

# GENERAL NOTES:

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

AT&T 1-800-246-8464  
 Black Hills Energy 1-800-694-8989  
 City of Wichita Water & Sewer 1-316-219-8921  
 City of Wichita Stormwater 1-316-268-4090  
 City of Wichita Traffic 1-316-268-4034  
 Cox Communications 1-888-249-3530  
 Kansas Gas Service 1-888-482-4950  
 Energy 1-800-544-4857

- Utility service lines, poles, etc. 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.
- 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.
- 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.
- 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.
- 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.
- All elevations shown are NAVD 88.
- All stubs and capped pipes shall be located with green plastic tape in the same manner as risers.
- Connecting to Existing Manholes:  
 Prior to laying sewer lines using existing stubs in existing manholes, the Contractor shall expose and verify the elevation, grade and alignment of existing stubs and notify the Engineer of any deviation from the plans. Where the stub is unusable due to elevation grade or alignment, the Contractor shall remove the stub and plug the hole, and reshape the existing manhole invert to provide smooth flow. Where connection to an existing manhole that does not have an existing stub, the Contractor shall core cut into existing manhole wall to make connection using approved water stop gasket, and reshape the existing manhole invert to provide smooth flow. The cost of connect to existing manholes is incidental to the project.
- Contractor shall limit the extent of trench open overnight and weekends to less than 50 feet.
- Contractor shall provide positive drainage away from all manhole covers.
- The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.

- 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.

- All disturbed areas are to be seeded as follows:  
 Seed --- Rye grass; 5 lbs./1000 Sq. Ft.

All costs associated with seeding including mobilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the L.S. bid item "Seeding".

- 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 BMPs".

- The developer for this project is Jay W. Russell, P.O. Box 75337, Wichita, KS 67272 (316)722-2417 j@russellco.com

- Construction Sequence:  
 The planned construction sequence for this phase of infrastructure development is as follows:  
 1) Sanitary Sewer construction (single contract)  
 2) \*Storm Sewer construction and Mass Grading (part of paving project)  
 3) Water Line construction (single contract)  
 4) Pavement construction (includes storm sewer and mass grading)

\*The Storm Sewer and Mass Grading construction are included in the street paving contract. Ideally the grading and storm sewer part of the paving project would be built, then the paving project would be suspended while the water line project is constructed. This phasing is beneficial for two reasons, 1) The storm sewer crosses under the water line at 3 locations and 2) there is a large of amount of water line protective fill required that would be placed during the mass grading project.

The contractors awarded the work for the water line project and paving/storm sewer/mass grading project will be required to coordinate construction schedules to meet the phasing outlined above. Any additional costs caused by the suspension of the street project or additional work caused by the phasing listed above shall be included in each bid.

## Benchmarks

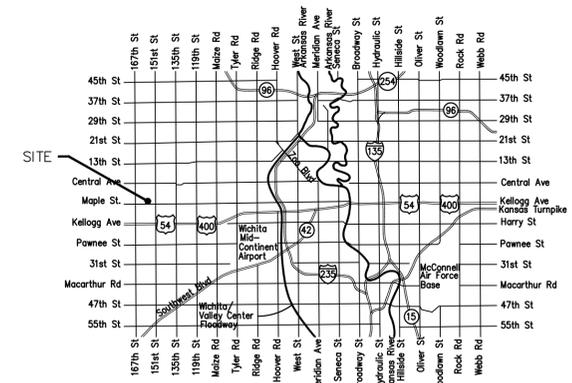
BM #1: City of Wichita disc top of headwall of RCBC 660± east of the SE Cor. of the SE1/4, SEC. 22, TWP. 27-S, R-2-W. Elev. = 1410.27 NAVD88

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

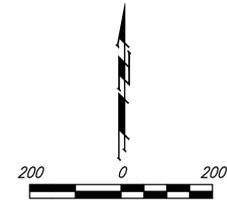
# SANITARY SEWER IMPROVEMENTS to serve **PIKE ADDITION - PH. II** CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer  
 Project Number  
 468-2020-008402  
 O.C.A. Number  
 810023

McCullough Excavation - Contractor  
 B. Woods - City of Wichita, Field Project Engineer  
 E. Flores - City of Wichita, Inspector  
 As-built  
 Stubs & Risers  
 Release Date (for connection purposes only): 9/18/2020  
 Completion Date:  
 pdf: 4/16/2021 apr

