

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.

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

2. 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
 Evergy 1-800-544-4857

3. 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.

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. If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, Mike Armour at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibility.

9. All elevations shown are NAVD 88.

10. All areas disturbed during construction that will not be under proposed pavement shall be restored to match existing conditions.

11. City Maintenance of sanitary sewer mains ends at last structure within the easement or right-of-way.

12. All stubs and capped pipes shall be located with green plastic tape in the same manner as risers.

13. 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 connecting 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 to connecting to existing manholes is incidental to the project.

14. Contractor shall limit the extent of trench open overnight and weekends to less than 50 feet.

15. Contractor shall provide positive drainage away from all manhole covers.

16. The Contractor shall prevent any construction debris from entering the existing sanitary sewer during construction.

17. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractors proposed method for maintaining sewage flow shall be submitted and approved by the Sewer Maintenance Division (316-268-4073) prior to starting and by-passing of sewage flows.

18. Any over excavation from manhole and pipe removal shall be backfilled with AB-3 compacted to 90-95% ASTM D698.

19. The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractors expense.

SANITARY SEWER IMPROVEMENTS to serve TRINITY POINT 2ND ADDITION

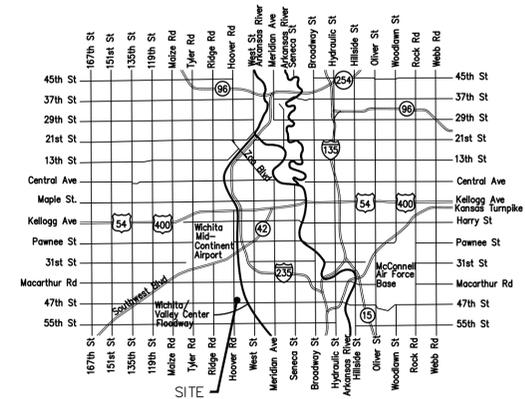
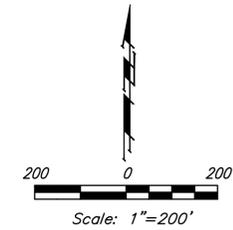
Lots 1 through 6, Block A; Lots 1 through 10, Block B; Lots 1 through 18, Block C
 Lots 1 through 55, Block D; Lots 1 through 29, Block E

CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer
 Project Number: 468-2021-011230
 Munis# E1139 -Org# 47266021

S. Lowe - City of Wichita, Field Project Engineer
 Stubs & Risers
 Release Date (for connection purposes only): 3/22/2023
 Completion Date:
 pdf: apr 3/22/2023

SS As-Built
 Contractor: Dondinger Construction
 Inspector: Shawn Strippling
 Superintendent: Brad Reichenberger
 SWI-03
 5142C



Vicinity Map

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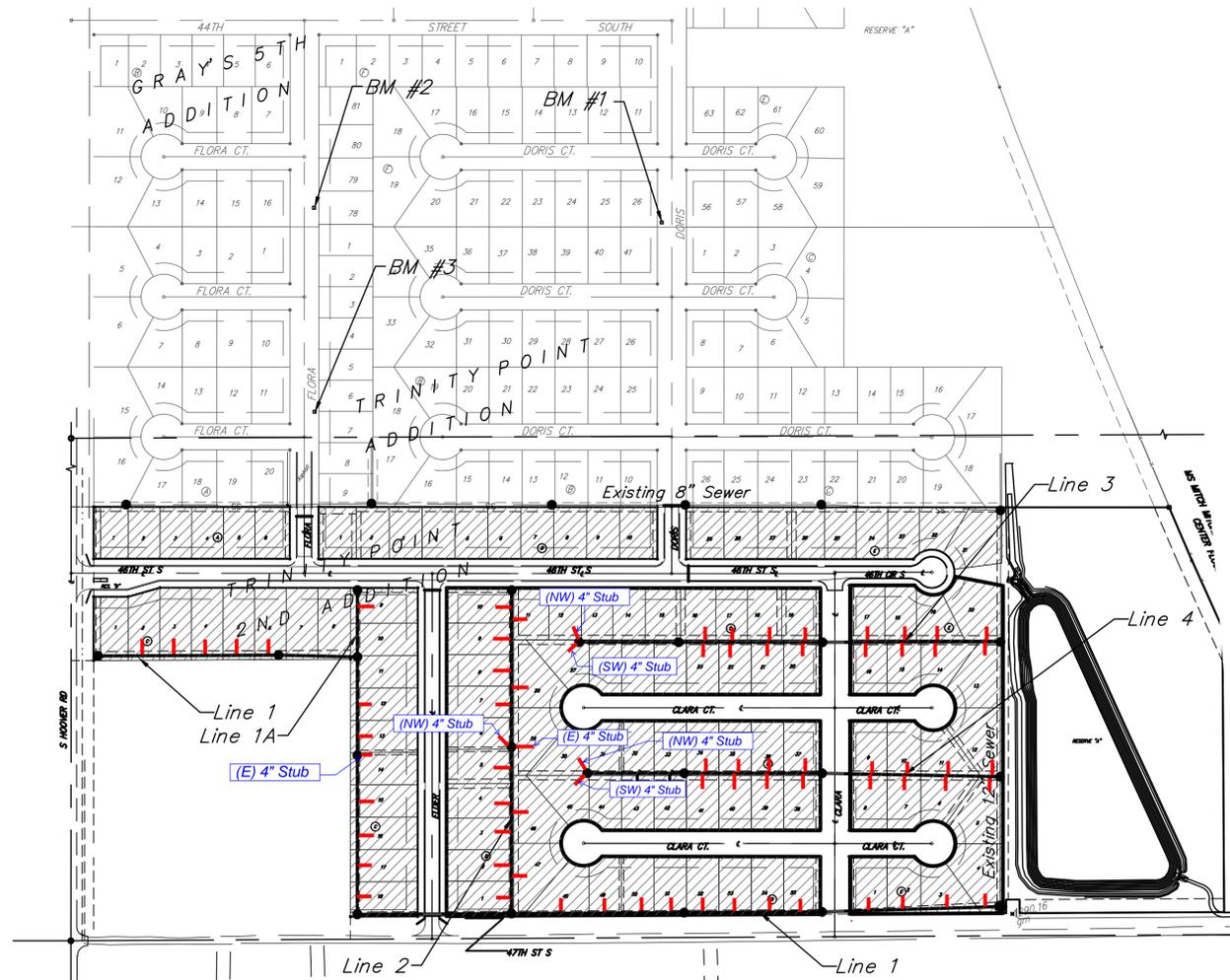
DEVELOPER:
 Michael Brand
 Brand Investments, LLC
 2418 S. Hoover Rd
 Wichita, KS 67215
 (316)945-3527

Benchmarks

BM #1: "□" Cut in face of curb inlet near SE corner of Lot 30, Block C, Gray's 5th Add.
 Elev. = 1297.86 NAVD88

BM #2: "□" Cut in top of curb on east side of Flora, ±10' north of south property line of Gray's 5th Add.
 Elev. = 1302.40 NAVD88

BM #3: "+" Cut in top of curb on east side of Flora, adjacent to common lot line of Lots 6&7, Block B, Trinity Point Add.
 Elev. = 1299.49 NAVD88



IMPROVEMENT LOCATION



September 2022



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



Construction Engineering Division
 1801 S. McLean Blvd., Suite B
 Wichita KS, 67213
 (316) 268-4027

Sanitary Sewer Riser Table

Project Name: SS Improvements to serve Trinity Point 2nd Addition
Project Location: north of 47th Street South, east of Hoover Road
Project No: 468-2021-011230
MUNIS No: E1139/47266021
Contractor: Dondlinger & Sons Construction Co., Inc.
Inspector: Shawn Stripling

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
1	1	0+32	9.4' RT	363'	32'	
2	1	1+18	7.7' RT	277'	118'	
3	1	2+14	5.8' RT	181'	214'	
4	1	2+92	4' RT	103'	292'	
5	1	4+43	5' RT	258'	48'	
6	1	5+11	5' RT	190'	116'	
7	1	5+89	5' RT	112'	194'	
8	1	6+60	5' RT	41'	265'	
9	1	7+30	5' RT	354'	29'	
10	1	7+95	5' RT	289'	94'	
11	1	8+78	5' RT	206'	177'	
12	1	9+75	5' RT	115'	274'	
13	1	14+65	5' RT	314'	39'	
14	1	15+35	5' RT	244'	109'	
15	1	16+00	5' RT	179'	174'	
16	1	16+75	5' RT	104'	249'	
17	1	17+79	5' RT	217'	353'	4" Stub E
18	1	18+20	5' RT	176'	41'	
19	1	18+90	5' RT	106'	111'	
20	1	21+93	5' RT	378'	197'	
21	1	22+63	5' RT	308'	267'	
22	1	23+33	5' RT	238'	162'	
23	1	24+03	5' RT	168'	232'	
24	1	24+73	5' RT	98'	302'	
25	1A	1+11	5' RT	37'	111'	
26	2	0+35	5' RT	334'	35'	
27	2	0+84	15' RT	285'	84'	
28	2	1+08	5' RT	261'	108'	
29	2	1+80	5' RT	189'	180'	
30	2	2+24	15' RT	145'	224'	
31	2	2+44	5' LT	125'	244'	
32	2	3+22	5' LT	47'	322'	
33	2	3+69	7' LT	347'	369'	4" Stub NW
34	2	3+69	15' RT	347'	369'	4" Stub E
35	2	4+63	5' LT	253'	94'	
36	2	5+00	15' RT	215'	131'	
37	2	5+38	5' LT	178'	169'	
38	2	6+08	5' LT	108'	239'	



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Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
39	2	6+50	15' RT	66'	281'	
40	2	6+78	5' LT	38'	309'	
41	3	0+30	14' RT	365'	30'	
42	3	0+35	6' LT	360'	35'	
43	3	1+40	14' RT	255'	140'	
44	3	1+45	6' LT	250'	145'	
45	3	2+13	14.5 RT	182'	213'	
46	3	2+18	5.5' LT	177'	218'	
47	3	2+95	15' RT	100'	295'	
48	3	3+00	5' LT	95'	300'	
49	3	4+33	15' RT	281'	38'	
50	3	4+38	5' LT	276'	43'	
51	3	5+12	15' RT	202'	117'	
52	3	5+17	5' LT	197'	122'	
53	3	5+95	15' RT	119'	200'	
54	3	6+00	5' LT	114'	205'	
55	3	6+55	15' RT	59'	265'	
56	3	6+60	5' LT	54'	270'	
57	3	9+35	16' RT	0'	221'	4" Stub NW
58	3	9+35	7' LT	0'	221'	4" Stub SW
59	4	0+17	12' RT	378'	17'	
60	4	0+22	8' LT	373'	22'	
61	4	1+15	10' RT	289'	115'	
62	4	1+20	10' LT	275'	120'	
63	4	2+07	8' RT	188'	207'	
64	4	2+12	12' LT	183'	212'	
65	4	2+83	7' RT	112'	283'	
66	4	2+88	13' LT	107'	288'	
67	4	4+33	5' RT	483'	38'	
68	4	4+38	15' LT	478'	43'	
69	4	5+12	5' RT	404'	117'	
70	4	5+17	15' LT	399'	122'	
71	4	5+85	5' RT	331'	190'	
72	4	5+90	15' LT	326'	195'	
73	4	6+55	5' RT	261'	260'	
74	4	6+60	15' LT	256'	265'	
75	4	9+16	7' RT	0'	225'	4" Stub NW
76	4	9+16	21' LT	0'	225'	4" Stub SW

