

# 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:

NuStar Pipeline Co. 1-316-773-9000  
 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

- 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 NAVD88.
- 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 areas disturbed during construction 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".
- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the engineer.
- The developer for this project is 21 Management, LLC, Nicholas A. Cowgill, Manager. (316)684-0161 Nick.cowgill@niehomes.com
- Construction shall be coordinated between the storm drain, sanitary sewer, and water improvements (both phase 1 and entrance water projects).

Sanitary Sewer Improvements to serve NRD Addition  
 Project # 468-2020-025962  
 Org 47263720 /E0117

Contractor - Mies  
 Foremen -  
 Mike Gilmore  
 Lance Cowley

Engineer - Greg Baalman  
 Inspector - Roger Skilling

Project built to revised plans

No Changes were made

## Benchmarks

BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

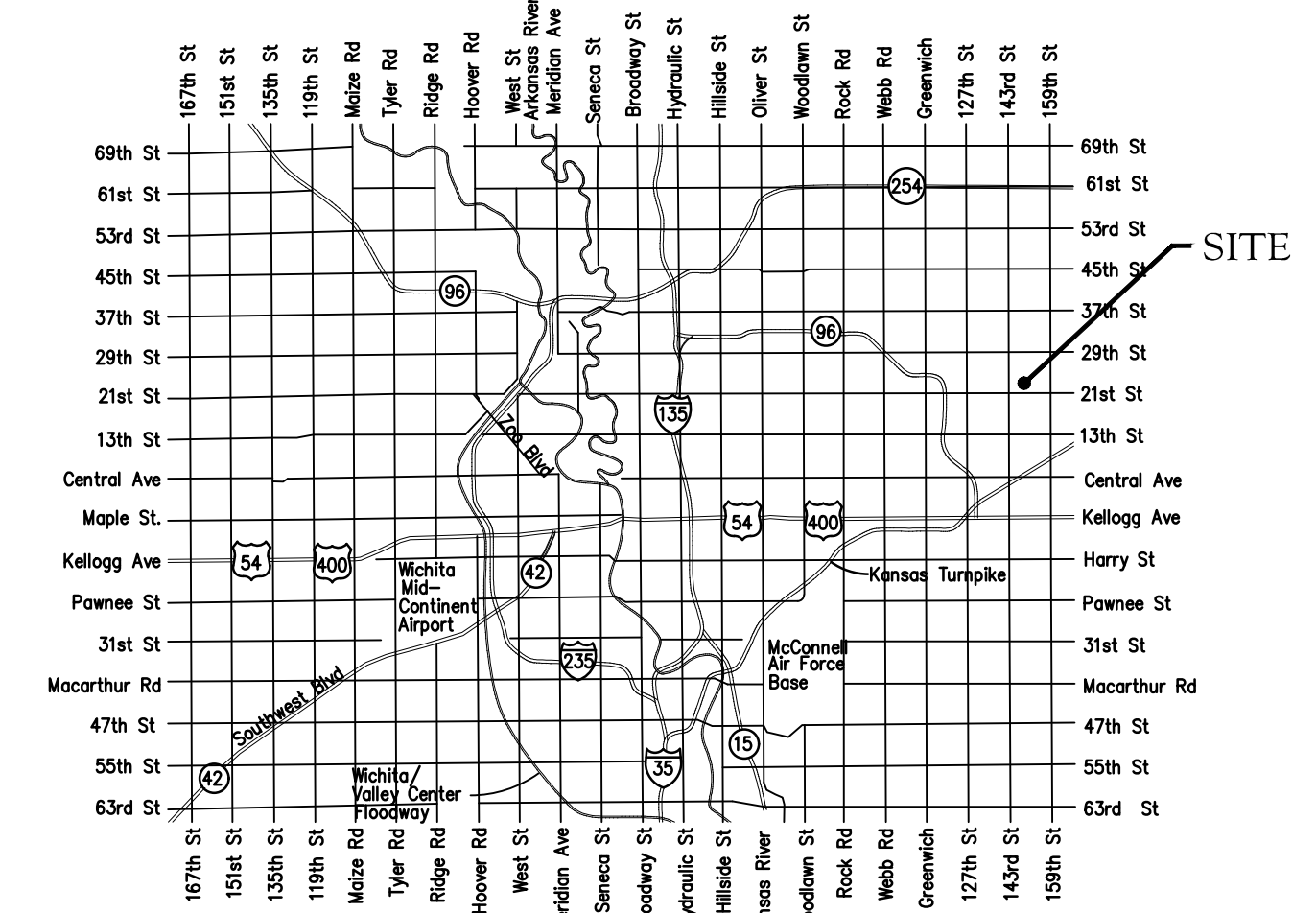
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

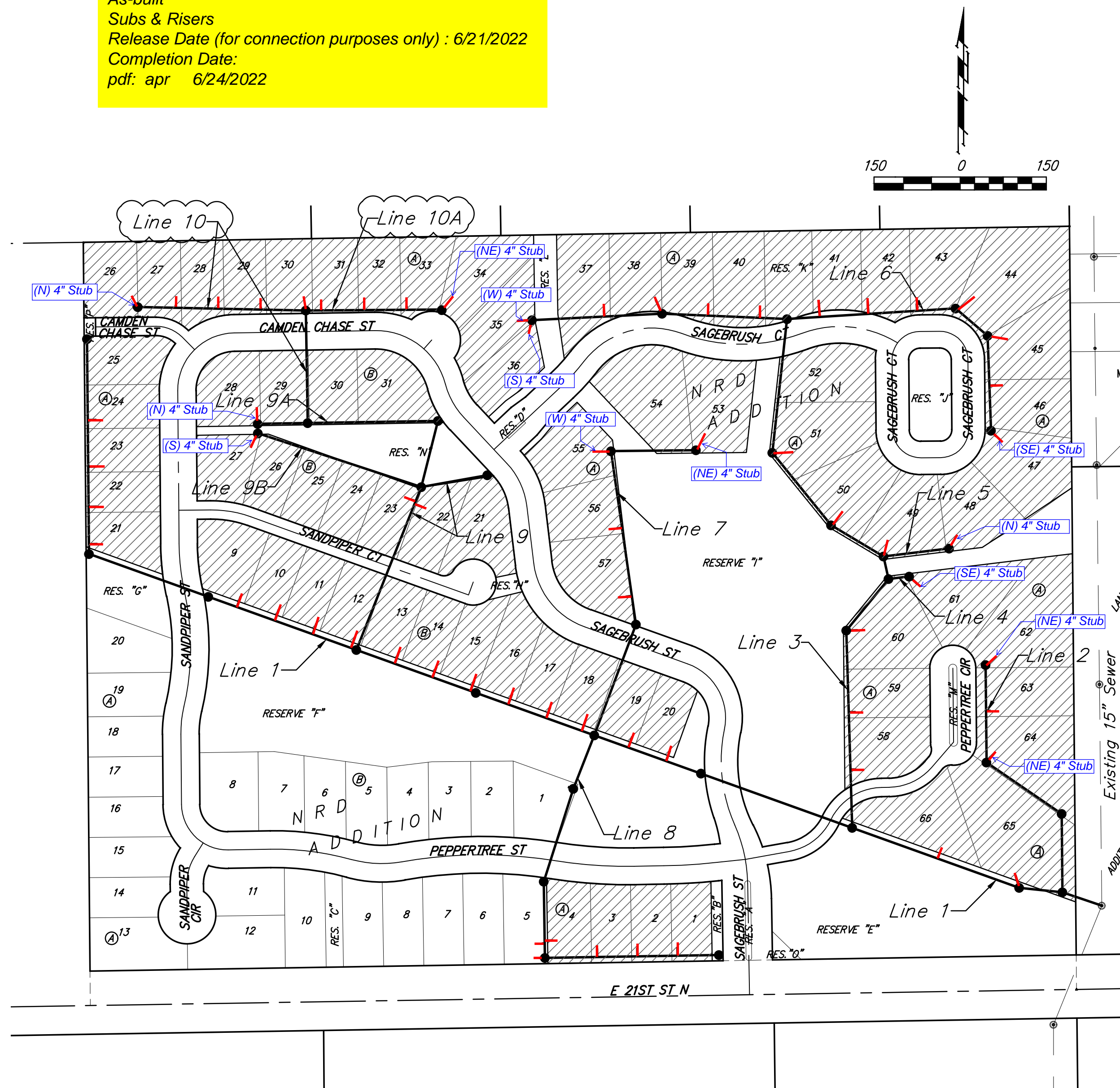
# SANITARY SEWER IMPROVEMENTS to serve **NRD ADDITION - Ph. I** CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer  
 Project Number 468-2020-025962  
 Org Code 47263720  
 Munis Number E0117