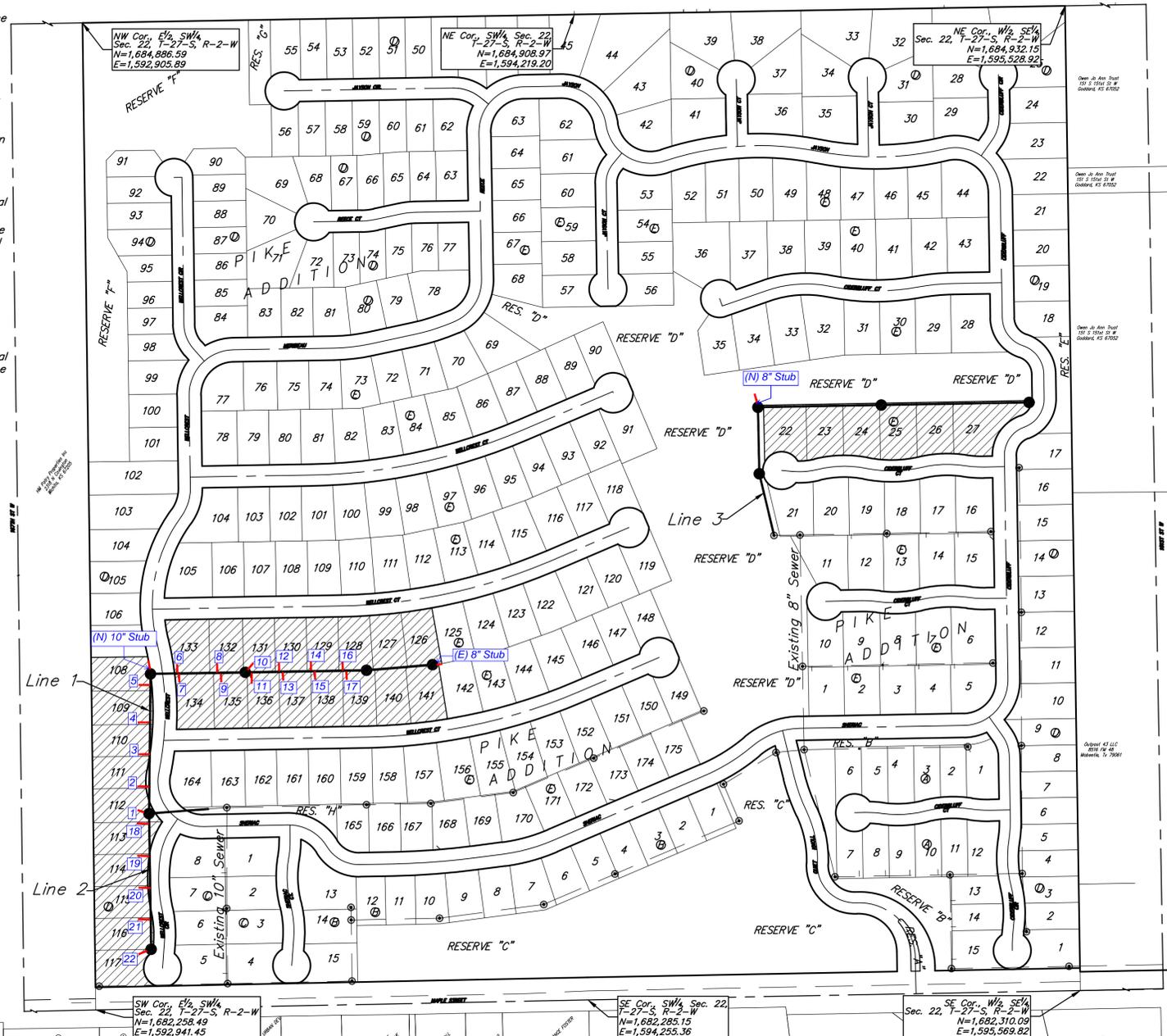


Vicinity Map



## Sheet Index

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Manhole Frame & Cover Detail	8
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Benefit District



May 2020

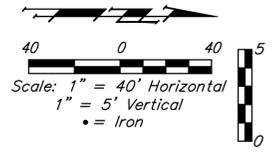
Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0143  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

E:\Projects\Pike Addition\_\\Engineering\Phase 2\Sewer\Sewer.dwg



**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

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**SEWER SERVICE TABLE**

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from			
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL	Main to Riser (L/R)	Upstream MH	Downstream MH
1	4" Stub W/Riser	112	D	1	2+08.0/Lt.	13.0'	21.1'	21' Lt.	372'	@ MH
2	10" X 4" Tee W/Riser	111	D	1	2+80.1/Lt.	13.0'	23.6'	24' Lt.	300'	72'
3	10" X 4" Tee W/Riser	110	D	1	3+65.3/Lt.	13.5'	14.7'	15' Lt.	215'	157'
4	10" X 4" Tee W/Riser	109	D	1	4+50.5/Lt.	13.5'	7.5'	8' Lt.	130'	242'
5	10" X 4" Tee W/Riser	108	D	1	5+50.5/Lt.	14.5'	11.4'	11' Lt.	30'	342'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

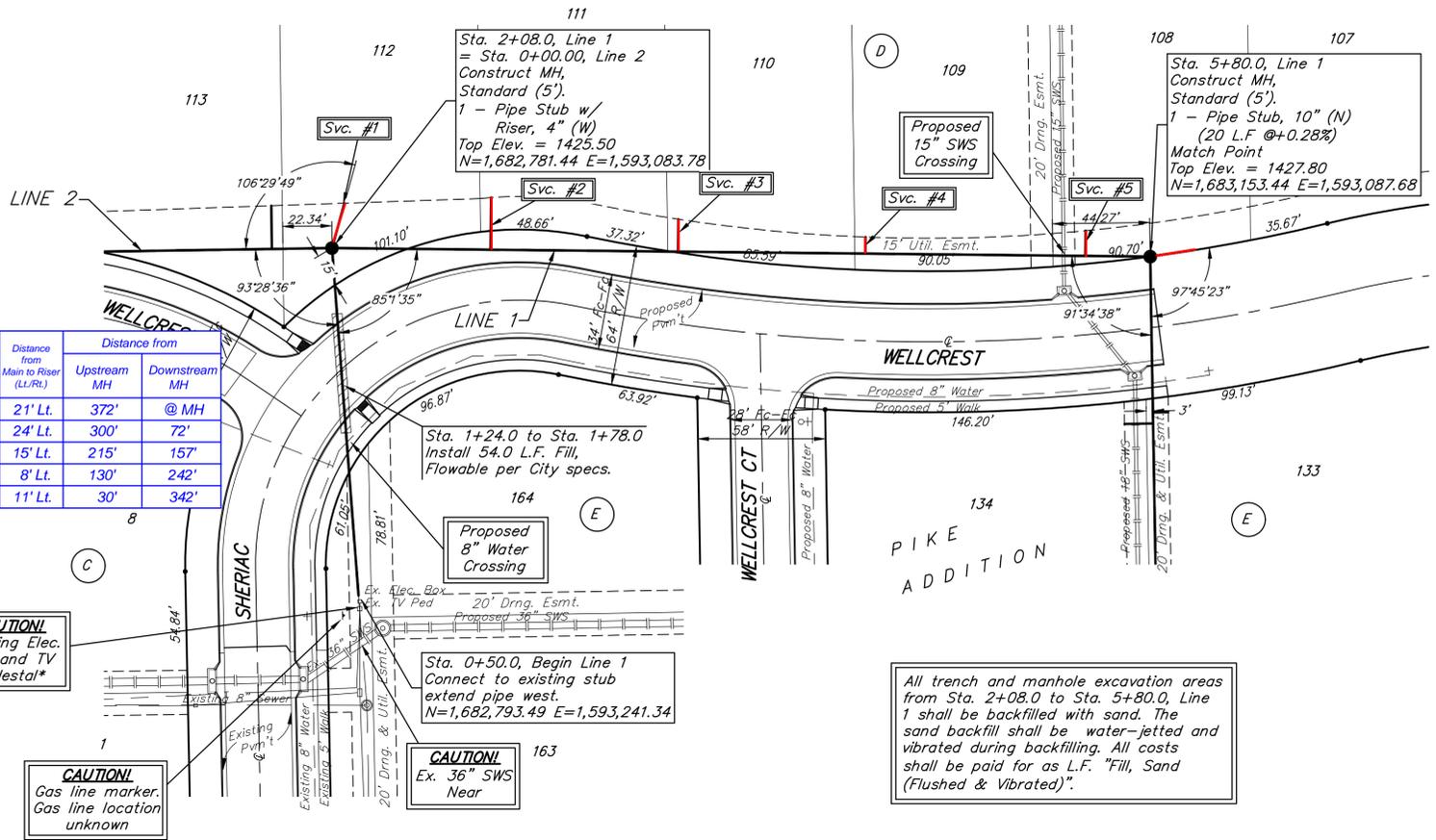
\*Contact utility companies 3 weeks prior to construction to coordinate temporary removal/replacement. Heide Bryan, Evergy, 261-6354. Forrest Hair, Cox Comm, 761-3622

