GENERAL NOTES:

1. *The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.*

   a. Maintain a minimum of 10–foot horizontal separation between all water lines (mains, services, and fire hydrants) and all sanitary sewer lines (mains, services, and manholes). All separation distances are to be measured from edge–to–edge, at the closest point.

   b. Maintain a minimum of 2–foot vertical separation between all water lines (mains and services) and all gravity sanitary sewer lines (mains, services, and manholes) at crossings. All separation distances are to be measured from edge–to–edge, at the closest point.

   c. Maintain a minimum of 2–foot vertical separation between all water lines (mains and services) and all pressurized sanitary sewer lines (force mains and services) at crossings. Waterlines must always be placed above pressurized sanitary sewer lines where they cross. All separation distances are to be measured from edge–to–edge, at the closest point.

2. *Contractor will be required to provide notice companies a minimum of seventy–two (72) to any excavation, as follows:*

   Kansas One–Call 6

   The Contractor must notify the following in c emergency:

AT&T	*1–800–*
Black Hills Energy	*1–800–*
City of Wichita Water & Sewer	*1–316–*
City of Wichita Stormwater	*1–316–*
City of Wichita Traffic	*1–316–*
Cox Communications	*1–888–*
Kansas Gas Service	*1–888–*
Evergy	*1–800–*

3. *Utility service lines, poles, etc. are to be adj necessary by others prior to construction un plans specifically call for their adjustment by Contractor or unless the plans specifically id utility to be adjusted by its owner during co Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right–of–way which do not conflict with proposed construction.*

4. *Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.*

5. *Trees and shrubs in public right–of–way which are in direct conflict with proposed new construction shall be removed by the Contractor with the City Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.*

6. *The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.*

7. *The Contractor shall be responsible for preserving property irons. The Contractor will be required to re–establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re–established by a licensed land surveyor in accordance with state laws*

8. *All elevations shown are NAVD88.*

9. *All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions per City specifications.*

10. *Opening and closing of water valves shall be done slowly to prevent damage to the water distribution system from water hammer. All valves closed by the contractor must be reopened as new construction permits. The project inspector must ascertain that any valve closed by the Contractor is reopened. The contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.*

11. *The Contractor shall lay a Tracer Wire and Set Test Stations along all water pipe installed in accordance with City Specifications and Tracer Wire Detail on detail sheet WL–101, cost is subsidiary to pipe installation.*

12. *The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractor's expense.*

13. *Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.*

Company: City of Wichita			Contractor: Mies
Inspector: Andres Bailon			Superintendent: Dallas Mies
Item	Type	Manufacturer	Quantity
8" Water Line	C900		1277
8" Water Line	DICL		5
8" Valve	Gate	EJ	1
Fire Hydrant		CLOW	2
6" Valve	Gate	EJ	2

shall be included in the L.S. bid item "Seeding".

17. *The developer for this project is 21 Management, LLC, Nicholas A. Cowgill, Manager. (316)684–0161 Nick.cowgill@nieshomes.com*

18. *Construction shall be coordinated between the storm sewer, sanitary sewer, and water improvements.*

Benchmarks

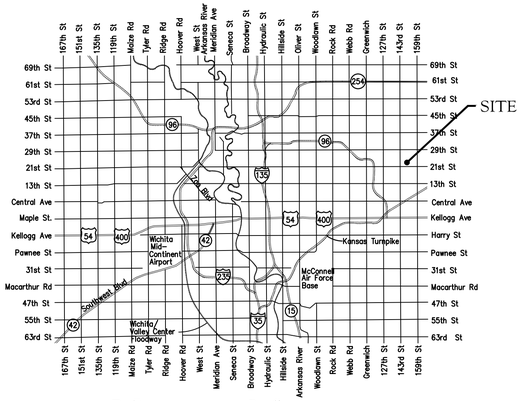
BM #1: "□" on east side of Sandpiper in Res. "F", NRD Addition.
Elev. = 1376.53 NDAVD88

BM #2: "□" on top of curb, north of the NW corner of Lot 1, Block A, NRD Addition.
Elev. = 1363.86 NAVD88

BM #3: "□" on SE corner of curb inlet, east side of Peppertree Cir., NRD Addition.
Elev. = 1362.56 NAVD88