Baughman - Contractor  
 G. Baalman - City of Wichita, Field Project Engineer  
 R. Skilling - City of Wichita, Inspector  
 As-built  
 Subs & Risers  
 Release Date (for connection purposes only) : 6/21/2022  
 Completion Date:  
 pdf: apr 6/24/2022



Vicinity Map



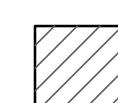
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REVISION: Add Lines 10 & 10A (10/25/21 by TMS)

October 25, 2021

Benefit District



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



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

## Sanitary Sewer Riser Table

**Project Name:** WDS\_WDS\_SS\_SWD to serve NRD Addn.  
**Project Location:** N of 21st St N, E of 143rd St. E.  
**Project No:** 448-2020-025957\_448-2020-025958\_468-2020-025962-468-2020-085447  
**MUNIS No:** E0115\_E0116\_E0117\_E0118  
**Contractor:** Mies Construction  
**Inspector:** Roger Skilling

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Vertical Offset or Special Notes	Distance from	
					Upstream MH	Downstream MH
1	1	1+48	22' Rt	MH Stub	0	0
2	1	2+98	10' Rt		158'	151'
3	1	8+01	20' Rt		132	65
4	1	8+71	20' Rt		62	135
5	1	9+57	20' Rt		196	24
6	1	10+23	20' Rt		130	90
7	1	10+93	20' Rt		60	160
8	1	11+63	20' Rt		211	10
9	1	12+33	20' RT		141	80
10	1	13+03	20' Rt		71	150
11	1	13+84	20' Rt		264	10
12	1	14+55	20' Rt		193	81
13	1	15+25	20' Rt		123	151
14	1	15+95	20' Rt		53	221
15	1	18+85	15' Rt		357	17
16	1	19+50	15' Rt		292	82
17	1	20+22	15' Rt		220	154
18	1	21+01	15' Rt		140	234
19	2	2+95	12' Rt	MH Stub	0	0
20	2	3+84	8" Rt		80	90
21	2	4+64	9' Rt	MH Stub w/Riser	0	0
22	3	1+01	10' Rt		242	101
23	3	2+01	12' Rt		142	201
24	3	3+43	20' Rt	MH Stub w/Riser	0	0
25	3	4+99	5' Rt	MH Stub w/Riser	0	0
26	3	6+06	5' Rt	MH Stub w/Riser	0	0



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**Project Location:** N of 21st St N, E of 143rd St. E.

**Project No:** 448-2020-025957\_448-2020-025958\_468-2020-025962-468-2020-085447

**MUNIS No:** E0115\_E0116\_E0117\_E0118

**Contractor:** Mies Construction

**Inspector:** Roger Skilling

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Vertical Offset or Special Notes	Distance from	
					Upstream MH	Downstream MH
27	3	7+68	5' Rt	MH Stub w/Riser	0	0
28	3	8+67	5' Rt		136	99
29	3	10+50	10' Rt		170	48
30	3	11+40	6' Rt		80	138
31	3	12+50	26' Rt	MH Stub	0	0
32	3	13+21	11' Rt		126	71
33	3	14+47	14' Lt	Stub	0	0
34	3	14+47	14' West	Stub	0	0
35	4	0+36	20' Rt	Stub	0	0
36	5	1+115	5' Lt	Stub	0	0
37	6	0+57	30' Lt		237	57
38	6	1+42	24' Lt		152	142
39	6	2+27	13' Lt		67	227
40	6	2+94	6' Lt	MH Stub w/Riser	0	0
41	6	3+67	6' Lt	MH Stub w/Riser	0	0
42	6	4+54	12" Lt		78	87
43	6	5+34	14.5 Lt	Stub	0	0
44	7	2+56	11' Lt		255	50
45	7	3+76	8' Lt		135	170
46	7	5+11	5' Lt	Stub	0	0
47	7	6+58	5' Lt	Stub	0	0
48	8	3+72	15' Lt		30	103
49	8	3+77	5' Lt		25	108
50	8	4+93	15' Lt		212	91
51	8	5+63	15' Lt		142	161
52	8	6+33	15' Lt		72	231



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**MUNIS No:** E0115\_E0116\_E0117\_E0118  
**Contractor:** Mies Construction  
**Inspector:** Roger Skilling

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Vertical Offset or Special Notes	Distance from	
					Upstream MH	Downstream MH
53	9	2+73	13' Rt		32	273
54	9	2+78	7' Rt		27	278
55	9A	4+32	7.5' Rt	Stub	0	0
56	9B	2+99	5' Lt	Stub	0	0
57	10	1+96	5.5' Rt	MH Stub w/Riser	0	0
58	10	2+74	5' Rt		219	78
59	10	3+48	5' Rt		145	152
60	10	4+22	5' Rt		71	226
61	10	4+93	6.5' Rt		0	0
62	10A	0+26	5.5' Lt		211	26
63	10A	1+01	6' Lt		136	101
64	10A	1+75	6.5' Lt		62	175
65	10A	2+37	6.5' Lt		0	0