**CAUTION!**  
Existing Elec. box and TV pedestal\*

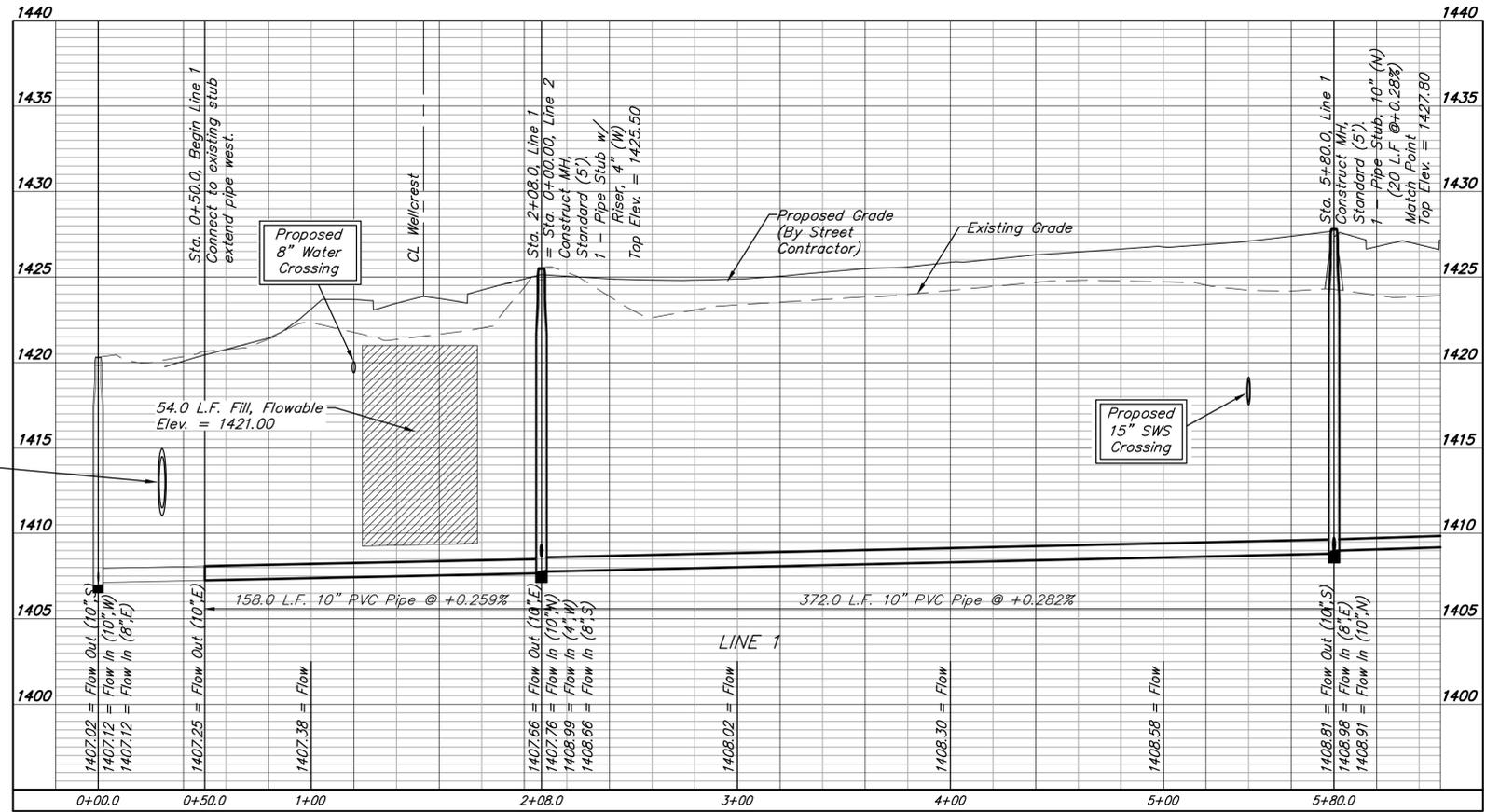
**CAUTION!**  
Gas line marker. Gas line location unknown

**CAUTION!**  
Ex. 36" SWS Near

All trench and manhole excavation areas from Sta. 2+08.0 to Sta. 5+80.0, Line 1 shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".



Contractor shall verify elevation and alignment of existing 8" pipe prior to construction and notify Engineer of any discrepancy.

