

GENERAL NOTES:

1. Contractor will be required to provide notice to utility companies a minimum of seventy-two (72) hours prior to any excavation, as follows:

Kansas One-Call 687-2470

The Contractor must notify the following in case of an emergency:

- Cox Communications 262-4270
- Kansas Gas Service 1-888-482-4950
- Westar Energy 383-8650
- Aquila Energy 1-800-303-0357
- AT&T 268-2245
- City of Wichita Water Dept. 268-4563
- City of Wichita Sewer Maint. 268-4024
- City of Wichita Storm Sewer Maint. 268-4090
- City of Wichita Traffic Maint. 268-4034
- Conoco Phillips Pipeline Co. 1-877-267-2290
- Southern Star Pipeline Co. 529-6600
- Kinder-Morgan Pipeline Co. 1-888-844-5658

2. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. 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.

3. 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 would 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 would require additional archaeological investigations unless buried in a previously approved borrow location.

4. 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 Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

5. 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.

6. 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.

7. All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, inlet barriers, and const. entrance shall be maintained throughout construction by the contractor and until project is accepted by the City of Wichita. The on-site engineer shall complete weekly reports on the status of erosion control measures. The contractor shall be required to comply with maintenance and/or replacement of erosion control measures as determined by the on-site engineer until project is accepted by City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Maintain Existing BMP's."

8. All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer.

9. All areas disturbed during construction shall be seeded as follows (Temporary Seeding):

Seed: Rye grass (PLS)--5 lbs./1000 Sq. Ft.

All costs associated with seeding shall be included in biditem "Seeding".

10. Trees and shrubs in the work area which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with the Developer or Baughman Company approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage. If trimming is necessary, a chainsaw shall be used. Breaking limbs with equipment will not be allowed. An on-site pre-construction meeting will occur prior to any construction to discuss tree removal, tree protection, and tree trimming.

Company: City of Wichita		Contractor: McCullough	
Inspector: Shawn Stripling		Superintendent: Jesus Bailon	
Item	Type	Manufacturer	Quantity
6" force main pipe	C-900 PVC		9,045 LF
6" force main pipe	DICL		20 LF
1" air release			7 EA

B. Woods - City of Wichita, Field Project Engineer
As-built
Stub
Release Date: 4/8/2020
: apr 8/17/2020

Main 27, Southwest Industrial Sewer SANITARY SEWER IMPROVEMENTS

to serve

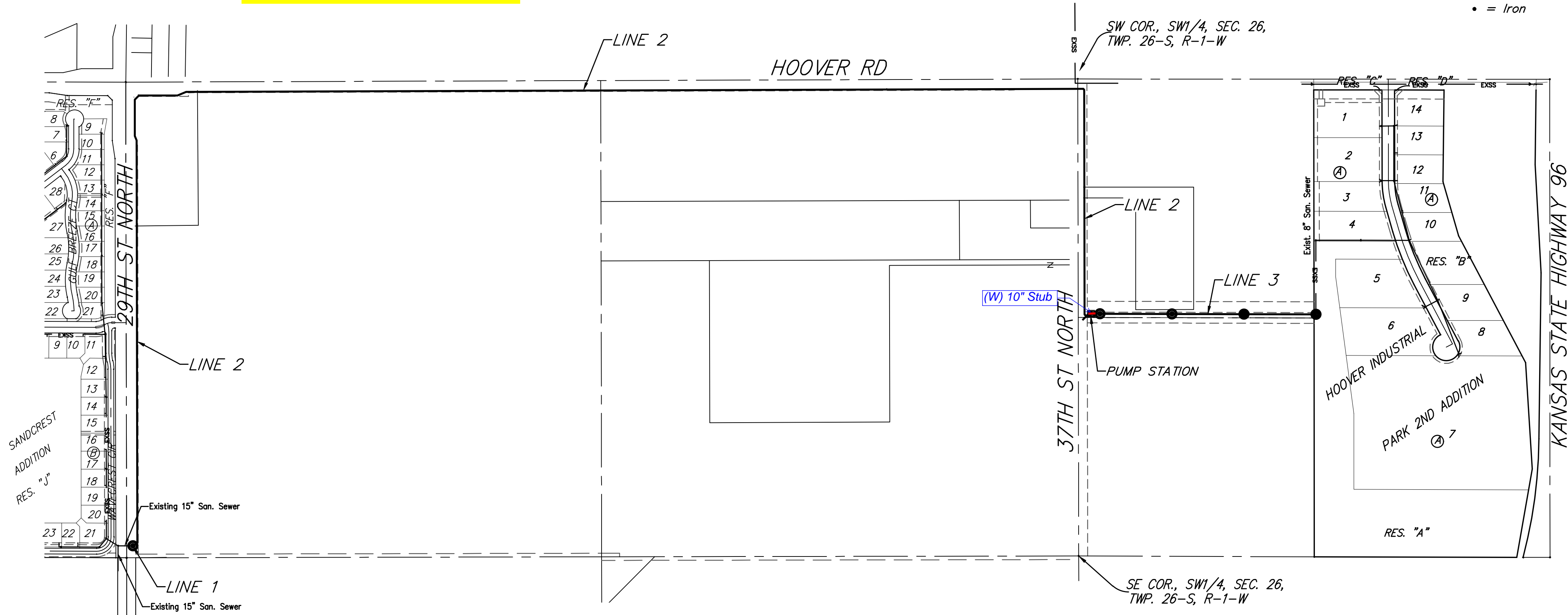
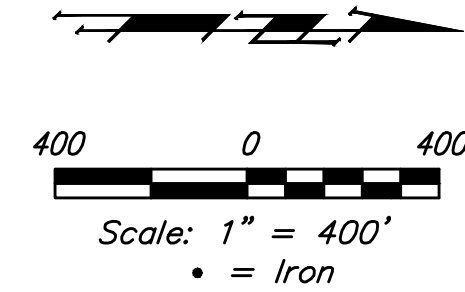
HOOVER INDUSTRIAL PARK 2ND ADDITION

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer

Project Number 468-85283

OCA Number 628301



SHEET INDEX

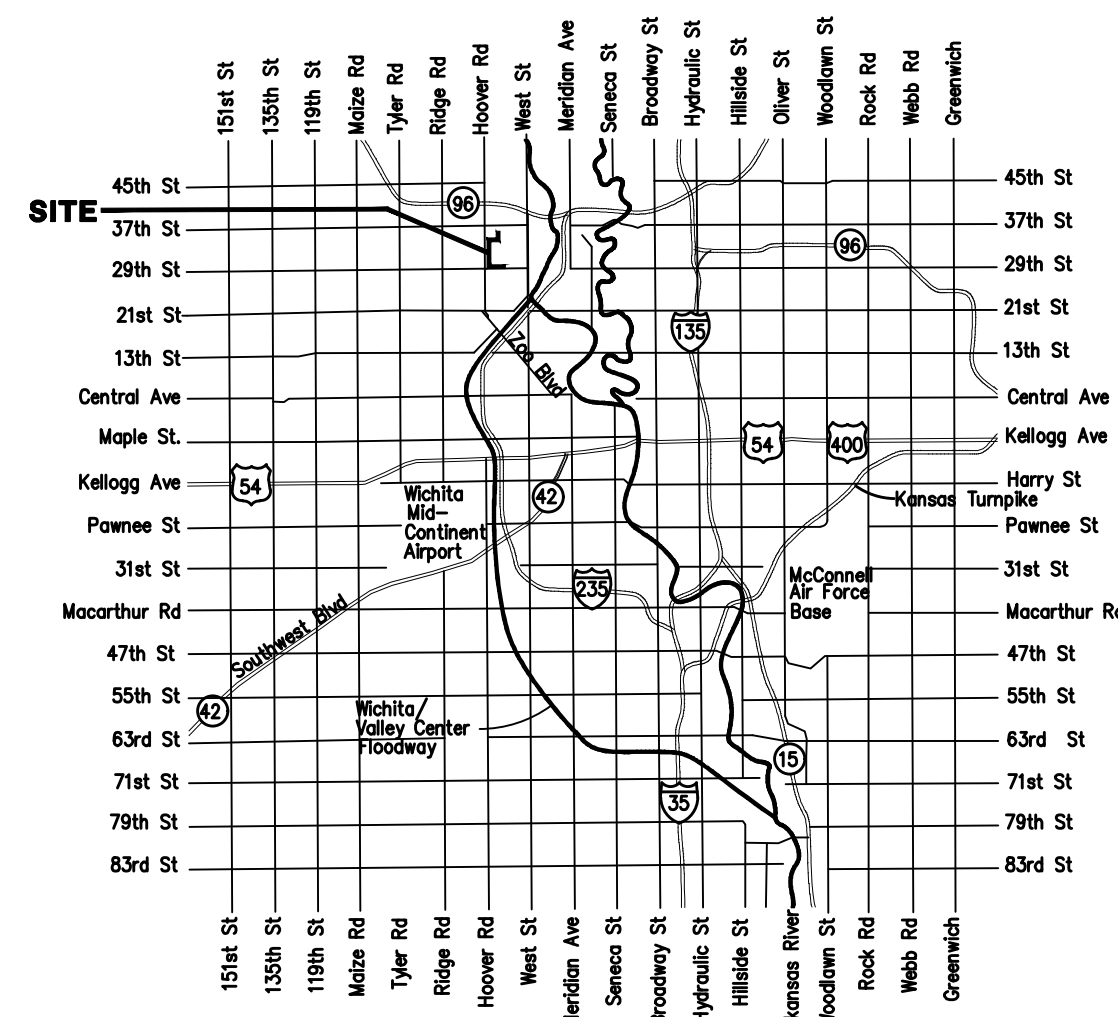
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BENCHMARKS

RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

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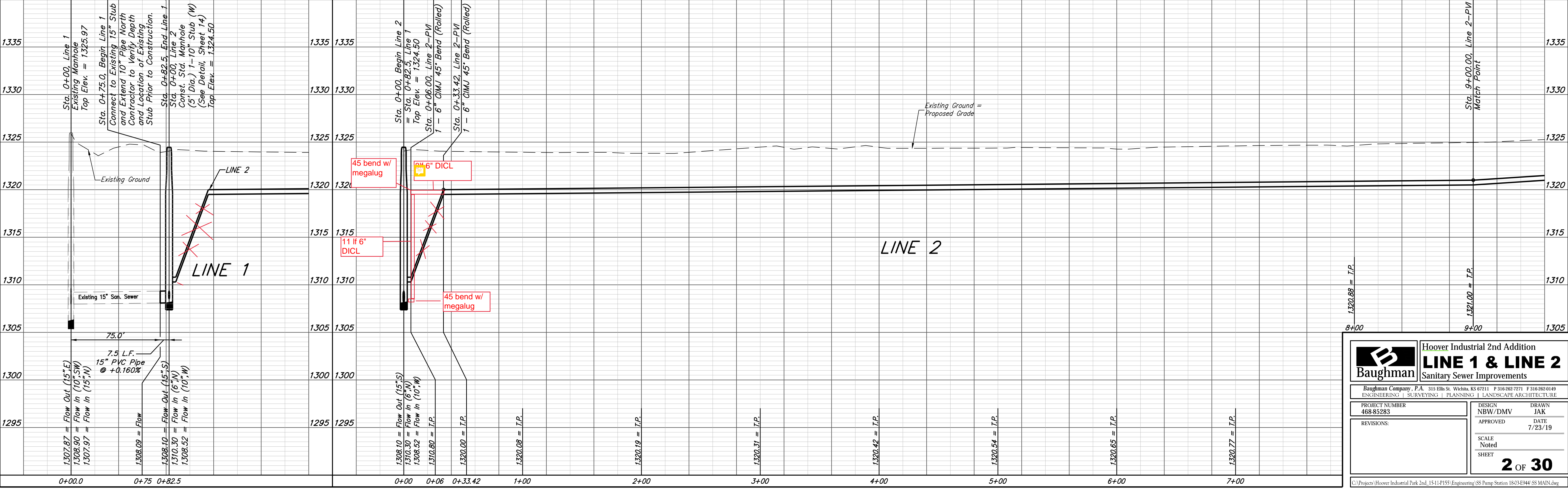
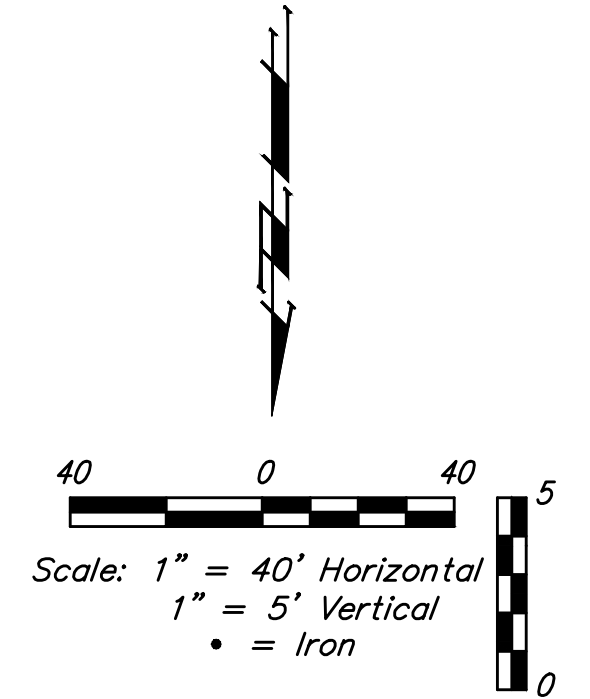
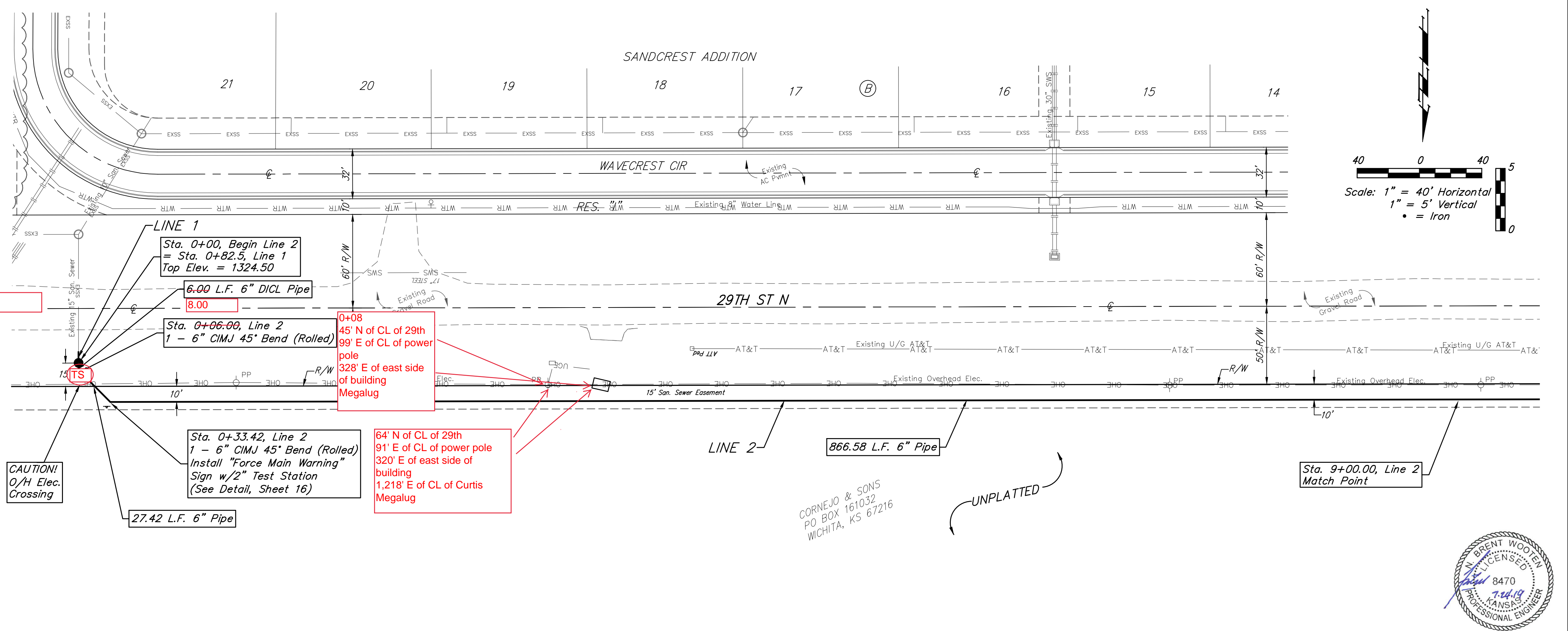
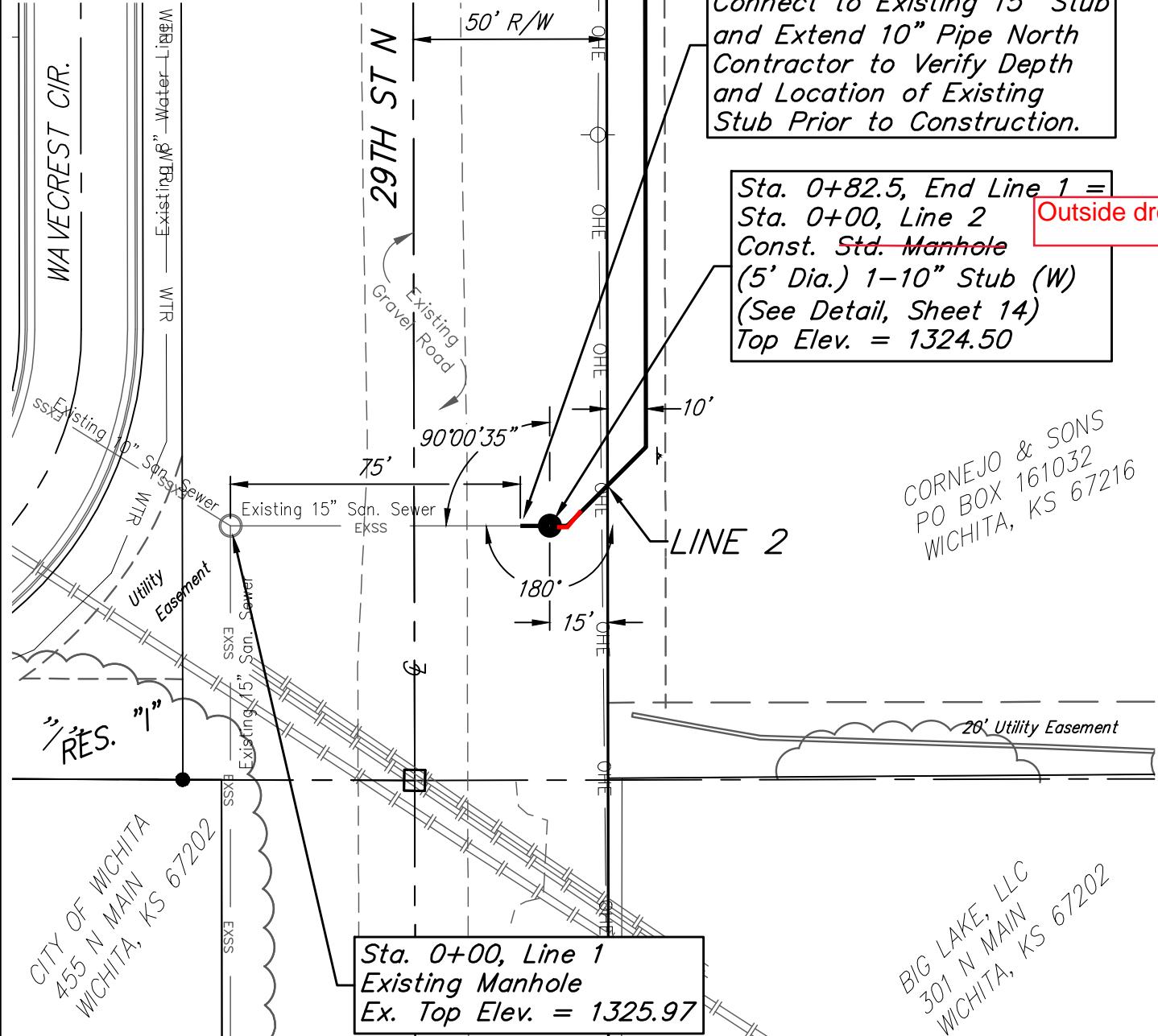