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from Main to Riser (L/R)	Distance from		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE		VERTICAL	HORIZONTAL	Upstream MH
1	4" Stub W/Riser	65	A	1	1+48.0/Rt.	13.0'	22.8'	22' Rt.	@ mh	@ mh
2	8" X 4" Tee W/Riser	66	A	1	2+98.7/Rt.	11.5'	10.0'	10' Rt.	158'	151'
3	8" X 4" Tee W/Riser	20	B	1	8+01.1/Rt.	9.0'	20.0'	20' Rt.	132'	65'
4	8" X 4" Tee W/Riser	19	B	1	8+71.1/Rt.	10.0'	20.0'	10' Rt.	62'	135'

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

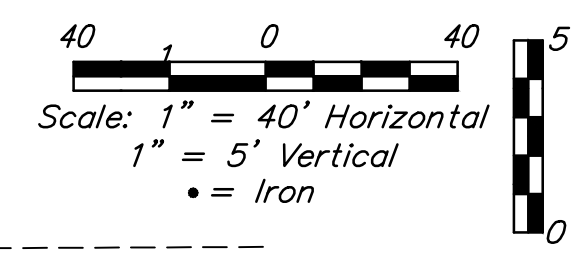
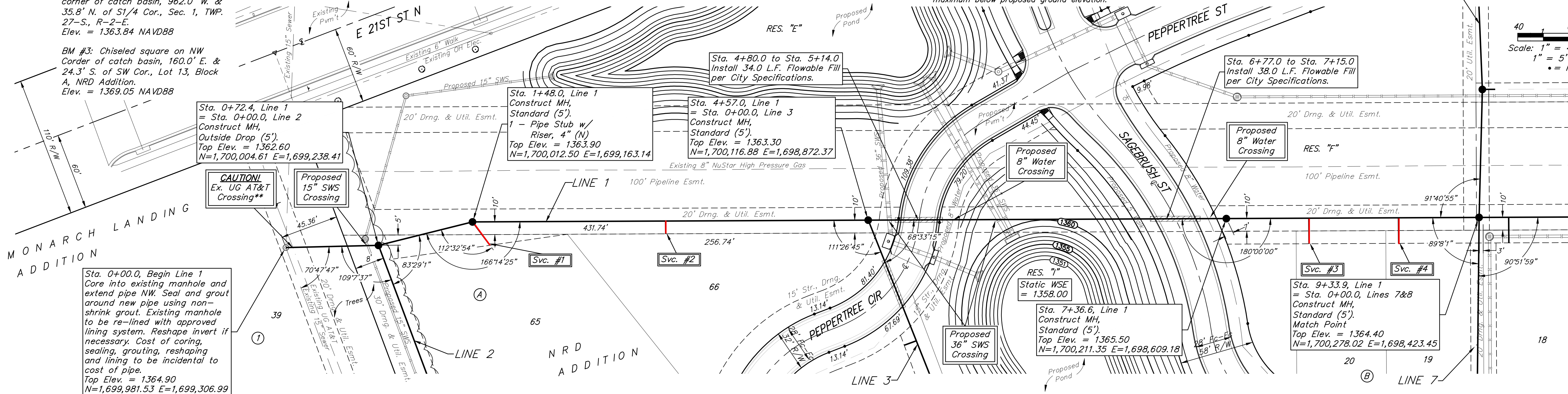
**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1361.76 NAVD88

BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

Existing trees shall be trimmed/removed ONLY with approval of Developer. Trimming will only be permitted with chainsaws. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. All removal/trimming shall be included in "Site Clearing".

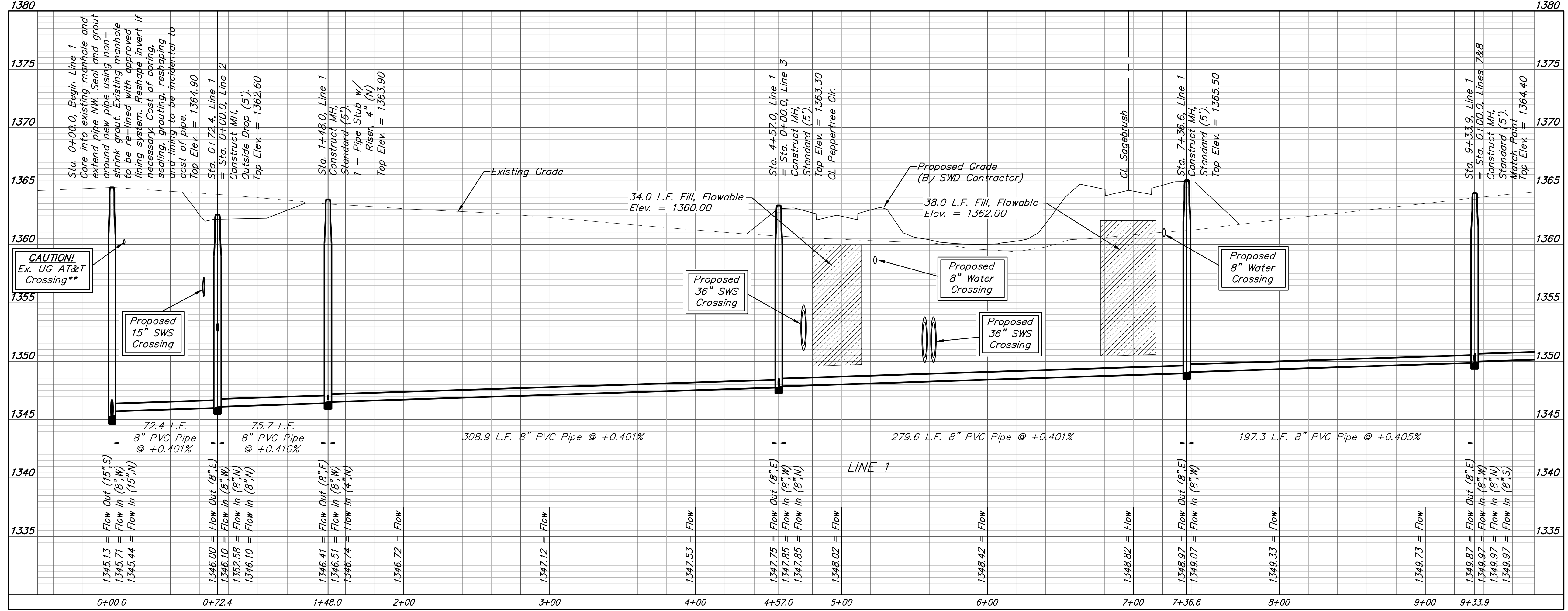
\* When construction will occur within 50' of either side of NuStar gas pipeline, Contractor shall contact Kansas One-Call and NuStar a minimum of 72 hours prior to construction. Teresa Landry (316)322-0325. A representative of NuStar must be present for any construction activities within 50' of pipeline. A minimum of 24" O.D.-O.D. vertical separation is required between gas pipeline and proposed utilities.



For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps

\*\*Contact utility companies 3 weeks prior to construction to coordinate construction. AT&T Shannon Brinkmeyer, (316) 268-2931

Contractor shall verify elevation and alignment of existing 15" pipe prior to construction and notify Engineer of any discrepancy.