WATER DISTRIBUTION SYSTEM
to serve
NRD ADDITION - Ph. 2B
CITY OF WICHITA, KANSAS

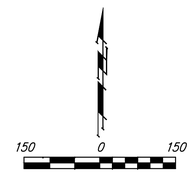
Paul Gunzelman, P.E. City Engineer
Project Number 448-2020-025959
Org Code 47125524
Munis Number E4130

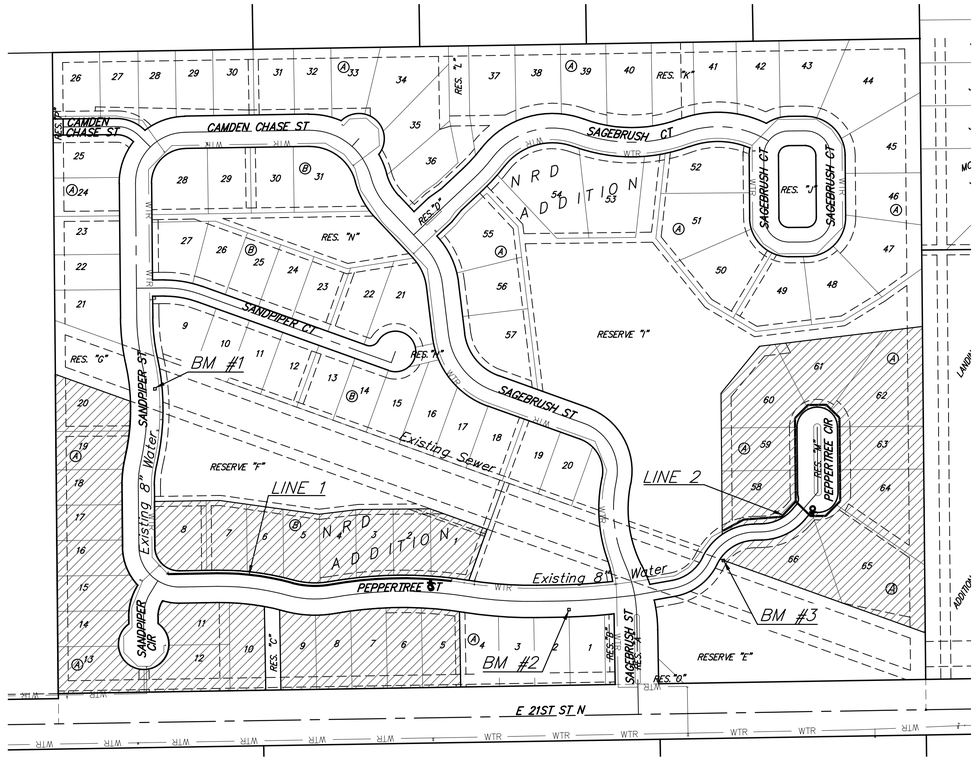


Vicinity Map

Sheet Index

Title Sheet	*1*
Line 1	*2*
Line 2	*3*
Erosion Control Plan	*4*
Std. Water Assembly Detail	*5*
Miscellaneous Water Details	*6*
Erosion Control BMP Details	*7–11*
Coordinate Sheet	*12*
Copy of Plat	*13*