Vicinity Map



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

BENCHMARKS:
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Baughman Hoover Industrial 2nd Addition
LINE 1 & LINE 2
 Sanitary Sewer Improvements

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: 468-85283
 DESIGN: NBW/DMV
 DRAWN: JAK
 APPROVED: DATE: 7/23/19

REVISIONS:

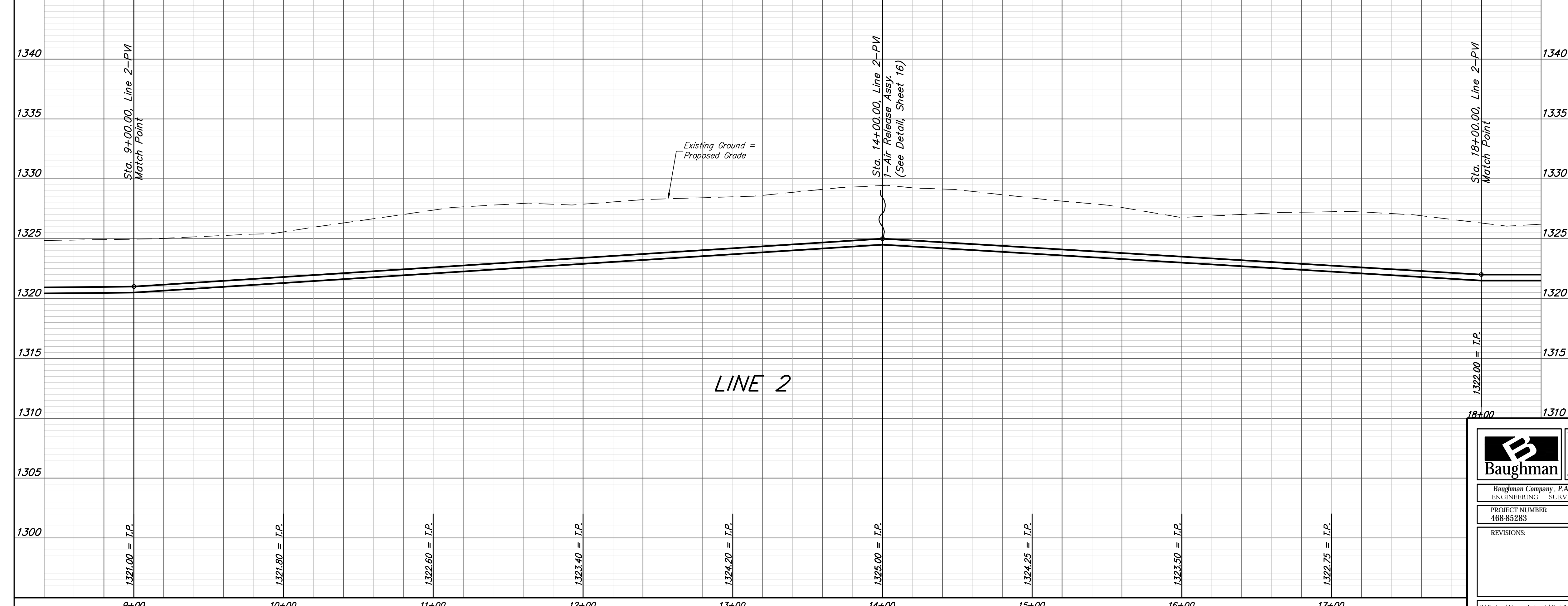
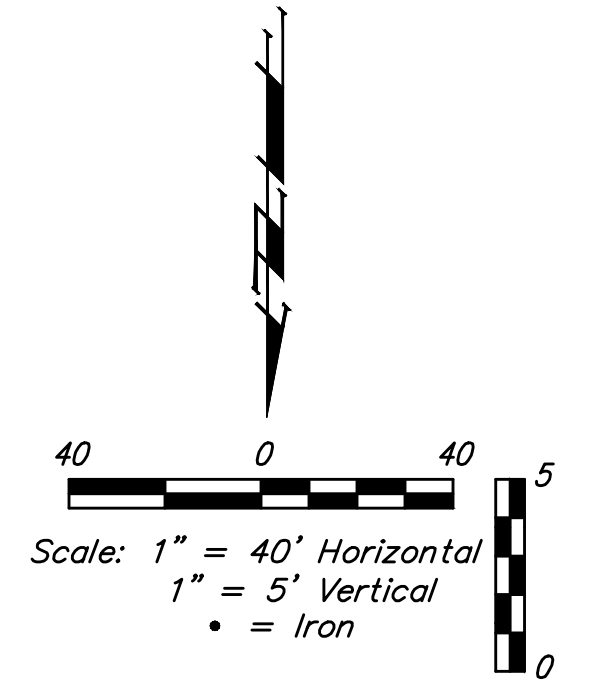
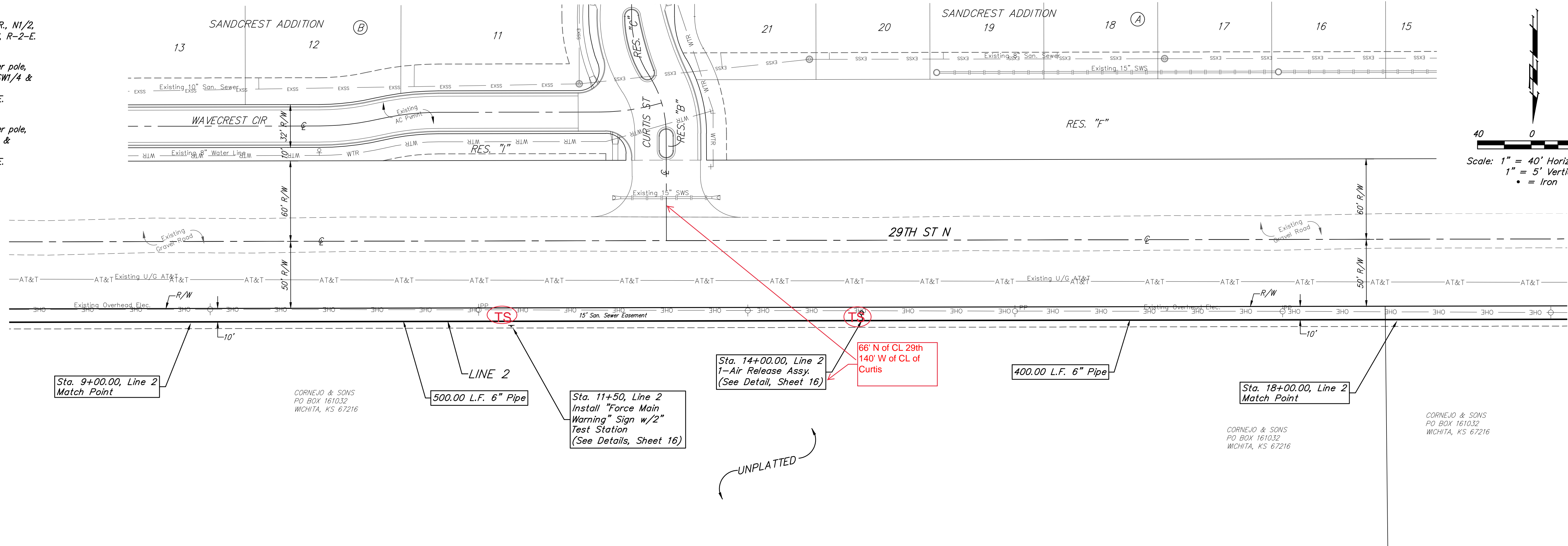
SCALE: Noted
 SHEET: **2 OF 30**

C:\Projects\Hoover Industrial Park 2nd_1511-P155-Engineering\SS Pump Station 1803-E944\SS MAIN.dwg

