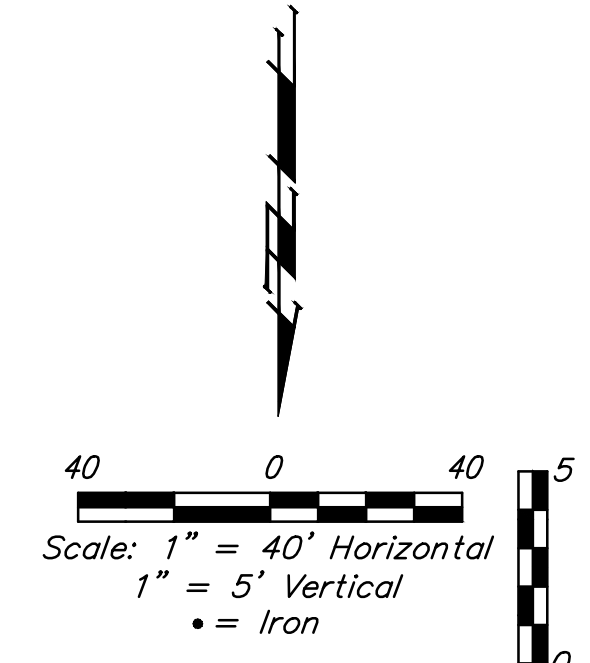
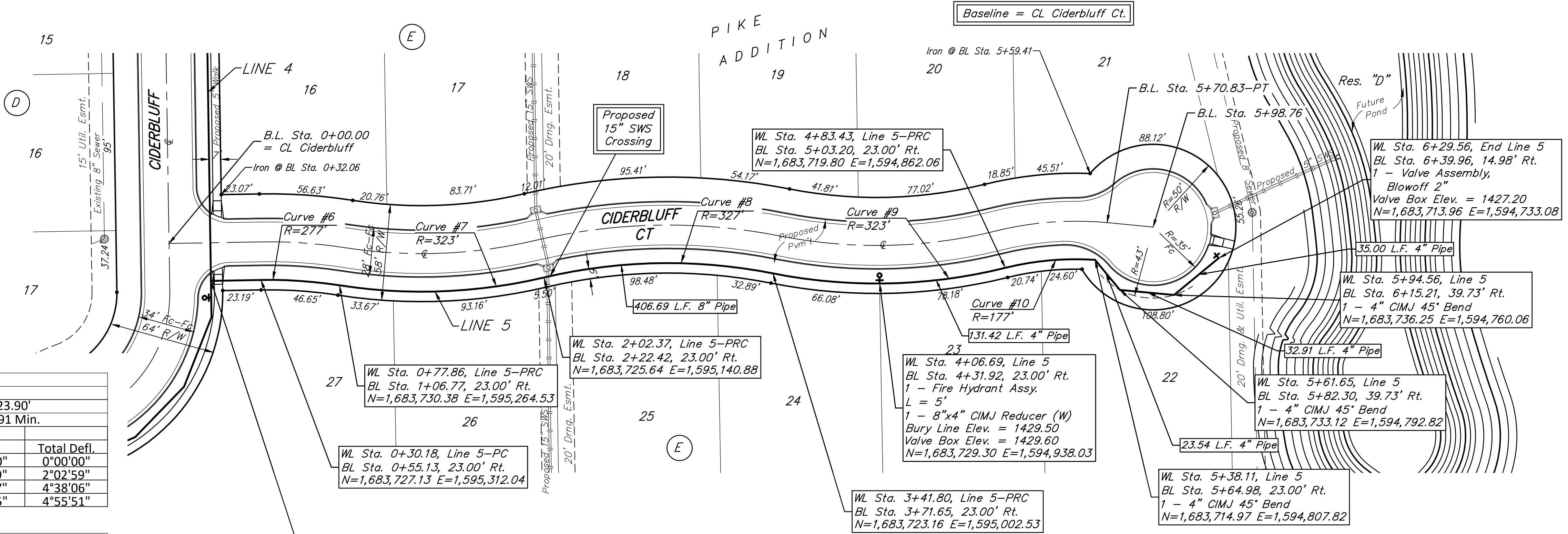


**BENCHMARKS:**  
 BM #1: City of Wichita disc top of headwall of RCBC 660± east of the SE Cor. of the SE1/4, SEC. 22, TWP. 27-S, R-2-W. Elev. = 1410.27 NAVD88

BM #2: 60d step nail in utility pole 28' east of E of 162nd St. W. and 26' north of E of Maple. Elev. = 1417.99 NAVD88

For radii under 300', contractor shall use short pipe lengths.