BENCHMARKS:
 BM #1: "□" Cut in face of curb near SE corner of Lot 30, Block Gray's 5th Add. Elev. = 1302.40 NAVD88
 BM #2: "□" Cut in top of curb east side of Flora, ±10' north of property line of Gray's 5th Add. Elev. = 1297.86 NAVD88
 BM #3: "x" Cut in top of curb east side of Flora, adjacent to common lot line of Lots 6&7, Block B, Trinity Point Add. Elev. = 1299.49 NAVD88

SEWER SERVICE TABLE

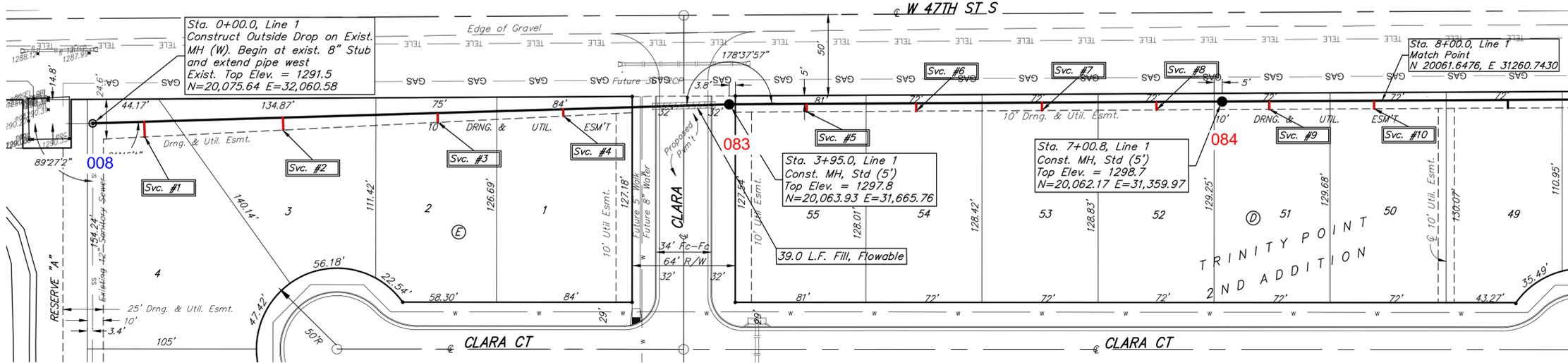
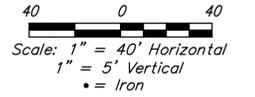
Distance from Main to Riser (Lt./Rt.)	Distance from		NUMBER	TYPE	LOT NO.	BLOCK	LINE NO.	STATION/ DIRECTION	FLOWLINE 8" PIPE	FLOWLINE 4" PIPE	FOR INFORMATION ONLY APPROXIMATE LENGTH OF 4" PIPE	
	Upstream MH	Downstream MH									VERTICAL	HORIZONTAL
9' Rt.	363'	32'	1	4" Vertical Riser Assy'	4	E	1	0+32.0 / Rt.	1279.55	1279.90	9.8'	9.4' 9'
8' Rt.	277'	118'	2	4" Vertical Riser Assy'	3	E	1	1+18.0 / Rt.	1279.89	1280.21	10.6'	7.7' 8'
6' Rt.	181'	214'	3	4" Vertical Riser Assy'	2	E	1	2+14.0 / Rt.	1280.28	1280.56	11.4'	5.8' 6'
4' Rt.	103'	292'	4	4" Vertical Riser Assy'	1	E	1	2+92.0 / Rt.	1280.59	1280.84	12.2'	4.2'
5' Rt.	258'	48'	5	4" Vertical Riser Assy'	55	D	1	4+43.0 / Rt.	1281.29	1281.56	12.0'	5.0'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.

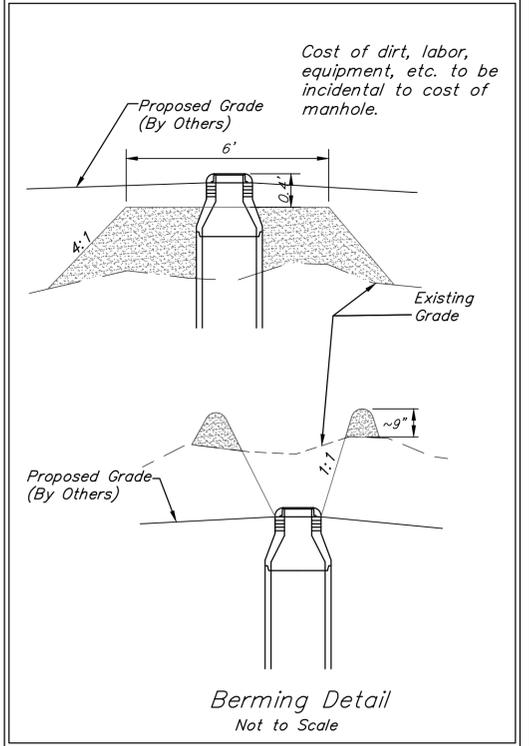
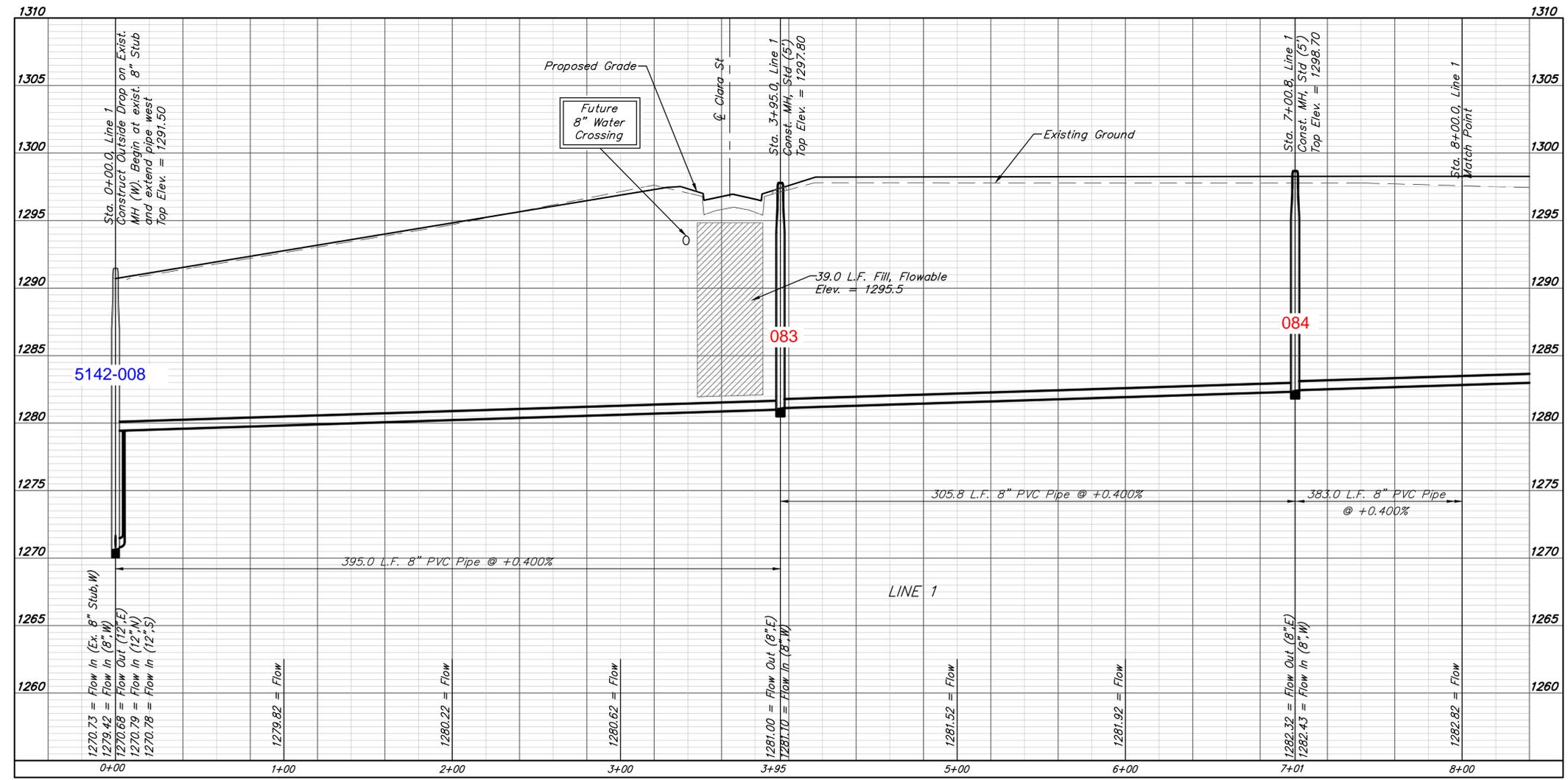
SEWER SERVICE TABLE

Distance from Main to Riser (Lt./Rt.)	Distance from		NUMBER	TYPE	LOT NO.	BLOCK	LINE NO.	STATION/ DIRECTION	FLOWLINE 8" PIPE	FLOWLINE 4" PIPE	FOR INFORMATION ONLY APPROXIMATE LENGTH OF 4" PIPE	
	Upstream MH	Downstream MH									VERTICAL	HORIZONTAL
5' Rt.	190'	116'	6	4" Vertical Riser Assy'	54	D	1	5+11.0 / Rt.	1281.56	1281.83	11.9'	5.0'
5' Rt.	112'	194'	7	4" Vertical Riser Assy'	53	D	1	5+89.0 / Rt.	1281.87	1282.14	11.6'	5.0'
5' Rt.	41'	265'	8	4" Vertical Riser Assy'	52	D	1	6+60.0 / Rt.	1282.16	1282.42	11.3'	5.0'
5' Rt.	354'	29'	9	4" Vertical Riser Assy'	51	D	1	7+30.0 / Rt.	1282.54	1282.80	10.9'	5.0'
5' Rt.	289'	94'	10	4" Vertical Riser Assy'	50	D	1	7+95.0 / Rt.	1282.80	1283.06	10.6'	5.0'