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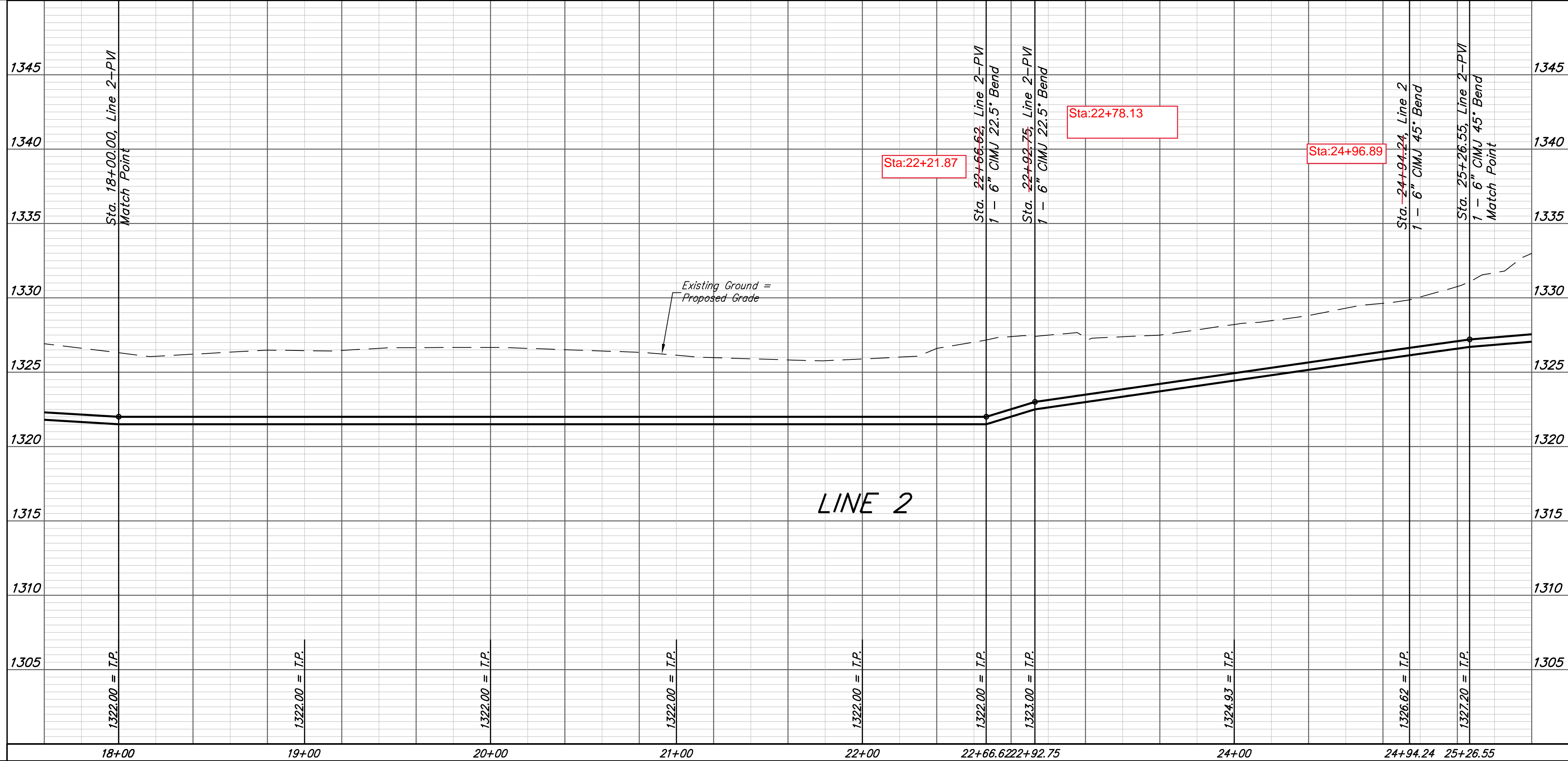
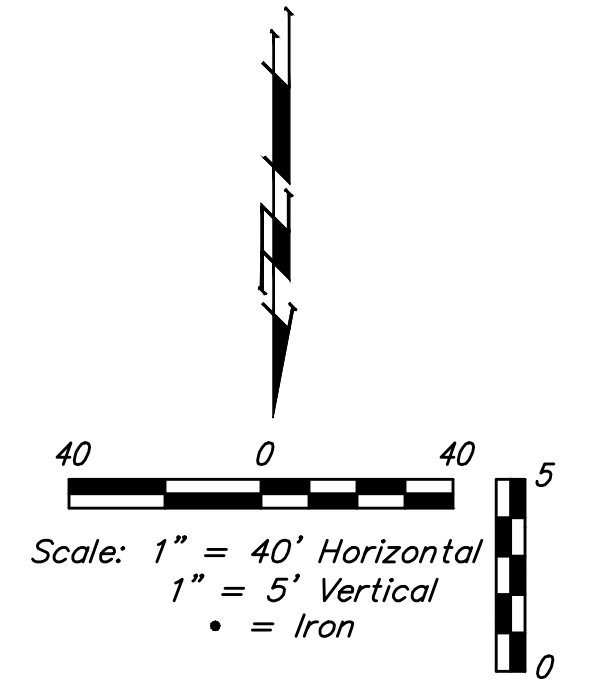
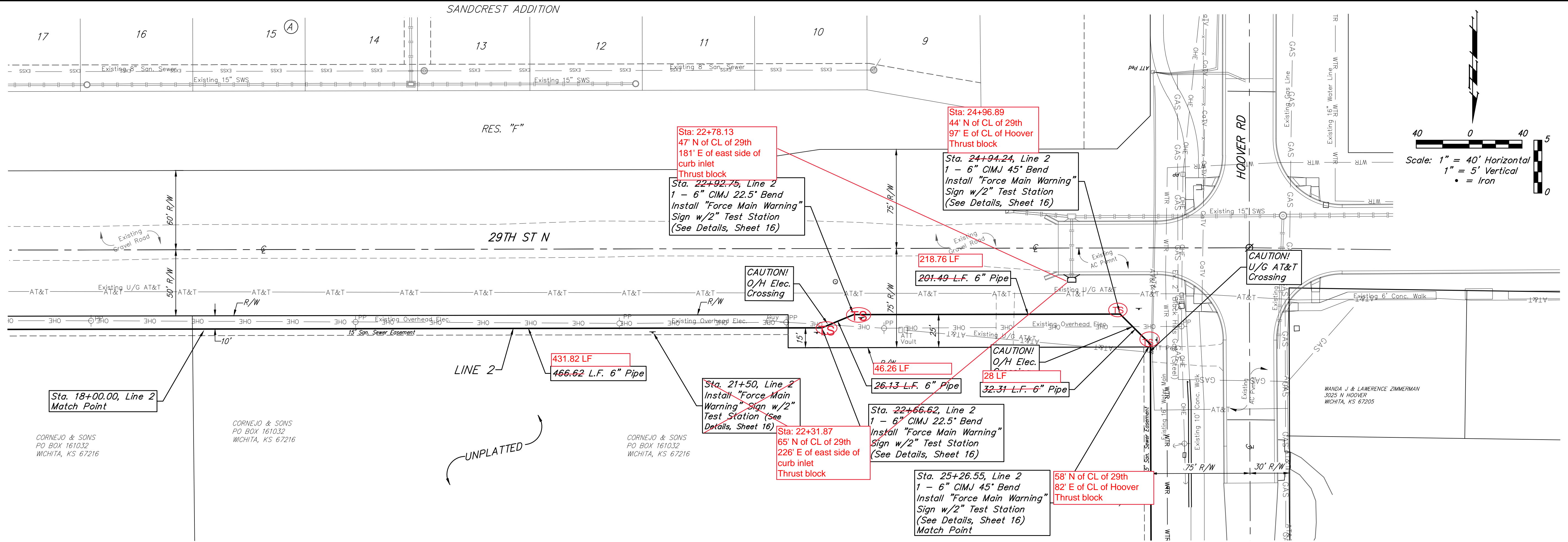
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Baughman		Hoover Industrial 2nd Addition	
		LINE 2	
		Sanitary Sewer Improvements	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK	DATE 7/23/19
REVISIONS:	SCALE Noted		
	SHEET		
3 OF 30			

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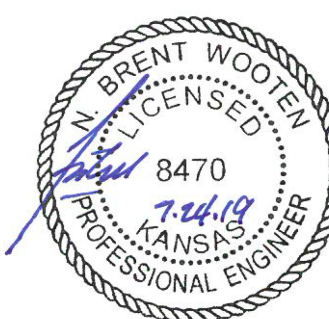
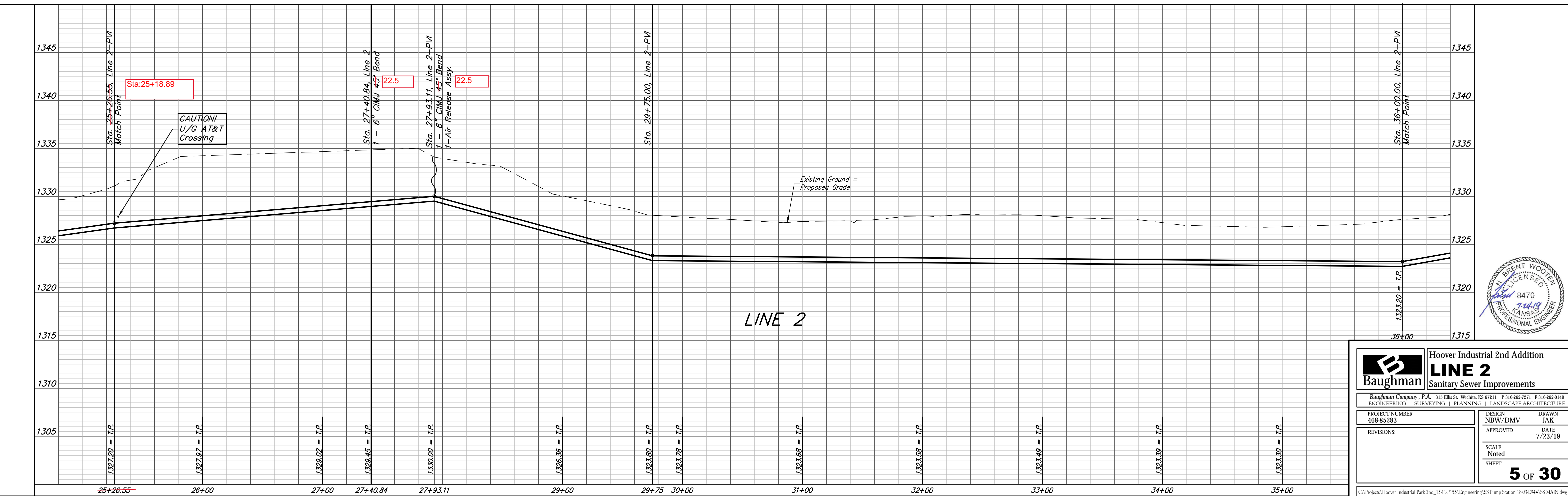
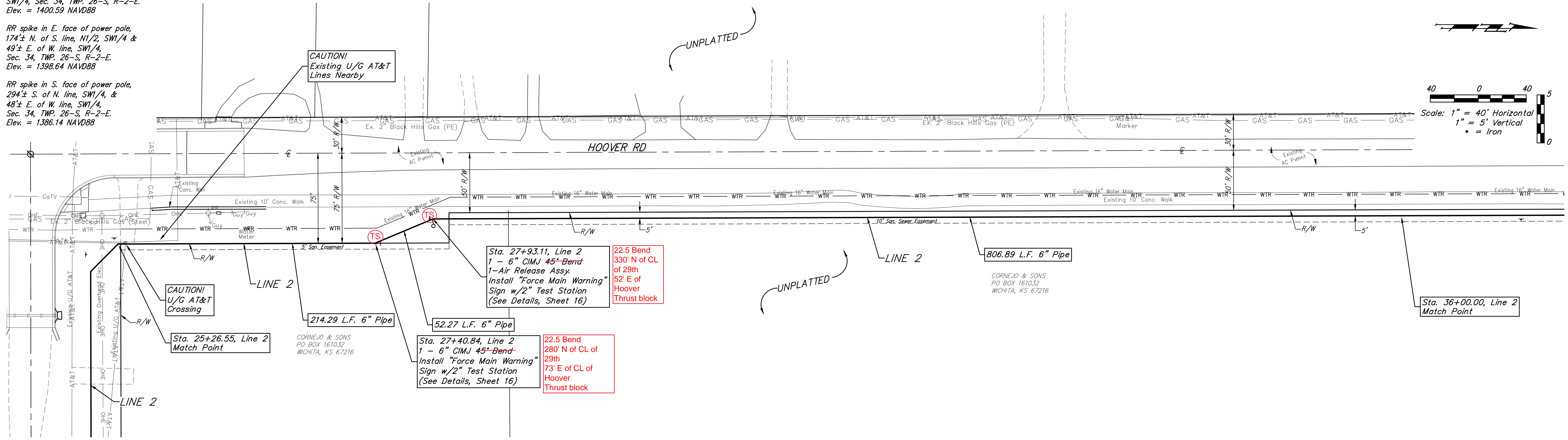


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REVISIONS:	SCALE Noted		
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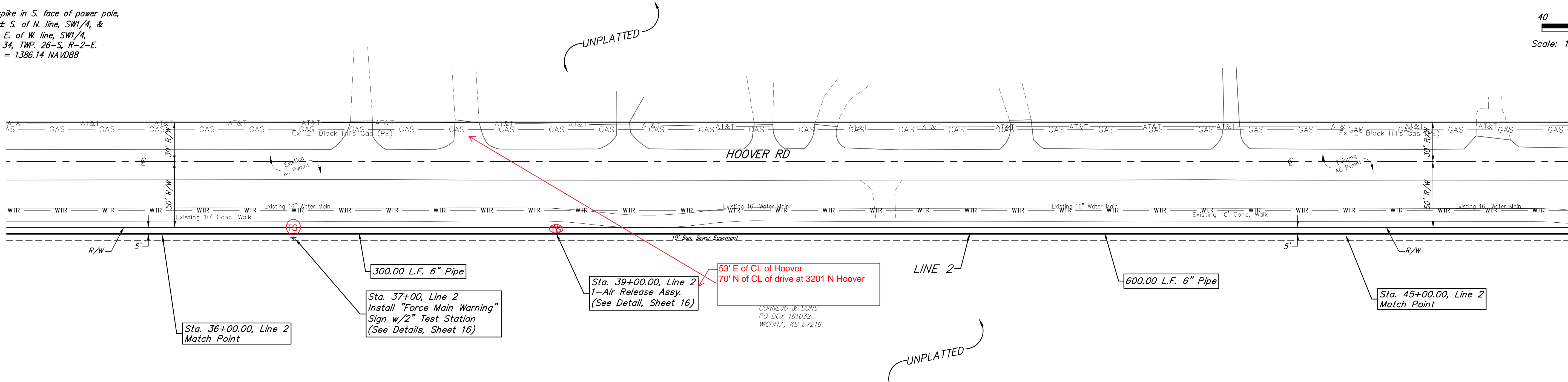
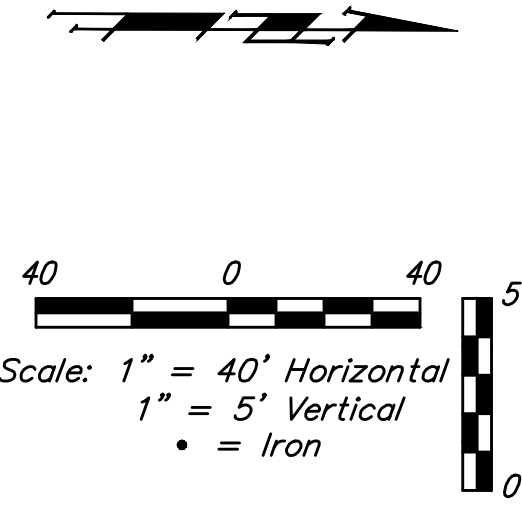