**Curve #6**  
 Curve Data Based on Waterline  
 Rad. = 277' Delta = 9°51'42" Tangent = 23.90'  
 Arc = 47.68' L.C. = 47.62' Def./Ft. = 6.20491 Min.

Station	Arc	8' Right	Defl.	Total Defl.
0+30.18	-	-	0°00'00"	0°00'00"
0+50.00	19.82'	19.24'	2°02'59"	2°02'59"
0+75.00	25.00'	24.27'	2°35'07"	4°38'06"
0+77.86	2.86'	2.78'	0°17'45"	4°55'51"

**Curve #7**  
 Curve Data Based on Waterline  
 Rad. = 323' Delta = 22°05'15" Tangent = 63.04'  
 Arc = 124.51' L.C. = 123.75' Def./Ft. = 5.32186 Min.

Station	Arc	8' Right	Defl.	Total Defl.
0+77.86	-	-	0°00'00"	0°00'00"
1+00.00	22.14'	22.69'	1°57'50"	1°57'50"
1+25.00	25.00'	25.61'	2°13'02"	4°10'52"
1+50.00	25.00'	25.61'	2°13'03"	6°23'55"
1+75.00	25.00'	25.61'	2°13'03"	8°36'58"
2+00.00	25.00'	25.61'	2°13'03"	10°50'01"
2+02.37	2.37'	2.43'	0°12'36"	11°02'37"

**Curve #8**  
 Curve Data Based on Waterline  
 Rad. = 327' Delta = 24°25'47" Tangent = 70.79'  
 Arc = 139.43' L.C. = 138.37' Def./Ft. = 5.25634 Min.

Station	Arc	8' Right	Defl.	Total Defl.
2+02.37	-	-	0°00'00"	0°00'00"
2+25.00	22.63'	22.07'	1°58'57"	1°58'57"
2+50.00	25.00'	24.38'	2°11'25"	4°10'22"
2+75.00	25.00'	24.38'	2°11'24"	6°21'46"
3+00.00	25.00'	24.38'	2°11'25"	8°33'11"
3+25.00	25.00'	24.38'	2°11'24"	10°44'35"
3+41.80	16.80'	16.39'	1°28'18"	12°12'53"

**Curve #9**  
 Curve Data Based on Waterline  
 Rad. = 323' Delta = 25°07'27" Tangent = 71.97'  
 Arc = 141.63' L.C. = 140.50' Def./Ft. = 5.32179 Min.

Station	Arc	8' Right	Defl.	Total Defl.
3+41.80	-	-	0°00'00"	0°00'00"
3+50.00	8.20'	8.40'	0°43'38"	0°43'38"
3+75.00	25.00'	25.61'	2°13'03"	2°56'41"
4+00.00	25.00'	25.61'	2°13'03"	5°09'44"
4+06.69	6.69'	6.86'	0°35'36"	5°45'20"
4+25.00	18.31'	18.76'	1°37'26"	7°22'46"
4+50.00	25.00'	25.61'	2°13'03"	9°35'49"
4+75.00	25.00'	25.61'	2°13'03"	11°48'52"
4+83.43	8.43'	8.64'	0°44'52"	12°33'44"

**Curve #10**  
 Curve Data Based on Waterline  
 Rad. = 177' Delta = 17°41'54" Tangent = 27.56'  
 Arc = 54.68' L.C. = 54.46' Def./Ft. = 9.71013 Min.

Station	Arc	8' Right	Defl.	Total Defl.
4+83.43	-	-	0°00'00"	0°00'00"
5+00.00	16.57'	15.81'	2°40'54"	2°40'54"
5+25.00	25.00'	23.85'	4°02'45"	6°43'39"
5+38.11	13.11'	12.51'	2°07'18"	8°50'57"

