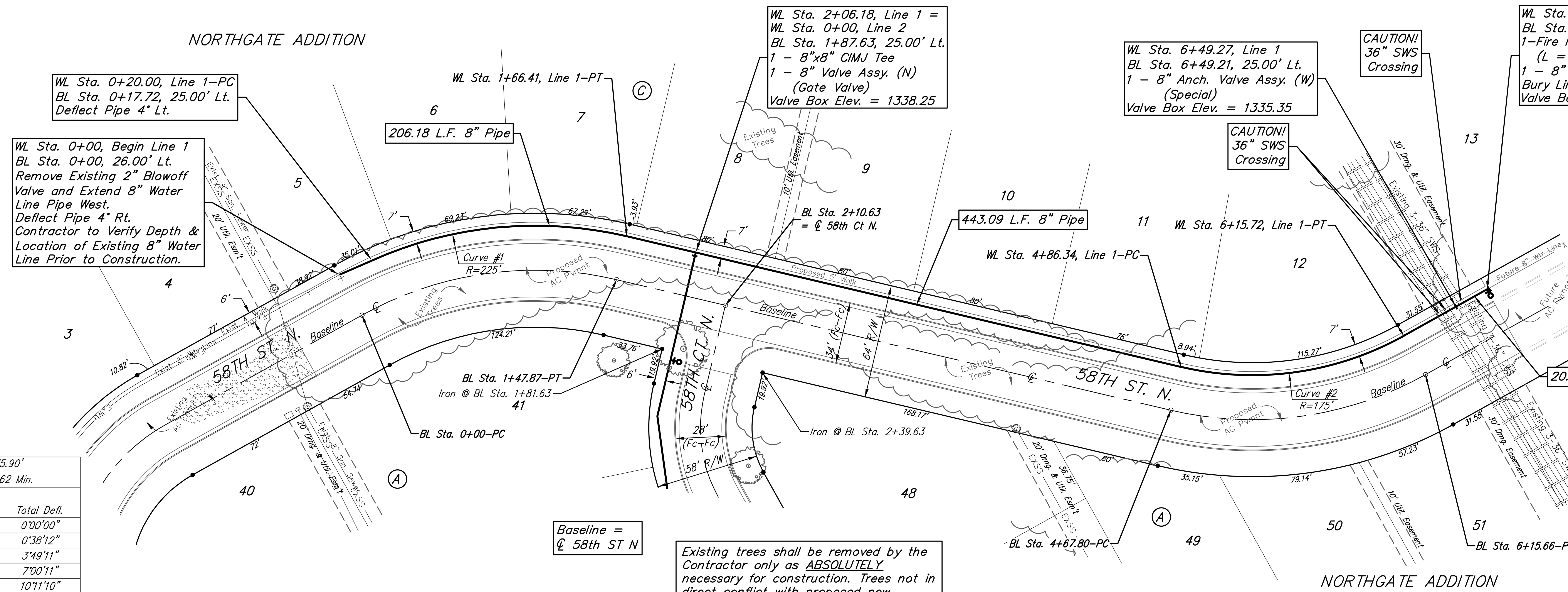
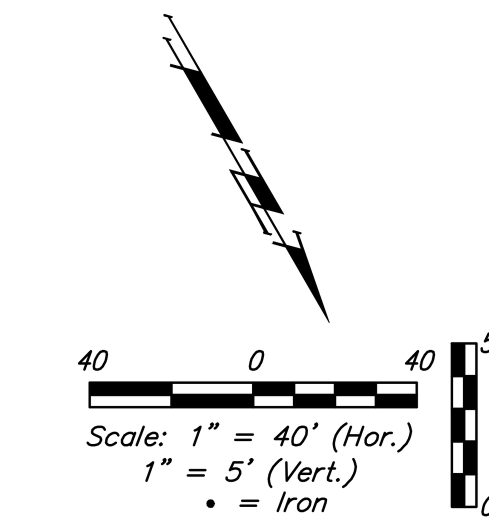
BENCHMARKS:
BM #1: "☐" Cut on top of SE Cor. of utility pad, adjacent to the SW Cor. Lot 40, Block A, Northgate Addition.
Elev. = 1340.12 NGVD29

BM #2: "☐" Cut on top of NE Cor. of water vault, 437'± E. & 54'± N. of S1/4 Cor., Sec. 13, TWP 26–S, R–1–W. 69
Elev. = 1334.81 NGVD29

BM #3: "☐" Cut on top of curb, adjacent to the SW Cor. Lot 17, Block D, Northgate Addition.
Elev. = 1338.47 NGVD29