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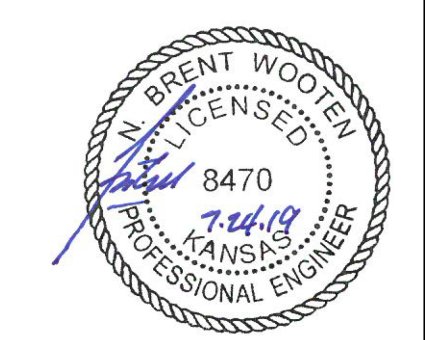
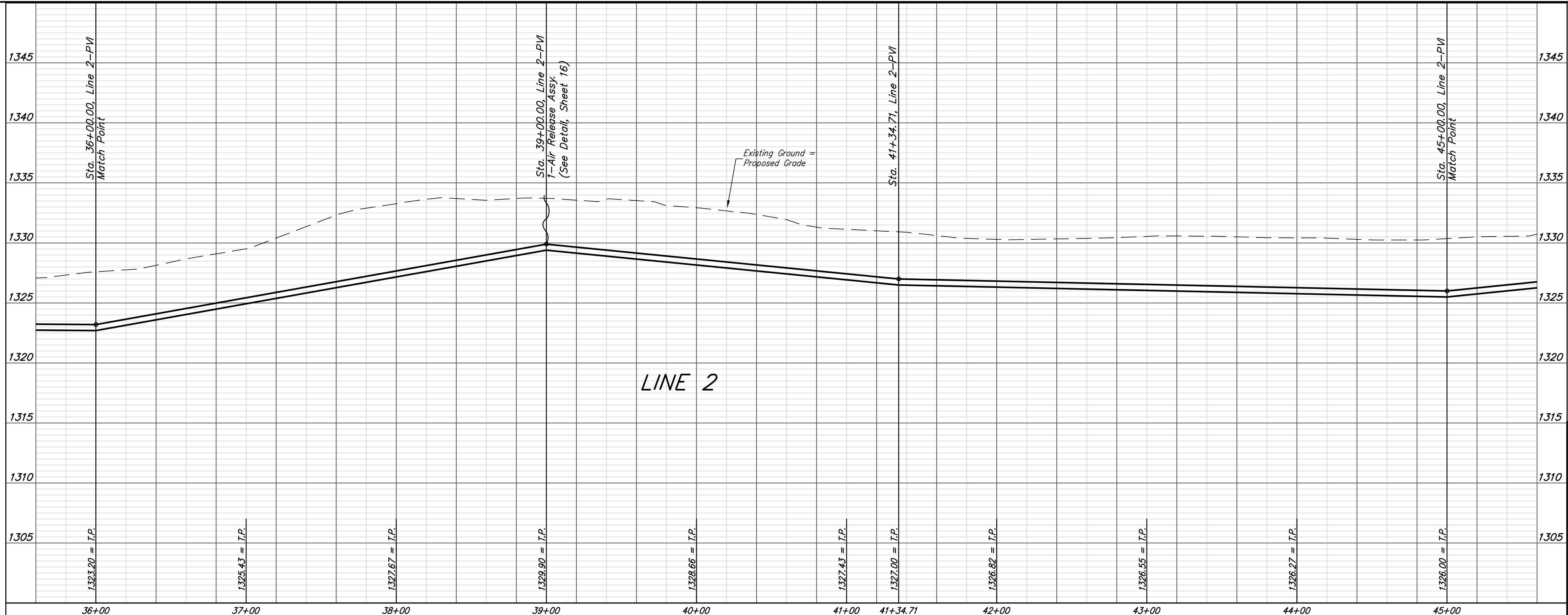
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CORNELIJO & SONS
 P.O. BOX 161032
 WICHITA, KS 67216

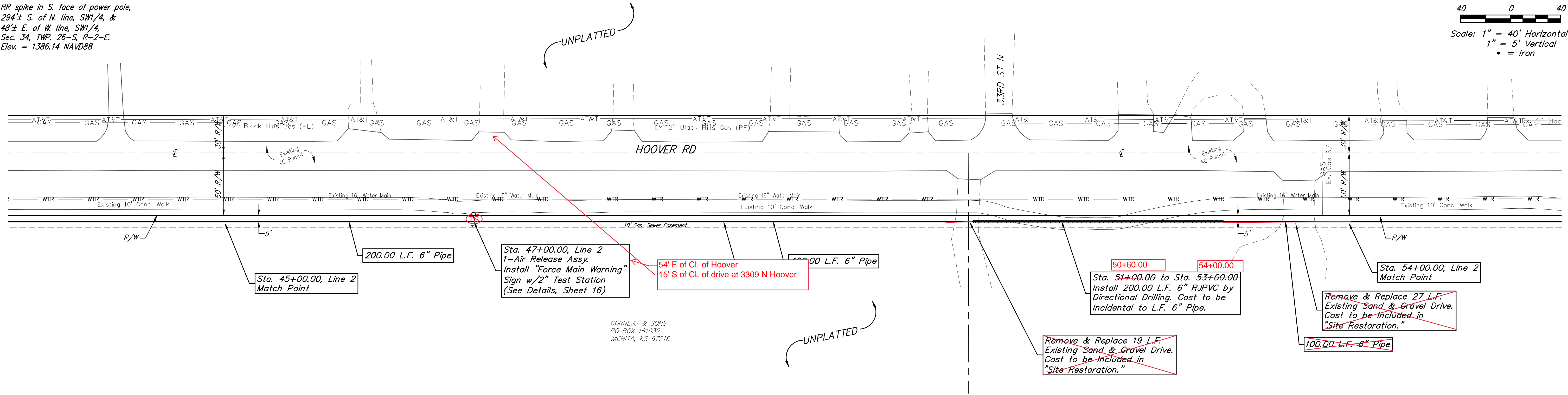
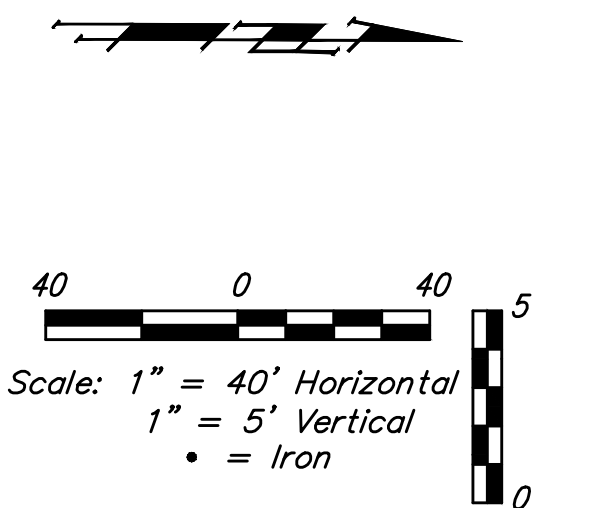


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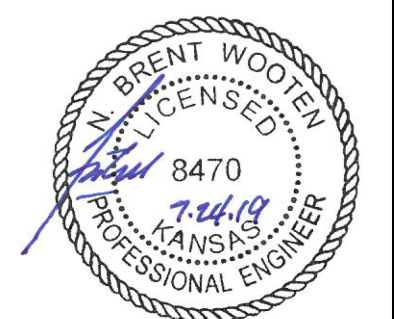
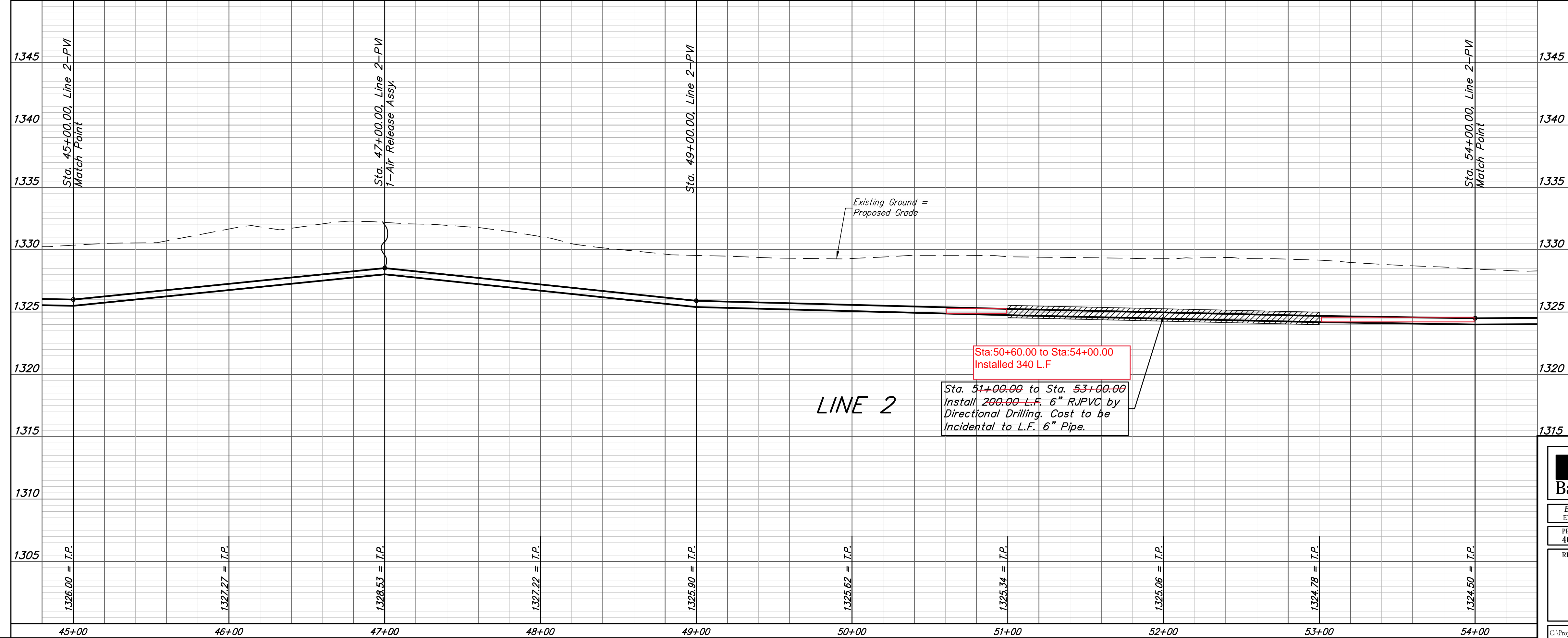
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CORNEJO & SONS
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 WICHITA, KS 67216

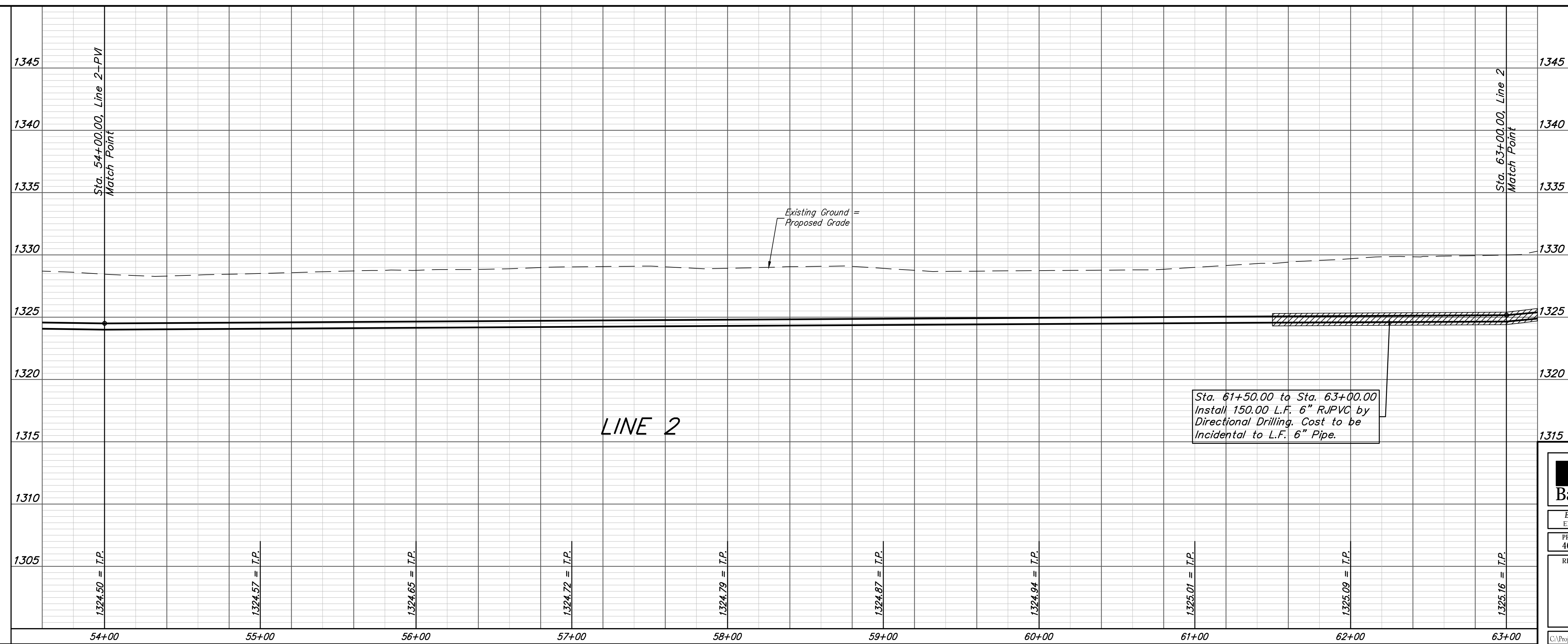
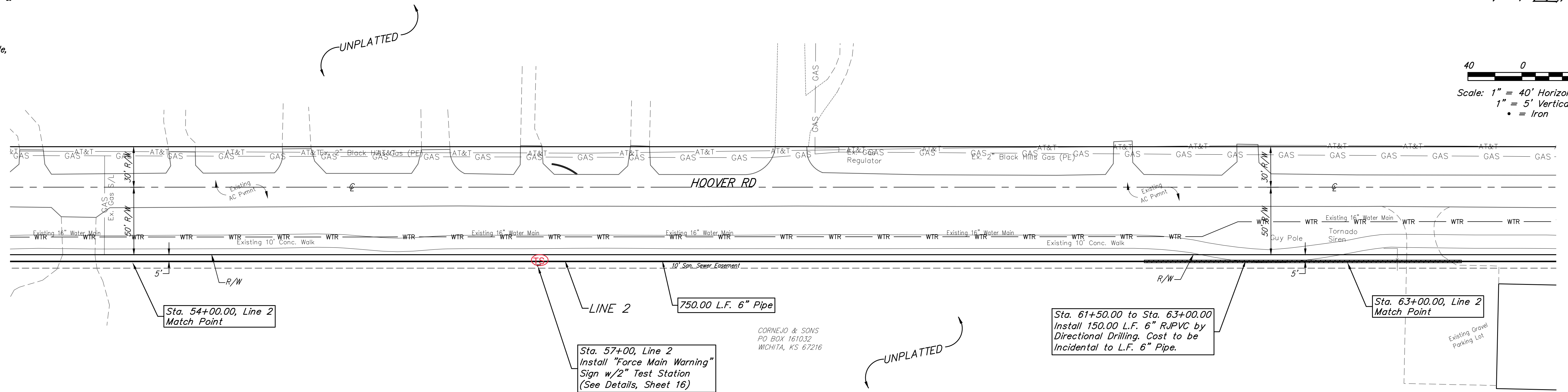
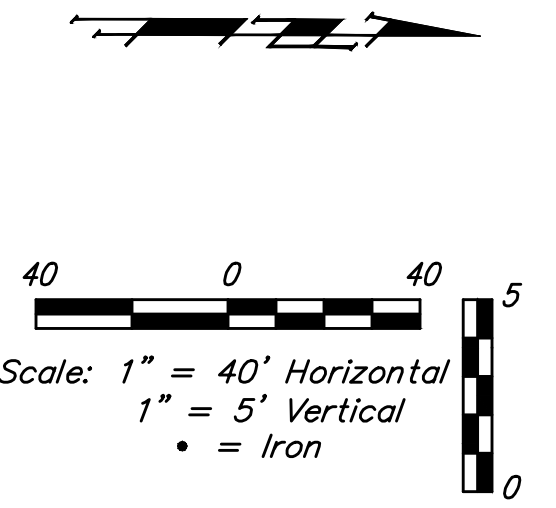