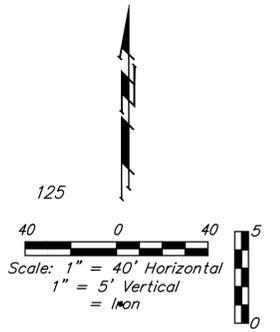
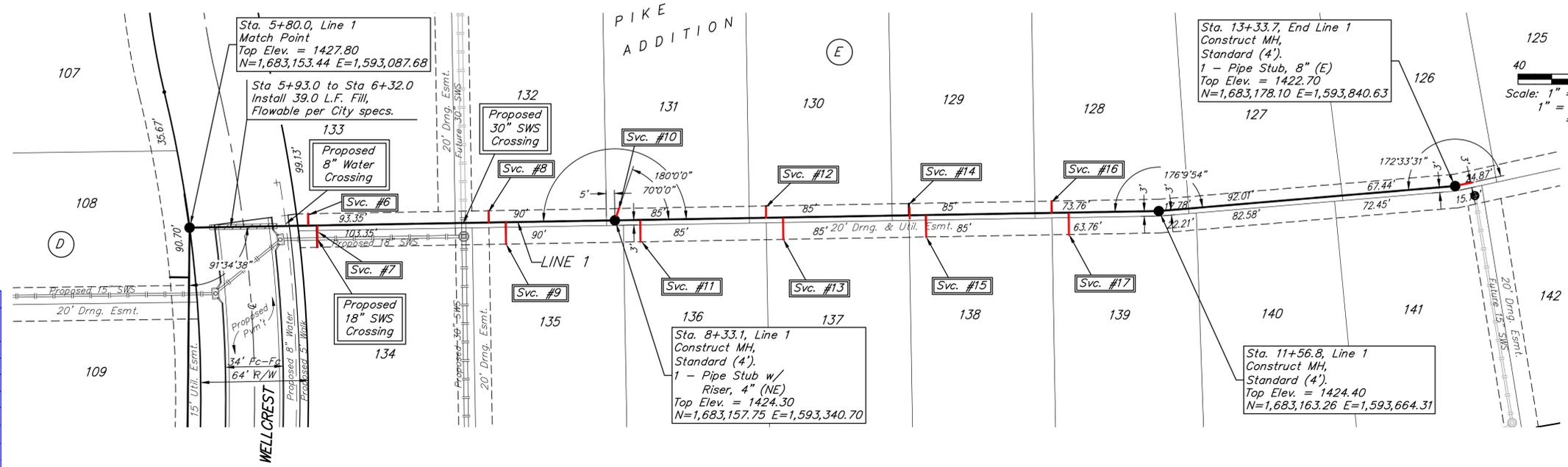


**CAUTION!**  
Ex. 36" SWS Near



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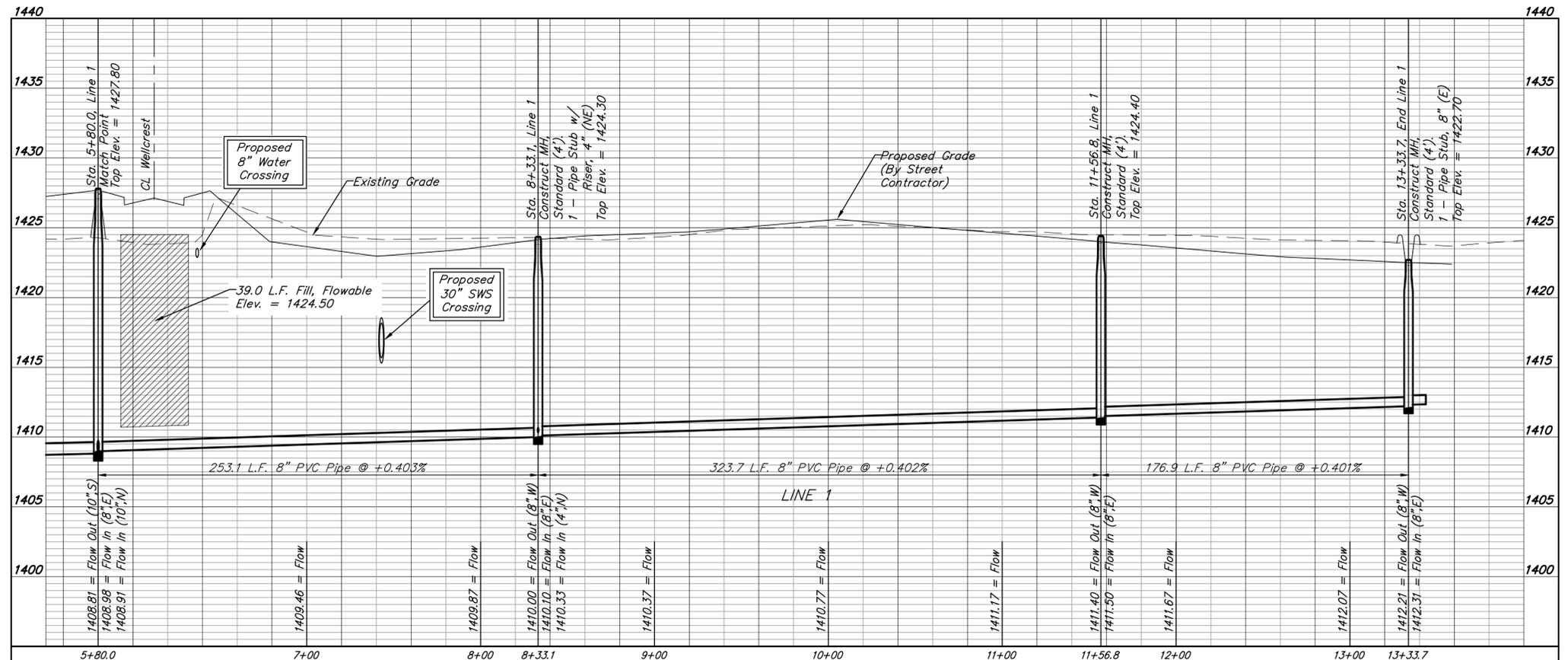