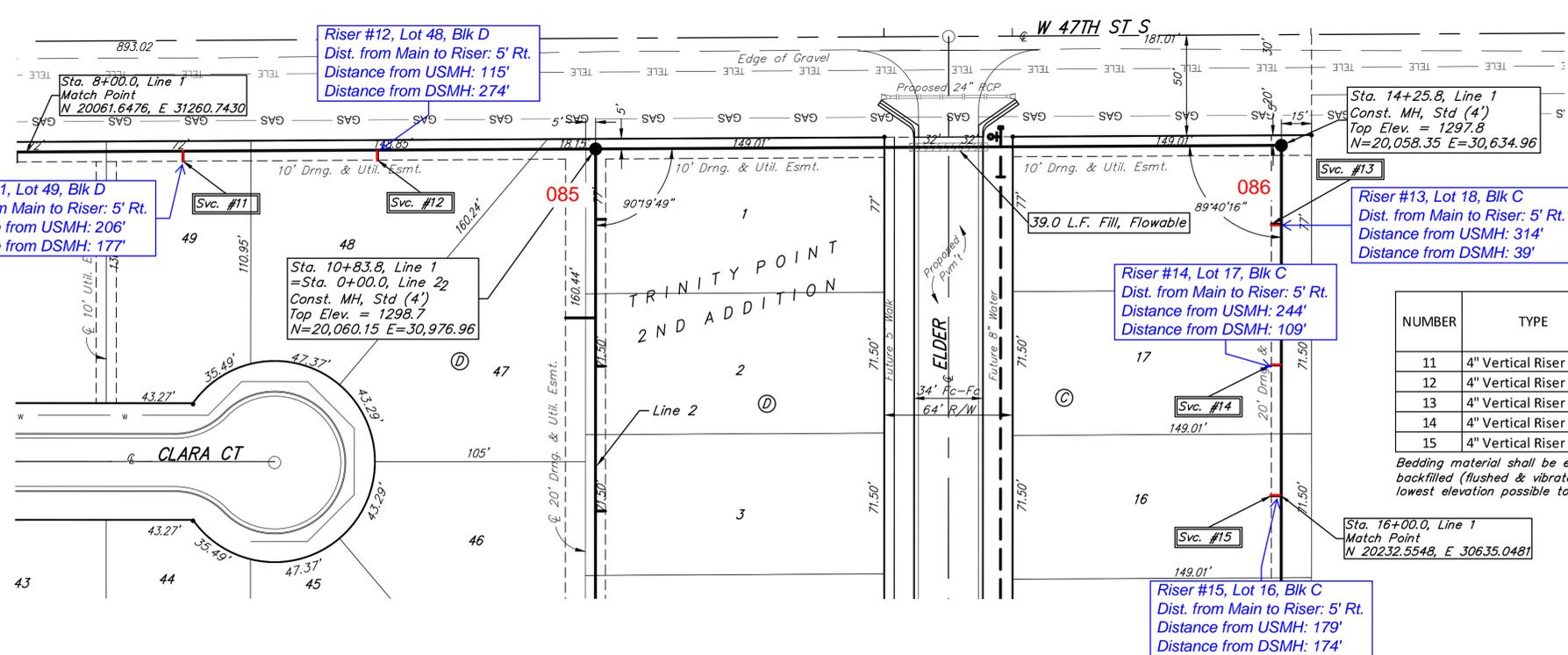
Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.



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



BENCHMARKS:
 BM #1: "□" Cut in face of curb inlet near SE corner of Lot 30, Block C, Gray's 5th Add. Elev. = 1297.86 NAVD88
 BM #2: "□" Cut in top of curb on east side of Flora, ±10' north of south property line of Gray's 5th Add. Elev. = 1302.40 NAVD88
 BM #3: "+" Cut in top of curb on east side of Flora, adjacent to lot line of Lots 6&7, Block B, Trinity Point 2nd Addition. Point Add. Elev. = 1299.49 NAVD88

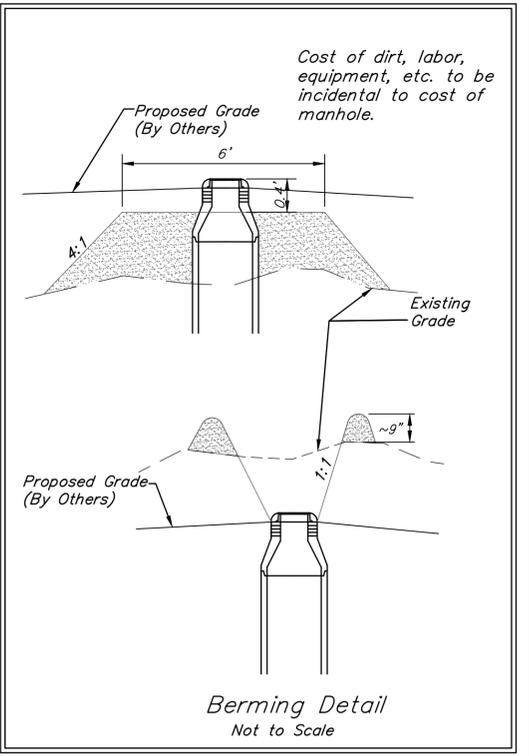
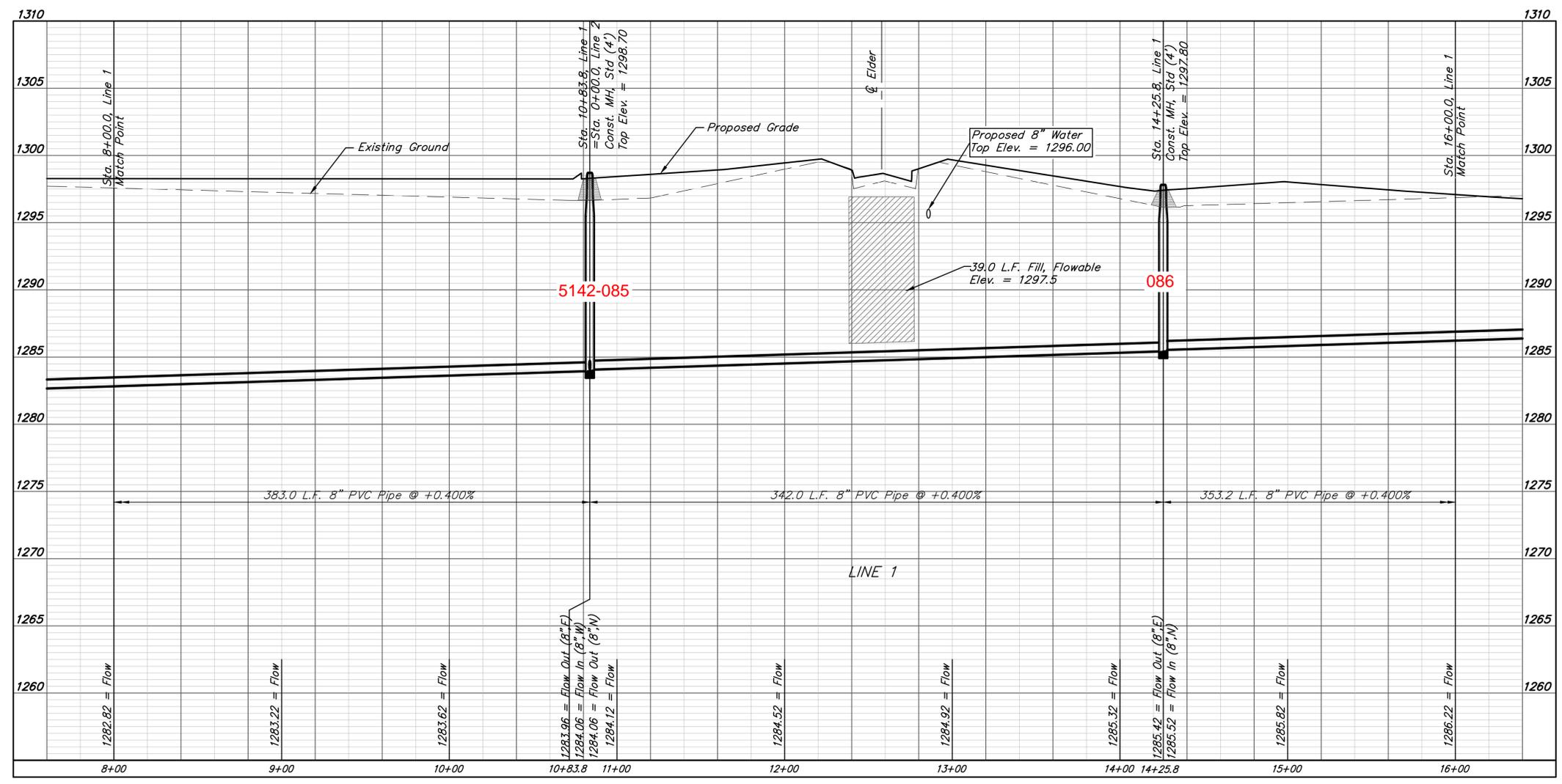
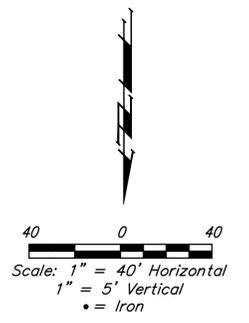


SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK	LINE NO.	STATION/DIRECTION	FLOWLINE		FOR INFORMATION ONLY	
						8" PIPE	4" PIPE	APPROXIMATE LENGTH OF 4" PIPE	
								VERTICAL	HORIZONTAL
11	4" Vertical Riser Assy'	49	D	1	8+78.0 / Rt.	1283.13	1283.40	10.3'	5.0'
12	4" Vertical Riser Assy'	48	D	1	9+75.0 / Rt.	1283.52	1283.79	9.9'	5.0'
13	4" Vertical Riser Assy'	18	C	1	14+65.0 / Rt.	1285.68	1285.94	7.8'	5.0'
14	4" Vertical Riser Assy'	17	C	1	15+35.0 / Rt.	1285.96	1286.22	7.4'	5.0'
15	4" Vertical Riser Assy'	16	C	1	16+00.0 / Rt.	1286.22	1286.49	6.6'	5.0'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.