Baughman		Hoover Industrial 2nd Addition LINE 2 Sanitary Sewer Improvements	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK	DATE 7/23/19
REVISIONS:	SCALE Noted		
			SHEET 7 OF 30

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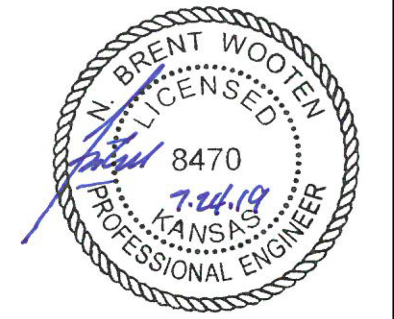
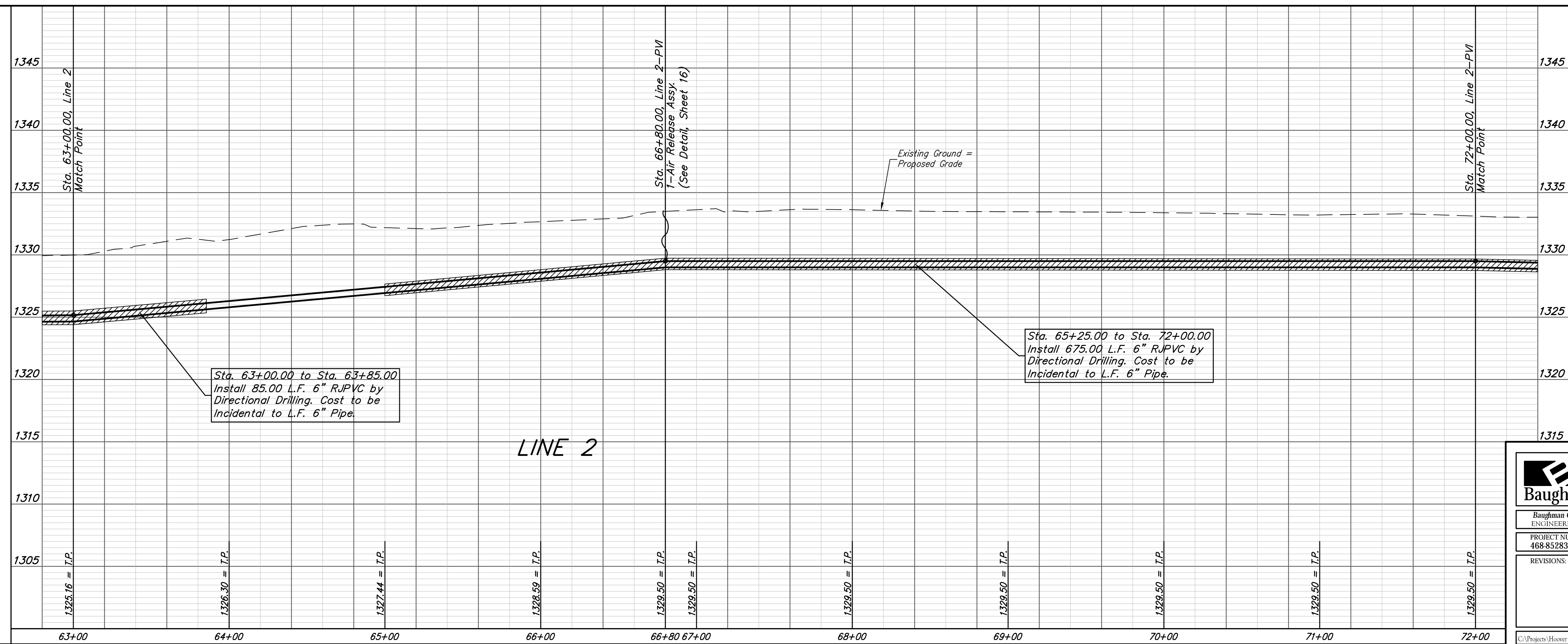
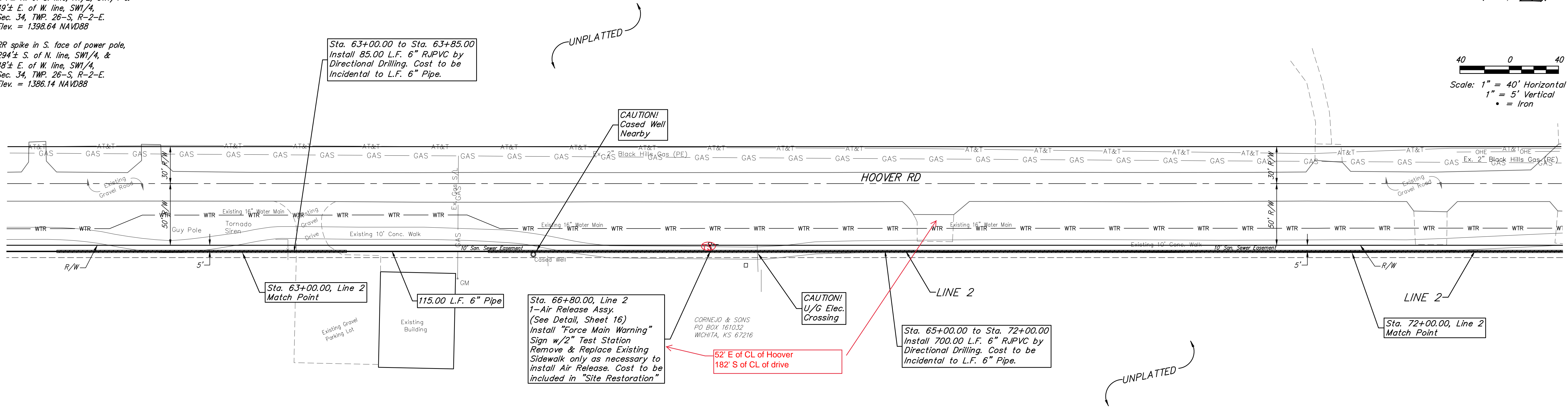
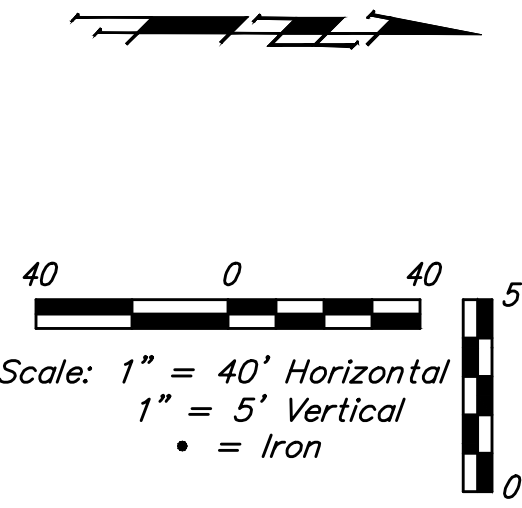


		Hoover Industrial 2nd Addition	
		LINE 2	
Sanitary Sewer Improvements		Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE	
PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK	APPROVED DATE 7/23/19
REVISIONS:	SCALE Noted SHEET		
8 OF 30			

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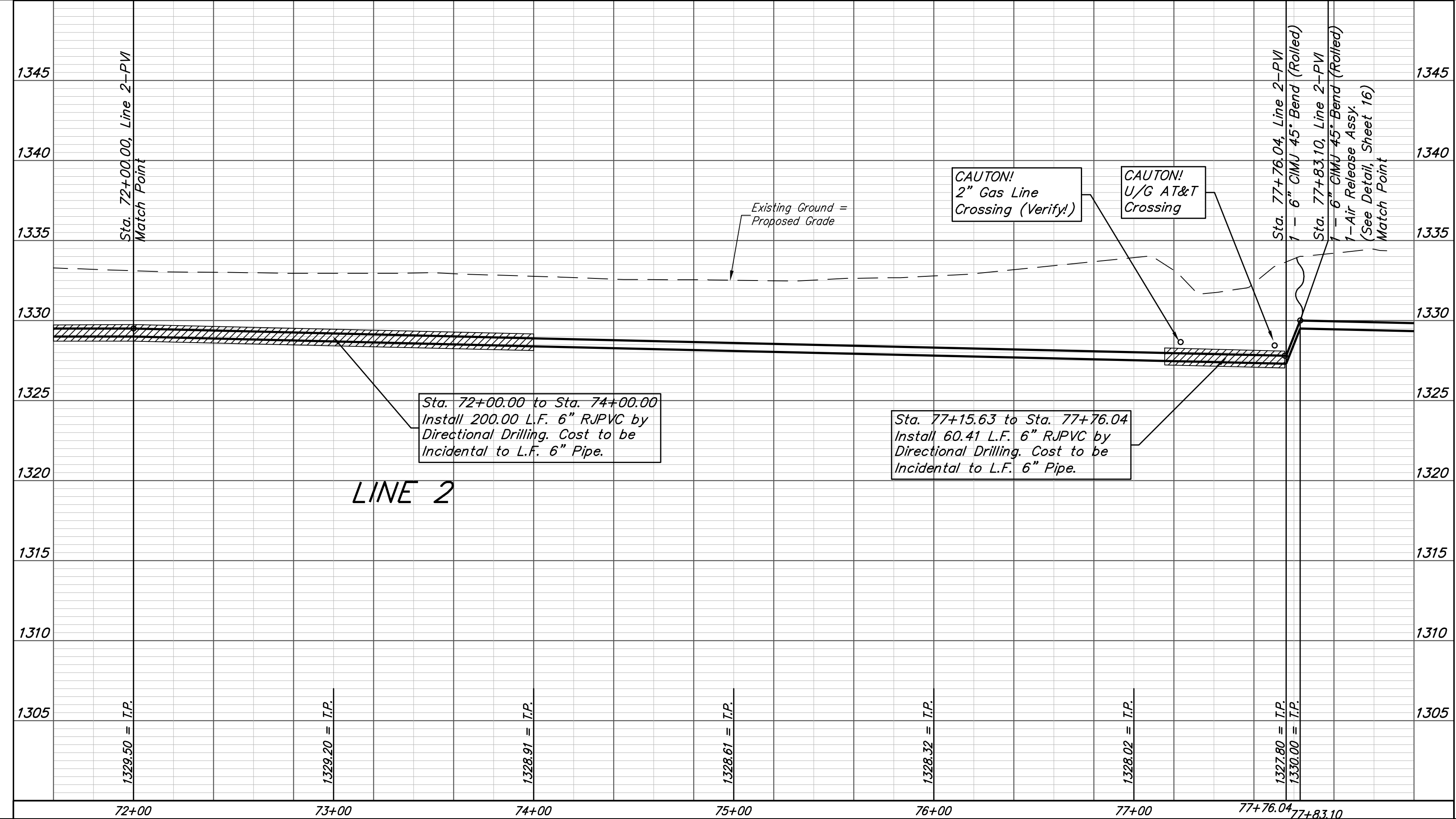
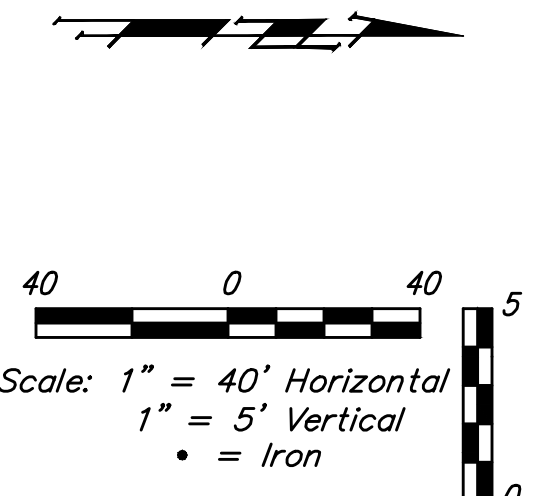
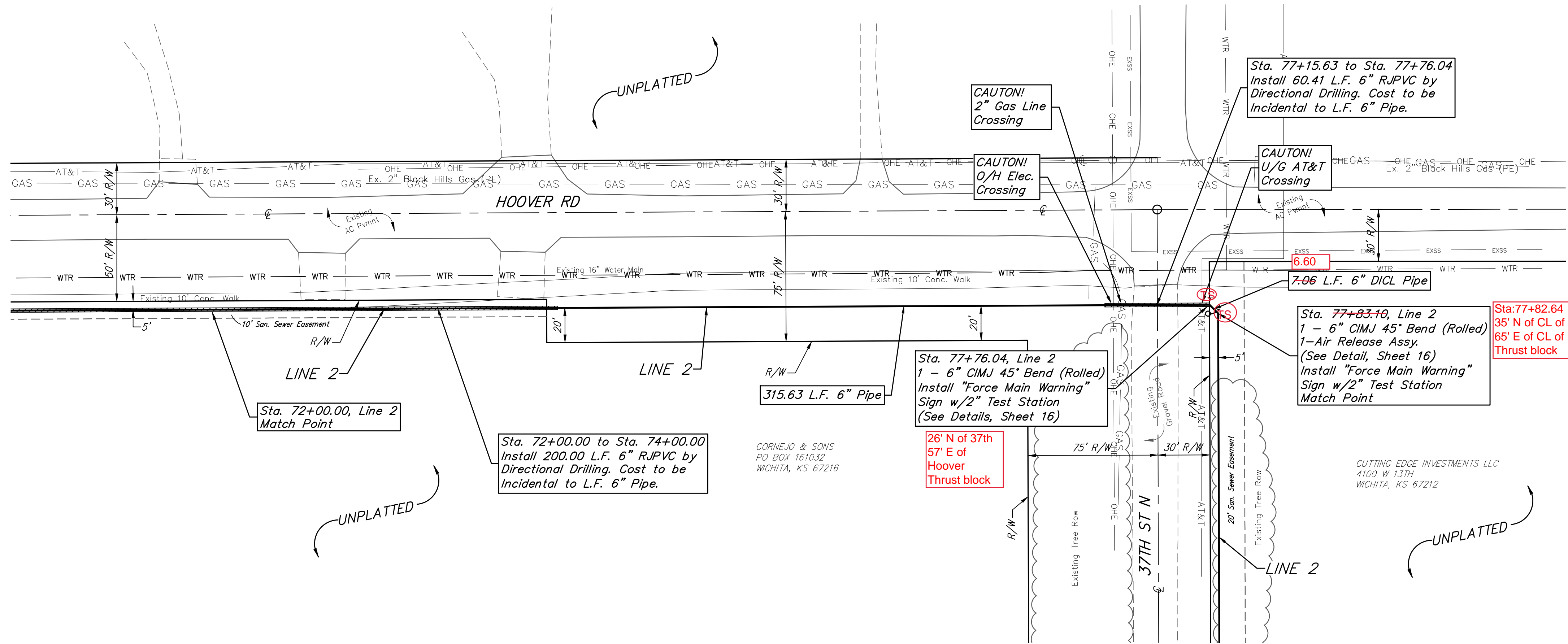


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Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK	APPROVED DATE 7/23/19
REVISIONS:	SCALE Noted		
			SHEET 9 OF 30