Riser No.	Location		Distance from Main to Riser (Lt./Rt.)	Distance from	
	Lot No.	Block No.		Upstream MH	Downstream MH
6	133	E	7' Lt.	183'	70'
7	134	E	13' Rt.	178'	75'
8	132	E	7' Lt.	75'	178'
9	135	E	13' Rt.	70'	183'
10	131	E	7' Lt.	MH stub (N)	-
11	136	E	13' Rt.	308'	15'
12	130	E	7' Lt.	233'	90'
13	137	E	13' Rt.	223'	100'
14	129	E	7' Lt.	148'	175'
15	138	E	13' Rt.	138'	185'
16	128	E	7' Lt.	63'	260'
17	139	E	13' Rt.	53'	270'

SEWER SERVICE TABLE

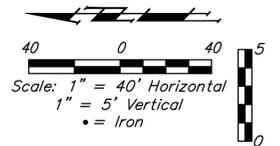
NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
6	8" X 4" Tee W/Riser	133	E	1	6+50.7/Lt.	13.5'	7.0'
7	8" X 4" Tee W/Riser	134	E	1	6+55.7/Rt.	13.5'	13.0'
8	8" X 4" Tee W/Riser	132	E	1	7+58.1/Lt.	9.5'	7.0'
9	8" X 4" Tee W/Riser	135	E	1	7+63.1/Rt.	9.5'	13.0'
10	4" Stub W/Riser	131	E	1	8+33.1/Lt.	10.0'	7.0'
11	8" X 4" Tee W/Riser	136	E	1	8+48.1/Rt.	10.0'	13.0'
12	8" X 4" Tee W/Riser	130	E	1	9+23.1/Lt.	10.5'	7.0'
13	8" X 4" Tee W/Riser	137	E	1	9+33.1/Rt.	10.5'	13.0'
14	8" X 4" Tee W/Riser	129	E	1	10+08.1/Lt.	11.0'	7.0'
15	8" X 4" Tee W/Riser	138	E	1	10+18.1/Rt.	11.0'	13.0'
16	8" X 4" Tee W/Riser	128	E	1	10+93.1/Lt.	9.5'	7.0'
17	8" X 4" Tee W/Riser	139	E	1	11+03.1/Rt.	9.5'	13.0'

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.



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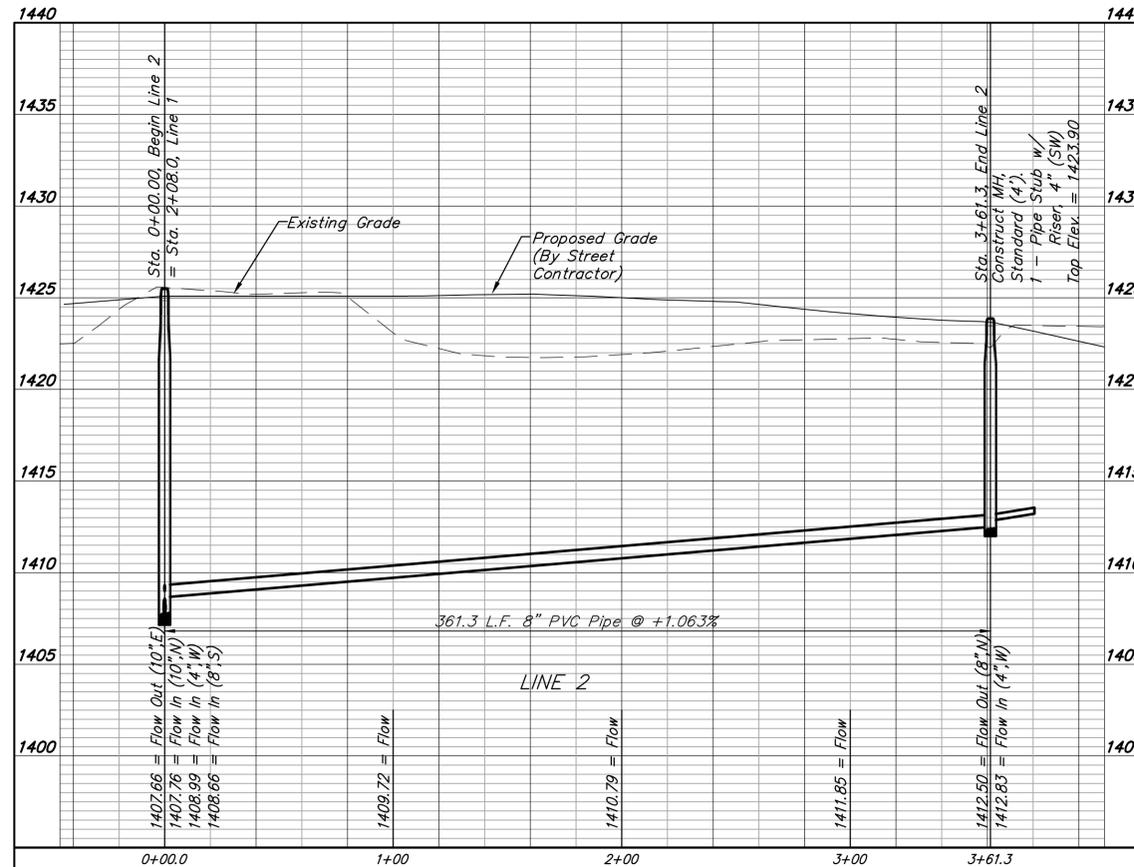
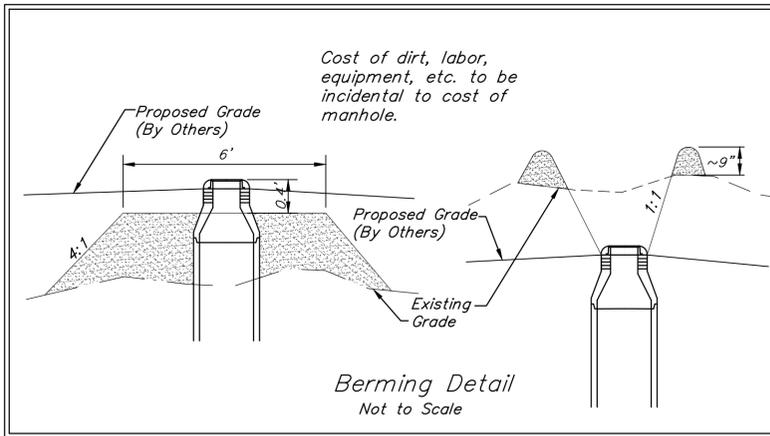
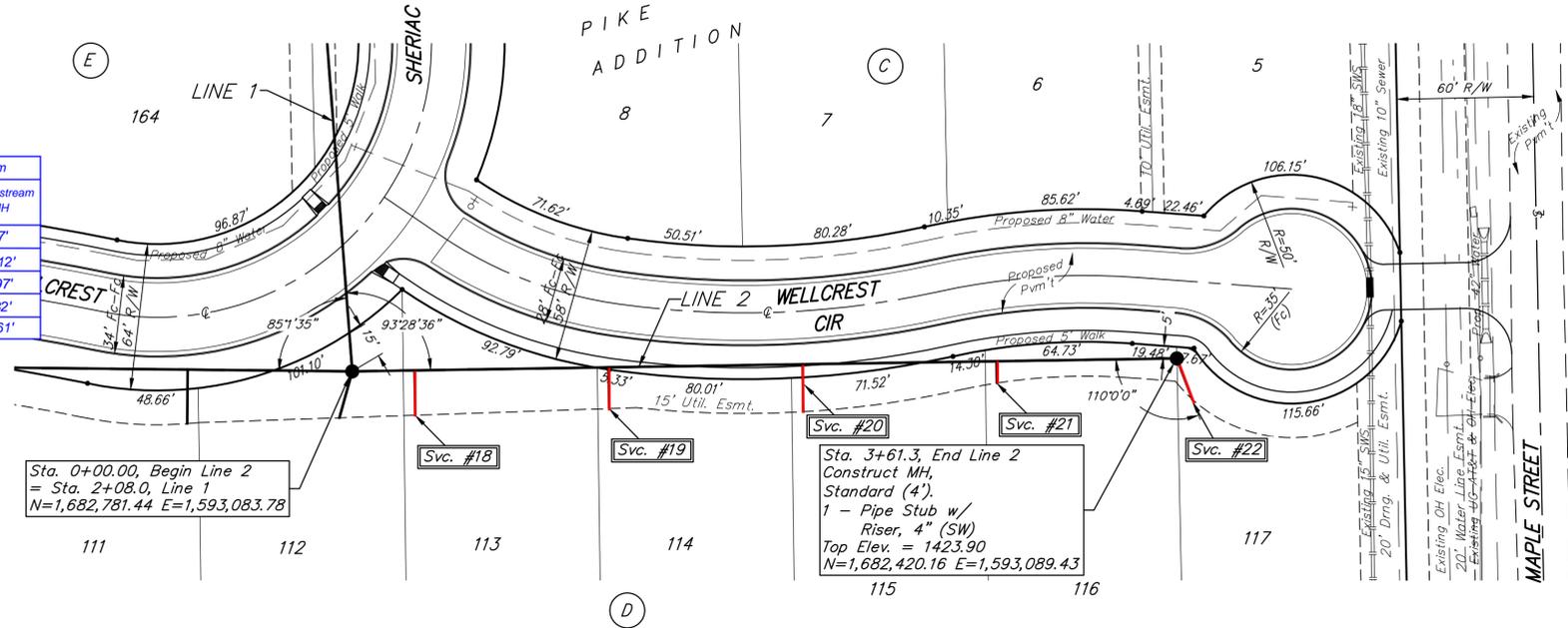