**BAUGHMAN COMPANY**

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 Wichita, KS 67211  
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NRD ADDITION  
 Phase I

**LINE 1**

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:  
 21-03-E866

DESIGN: NBW DRAWN: TMS

DATE: July 20, 2021

SHEET OF  
**2 27**

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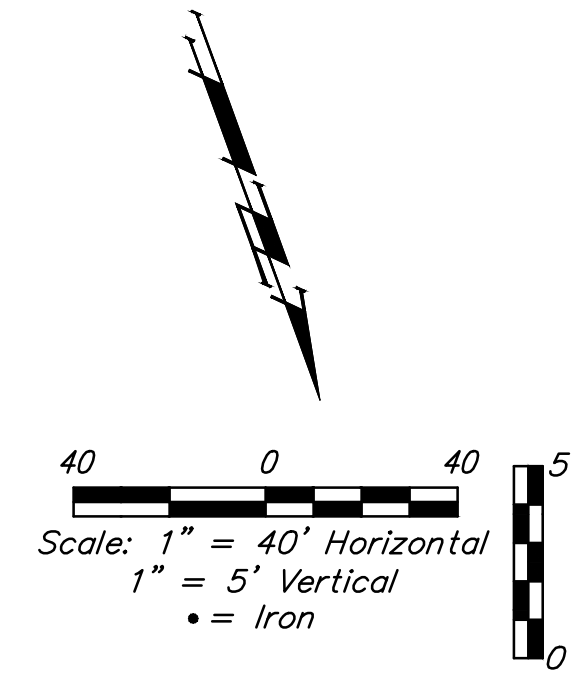
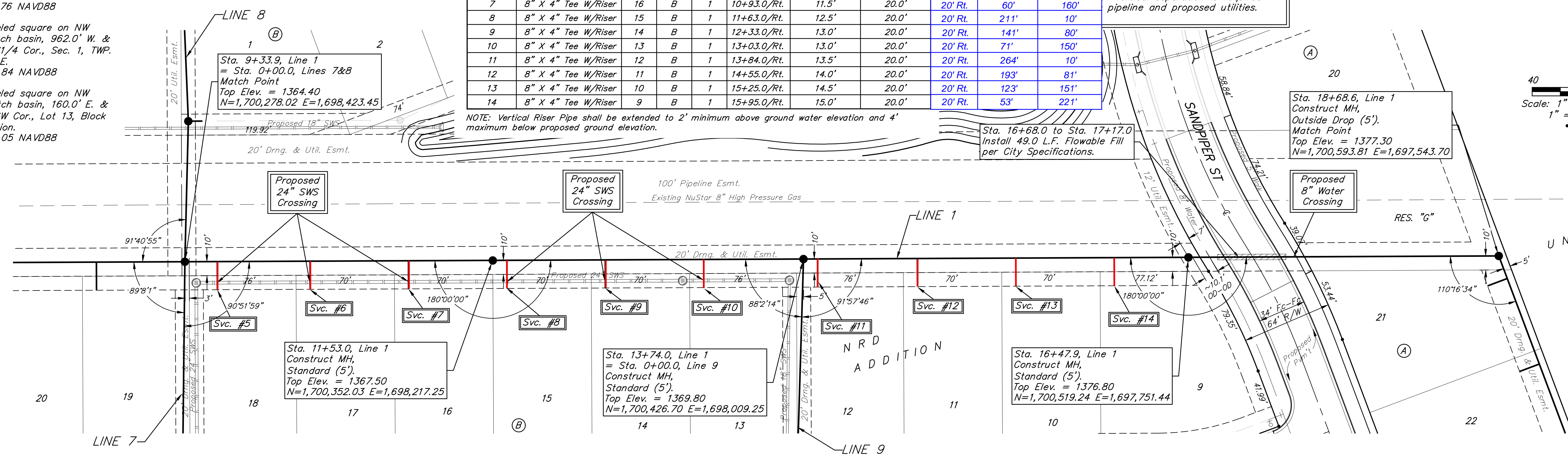
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from			
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE	Distance from Main to Riser (L/R)	Upstream MH	Downstream MH	
5	8" X 4" Tee W/Riser	18	B	1	9+57.0/Rt.	10.5'	20.0'	20' Rt.	196'	24'
6	8" X 4" Tee W/Riser	17	B	1	10+23.0/Rt.	11.0'	20.0'	20' Rt.	130'	90'
7	8" X 4" Tee W/Riser	16	B	1	10+93.0/Rt.	11.5'	20.0'	20' Rt.	60'	160'
8	8" X 4" Tee W/Riser	15	B	1	11+63.0/Rt.	12.5'	20.0'	20' Rt.	211'	10'
9	8" X 4" Tee W/Riser	14	B	1	12+33.0/Rt.	13.0'	20.0'	20' Rt.	141'	80'
10	8" X 4" Tee W/Riser	13	B	1	13+03.0/Rt.	13.0'	20.0'	20' Rt.	71'	150'
11	8" X 4" Tee W/Riser	12	B	1	13+84.0/Rt.	13.5'	20.0'	20' Rt.	264'	10'
12	8" X 4" Tee W/Riser	11	B	1	14+55.0/Rt.	14.0'	20.0'	20' Rt.	193'	81'
13	8" X 4" Tee W/Riser	10	B	1	15+25.0/Rt.	14.5'	20.0'	20' Rt.	123'	151'
14	8" X 4" Tee W/Riser	9	B	1	15+95.0/Rt.	15.0'	20.0'	20' Rt.	53'	221'