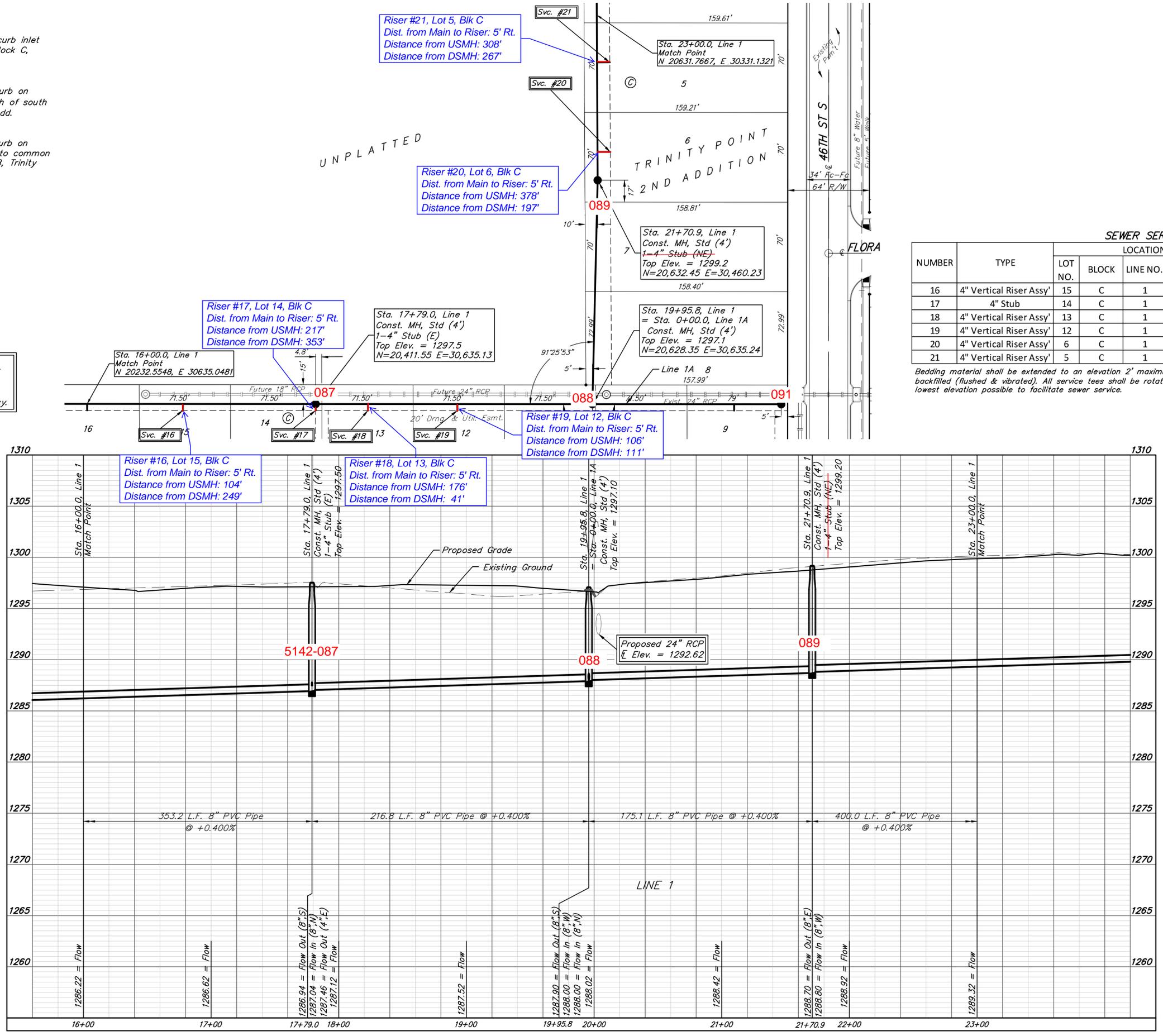
Contractor shall verify elevation and alignment of existing 8" stub prior to construction and notify Engineer of any discrepancy.



BRENT WOOLEN
 LICENSED PROFESSIONAL ENGINEER
 No. 8470
 09/08/2022
 KANSAS PROFESSIONAL ENGINEER

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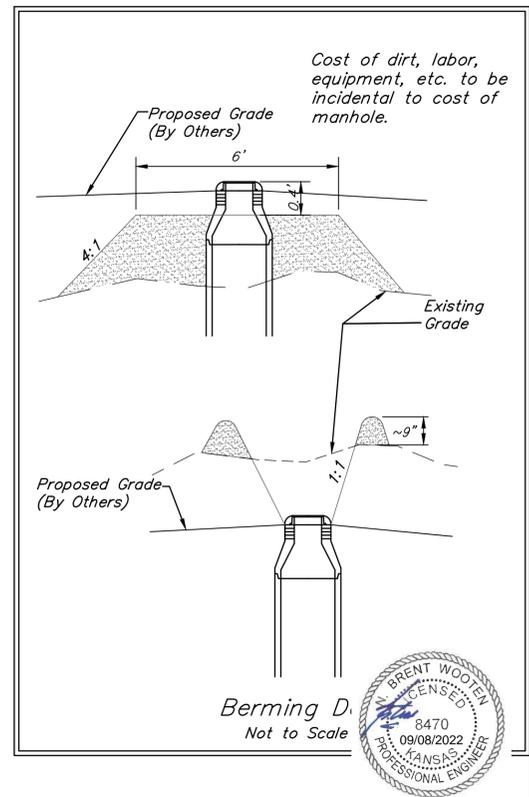
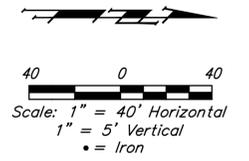
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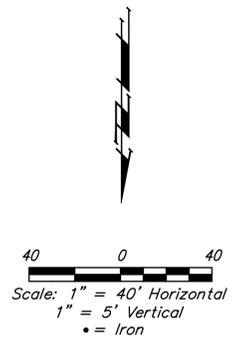
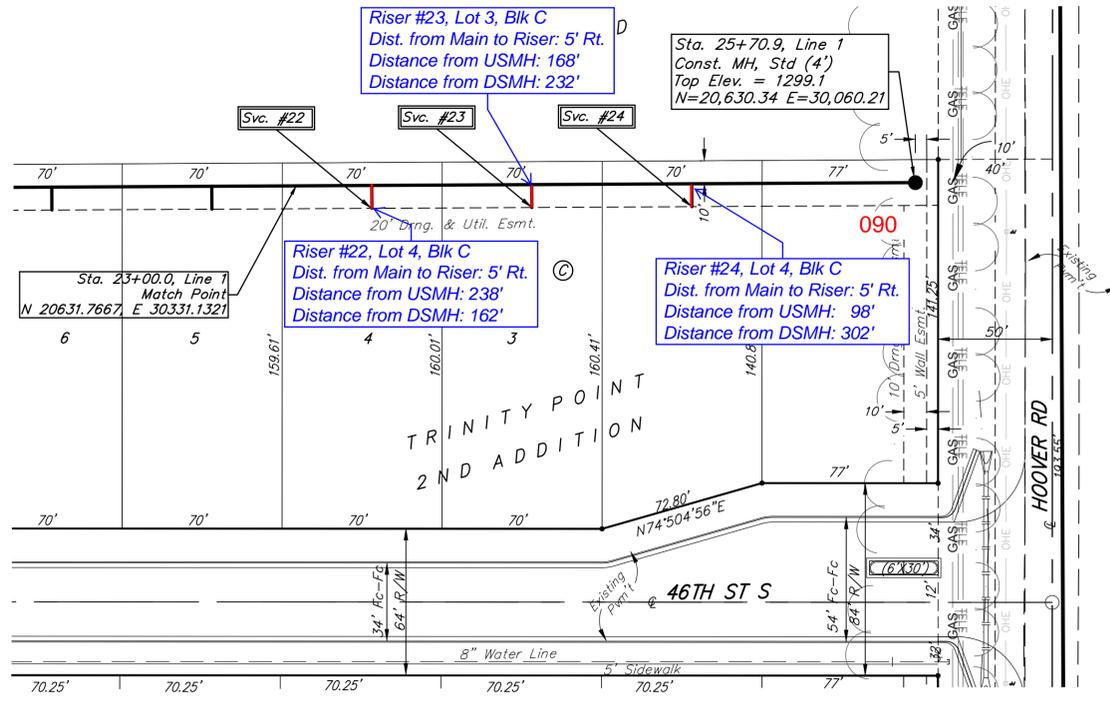
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FLOWLINE	FOR INFORMATION ONLY			
		LOT NO.	BLOCK	LINE NO.		STATION/DIRECTION	APPROXIMATE LENGTH OF 4" PIPE		
							8" PIPE	4" PIPE	VERTICAL
16	4" Vertical Riser Assy'	15	C	1	16+75.0 / Rt.	1286.52	1286.79	6.2'	5.0'
17	4" Stub	14	C	1	17+79.0 / Rt.	1287.04	1287.47	5.6'	5.0'
18	4" Vertical Riser Assy'	13	C	1	18+20.0 / Rt.	1287.20	1287.63	5.7'	5.0'
19	4" Vertical Riser Assy'	12	C	1	18+90.0 / Rt.	1287.49	1287.92	5.8'	5.0'
20	4" Vertical Riser Assy'	6	C	1	21+93.0 / Rt.	1288.89	1289.32	5.0'	5.0'
21	4" Vertical Riser Assy'	5	C	1	22+63.0 / Rt.	1289.17	1289.60	5.4'	5.0'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.



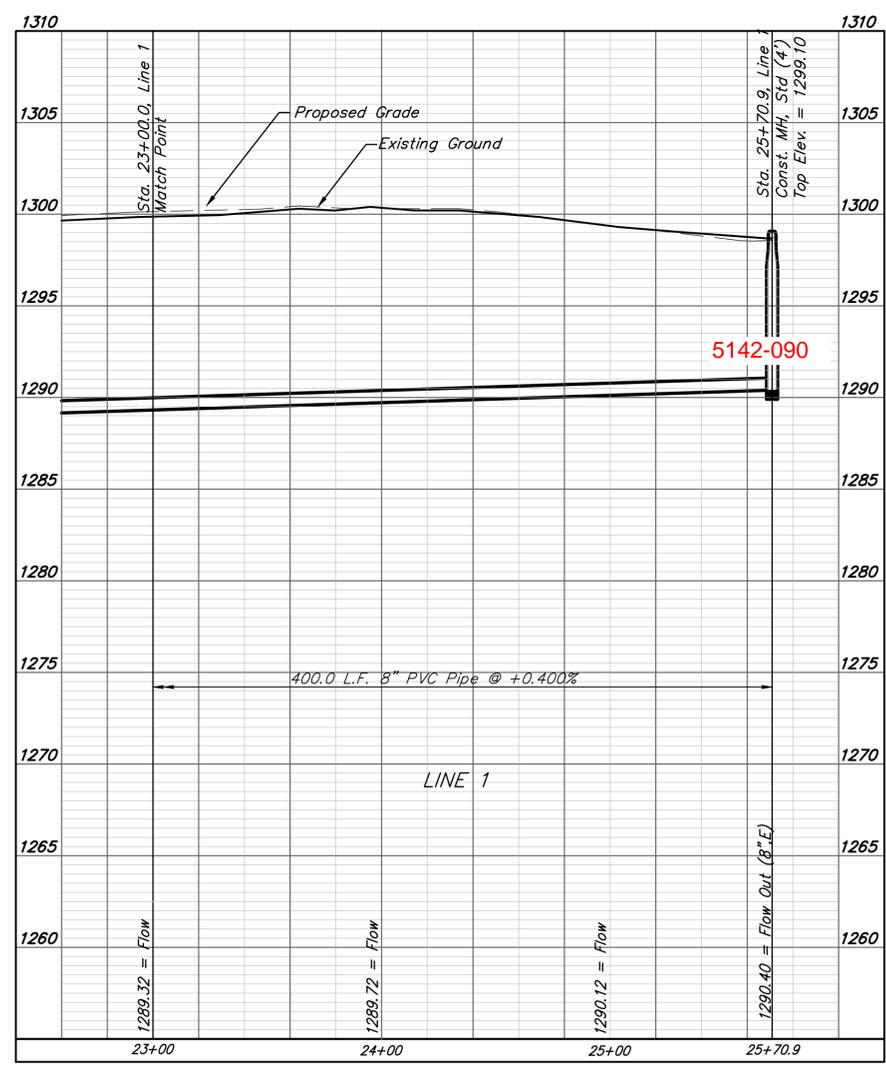
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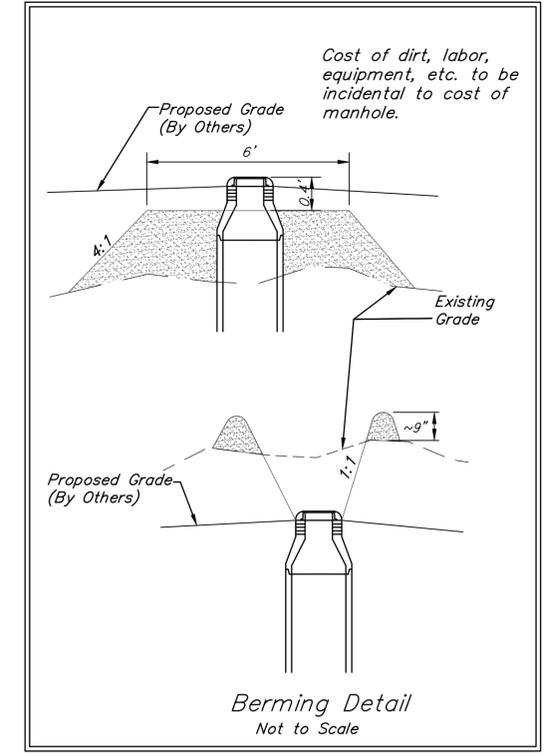
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			STATION/DIRECTION	FLOWLINE		FOR INFORMATION ONLY	
		LOT NO.	BLOCK	LINE NO.		8" PIPE	4" PIPE	APPROXIMATE LENGTH OF 4" PIPE	
							VERTICAL	HORIZONTAL	
22	4" Vertical Riser Assy'	4	C	1	23+33.0 / Rt.	1289.45	1289.88	5.8'	5.0'
23	4" Vertical Riser Assy'	3	C	1	24+03.0 / Rt.	1289.73	1290.16	6.2'	5.0'
24	4" Vertical Riser Assy'	2	C	1	24+73.0 / Rt.	1290.01	1290.44	5.2'	5.0'