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NUMBER	TYPE	LOCATION			STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE		Distance from		
		LOT NO.	BLOCK NO.	LINE NO.		VERTICAL	HORIZONTAL	Main to Rise (L/U/R)	Upstream MH	Downstream MH
18	8" X 4" Tee W/Riser	113	D	2	0+27.3/Rt.	11.5'	19.6'	20' Rt.	334'	27'
19	8" X 4" Tee W/Riser	114	D	2	1+12.3/Rt.	11.5'	18.1'	18' Rt.	249'	112'
20	8" X 4" Tee W/Riser	115	D	2	1+97.3/Rt.	10.5'	20.8'	21' Rt.	164'	197'
21	8" X 4" Tee W/Riser	116	D	2	2+82.3/Rt.	9.0'	9.5'	10' Rt.	79'	282'
22	4" Stub W/Riser	117	D	2	3+61.3/Rt.	7.5'	19.3'	@ mh	361'	

NOTE: Vertical Riser Pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

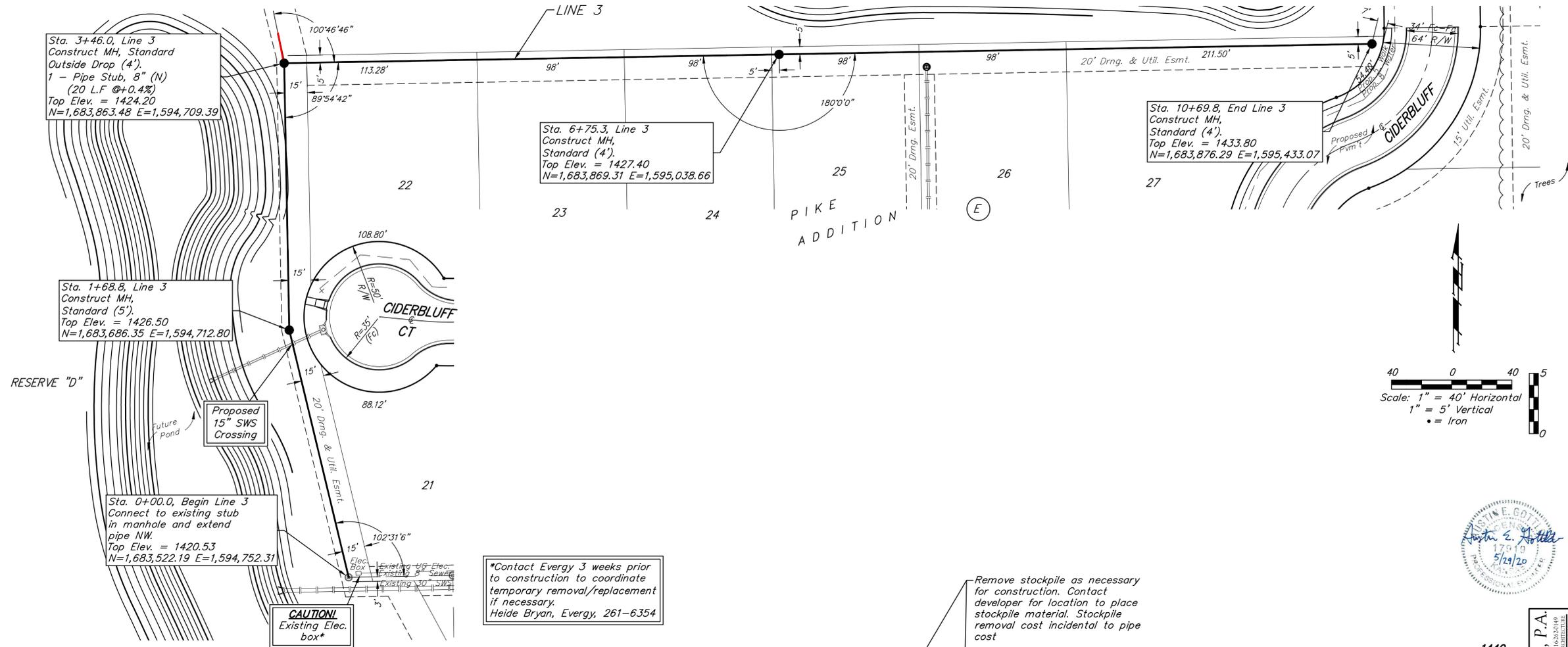
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JUSTINE E. GOTT  
 17819  
 5/21/20  
 PROFESSIONAL ENGINEER

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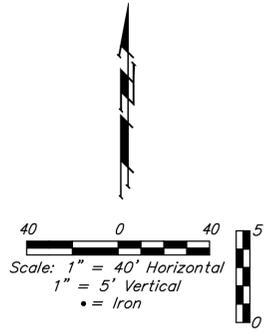
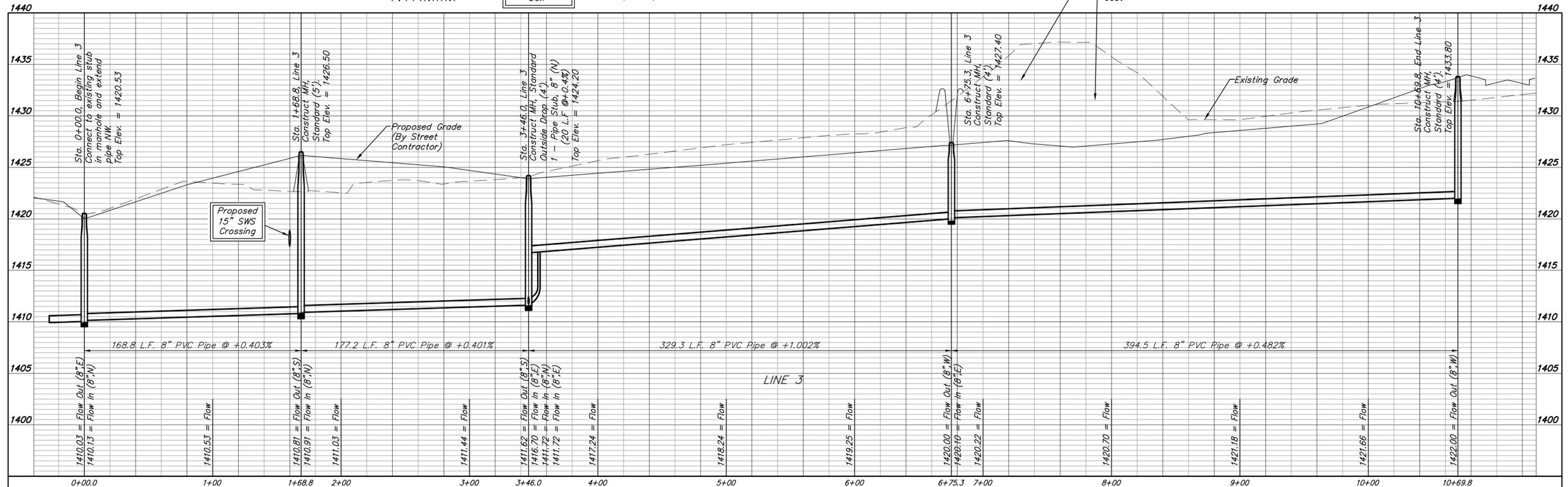
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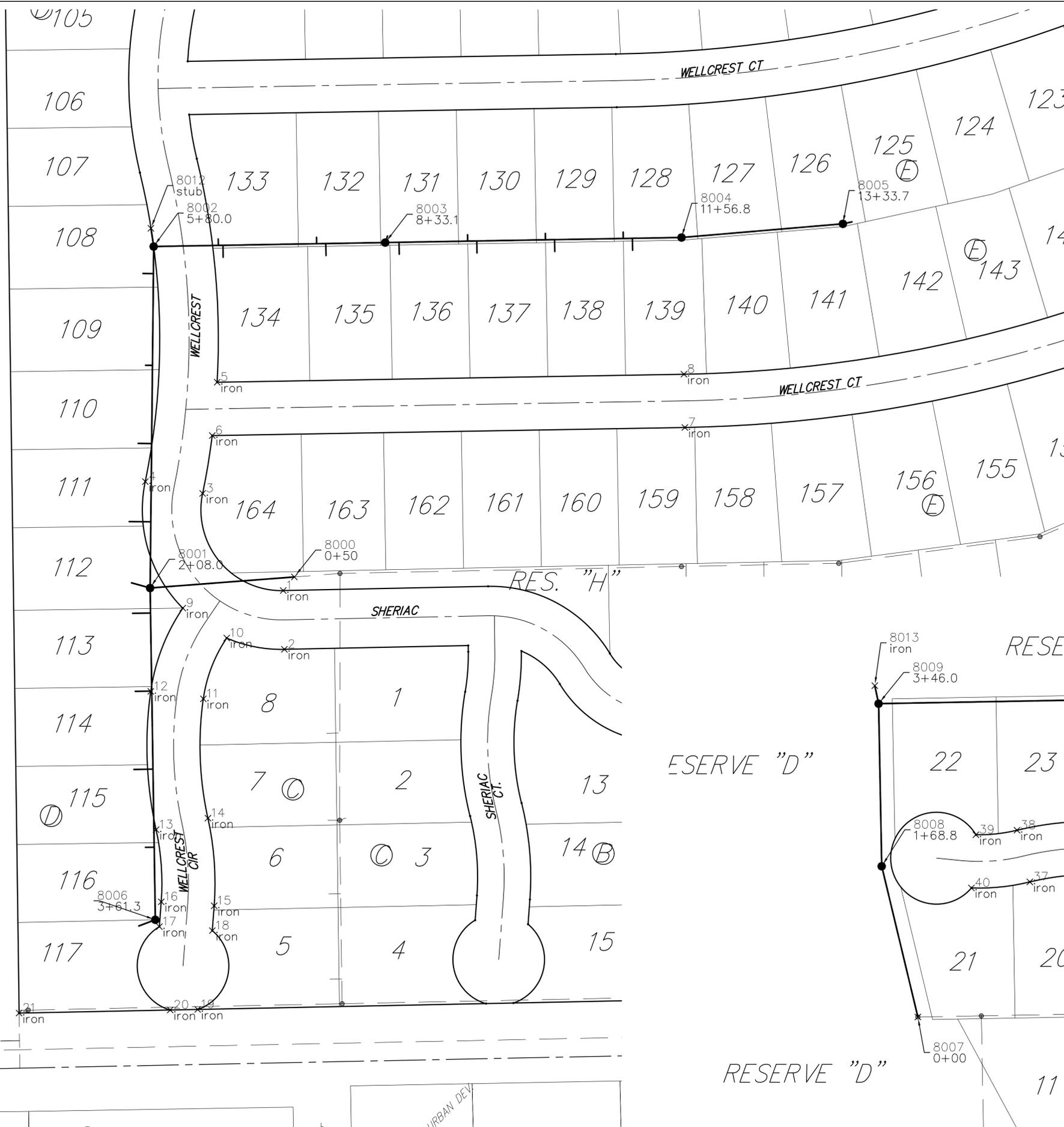