Benefit District



January 13, 2025

BAUGHMAN COMPANY
315 Ellis St. Wichita, KS 67211 316-262-7271
BaughmanCo.com

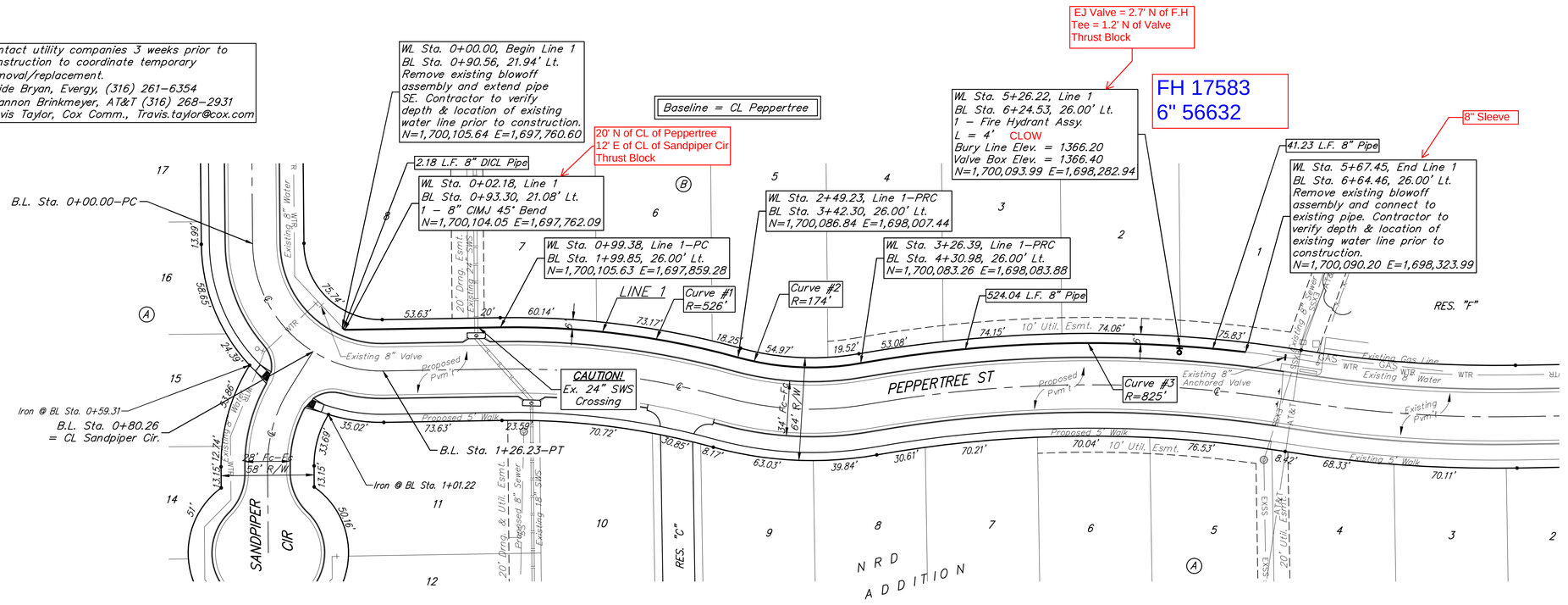
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Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement.
Heide Bryan, Evergy, (316) 261-6354
Shannon Brinkmeyer, AT&T (316) 268-2931
Travis Taylor, Cox Comm., Travis.taylor@cox.com