Bedding material shall be extended to an elevation 2" maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.



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



SEWER SERVICE TABLE

Distance from Main to Riser (Lt./Rt.)	Distance from		NUMBER	TYPE	LOT NO.	BLOCK	LOCATION		FLOWLINE		FOR INFORMATION ONLY	
	Upstream MH	Downstream MH					LINE NO.	STATION/DIRECTION	8" PIPE	4" PIPE	APPROXIMATE LENGTH OF 4" PIPE	
										VERTICAL	HORIZONTAL	
5' Rt.	37'	111'	25	4" Vertical Riser Assy'	9	C	1A	1+11.0 / Rt.	1288.45	1288.88	7.4'	5.0'
5' Rt.	334'	35'	26	4" Vertical Riser Assy'	1	D	2	0+35.0 / Lt	1284.20	1284.47	9.1'	5.0'
5' Rt.	285'	84'	27	4" Vertical Riser Assy'	47	D	2	0+84.0 / Rt	1284.40	1284.86	8.2'	15.0'
5' Rt.	261'	108'	28	4" Vertical Riser Assy'	2	D	2	1+08.0 / Lt	1284.49	1284.76	8.1'	5.0'
5' Rt.	189'	180'	29	4" Vertical Riser Assy'	3	D	2	1+80.0 / Lt	1284.78	1285.05	8.5'	5.0'
15' Lt.	145'	224'	30	4" Vertical Riser Assy'	46	D	2	2+24.0 / Rt.	1284.96	1285.22	7.4'	5.0' 15'
5' Lt.	125'	244'	31	4" Vertical Riser Assy'	4	D	2	2+44.0 / Lt	1285.04	1285.30	7.8'	5.0'
5' Lt.	47'	322'	32	4" Vertical Riser Assy'	5	D	2	3+22.0 / Lt	1285.35	1285.62	7.2'	5.0'

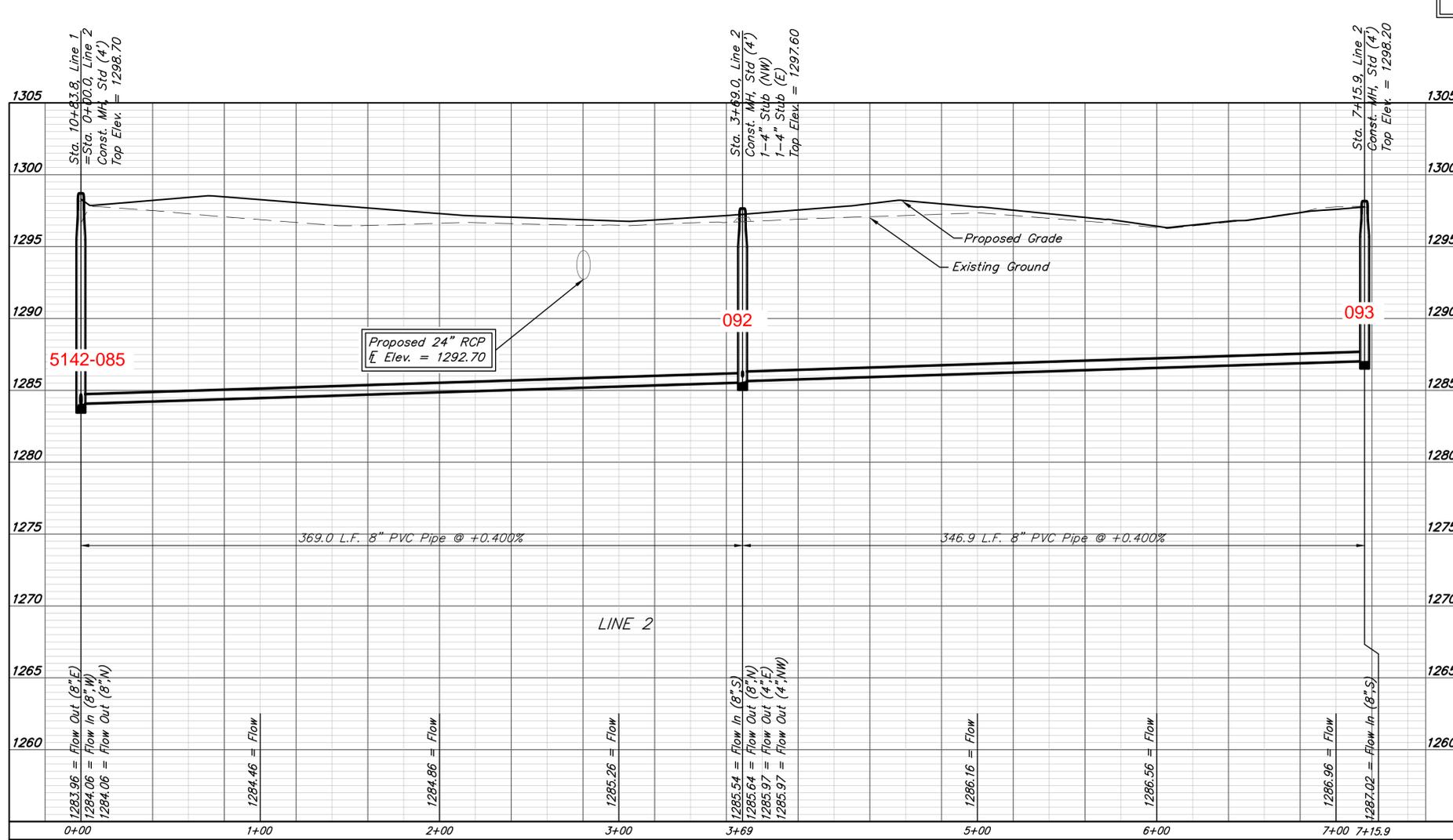
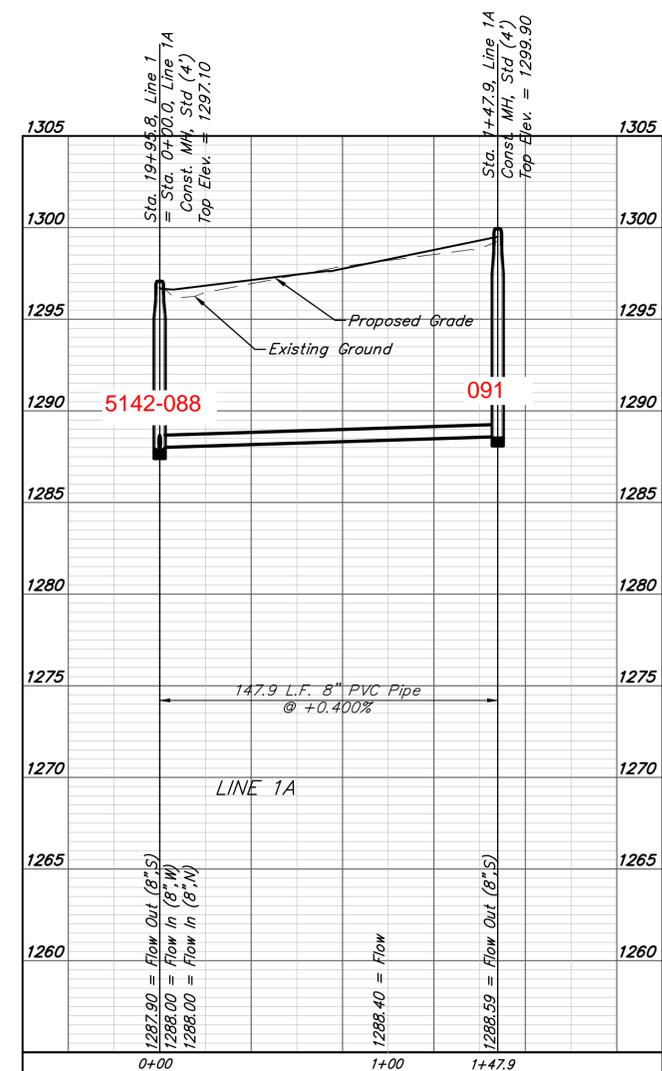
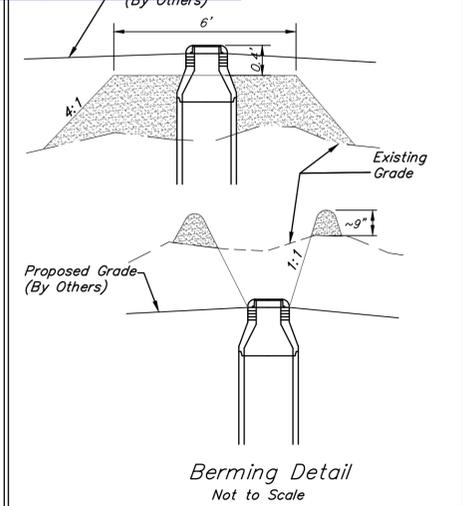
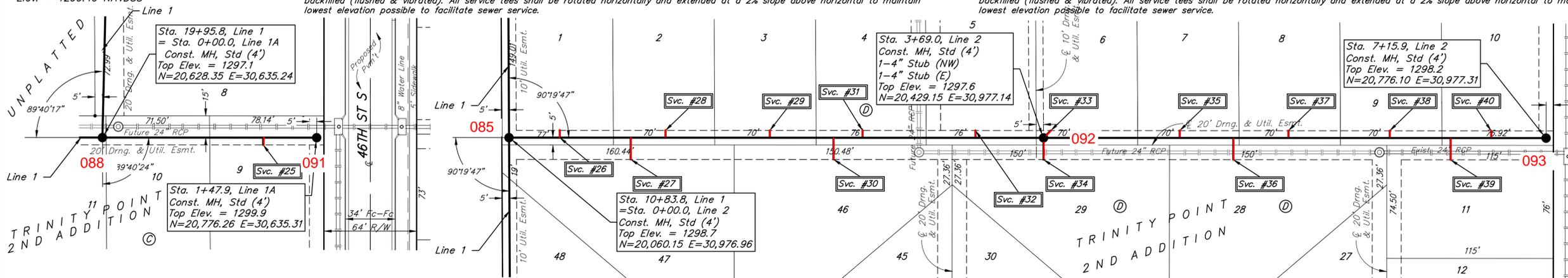
BENCHMARKS:
 BM #1: "□" Cut in near SE corner of L Gray's 5th Add. Elev. = 1297.86 NAVD88
 BM #2: "□" Cut in east side of Flora, property line of Gray Elev. = 1302.40 NAVD88
 BM #3: "+" Cut in east side of Flora, a lot line of Lots 6&7, Point Add. Elev. = 1299.49 NAVD88