Contractor shall verify elevation and alignment of existing 8" pipe prior to construction and notify Engineer of any discrepancy.

\*Contact Every 3 weeks prior to construction to coordinate temporary removal/replacement if necessary. Heide Bryan, Every, 261-6354

Remove stockpile as necessary for construction. Contact developer for location to place stockpile material. Stockpile removal cost incidental to pipe cost

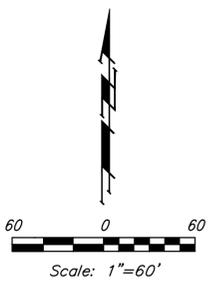




COORDS IRONS

Point Table			
Point #	Northing	Easting	Raw Description
1	1682778.71	1593229.16	iron
2	1682714.72	1593230.46	iron
3	1682884.46	1593141.19	iron
4	1682897.39	1593078.51	iron
5	1683005.60	1593157.02	iron
6	1682947.50	1593151.69	iron
7	1682956.29	1593667.94	iron
8	1683014.29	1593666.95	iron
9	1682759.59	1593119.52	iron
10	1682726.99	1593167.49	iron
11	1682660.76	1593141.92	iron
12	1682668.85	1593084.49	iron
13	1682518.25	1593090.31	iron
14	1682530.75	1593146.94	iron
15	1682435.36	1593153.75	iron
16	1682439.70	1593095.91	iron
17	1682412.62	1593093.88	iron
18	1682408.28	1593151.72	iron
19	1682322.45	1593135.72	iron
20	1682321.84	1593105.73	iron
21	1682318.49	1592940.64	iron
22	1683887.68	1595505.21	iron
23	1683886.69	1595441.22	iron
24	1683840.74	1595409.39	iron
25	1683780.48	1595430.94	iron
26	1683734.53	1595399.11	iron
27	1683675.54	1595336.02	iron
28	1683733.54	1595335.12	iron
29	1683733.13	1595311.93	iron
30	1683675.13	1595312.96	iron

Point Table			
Point #	Northing	Easting	Raw Description
31	1683679.00	1595256.53	iron
32	1683736.31	1595265.45	iron
33	1683675.02	1595152.79	iron
34	1683731.48	1595139.50	iron
35	1683729.05	1595003.69	iron
36	1683672.15	1594992.43	iron
37	1683669.33	1594874.58	iron
38	1683725.62	1594860.62	iron
39	1683720.63	1594815.69	iron
40	1683662.75	1594810.77	iron



COORDS SEWER

Point Table			
Point #	Northing	Easting	Raw Description
8000	1682793.49	1593241.34	0+50
8001	1682781.44	1593083.78	2+08.0
8002	1683153.44	1593087.68	5+80.0
8003	1683157.75	1593340.70	8+33.1
8004	1683163.26	1593664.31	11+56.8
8005	1683178.10	1593840.63	13+33.7
8006	1682420.16	1593089.43	3+61.3
8007	1683522.19	1594752.31	0+00
8008	1683686.35	1594712.80	1+68.8
8009	1683863.48	1594709.39	3+46.0
8010	1683869.31	1595038.66	6+75.3
8011	1683876.29	1595433.07	10+69.8
8012	1683173.20	1593084.64	stub
8013	1683883.05	1594705.26	iron



BAUGHMAN  
 SHEET  
 OF  
**15**  
 OF  
**16**

PIKE ADDITION - PH. II  
**COORDINATE SHEET**  
 SANITARY SEWER IMPROVEMENTS

**Baughman Company, P.A.**  
 REGISTERED PROFESSIONAL ENGINEER  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE  
 Justin Z. Grottel  
 License No. 17419  
 State of Pennsylvania  
 5/21/20