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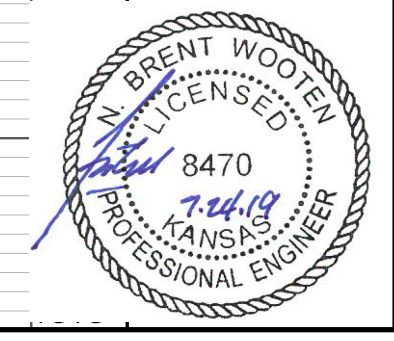
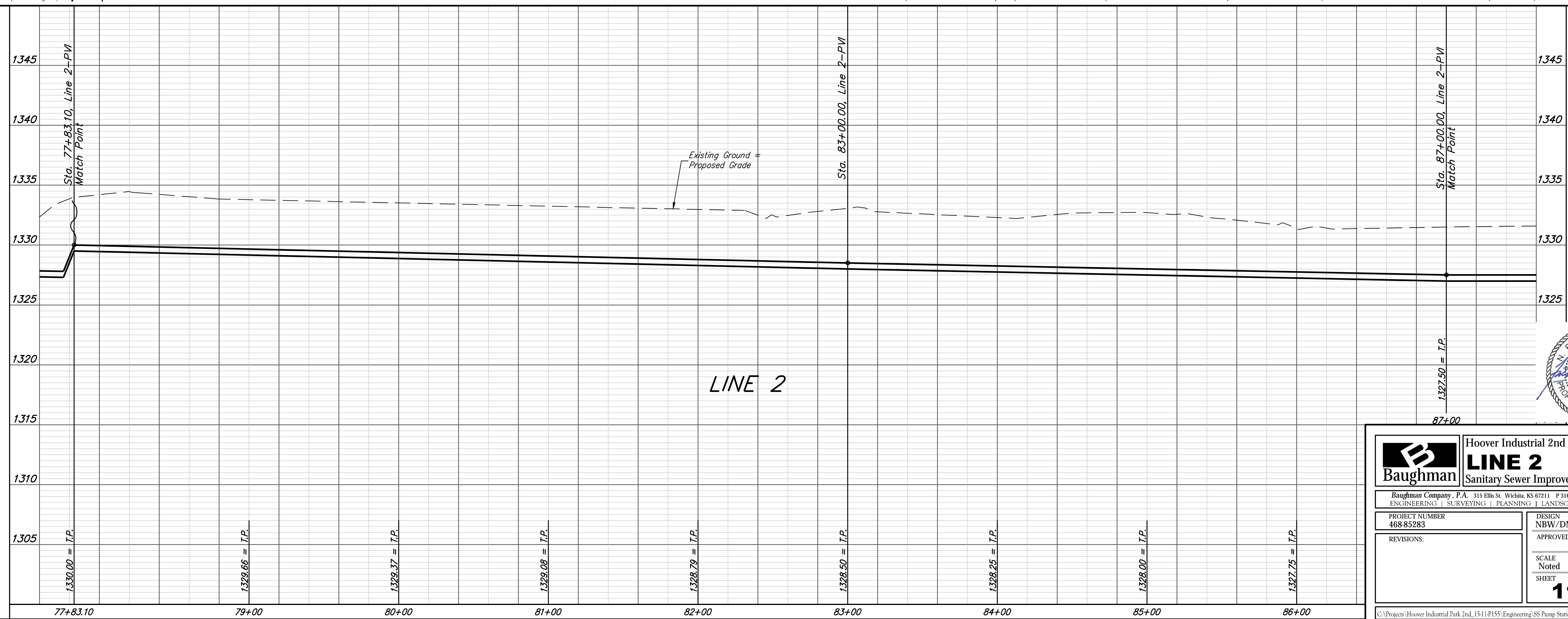
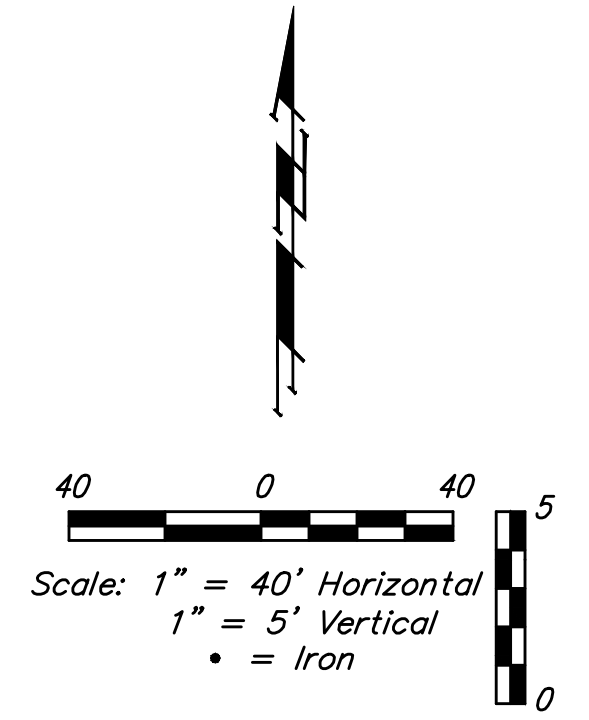
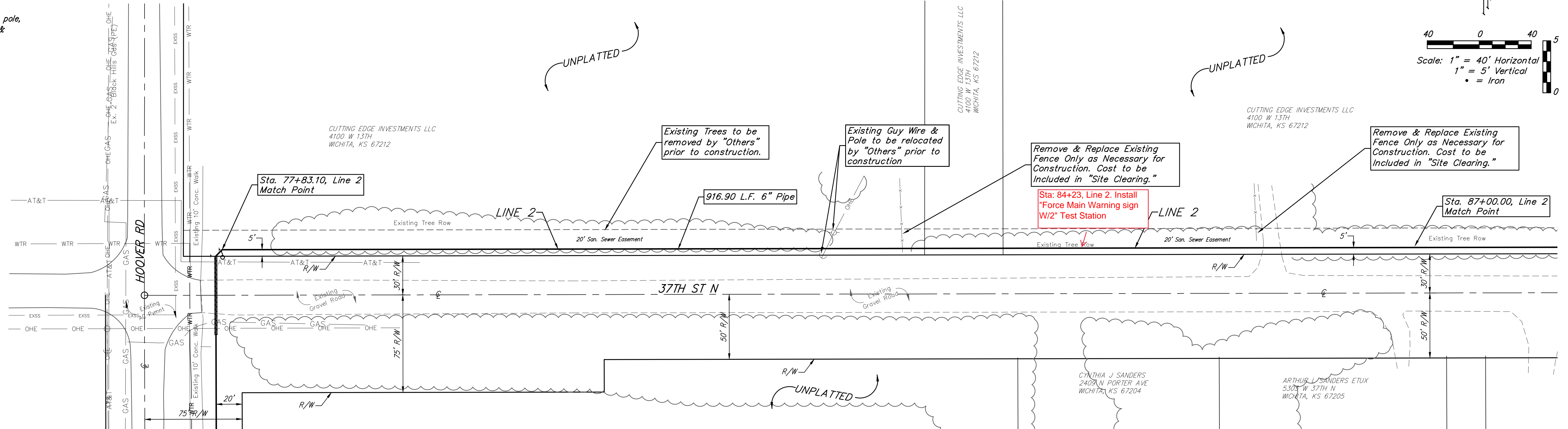
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			SHEET 10 OF 30

C:\Projects\Hoover Industrial Park 2nd_1511-P155-Engineering\SS Pump Station 1803-E944-SS MAIN.dwg

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RR spike in E. face of power pole,
 174± N. of S. line, N1/2, SW1/4 &
 49± E. of W. line, SW1/4,
 Sec. 34, TWP. 26-S, R-2-E.
 Elev. = 1398.64 NAVD88

RR spike in S. face of power pole,
 294± S. of N. line, SW1/4, &
 48± E. of W. line, SW1/4,
 Sec. 34, TWP. 26-S, R-2-E.
 Elev. = 1386.14 NAVD88

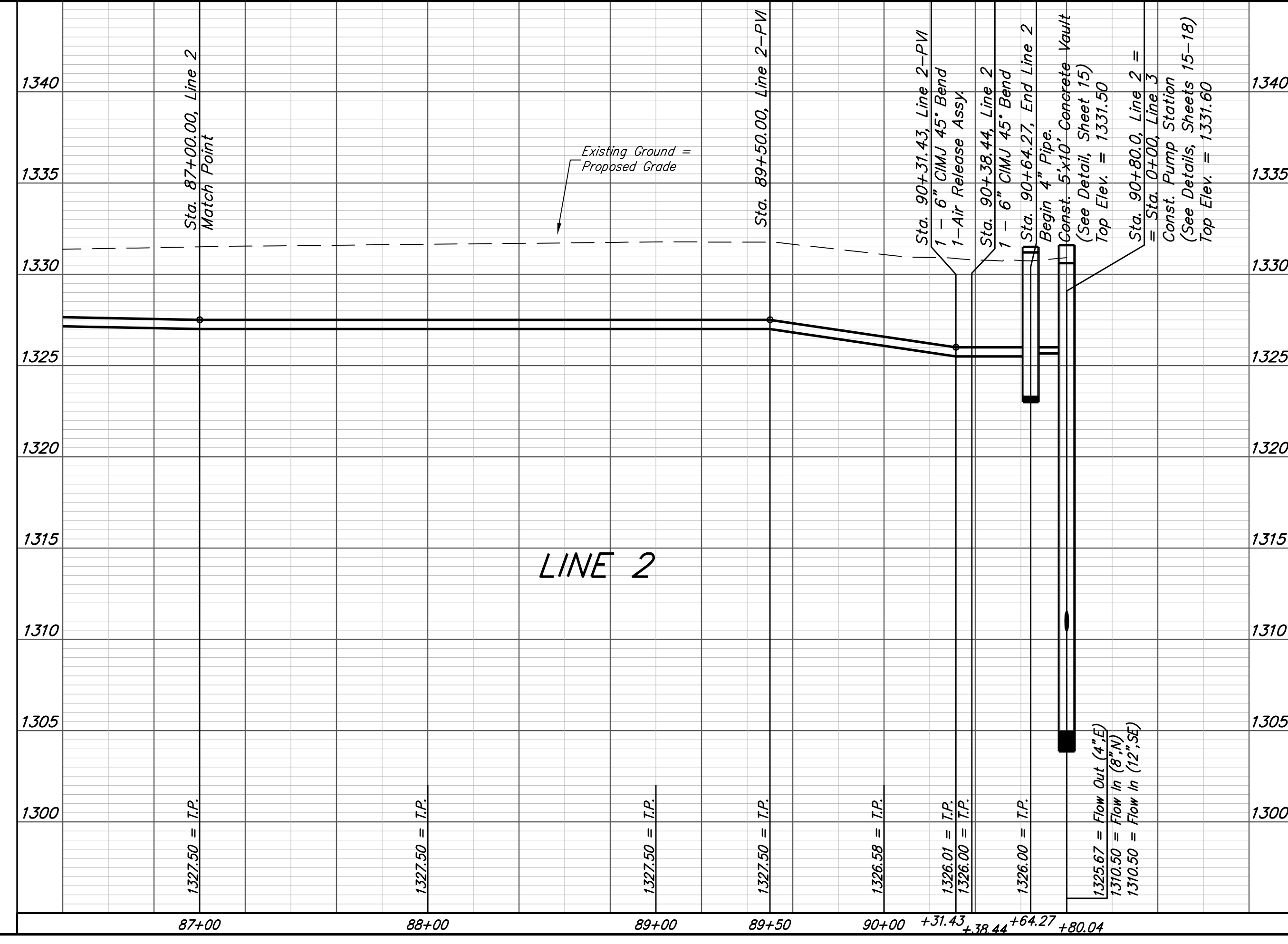
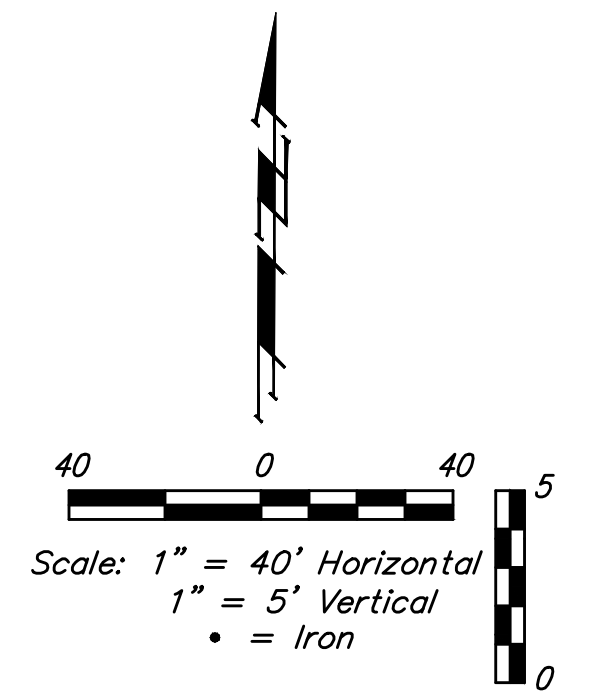
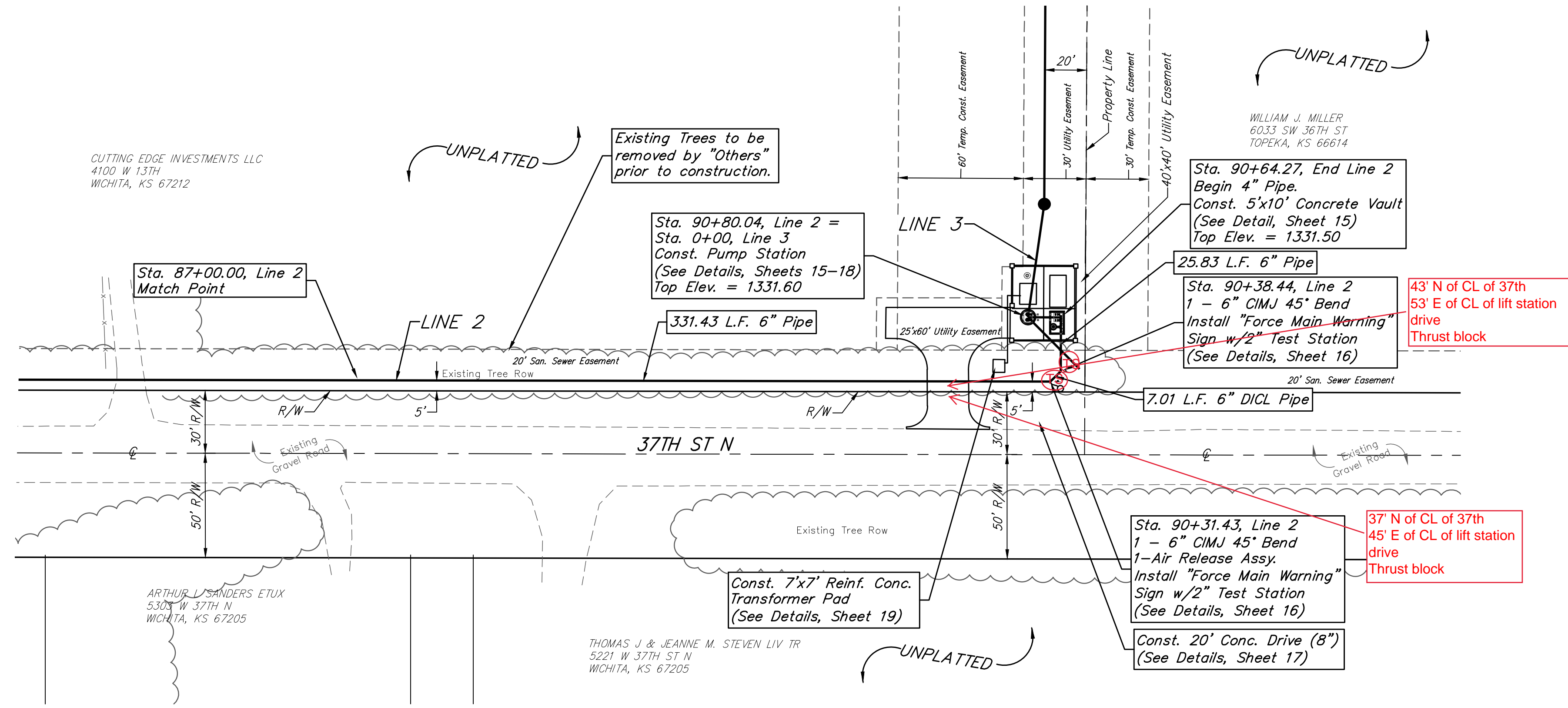