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.

SEWER SERVICE TABLE

Distance from Main to Riser (Lt./Rt.)	Distance from		NUMBER	TYPE	LOT NO.	BLOCK	LOCATION		FLOWLINE		FOR INFORMATION ONLY		Distance from Main to Riser (Lt./Rt.)	Distance from	
	Upstream MH	Downstream MH					LINE NO.	STATION/DIRECTION	8" PIPE	4" PIPE	APPROXIMATE LENGTH OF 4" PIPE			Upstream MH	Downstream MH
										VERTICAL	HORIZONTAL				
7' Lt.	347'	369'	33	4" Stub	6	D	2	3+69.0 / Lt	1285.54	1285.85	7.5'	7.1'	7' Lt.	347'	369'
15' Rt.	347'	369'	34	4" Stub	29	D	2	3+69.0 / Rt.	1285.54	1286.01	7.3'	15.0'	15' Rt.	347'	369'
5' Lt.	253'	94'	35	4" Vertical Riser Assy'	7	D	2	4+63.0 / Lt	1286.02	1286.28	6.9'	5.0'	5' Lt.	253'	94'
15' Rt.	215'	131'	36	4" Vertical Riser Assy'	28	D	2	5+00.0 / Rt.	1286.17	1286.63	7.1'	15.0'	15' Rt.	215'	131'
5' Lt.	178'	169'	37	4" Vertical Riser Assy'	8	D	2	5+38.0 / Lt	1286.32	1286.58	6.5'	5.0'	5' Lt.	178'	169'
5' Lt.	108'	239'	38	4" Vertical Riser Assy'	9	D	2	6+08.0 / Lt	1286.60	1286.86	5.5'	5.0'	5' Lt.	108'	239'
15' Rt.	66'	281'	39	4" Vertical Riser Assy'	11	D	2	6+50.0 / Rt.	1286.77	1287.23	5.8'	15.0'	15' Rt.	66'	281'
5' Lt.	38'	309'	40	4" Vertical Riser Assy'	10	D	2	6+78.0 / Lt.	1286.88	1287.14	8.6'	5.0'	5' Lt.	38'	309'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.



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



BENCHMARKS:

BM #1: "□" Cu near SE corner Gray's 5th Add. Elev. = 1297.86
 BM #2: "□" Cu east side of Fla property line of Elev. = 1302.40
 BM #3: "+ " Cu east side of Fla lot line of Lots Point Add. Elev. = 1299.49 NAVD88

SEWER SERVICE TABLE

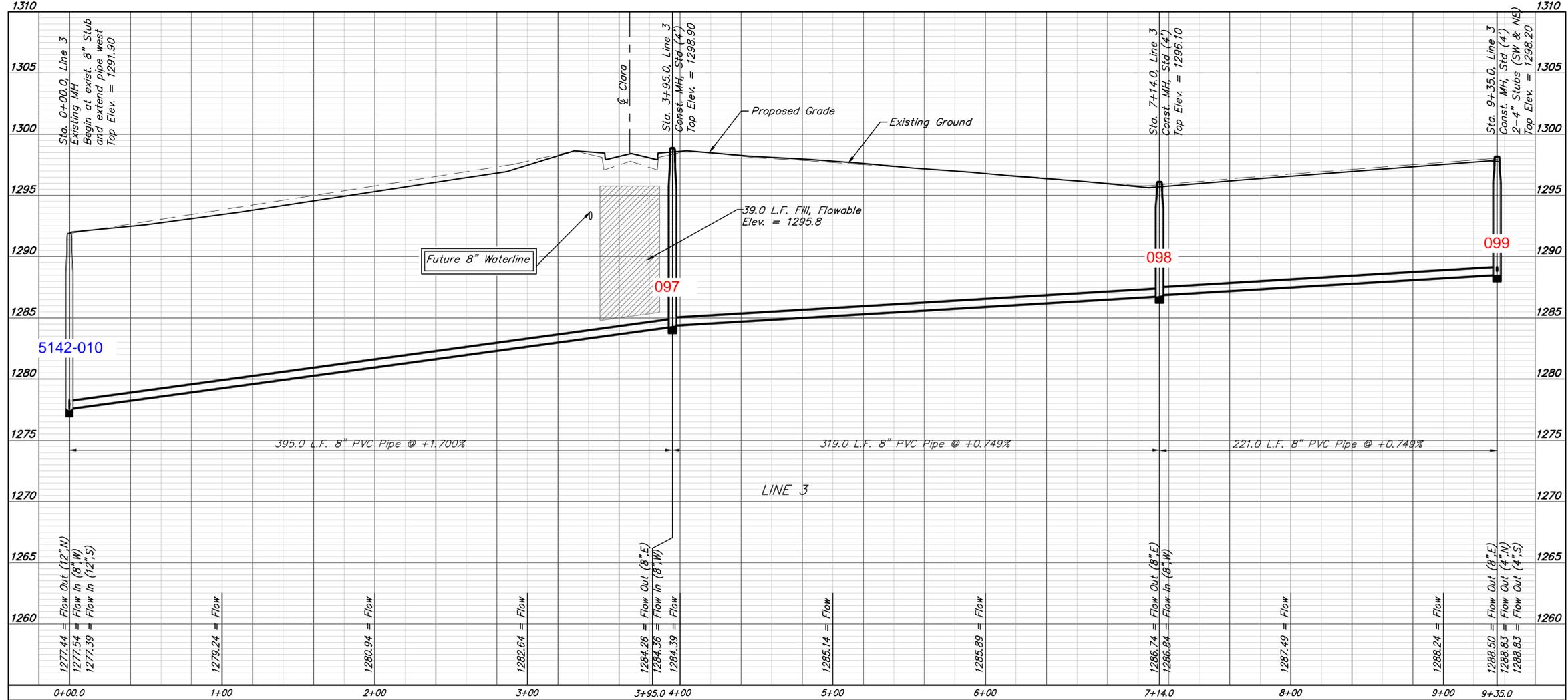
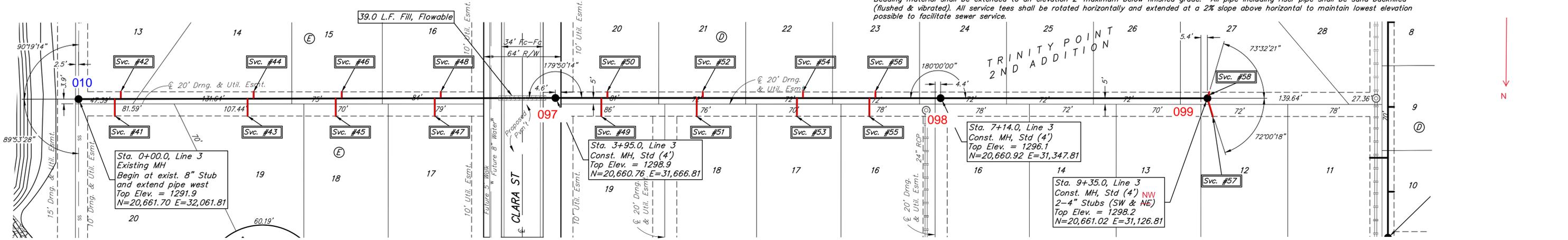
NUMBER	TYPE	Distance from		LOT NO.	BLOCK	LINE NO.	STATION/DIRECTION	FLOWLINE		FOR INFORMATION ONLY	
		Upstream MH	Downstream MH					8" PIPE	4" PIPE	APPROXIMATE LENGTH OF 4" PIPE	VERTICAL
41	4" Vertical Riser Assy'	14' Rt.	30'	20	E	3	0+30.0 / Rt.	1278.05	1278.50	9.9'	14.0'
42	4" Vertical Riser Assy'	6' Lt.	35'	13	E	3	0+35.0 / Lt.	1278.14	1278.42	10.1'	6.0'
43	4" Vertical Riser Assy'	14' Rt.	140'	19	E	3	1+40.0 / Rt.	1279.92	1280.37	9.9'	14.3'
44	4" Vertical Riser Assy'	6' Lt.	145'	14	E	3	1+45.0 / Lt.	1280.01	1280.29	10.3'	5.7' 6'
45	4" Vertical Riser Assy'	15' Rt.	213'	18	E	3	2+13.0 / Rt.	1281.16	1281.62	10.0'	14.5' 15'
46	4" Vertical Riser Assy'	6' Lt.	218'	15	E	3	2+18.0 / Lt.	1281.25	1281.52	10.5'	5.5' 6'
47	4" Vertical Riser Assy'	15' Rt.	295'	17	E	3	2+95.0 / Rt.	1282.56	1283.02	10.0'	14.7' 15'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.