Baseline =
℄ 58th ST N

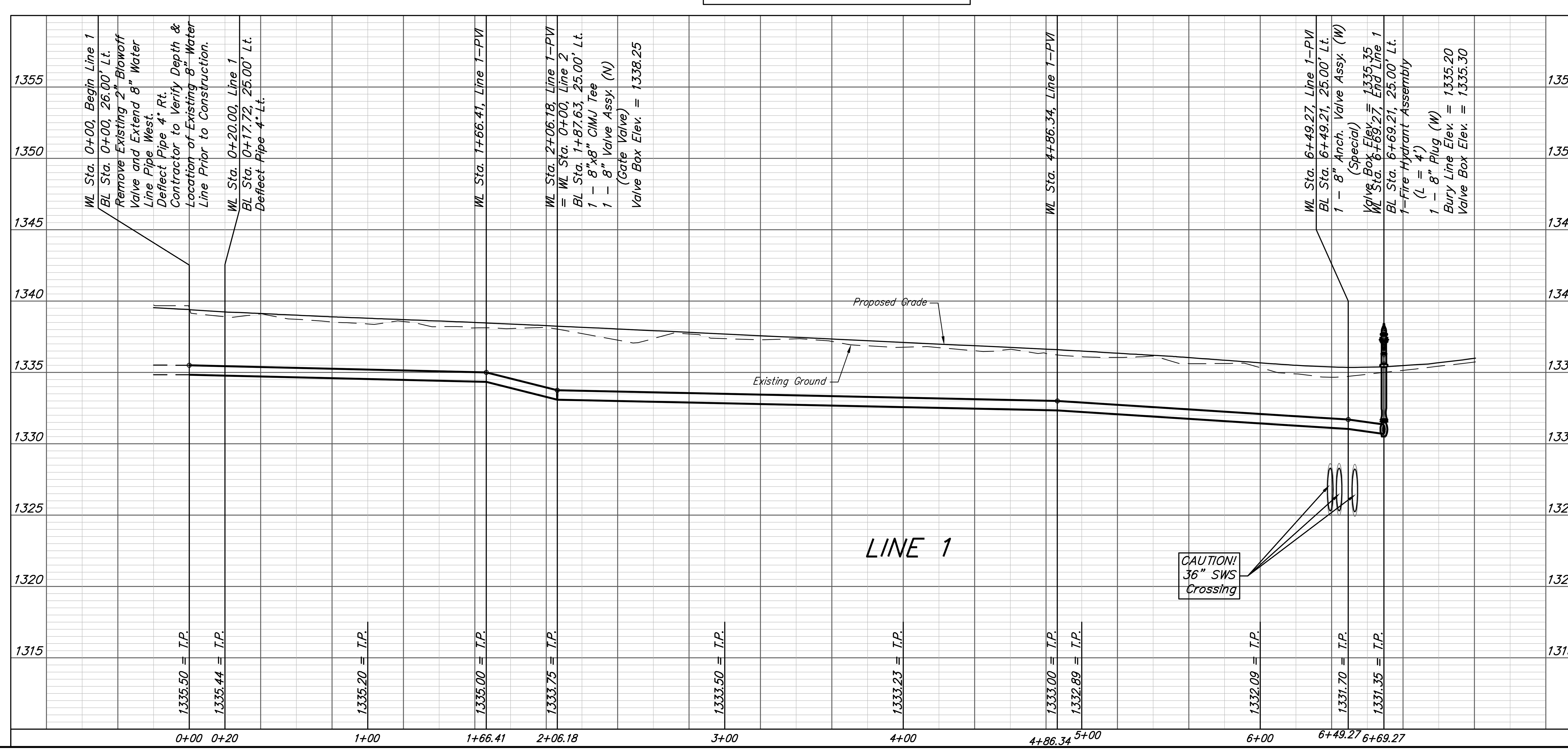
Existing trees shall be removed by the Contractor only as ABSOLUTELY necessary for construction. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost to be included in bid item "Site Clearing"

Curve #1
Curve Data Based on Centerline of Pipe

Rad. = 225' Delta = 37°17'02" Tangent = 75.90'				
Arc = 146.41' L.C. = 143.84' Def./Ft. = 7.63962 Min.				
Station	Arc	Chord 8' Left	Defl.	Total Defl.
0+20.00	–	–	0°00'00"	0°00'00"
0+25.00	5.00'	5.18'	0°38'12"	0°38'12"
0+50.00	25.00'	25.88'	3°10'59"	3°49'11"
0+75.00	25.00'	25.88'	3°11'00"	7°00'11"
1+00.00	25.00'	25.88'	3°10'59"	10°11'10"
1+25.00	25.00'	25.88'	3°11'00"	13°22'10"
1+50.00	25.00'	25.88'	3°10'59"	16°33'09"
1+66.41	16.41'	16.99'	2°05'22"	18°38'31"

Curve #2
Curve Data Based on Centerline of Pipe

Rad. = 175' Delta = 42°21'39" Tangent = 67.81'				
Arc = 129.38' L.C. = 126.46' Def./Ft. = 9.82242 Min.				
Station	Arc	Chord 8' Left	Defl.	Total Defl.
4+86.34	–	–	0°00'00"	0°00'00"
5+00.00	13.66'	13.03'	2°14'10"	2°14'10"
5+25.00	25.00'	23.84'	4°05'34"	6°19'44"
5+50.00	25.00'	23.84'	4°05'34"	10°25'18"
5+75.00	25.00'	23.84'	4°05'33"	14°30'51"
6+00.00	25.00'	23.84'	4°05'34"	18°36'25"
6+15.72	15.72'	15.00'	2°34'24"	21°10'49"



Baughman

Northgate Addition - Phase 2A
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 448-90243	DESIGN DMV	DRAWN JAK
REVISIONS:	APPROVED	DATE 8/20/18
	SCALE Noted	
	SHEET 4 OF 13	

DENISE M. VAUGHN LICENSED 15176 8-28-18 KANSAS PROFESSIONAL ENGINEER

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