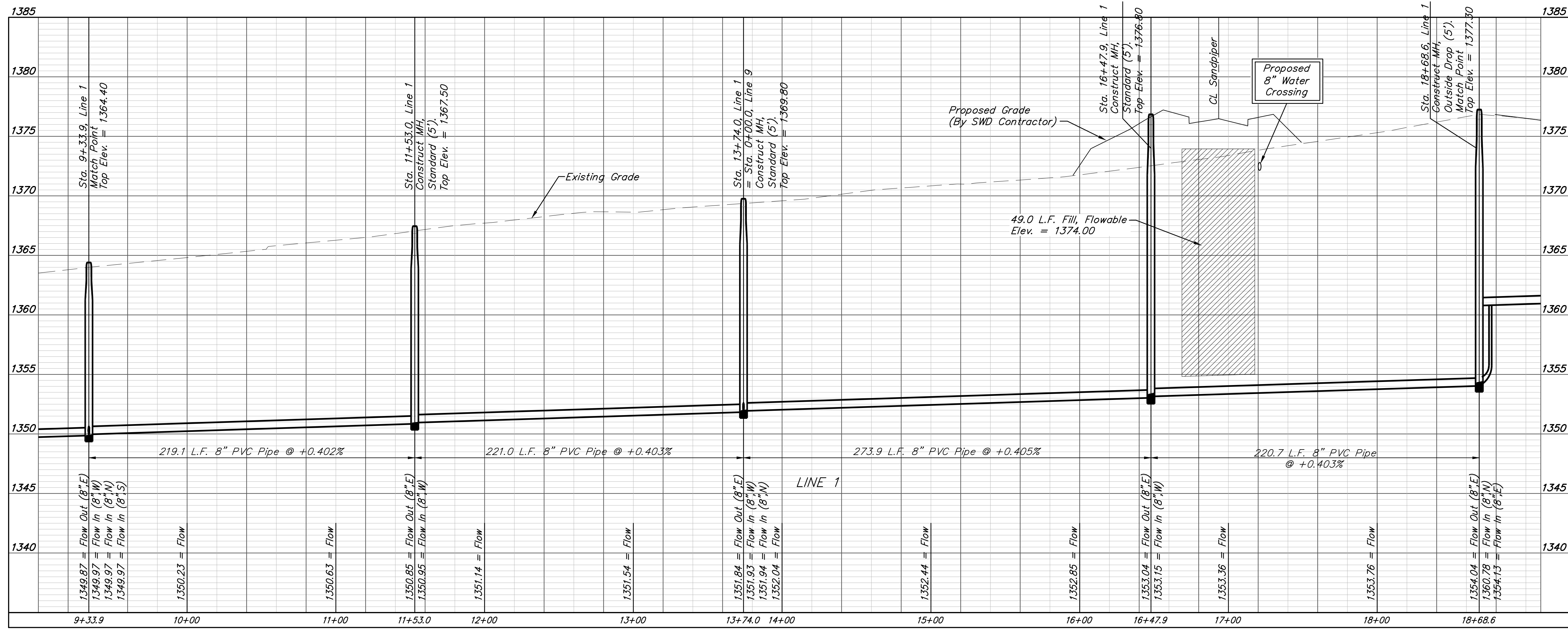
\* When construction will occur within 50' of NuStar gas pipeline, Contractor of Kansas One-Call and NuStar a representative must be present for any construction within 50' of pipeline. A minimum of 10' vertical separation is required between pipeline and proposed utilities.

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

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1361.76 NAVD88  
 BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1363.84 NAVD88  
 BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88



For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps





**BAUGHMAN COMPANY**

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 Wichita, KS 67211  
 316-262-7271  
 BaughmanCo.com

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NRD ADDITION  
Phase I

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**LINE 1**

