BENCHMARKS:
City of Wichita Benchmark Disk 34.9' S. & 31.2' W. of the SW Cor., NW1/4, Sec. 2, Twp. 27-S, R-1-W. Elev. = 1327.57 NAVD88

" □ " cut in top of curb 1.5' north of the northeast corner of Lot 20, Block B, Sandcrest Addn. Elev. = 1327.21 NAVD88

" □ " cut in top of east curb inlet at the southeast corner of the southern intersection of Curtis & Sandcrest. Elev. = 1322.05 NAVD88

Curve #1
Curve Data Based on Centerline of Pipe
Rad. = 241' Delta = 14°24'47" Tangent = 30.47'
Arc = 60.63' L.C. = 60.47' Def./Ft. = 7.13165 Min.

Station	Arc	Chord 8' Right	Defl.	Total Defl.
1+50.08	–	–	0°00'00"	0°00'00"
1+75.00	24.92'	24.08'	2°57'43"	2°57'43"
2+00.00	25.00'	24.16'	2°58'18"	5°56'01"
2+10.71	10.71'	10.35'	1°16'22"	7°12'23"

Curve #2
Curve Data Based on Centerline of Pipe
Rad. = 331' Delta = 38°21'55" Tangent = 115.15'
Arc = 221.64' L.C. = 217.52' Def./Ft. = 5.19292 Min.

Station	Arc	Chord 8' Right	Defl.	Total Defl.
2+10.71	–	–	0°00'00"	0°00'00"
2+25.00	14.29'	14.63'	1°14'12"	1°14'12"
2+50.00	25.00'	25.60'	2°09'50"	3°24'02"
2+75.00	25.00'	25.60'	2°09'49"	5°33'51"
3+00.00	25.00'	25.60'	2°09'50"	7°43'41"
3+25.00	25.00'	25.60'	2°09'49"	9°53'30"
3+50.00	25.00'	25.60'	2°09'49"	12°03'19"
3+75.00	25.00'	25.60'	2°09'50"	14°13'09"
4+00.00	25.00'	25.60'	2°09'49"	16°22'58"
4+25.00	25.00'	25.60'	2°09'49"	18°32'47"
4+32.35	7.35'	7.53'	0°38'10"	19°10'57"

Curve #3
Curve Data Based on Centerline of Pipe
Rad. = 306' Delta = 20°19'57" Tangent = 54.87'
Arc = 108.59' L.C. = 108.02' Def./Ft. = 5.61723 Min.

Station	Arc	Chord 8' Right	Defl.	Total Defl.
4+32.35	–	–	0°00'00"	0°00'00"
4+50.58	18.23'	17.75'	1°42'24"	1°42'24"
4+75.00	24.42'	23.78'	2°17'10"	3°59'34"
5+00.00	25.00'	24.34'	2°20'26"	6°20'00"
5+25.00	25.00'	24.34'	2°20'26"	8°40'26"
5+40.94	15.94'	15.52'	1°29'32"	10°09'58"

Curve #4
Curve Data Based on Centerline of Pipe
Rad. = 623' Delta = 8°48'32" Tangent = 47.99'
Arc = 47.45' L.C. = 95.69' Def./Ft. = 5.56937 Min.

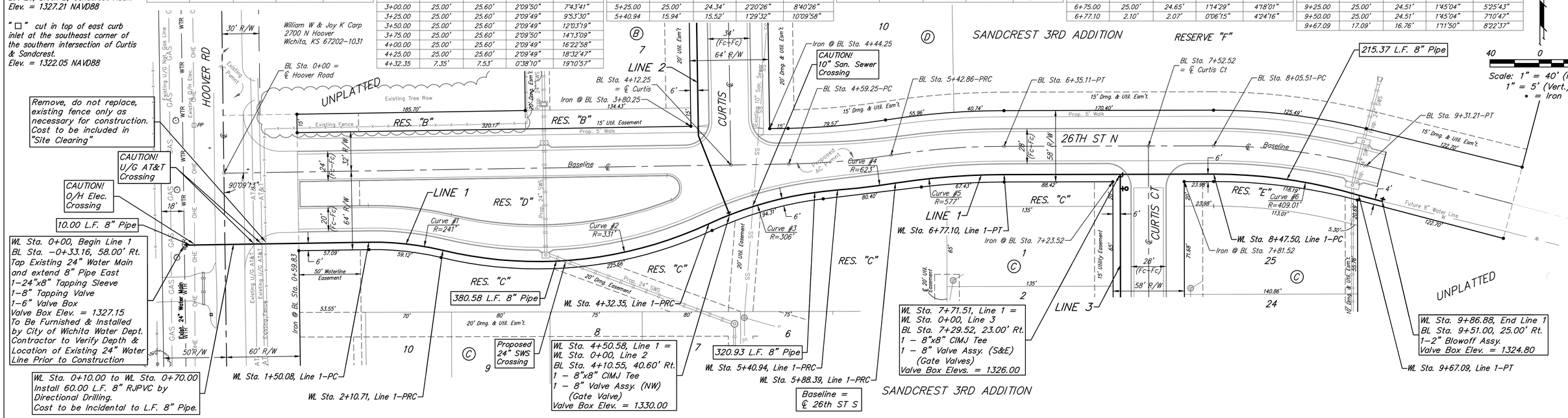
Station	Arc	Chord 8' Right	Defl.	Total Defl.
5+40.94	–	–	0°00'00"	0°00'00"
5+50.00	9.06'	18.52'	0°50'28"	0°50'28"
5+75.00	25.00'	51.10'	2°19'14"	3°09'42"
5+88.39	13.39'	27.37'	1°14'34"	4°24'16"