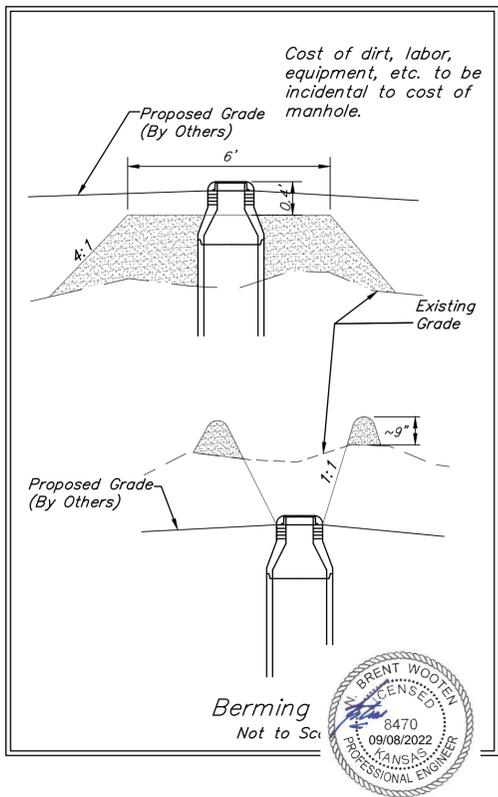
SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK	LINE NO.	STATION/DIRECTION	FLOWLINE		FOR INFORMATION ONLY		Distance from Main to Riser (L/R)	Distance from	
						8" PIPE	4" PIPE	APPROXIMATE LENGTH OF 4" PIPE	VERTICAL		HORIZONTAL	Upstream MH
48	4" Vertical Riser Assy'	16	E	3	3+00.0 / Lt.	1282.64	1282.91	10.6'	5.3'	5' Lt.	95'	300'
49	4" Vertical Riser Assy'	19	D	3	4+33.0 / Rt.	1284.64	1285.11	13.1'	15.0'	15' Rt.	281'	38'
50	4" Vertical Riser Assy'	20	D	3	4+38.0 / Lt.	1284.68	1284.95	12.9'	5.0'	5' Lt.	276'	43'
51	4" Vertical Riser Assy'	18	D	3	5+12.0 / Rt.	1285.23	1285.70	7.9'	15.0'	15' Rt.	202'	117'
52	4" Vertical Riser Assy'	21	D	3	5+17.0 / Lt.	1284.30	1284.56	8.6'	5.0'	5' Lt.	197'	122'
53	4" Vertical Riser Assy'	21	D	3	5+95.0 / Lt. RT	1284.94	1285.21	7.6'	15' 5.0'	15' Rt.	119'	200'
54	4" Vertical Riser Assy'	21	D	3	6+00.0 / Lt.	1284.68	1284.95	7.5'	5.0'	5' Lt.	114'	205'
55	4" Vertical Riser Assy'	21	D	3	6+55.0 / Lt. RT	1285.09	1285.36	6.9'	15' 5.0'	15' Rt.	59'	265'
56	4" Vertical Riser Assy'	21	D	3	6+60.0 / Lt.	1285.27	1285.54	6.4'	5.0'	5' Lt.	54'	270'
57	4" Stub	12	D	3	9+35.0 / Rt.	1288.49	1289.13	4.9'	15.6' 16'	16' Rt.	@ mh	221'
58	4" Stub	27	D	3	9+35.0 / Lt.	1288.49	1289.13	4.9'	7' 15.3'	7' Lt.	@ mh	221'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.



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



SEWER SERVICE TABLE

Distance from Main to Riser (L/Rt.)	Distance from		NUMBER	TYPE	LOT NO.	BLOCK	LINE NO.	STATION/ DIRECTION	FLOWLINE		FOR INFORMATION ONLY		Distance from Main to Riser (L/Rt.)	Distance from	
	Upstream MH	Downstream MH							8" PIPE	4" PIPE	VERTICAL	HORIZONTAL		Upstream MH	Downstream MH
12' Lt.	378'	17'	59	4" Vertical Riser Assy'	12	E	4	0+17.0 / Rt.	1276.92	1277.32	10.5'	12.0'	15' Lt.	478'	43'
8' Lt.	373'	22'	60	4" Vertical Riser Assy'	5	E	4	0+22.0 / Lt.	1277.00	1277.33	10.4'	8.1'	5' Rt.	404'	117'
10' Rt.	289'	115'	61	4" Vertical Riser Assy'	11	E	4	1+15.0 / Rt.	1278.63	1278.99	9.5'	10.0'	15' Lt.	399'	122'
10' Lt.	275'	120'	62	4" Vertical Riser Assy'	6	E	4	1+20.0 / Lt.	1278.72	1279.08	9.4'	9.9'	5' Rt.	331'	190'
8' Rt.	188'	207'	63	4" Vertical Riser Assy'	10	E	4	2+07.0 / Rt.	1280.24	1280.57	9.6'	8.4'	15' Lt.	326'	195'
12' Lt.	183'	212'	64	4" Vertical Riser Assy'	7	E	4	2+12.0 / Lt.	1280.32	1280.72	9.5'	11.6'	5' Rt.	261'	260'
7' Rt.	112'	283'	65	4" Vertical Riser Assy'	9	E	4	2+83.0 / Rt.	1281.56	1281.87	9.7'	7.0'	15' Lt.	256'	265'
13' Lt.	107'	288'	66	4" Vertical Riser Assy'	8	E	4	2+88.0 / Lt.	1281.65	1282.08	9.4'	13.0'	7' Rt.	@ mh	225'
5' Rt.	483'	38'	67	4" Vertical Riser Assy'	37	D	4	4+33.0 / Rt.	1284.18	1284.45	7.7'	5.0'	21' Lt.	@ mh	225'

BENCHMARKS:

BM #1: "□" Cut in near SE corner of Gray's 5th Add. Elev. = 1297.86 N

BM #2: "□" Cut in east side of Flora, property line of Gr. Elev. = 1302.40 N

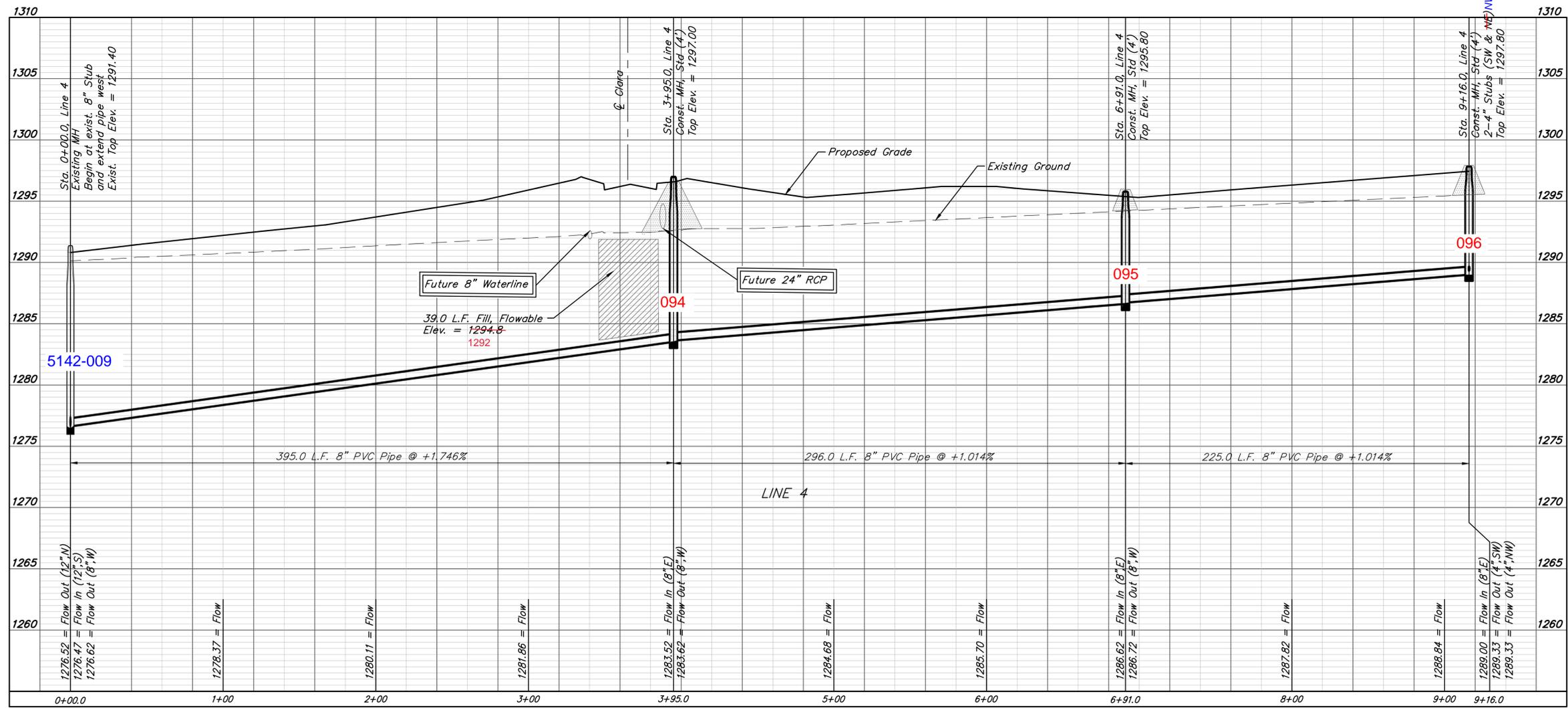
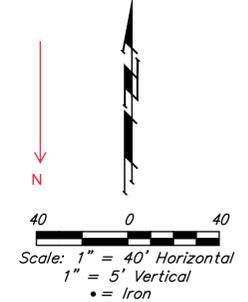
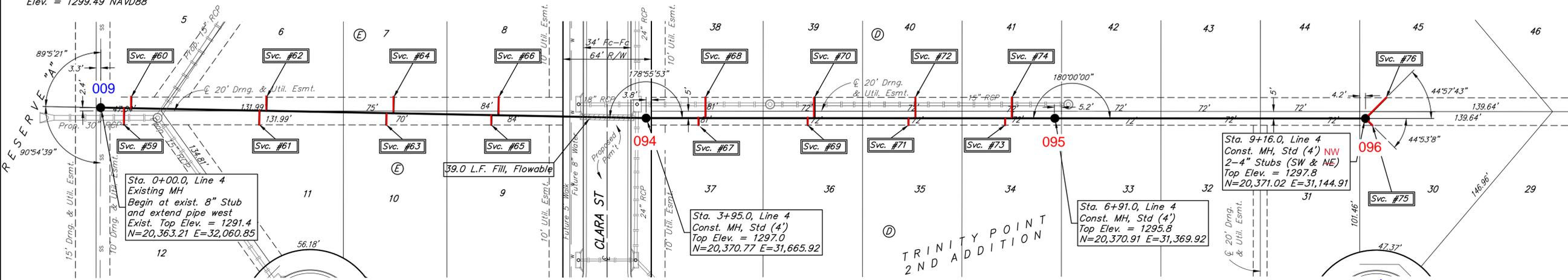
BM #3: "+" Cut in east side of Flora, adjacent to common lot line of Lots 6&7, Block B, Trinity Point Add. Elev. = 1299.49 NAVD88

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.