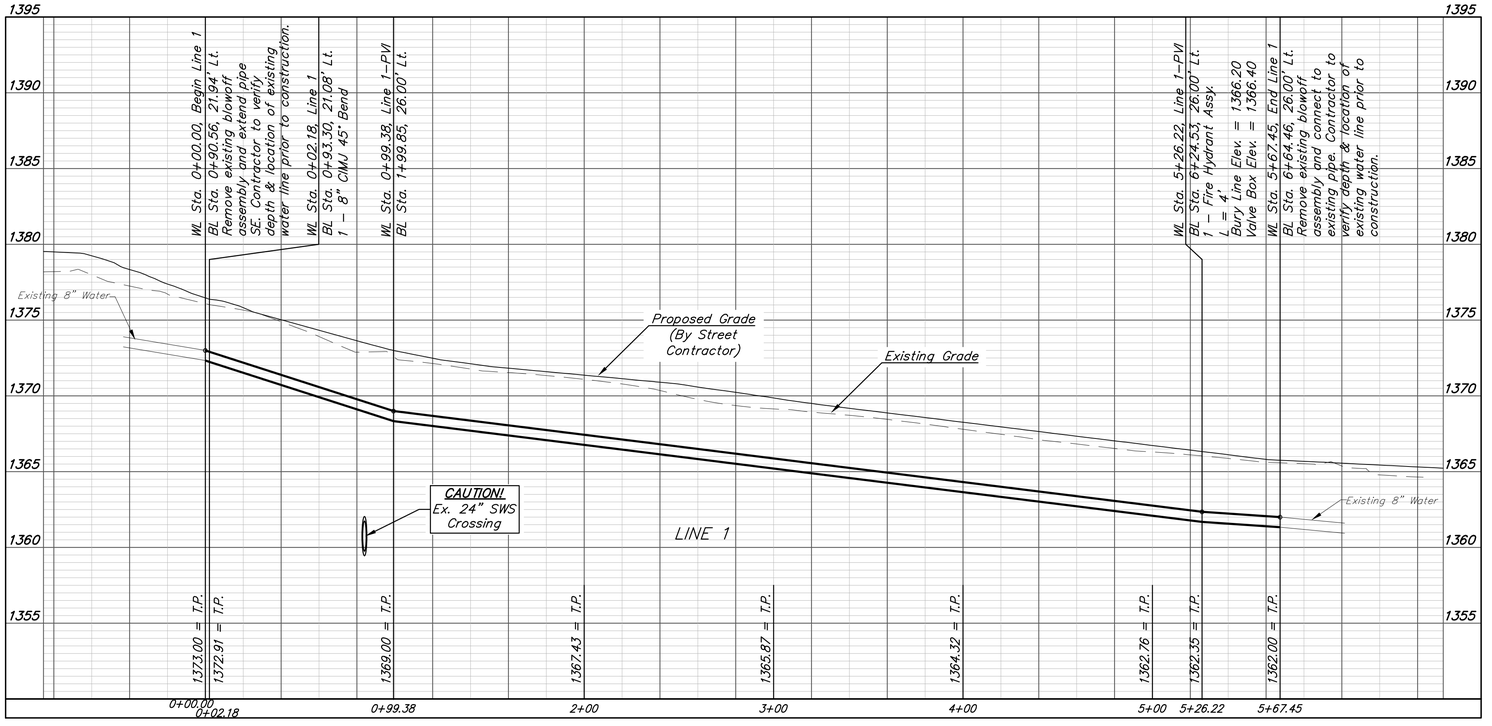
Pipe layout is shown to be circular for radii under 200'. Contractor may use short pipe lengths, high deflection couplers, and manufacturer recommended pipe deflections and pipe bending to meet planned alignment.

Pipe layout is shown with horizontal and vertical deflections. Contractor to use short pipe lengths, high deflection couplers, and manufacturer recommended pipe deflections to meet planned alignment.

Curve #1				
Curve Data Based on Waterline				
Rad. = 526' Delta = 16°19'24" Tangent = 75.44'				
Arc = 149.85' L.C. = 149.35' Def./Ft. = 3.26793 Min.				
		Chord Lengths		
Station	Arc	8' Left	Defl.	Total Defl.
1+21.38	-	-	0°00'00"	0°00'00"
1+25.00	3.62'	3.68'	0°11'50"	0°11'50"
1+50.00	25.00'	25.38'	1°21'42"	1°33'32"
1+75.00	25.00'	25.38'	1°21'42"	2°55'14"
2+00.00	25.00'	25.38'	1°21'42"	4°16'56"
2+25.00	25.00'	25.38'	1°21'41"	5°38'37"
2+50.00	25.00'	25.38'	1°21'42"	7°00'19"
2+71.23	21.23'	21.55'	1°09'23"	8°09'42"

Curve #2				
Curve Data Based on Waterline				
Rad. = 174' Delta = 25°24'18" Tangent = 39.22'				
Arc = 77.16' L.C. = 76.52' Def./Ft. = 9.87753 Min.				
		Chord Lengths		
Station	Arc	8' Left	Defl.	Total Defl.
2+71.23	-	-	0°00'00"	0°00'00"
2+75.00	3.77'	3.60'	0°37'14"	0°37'14"
3+00.00	25.00'	23.83'	4°06'57"	4°44'11"
3+25.00	25.00'	23.83'	4°06'56"	8°51'07"
3+48.39	23.39'	22.30'	3°51'02"	12°42'09"

Curve #3				
Curve Data Based on Waterline				
Rad. = 825' Delta = 16°43'18" Tangent = 121.25'				
Arc = 241.06' L.C. = 239.92' Def./Ft. = 2.08102 Min.				
		Chord Lengths		
Station	Arc	8' Left	Defl.	Total Defl.
3+48.39	-	-	0°00'00"	0°00'00"
3+50.00	1.61'	1.62'	0°03'21"	0°03'21"
3+75.00	25.00'	25.21'	0°52'02"	0°55'23"
4+00.00	25.00'	25.21'	0°52'01"	1°47'24"
4+25.00	25.00'	25.21'	0°52'02"	2°39'26"
4+50.00	25.00'	25.21'	0°52'01"	3°31'27"
4+75.00	25.00'	25.21'	0°52'02"	4°23'29"
5+00.00	25.00'	25.21'	0°52'01"	5°15'30"
5+25.00	25.00'	25.21'	0°52'02"	6°07'32"
5+48.22	23.22'	23.42'	0°48'19"	6°55'51"
5+50.00	1.78'	1.80'	0°03'42"	6°59'33"
5+75.00	25.00'	25.21'	0°52'02"	7°51'35"
5+89.45	14.45'	14.57'	0°30'04"	8°21'39"