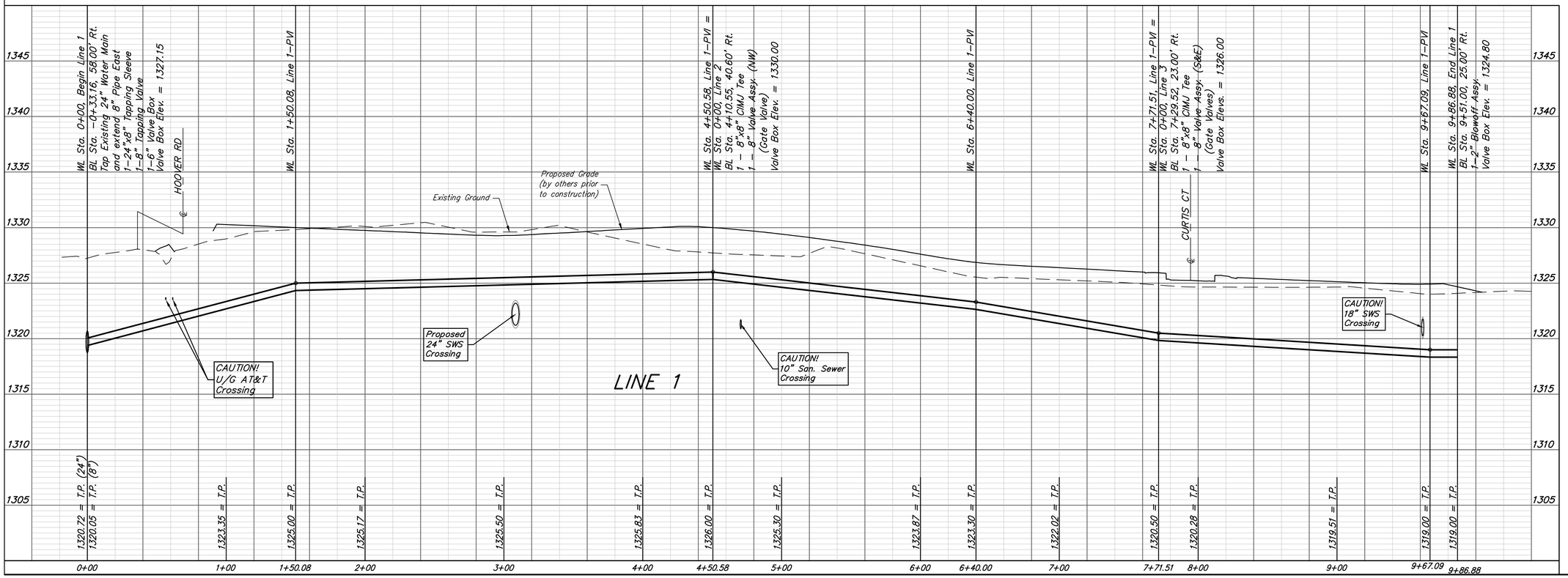
Curve #5
Curve Data Based on Centerline of Pipe
Rad. = 577' Delta = 8°48'32" Tangent = 44.44'
Arc = 88.71' L.C. = 88.62' Def./Ft. = 2.97900 Min.

Station	Arc	Chord 8' Right	Defl.	Total Defl.
5+88.39	–	–	0°00'00"	0°00'00"
6+00.00	11.61'	11.45'	0°34'35"	0°34'35"
6+25.00	25.00'	24.65'	1°14'29"	1°49'04"
6+50.00	25.00'	24.65'	1°14'28"	3°03'32"
6+75.00	25.00'	24.65'	1°14'29"	4°18'01"
6+77.10	2.10'	2.07'	0°06'15"	4°24'16"

Curve #6
Curve Data Based on Centerline of Pipe
Rad. = 409.01' Delta = 16°45'13" Tangent = 60.23'
Arc = 119.59' L.C. = 119.17' Def./Ft. = 4.20276 Min.

Station	Arc	Chord 8' Right	Defl.	Total Defl.
8+47.50	–	–	0°00'00"	0°00'00"
8+50.00	2.50'	2.45'	0°10'30"	0°10'30"
8+75.00	25.00'	24.51'	1°45'05"	1°55'35"
9+00.00	25.00'	24.51'	1°45'04"	3°40'39"
9+25.00	25.00'	24.51'	1°45'04"	5°25'43"
9+50.00	25.00'	24.51'	1°45'04"	7°10'47"
9+67.09	17.09'	16.76'	1°11'50"	8°22'37"





AUSTIN E. GOTTLOB
LICENSED
17919
1/16/2018
KANSAS
PROFESSIONAL ENGINEER

Baughman

Sandcrest 3rd Addition
LINE 1
Water Distribution System

Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 448-90860
REVISIONS:
DESIGN AEG
DRAWN JAK
APPROVED
DATE 1/15/18
SCALE Noted
SHEET 4 OF 18

I:\Projects\Sandcrest 3rd Addition_17-06-P296\Engineering\Phase 1\Wtr_16-11-E582\WTR PLANS.dwg