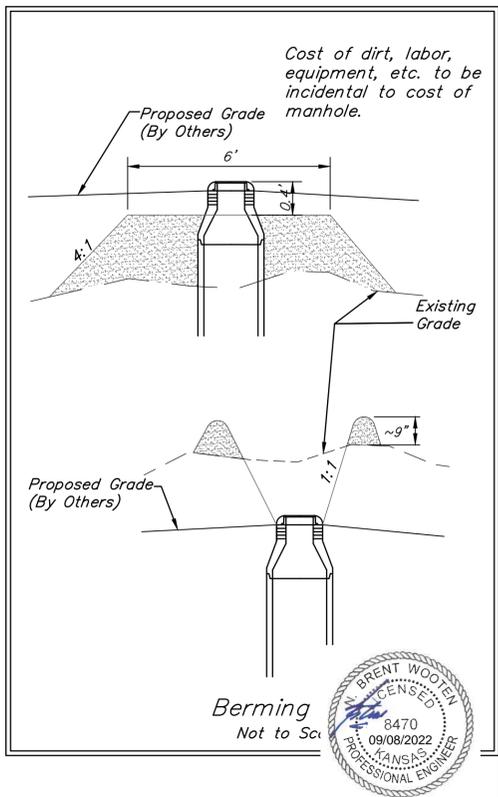
SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK	LINE NO.	STATION/ DIRECTION	FLOWLINE		FOR INFORMATION ONLY		Distance from Main to Riser (L/Rt.)	Distance from	
						8" PIPE	4" PIPE	VERTICAL	HORIZONTAL		Upstream MH	Downstream MH
68	4" Vertical Riser Assy'	38	D	4	4+38.0 / Lt.	1284.37	1284.84	7.3'	15.0'	15' Lt.	478'	43'
69	4" Vertical Riser Assy'	36	D	4	5+12.0 / Rt.	1285.56	1285.83	5.8'	5.0'	5' Rt.	404'	117'
70	4" Vertical Riser Assy'	39	D	4	5+17.0 / Lt.	1285.75	1286.22	5.4'	15.0'	15' Lt.	399'	122'
71	4" Vertical Riser Assy'	35	D	4	5+85.0 / Rt.	1286.84	1287.10	5.1'	5.0'	5' Rt.	331'	190'
72	4" Vertical Riser Assy'	40	D	4	5+90.0 / Lt.	1287.03	1287.49	4.7'	15.0'	15' Lt.	326'	195'
73	4" Vertical Riser Assy'	34	D	4	6+55.0 / Rt.	1288.16	1288.43	3.3'	5.0'	5' Rt.	261'	260'
74	4" Vertical Riser Assy'	41	D	4	6+60.0 / Lt.	1288.25	1288.71	3.0'	15.0'	15' Lt.	256'	265'
75	4" Stub	30	D	4	9+16.0 / Rt.	1290.65	1290.96	2.5'	7.1'	7' Rt.	@ mh	225'
76	4" Stub	45	D	4	9+16.0 / Lt.	1290.65	1291.24	2.3'	21.2'	21' Lt.	@ mh	225'

Bedding material shall be extended to an elevation 2' maximum below finished grade. All pipe including riser pipe shall be sand backfilled (flushed & vibrated). All service tees shall be rotated horizontally and extended at a 2% slope above horizontal to maintain lowest elevation possible to facilitate sewer service.



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



Berms Not to Scale

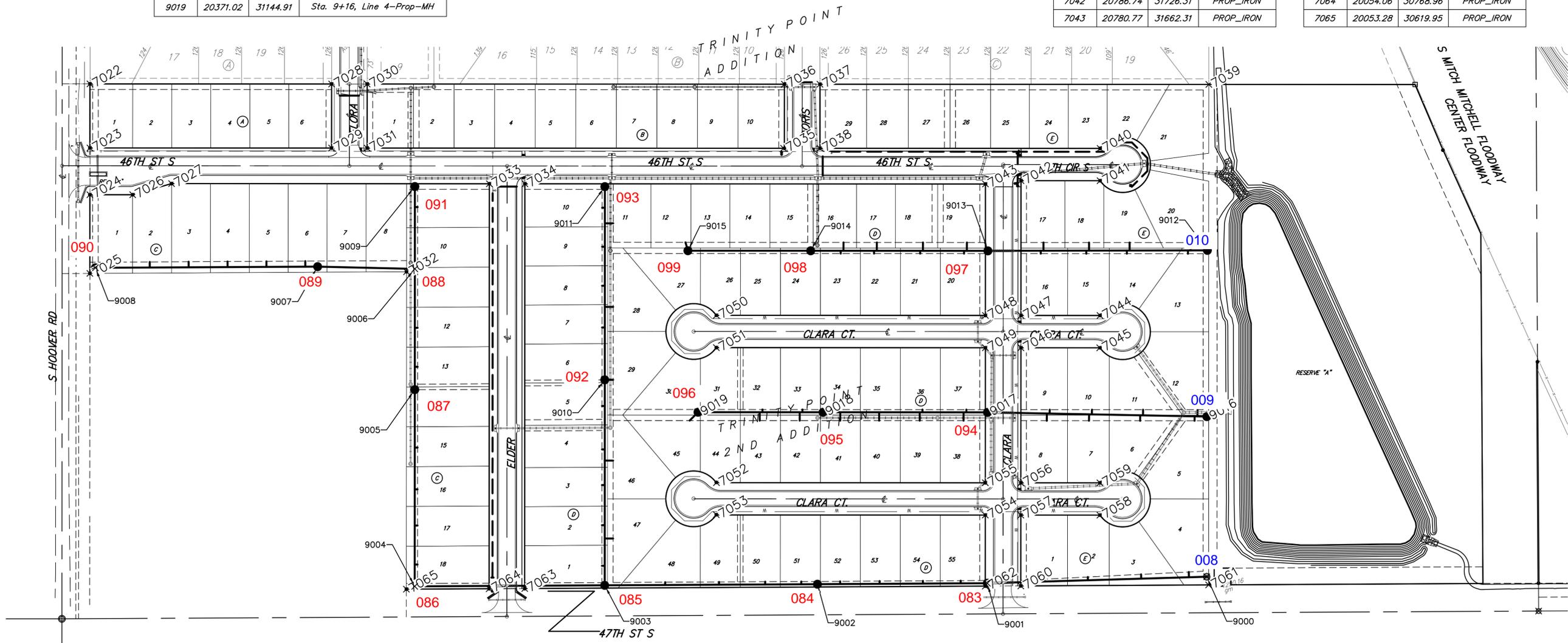
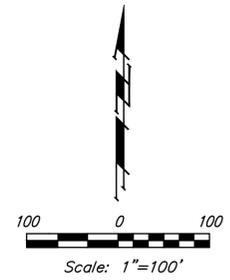
SANITARY SEWER

Point Table			
Point #	Northing	Easting	Raw Description
9000	20075.64	32060.58	Sta. 0+00.0, Line 1-Exist-MH
9001	20063.93	31665.76	Sta. 3+95.0, Line 1-Prop-MH
9002	20062.17	31359.97	Sta. 7+00.8, Line 1-Prop-MH
9003	20060.15	30976.96	Sta. 10+83.8, Line 1-Prop-MH
9004	20058.35	30634.96	Sta. 14+25.8, Line 1-Prop-MH
9005	20411.55	30635.13	Sta. 18+00.0, Line 1-Prop-MH
9006	20628.35	30635.24	Sta. 19+95.8, Line 1-Prop-MH
9007	20632.45	30460.23	Sta. 22+00.0, Line 1-Prop-MH
9008	20630.34	30060.21	Sta. 25+08.8, Line 1-Prop-MH
9009	20776.26	30635.31	Sta. 0+79.0, Line 1A-Prop-MH
9010	20429.15	30977.14	Sta. 4+00.0, Line 2-Prop-MH
9011	20776.10	30977.31	Sta. 6+49.0, Line 2-Prop-MH
9012	20661.70	32061.81	Sta. 0+00.0, Line 3-Exist-MH
9013	20660.76	31666.81	Sta. 3+95.0, Line 3-Prop-MH
9014	20660.92	31347.81	Sta. 7+14.5, Line 3-Prop-MH
9015	20661.02	31126.81	Sta. 9+34.6, Line 3-Prop-MH
9016	20363.21	32060.85	Sta. 0+00.0, Line 4-Exist-MH
9017	20370.77	31665.92	Sta. 3+95.0, Line 4-Prop-MH
9018	20370.91	31369.92	Sta. 7+01.0, Line 4-Prop-MH
9019	20371.02	31144.91	Sta. 9+16, Line 4-Prop-MH

PROPERTY IRONS

Point Table			
Point #	Northing	Easting	Raw Description
7022	20960.54	30050.40	PROP_IRON
7023	20845.54	30050.34	PROP_IRON
7024	20761.54	30050.30	PROP_IRON
7025	20620.28	30050.23	PROP_IRON
7026	20761.51	30127.30	PROP_IRON
7027	20781.47	30197.31	PROP_IRON
7028	20960.34	30485.40	PROP_IRON
7029	20845.34	30485.34	PROP_IRON
7030	20960.31	30549.40	PROP_IRON
7031	20845.31	30549.34	PROP_IRON
7032	20623.28	30620.22	PROP_IRON
7033	20781.20	30769.31	PROP_IRON
7034	20781.17	30833.31	PROP_IRON
7035	20844.94	31298.87	PROP_IRON
7036	20959.94	31300.43	PROP_IRON
7037	20959.91	31364.43	PROP_IRON
7038	20844.91	31364.37	PROP_IRON
7039	20959.58	32064.43	PROP_IRON
7040	20844.67	31868.64	PROP_IRON
7041	20786.67	31868.61	PROP_IRON
7042	20786.74	31726.31	PROP_IRON
7043	20780.77	31662.31	PROP_IRON

Point Table			
Point #	Northing	Easting	Raw Description
7044	20544.67	31868.50	PROP_IRON
7045	20486.67	31867.97	PROP_IRON
7046	20486.74	31726.17	PROP_IRON
7047	20544.74	31726.20	PROP_IRON
7048	20544.77	31662.20	PROP_IRON
7049	20486.77	31662.17	PROP_IRON
7050	20545.00	31177.93	PROP_IRON
7051	20487.00	31177.90	PROP_IRON
7052	20244.52	31178.12	PROP_IRON
7053	20187.00	31177.76	PROP_IRON
7054	20186.29	31662.03	PROP_IRON
7055	20244.29	31662.05	PROP_IRON
7056	20244.26	31726.05	PROP_IRON
7057	20186.26	31726.03	PROP_IRON
7058	20186.19	31868.32	PROP_IRON
7059	20244.19	31868.35	PROP_IRON
7060	20059.09	31725.96	PROP_IRON
7061	20060.86	32064.00	PROP_IRON
7062	20058.75	31661.96	PROP_IRON
7063	20054.39	30832.96	PROP_IRON
7064	20054.06	30768.96	PROP_IRON
7065	20053.28	30619.95	PROP_IRON



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 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE
 Baughman

TRINITY POINT 2ND ADDITION
COORDINATE POINTS
 SANITARY SEWER IMPROVEMENTS