BRENT WOOTEN LICENSED 8470 01/27/2025 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
316-262-7271
BaughmanCo.com

NRD ADDITION
Phase 2B

LINE 1

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:
22-01-E110

DESIGN: NBW DRAWN: TMS

DATE: January 24, 2025

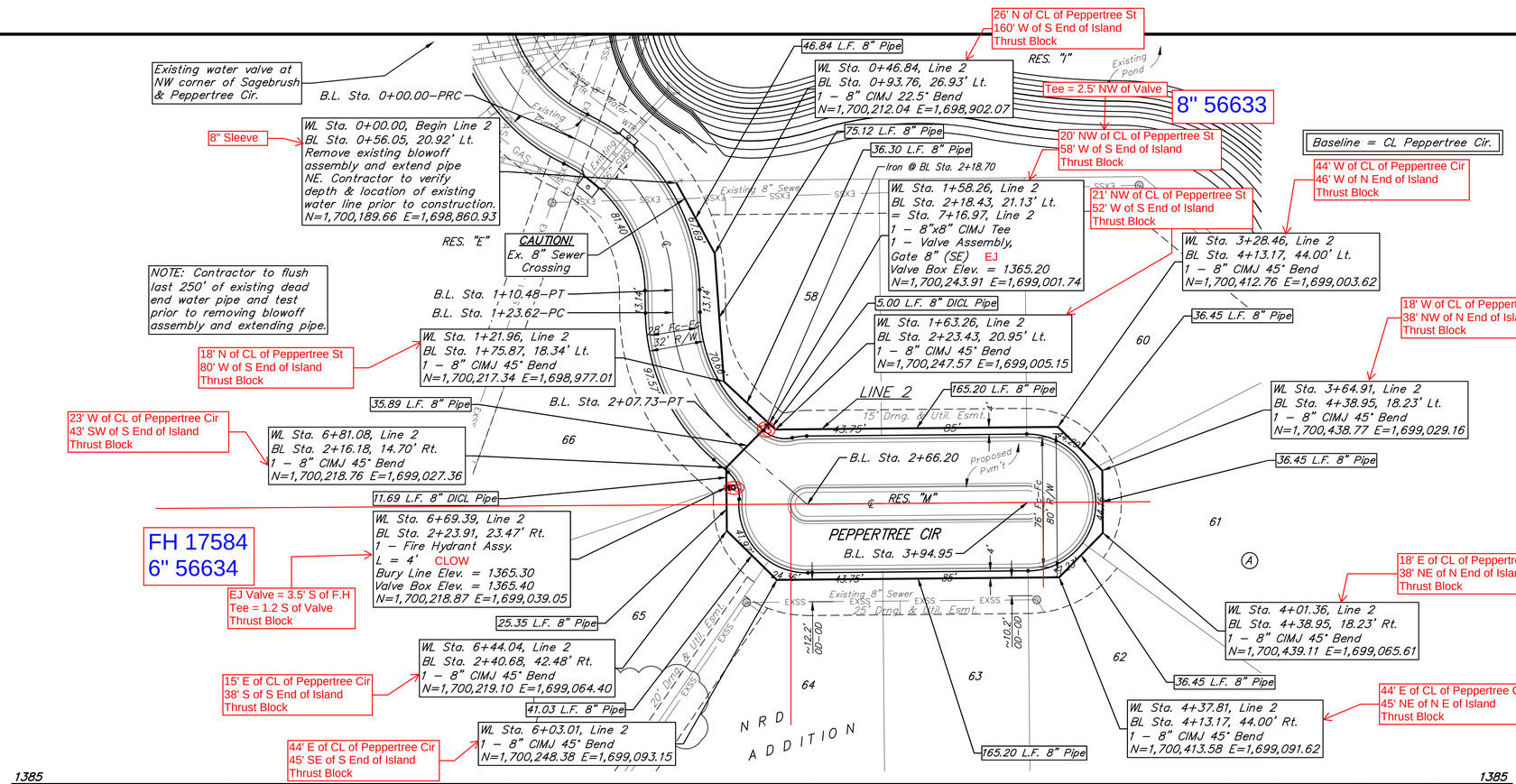
SHEET 2 OF 13

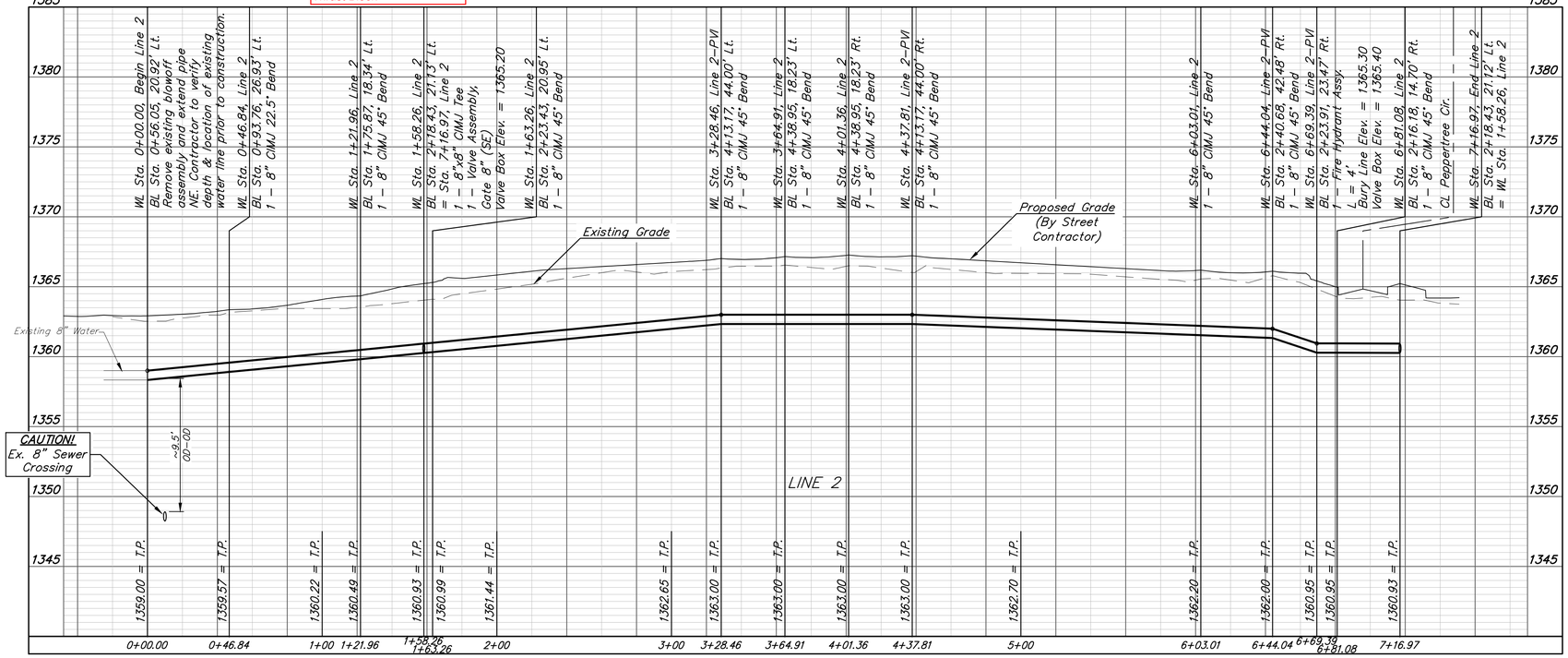
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315 Ellis St.
Wichita, KS 67211
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NRD ADDITION
Phase 2B

LINE 2

WATER DISTRIBUTION SYSTEM

PROJECT NUMBER:
22-01-E110

DESIGN: NBW DRAWN: TMS

DATE: January 24, 2025

SHEET 3 OF 13

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