		Hoover Industrial 2nd Addition	
		LINE 2	
Sanitary Sewer Improvements		Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE	
PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK	DATE 7/23/19
REVISIONS:	SCALE Noted		
			SHEET 11 OF 30

BENCHMARKS:
 RR spike in asphalt, SW COR., N1/2,
 SW1/4, Sec. 34, TWP. 26-S, R-2-E.
 Elev. = 1400.59 NAVD88

RR spike in E. face of power pole,
 174± N. of S. line, N1/2, SW1/4 &
 49± E. of W. line, SW1/4,
 Sec. 34, TWP. 26-S, R-2-E.
 Elev. = 1398.64 NAVD88

RR spike in S. face of power pole,
 294± S. of N. line, SW1/4, &
 48± E. of W. line, SW1/4,
 Sec. 34, TWP. 26-S, R-2-E.
 Elev. = 1386.14 NAVD88



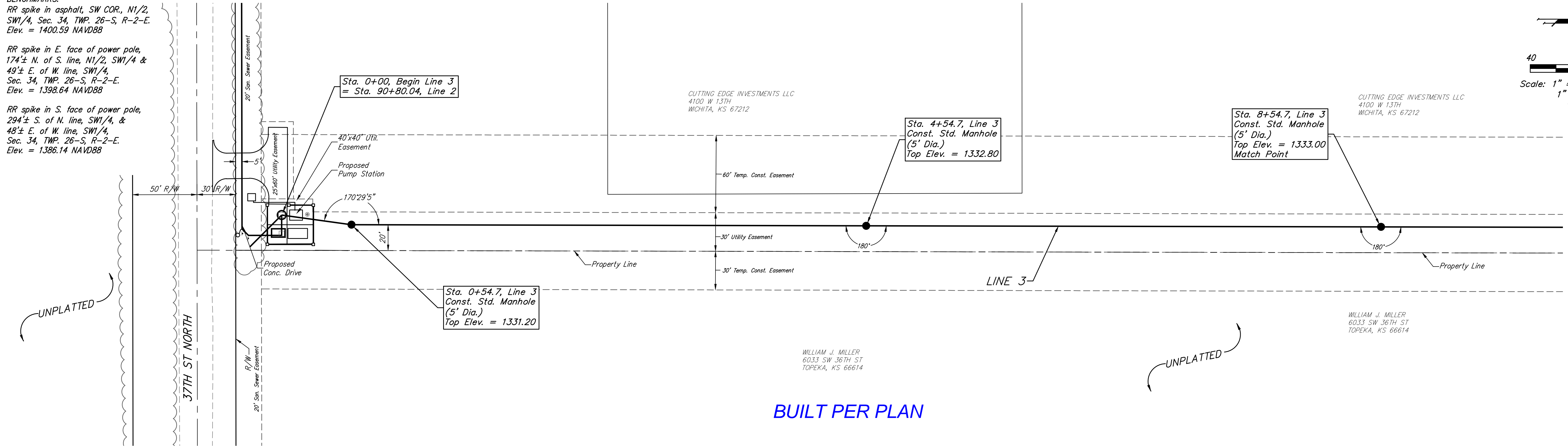
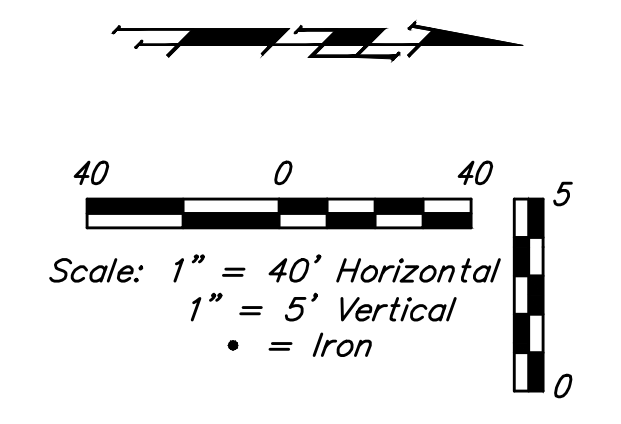
 Hoover Industrial 2nd Addition LINE 2 Sanitary Sewer Improvements		PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK
		REVISIONS:	APPROVED DATE 7/23/19	SCALE Noted
		12 OF 30		

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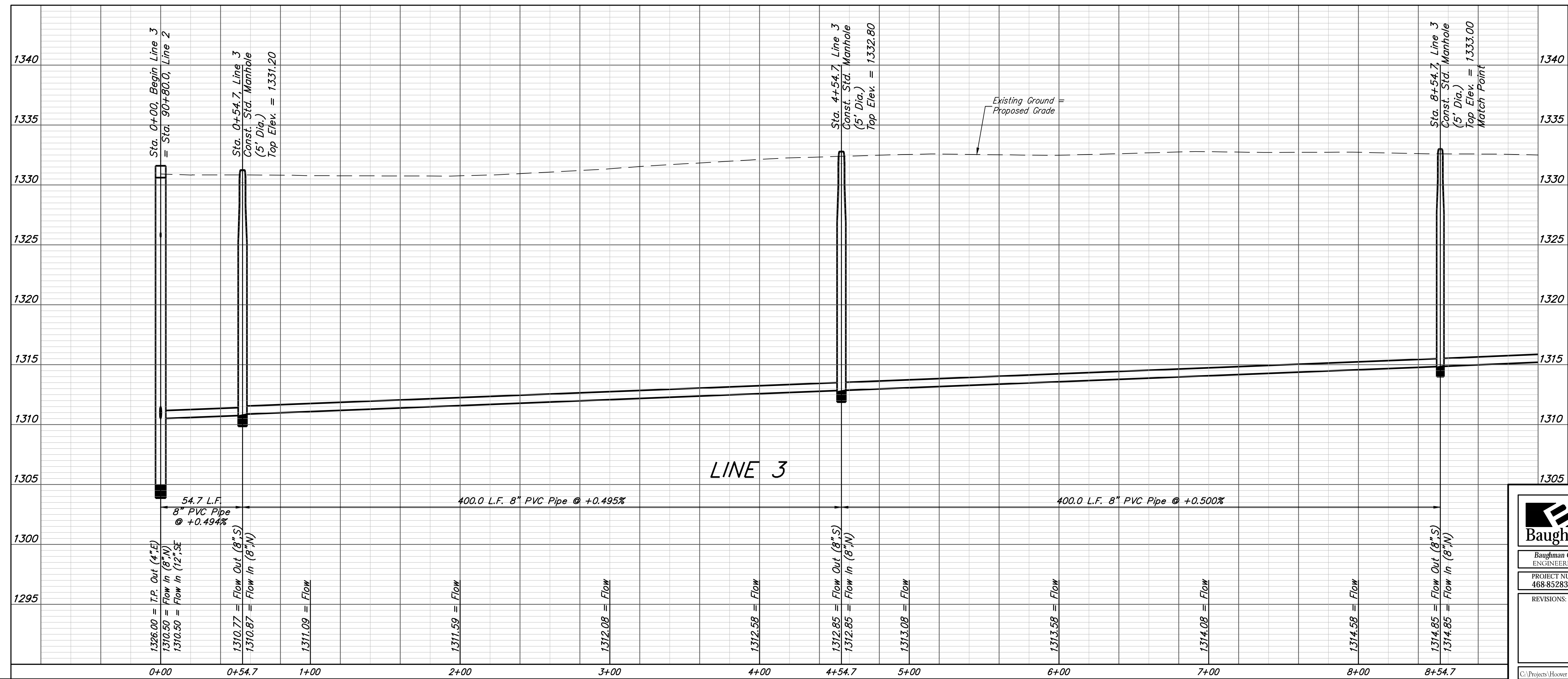
BENCHMARKS:
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88



BUILT PER PLAN

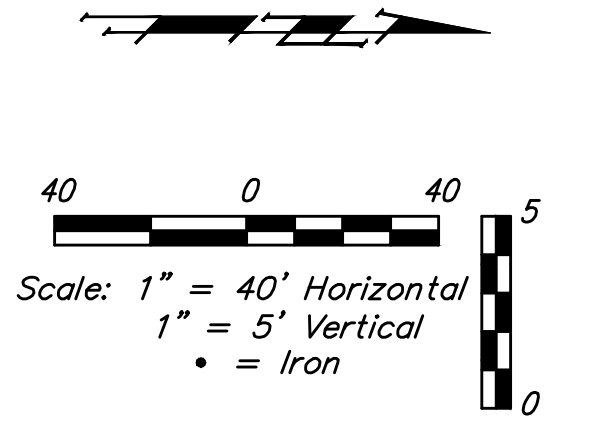
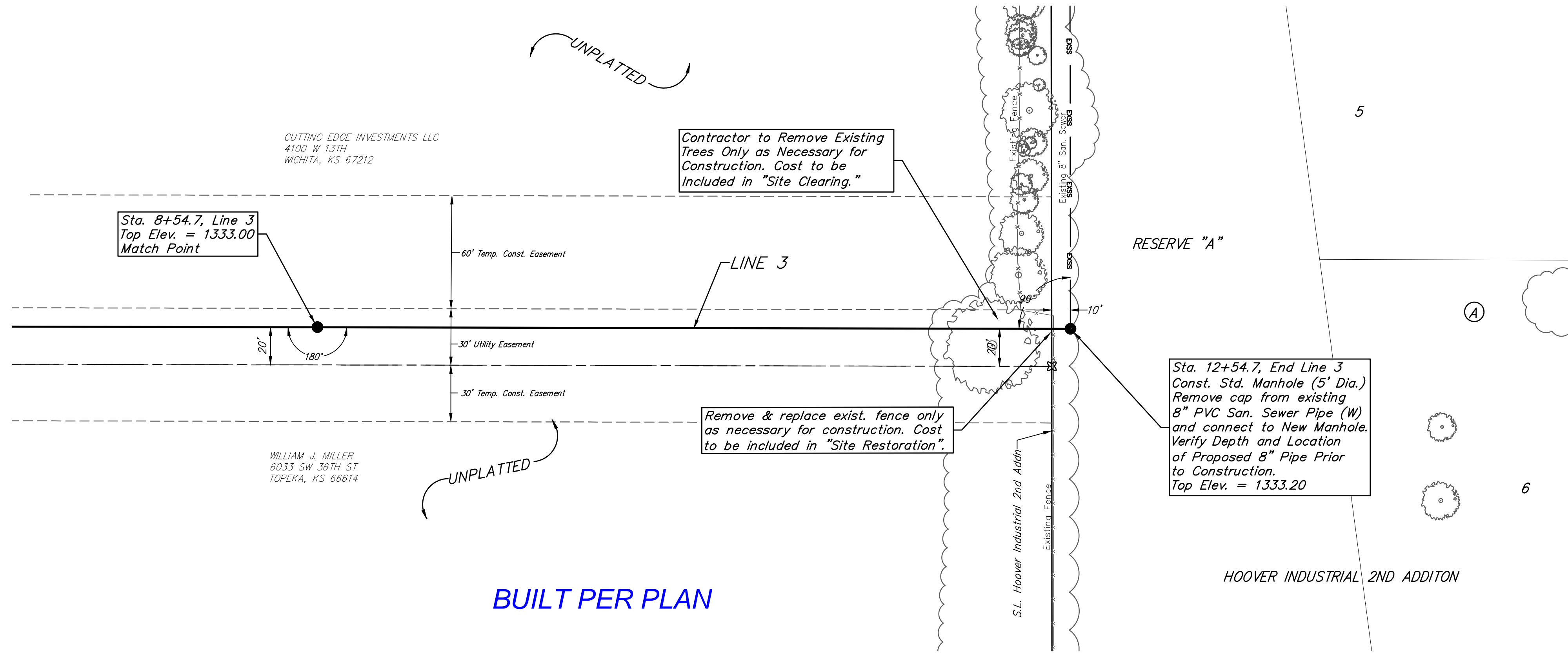


Baughman		Hoover Industrial 2nd Addition	
		LINE 3	
		Sanitary Sewer Improvements	
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149 ENGINEERING SURVEYING PLANNING LANDSCAPE ARCHITECTURE			
PROJECT NUMBER 468-85283	DESIGN NBW/DMV	DRAWN JAK	
REVISIONS:	APPROVED	DATE 7/23/19	
SCALE Noted		SHEET 13 OF 30	

