.76
15+56.67	1522.41	1522.00	49.29	49.29
15+72.50	1538.78	1538.50	49.82	49.82
15+88.33	1555.15	1555.00	50.35	50.35
16+04.16	1571.52	1571.50	50.88	50.88
16+20.00	1587.89	1588.00	51.41	51.41
16+35.83	1604.26	1604.50	51.94	51.94
16+51.66	1620.63	1621.00	52.47	52.47
16+67.49	1637.00	1637.50	53.00	53.00
16+83.32	1653.37	1654.00	53.53	53.53
16+99.15	1669.74	1670.50	54.06	54.06
17+14.98	1686.11	1687.00	54.59	54.59
17+30.81	1702.48	1703.50	55.12	55.12
17+46.64	1718.85	1719.50	55.65	55.65
17+62.47	1735.22	1735.50	56.18	56.18
17+78.30	1751.59	1751.50	56.71	56.71
17+94.13	1767.96	1768.00	57.24	57.24
18+09.96	1784.33	1784.50	57.77	57.77
18+25.79	1800.70	1801.00	58.30	58.30
18+41.62	1817.07	1817.50	58.83	58.83
18+57.45	1833.44	1834.00	59.36	59.36
18+73.28	1849.81	1850.50	59.89	59.89
18+89.11	1866.18	1867.00	60.42	60.42
19+04.94	1882.55	1883.50	60.95	60.95
19+20.77	1898.92	1899.50	61.48	61.48
19+36.60	1915.29	1916.00	62.01	62.01
19+52.43	1931.66	1932.50	62.54	62.54
19+68.26	1948.03	1949.00	63.07	63.07
19+84.09	1964.40	1965.50	63.60	63.60
19+99.92	1980.77	1982.00	64.13	64.13
20+15.75	1997.14	1998.50	64.66	64.66
20+31.58	2013.51	2015.00	65.19	65.19
20+47.41	2029.88	2031.50	65.72	65.72
20+63.24	2046.25	2048.00	66.25	66.25
20+79.07	2062.62	2064.50	66.78	66.78
20+94.90	2078.99	2081.00	67.31	67.31
21+10.73	2095.36	2097.50	67.84	67.84
21+26.56	2111.73	2114.00	68.37	68.37
21+42.39	2128.10	2130.50	68.90	68.90
21+58.22	2144.47	2147.00	69.43	69.43
21+74.05	2160.84	2163.50	69.96	69.96
21+89.88	2177.21	2180.00	70.49	70.49
22+05.71	2193.58	2196.50	71.02	71.02
22+21.54	2209.95	2213.00	71.55	71.55
22+37.37	2226.32	2229.50	72.08	72.08
22+53.20	2242.69	2246.00	72.61	72.61
22+69.03	2259.06	2262.50	73.14	73.14
22+84.86	2275.43	2279.00	73.67	73.67
23+00.69	2291.80	2295.50	74.20	74.20
23+16.52	2308.17	2312.00	74.73	74.73
23+32.35	2324.54	2328.50	75.26	75.26
23+48.18	2340.91	2345.00	75.79	75.79
23+64.01	2357.28	2361.50	76.32	76.32
23+79.84	2373.65	2378.00	76.85	76.85
23+95.67	2390.02	2394.50	77.38	77.38
24+11.50	2406.39	2411.00	77.91	77.91
24+27.33	2422.76	2427.50	78.44	78.44
24+43.16	2439.13	2444.00	78.97	78.97
24+58.99	2455.50	2460.50	79.50	79.50
25+14.82	2471.87	2477.00	80.03	80.03
25+30.65	2488.24	2493.50	80.56	80.56
25+46.48	2504.61	2510.00	81.09	81.09
25+62.31	2520.98	2526.50	81.62	81.62
25+78.14	2537.35	2543.00	82.15	82.15
25+93.97	2553.72	2559.50	82.68	82.68
26+09.80	2570.09	2576.00	83.21	83.21
26+25.63	2586.46	2592.50	83.74	83.74
26+41.46	2602.83	2609.00	84.27	84.27
26+57.29	2619.20	2625.50	84.80	84.80
27+13.12	2635.57	2642.00	85.33	85.33
27+28.95	2651.94	2658.50	85.86	85.86
27+44.78	2668.31	2675.00	86.39	86.39
27+60.61	2684.68	2691.50	86.92	86.92
27+76.44	2701.05	2708.00	87.45	87.45
27+92.27	2717.42	2724.00	87.98	87.98
28+08.10	2733.79	2740.50	88.51	88.51