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SANITARY SEWER IMPROVEMENTS

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PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS  
DATE: July 29, 2021

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SHEET **3** OF **27**

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**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

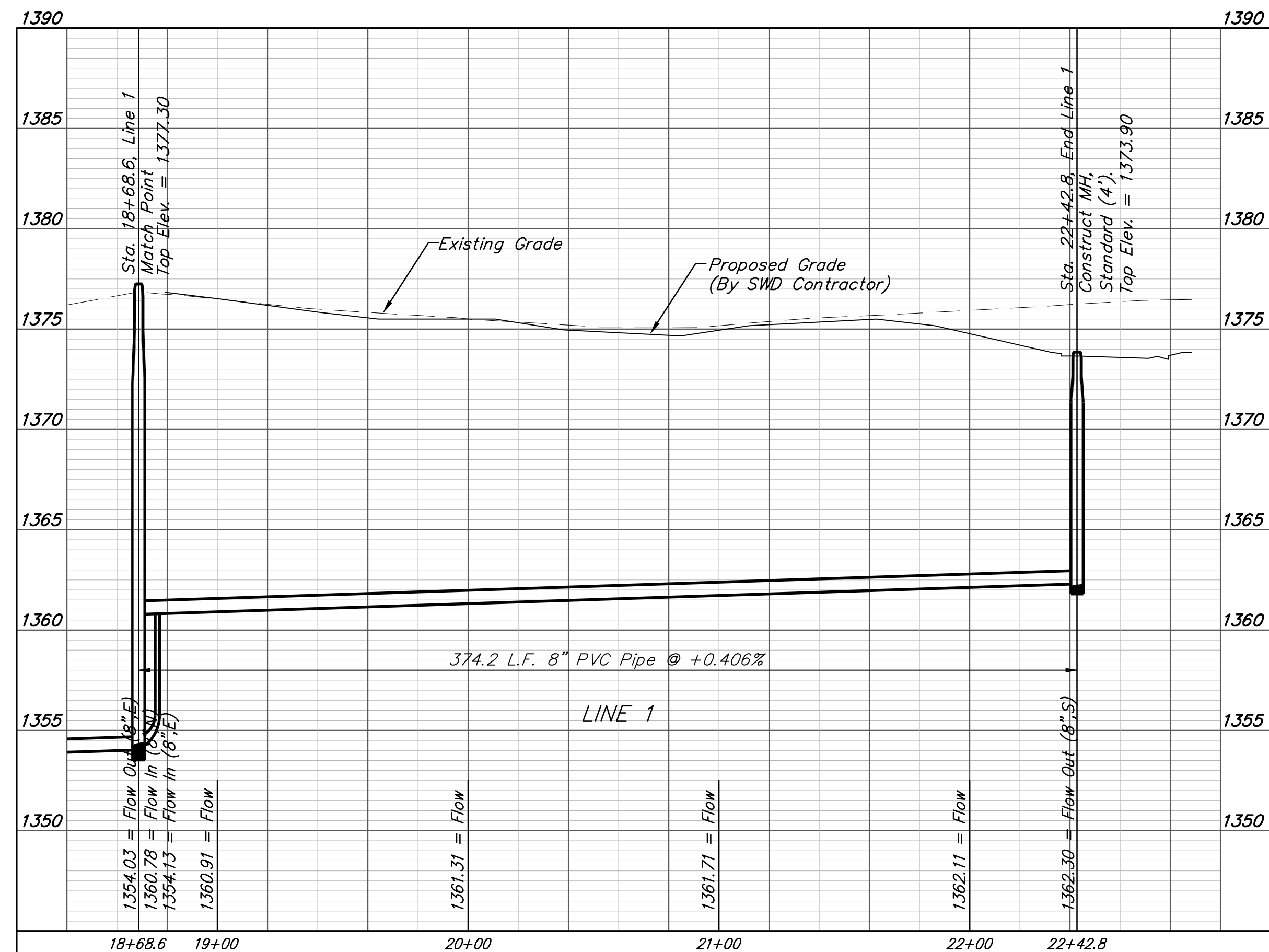
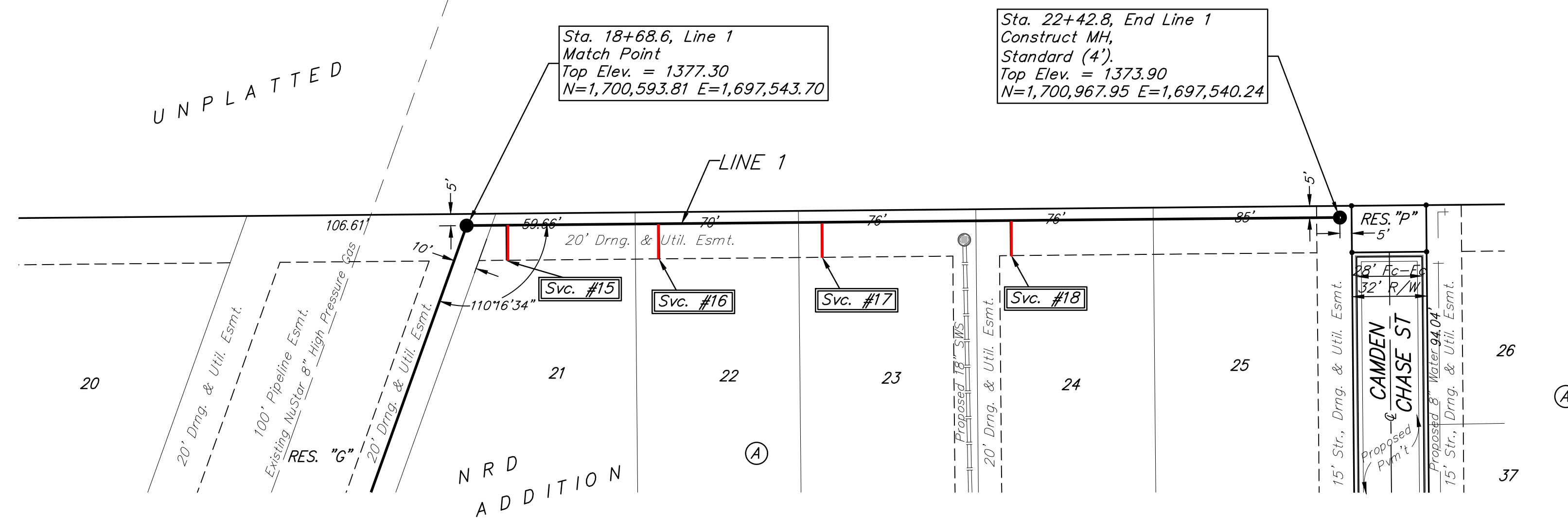
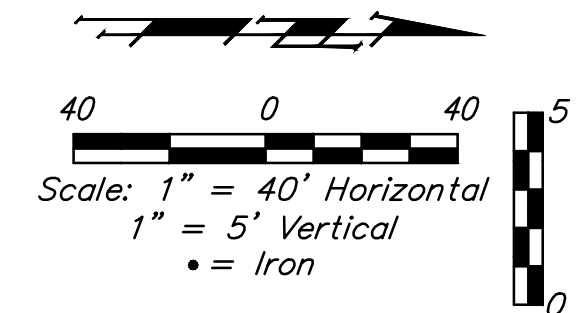
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from Main to Riser (L/R)	Distance from		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL		HORIZONTAL	Upstream MH	Downstream MH
15	8" X 4" Tee W/Riser	21	A	1	18+85.8/Rt.	10.5'	15.0'	15' Rt.	357'	17'
16	8" X 4" Tee W/Riser	22	A	1	19+50.8/Rt.	8.5'	15.0'	15' Rt.	292'	82'
17	8" X 4" Tee W/Riser	23	A	1	20+22.8/Rt.	8.0'	15.0'	15' Rt.	220'	154'
18	8" X 4" Tee W/Riser	24	A	1	21+01.8/Rt.	8.0'	15.0'	15' Rt.	140'	234'