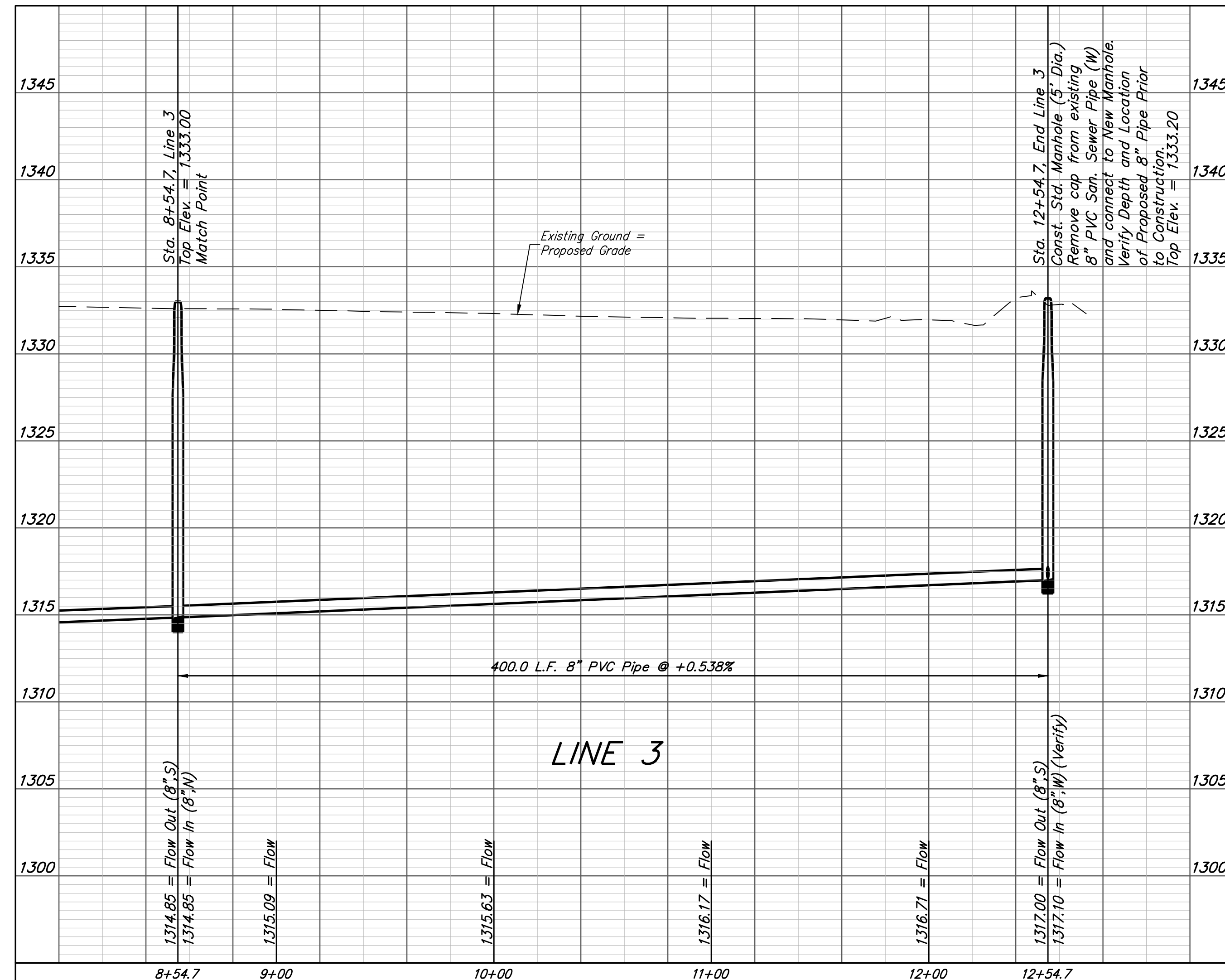
BENCHMARKS:
 RR spike in asphalt, SW COR., N1/2, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1400.59 NAVD88

RR spike in E. face of power pole, 174± N. of S. line, N1/2, SW1/4 & 49± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1398.64 NAVD88

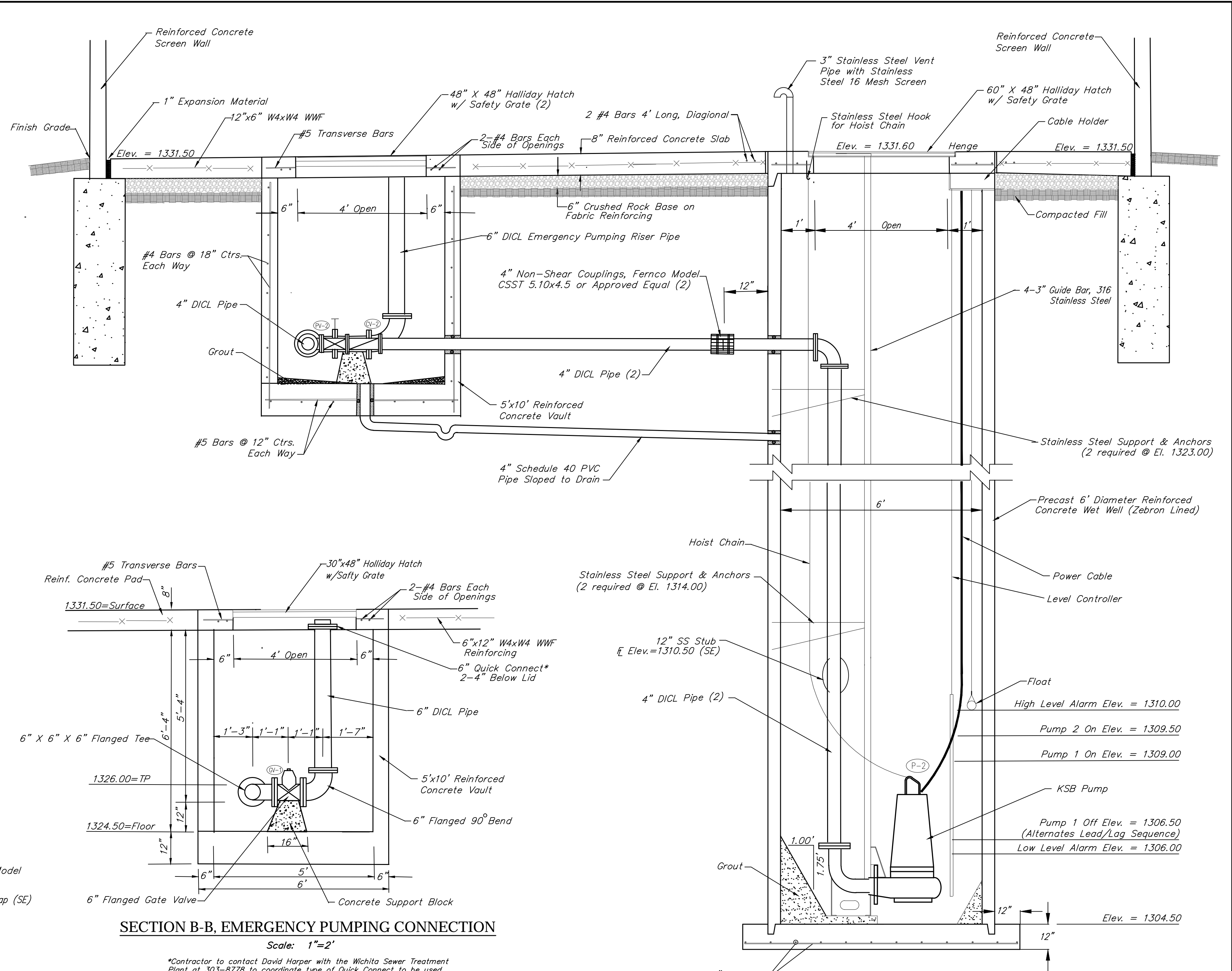
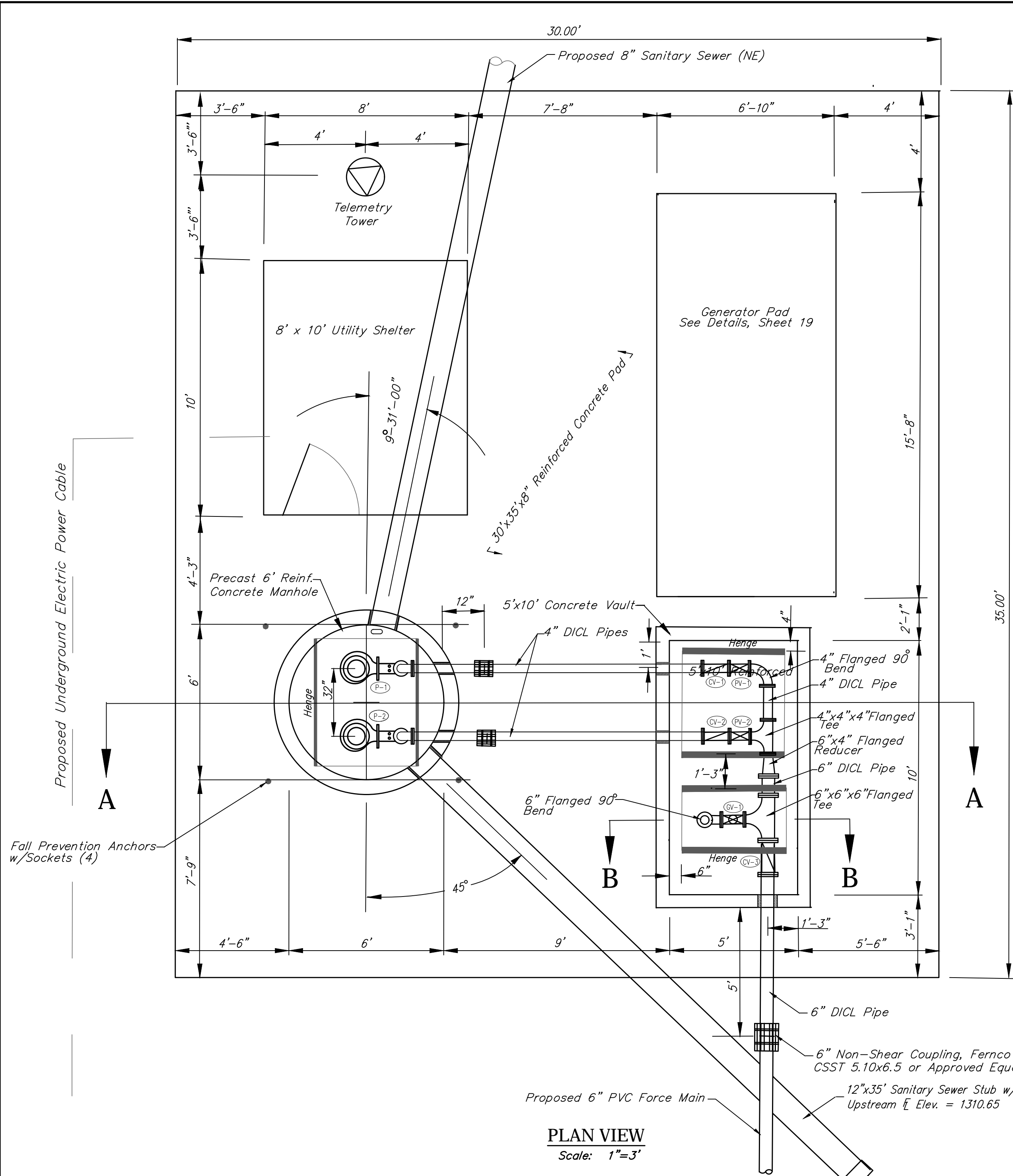
RR spike in S. face of power pole, 294± S. of N. line, SW1/4, & 48± E. of W. line, SW1/4, Sec. 34, TWP. 26-S, R-2-E. Elev. = 1386.14 NAVD88



BUILT PER PLAN



Baughman		Hoover Industrial 2nd Addition	
		LINE 3	
		Sanitary Sewer Improvements	
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 468-85283	DESIGN NBW/DMV	DRAWN JAK	DATE 7/23/19
REVISIONS:	APPROVED	SCALE Noted	SHEET 14 OF 30



- The Price Bid for Furnishing and Installing the Lift Station, including the Wet Well, Valve Vault, and Other Miscellaneous Appurtenances, shall include All Costs for Furnishing and Installing the Lift Station as Indicated in the Plans Complete in Place and in Operation. This Price shall include the Cost of Constructing and/or Installing Compacted Subgrade, Concrete Pavement, Electrical Conduit, Electrical Wiring, Disconnect Switch, Pump Controls, Electrical Power Supply, Finished Grading, Concrete Slump Block Wall, and any Other Incidentals Necessary to Complete the Work and Place the Lift Station into Satisfactory Operation. The Price Bid shall include All Sanitary Sewer Pipe and Force Main Extended Outside the Slab as Shown in the Site Plan and Details.
- All Force Main Piping shall be Ductile Iron (Flanged) to 5' Outside the Structures, Unless Otherwise Noted. All Interior Piping shall be Cement Lined and Epoxy Coated Ductile Iron Pipe.
- Pipe Penetrations Thru the Wet Well, Valve Vault, and Concrete Pad shall be Grouted Watertight With Non-Shrink Grout and Water Stop Gaskets as Required.
- The Contractor shall perform an Exfiltration Test on the complete Wet Well. The Wet Well shall be tested individually by securely plugging all inlet and outlet pipes. The Wet Well shall be filled to its full depth and then observed for at least six (6) hours. Exfiltration loss from the 6-foot diameter Wet Well shall not exceed the rate of 1.70 Gallons per foot of Wet Well depth per day. If exfiltration exceeds the maximum limits, the Contractor shall repair the leaks and defects, and then retest.
- The Contractor shall support all piping inside the Wet Well and Valve Vault as required.
- All hardware inside the Wet Well and Valve Vault, including but not limited to the Guide Bar, Hoist Chain, Chain Catch, etc. shall be stainless steel. 316 Stainless Steel shall be used when available, otherwise 304 Stainless Steel is acceptable. Nylon Rope will not be allowed in the Wet Well.
- Wet Well and Valve Vault design shall be subject to the same design requirements as Precast Manholes.
- The interior of the Wet Well shall be lined Zebtron 386.
- Backfill around the Wet Well and under the Valve Vault and Pad shall be a low volume change material compacted to 95% ASTM D-1557.
- The Contractor shall coordinate with Westar Energy to extend electric services to the Pump Station Site. The Contractor shall verify the electrical service costs & requirements PRIOR to Bidding. ALL COST INCURRED TO EXTEND SERVICES TO THE SITE SHALL BE INCLUDED IN LUMP SUM BID ITEM "PUMP STATION MODULE".
- The Contractor shall verify all requirements and dimensions of the Generator Pad with the Generator Supplier prior to construction.

- No Electrical Connections will be Allowed within the Wet Well.
- Contact David Harper with the City of Wichita Sewer Treatment Plant at 303-8778 PRIOR to Lift Station Start-up.
- Contractor shall install 4 Fall Prevention Anchors at locations as shown outside of Hatch on above drawing. Anchors shall be 3M/Sala Model 2100169 Pour-in-Place Detent Anchor w/ Socket or approved equal.

PLUG VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
PV-1	VALVE VAULT	NEW	4"	FLANGE	GEARED OPERATOR W/ EXTENSION & 2" NUT
PV-2	VALVE VAULT	NEW	4"	FLANGE	GEARED OPERATOR W/ EXTENSION & 2" NUT

GATE VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
GV-1	VALVE VAULT	NEW	6"	FLANGE	GEARED OPERATOR W/ EXTENSION & 2" NUT

CHECK VALVE SCHEDULE

MARK	LOCATION	STATUS	SIZE	FITTINGS	OPERATOR
CV-1	VALVE VAULT	NEW	4"	FLANGE	LEVER & SPRING
CV-2	VALVE VAULT	NEW	4"	FLANGE	LEVER & SPRING
CV-3	VALVE VAULT	NEW	6"	FLANGE	LEVER & SPRING

PUMP SCHEDULE

MARK	TYPE	GPM	HEAD (FT)	EFF. %	HP	RPM	ELECT.
P-1	SUBMERSIBLE	420	146	40.1% MIN.	56.0	1750	460/60/3
P-2	SUBMERSIBLE	420	146	40.1% MIN.	56.0	1750	460/60/3



Note: See Electrical Detail Sheets for Pump Control Wiring & Enclosures.

Baughman Hoover Industrial 2nd Addition
PUMP STATION
Sanitary Sewer Improvements

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: _____ DESIGN: _____ DRAWN: _____
REVISIONS: _____ APPROVED: _____ DATE: 7/11/19
SCALE: Noted
SHEET: **15 OF 30**

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