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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NRD ADDITION  
Phase I

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**LINE 1**

---

SANITARY SEWER  
IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS  
DATE: July 15, 2021

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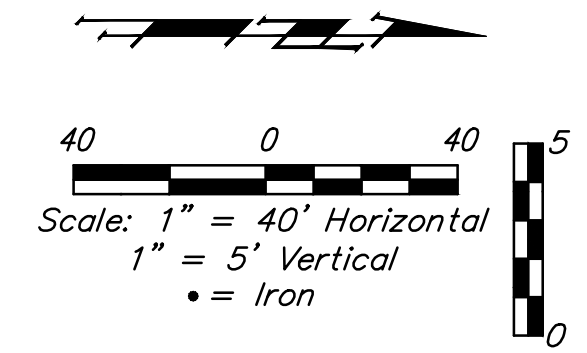
SHEET **4** OF **27**

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**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1361.76 NAVD88

BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

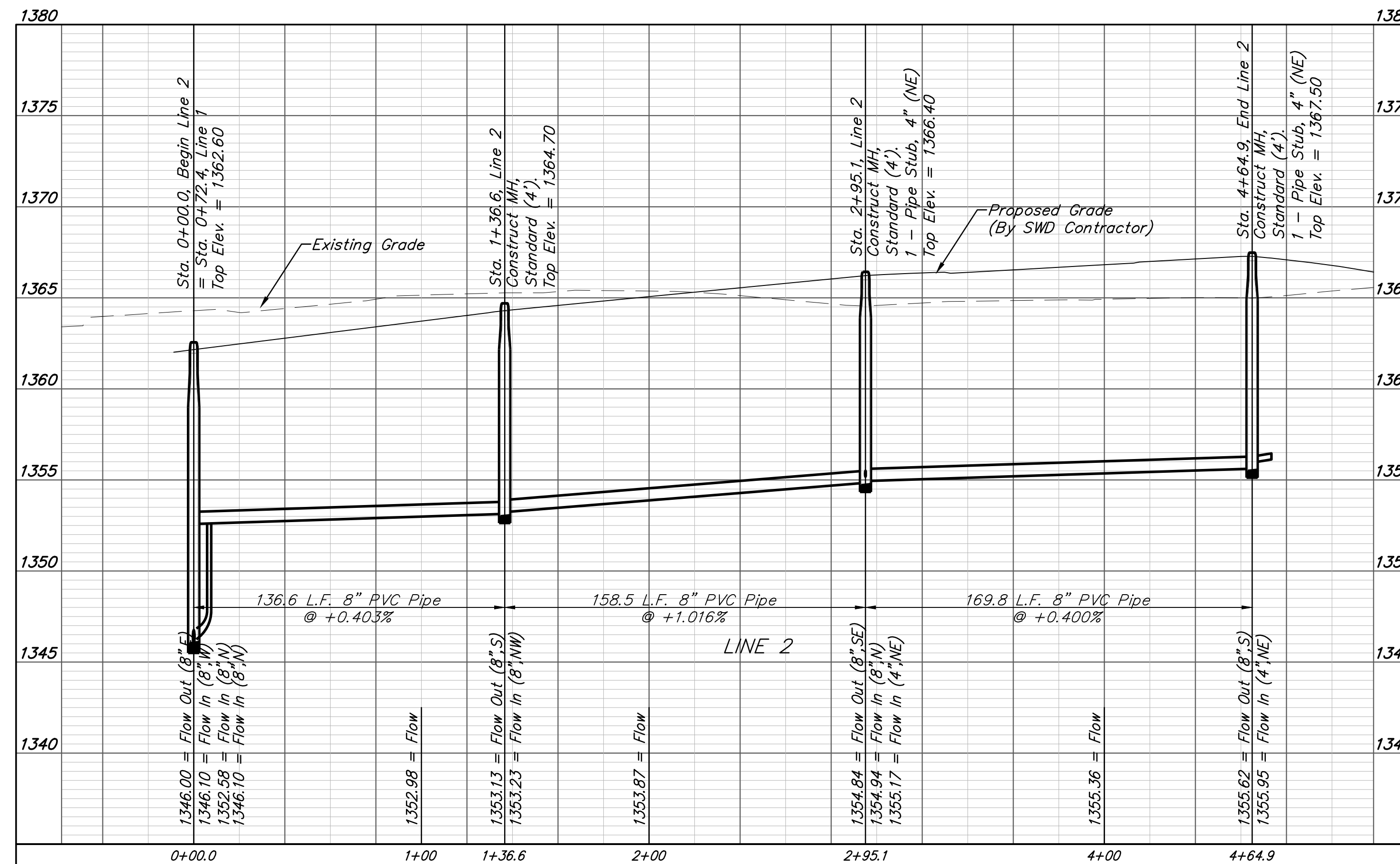
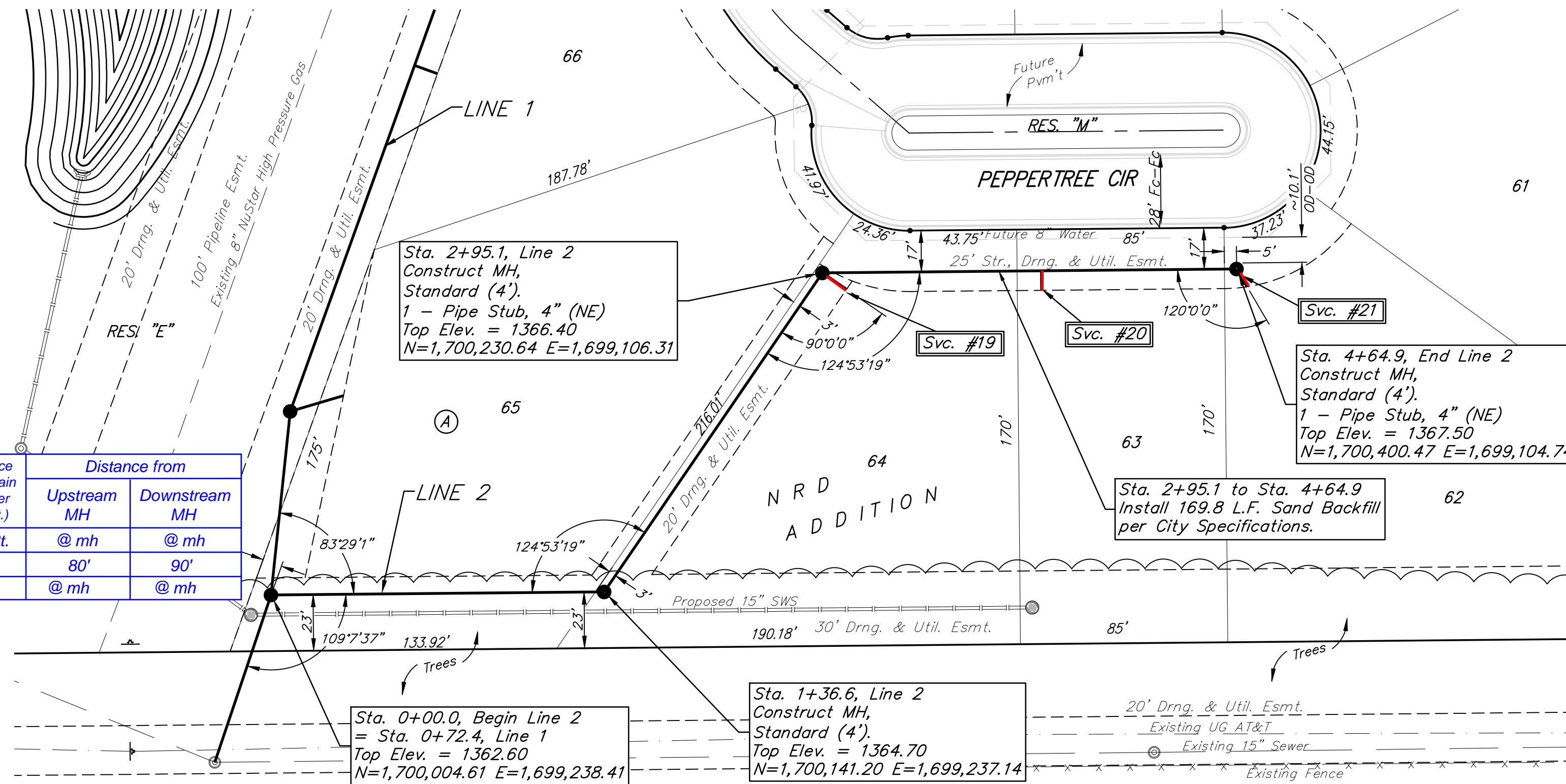


**SEWER SERVICE TABLE**

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from			
		LOT NO.	BLOCK NO.	LINE NO.	STATION DIRECTION	APPROXIMATE LENGTH 4" PIPE		Upstream MH	Downstream MH	
						VERTICAL	HORIZONTAL			
19	4" Stub	64	A	2	2+95.1/Rt.	-	12.0'	12' Rt.	@ mh	@ mh
20	8" X 4" Tee W/Riser	63	A	2	3+84.9/Rt.	-	8.0'	8' Rt.	80'	90'
21	4" Stub	62	A	2	4+64.9/Rt.	-	9.0'	9' Rt.	@ mh	@ mh

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

Existing trees shall be trimmed/removed ONLY with approval of Developer. Trimming will only be permitted with chainsaws. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. All removal/trimming shall be included in "Site Clearing".





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NRD ADDITION  
Phase I

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**LINE 2**

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SANITARY SEWER  
IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS  
DATE: July 15, 2021

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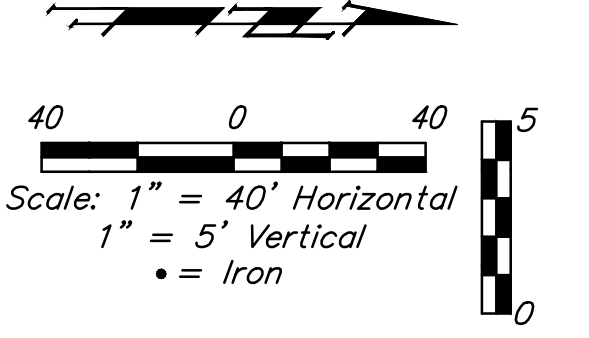
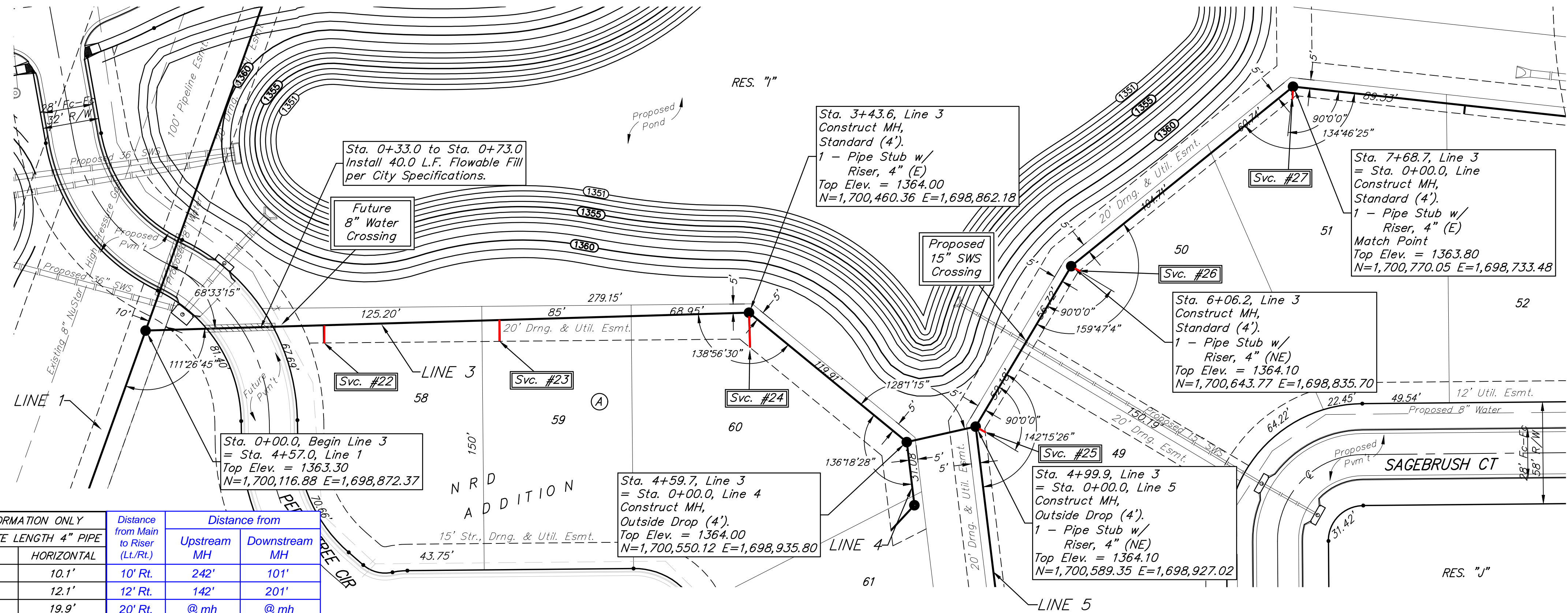
SHEET **5** OF **27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1361.76 NAVD88

BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

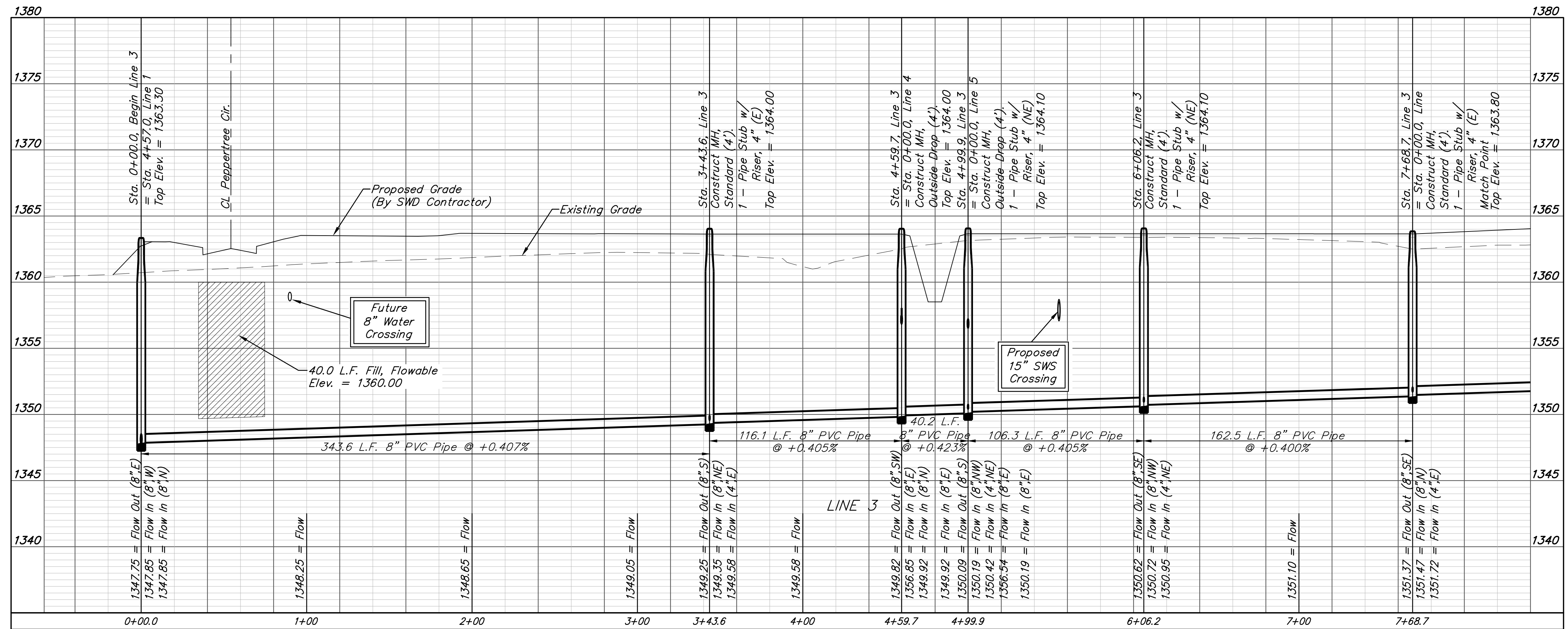


**SEWER SERVICE TABLE**

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from			
		LOT NO.	BLOCK NO.	LINE NO.	APPROXIMATE LENGTH 4" PIPE		Distance from Main to Riser (L/Rt.)	Upstream MH	Downstream MH	
					STATION \ DIRECTION	VERTICAL				HORIZONTAL
22	8" X 4" Tee W/Riser	58	A	3	1+01.3/Rt.	11.5'	10.1'	10' Rt.	242'	101'
23	8" X 4" Tee W/Riser	59	A	3	2+01.6/Rt.	11.0'	12.1'	12' Rt.	142'	201'
24	4" Stub W/Riser	60	A	3	3+43.6/Rt.	10.5'	19.9'	20' Rt.	@ mh	@ mh
25	4" Stub W/Riser	49	A	3	4+99.9/Rt.	9.5'	5.0'	5' Rt.	@ mh	@ mh
26	4" Stub W/Riser	50	A	3	6+06.2/Rt.	9.0'	5.0'	5' Rt.	@ mh	@ mh
27	4" Stub W/Riser	51	A	3	7+68.7/Rt.	8.5'	5.0'	5' Rt.	@ mh	@ mh

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

For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps





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NRD ADDITION  
Phase I

---

**LINE 3**

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SANITARY SEWER IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS

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DATE: July 16, 2021

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SHEET OF  
**6 27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

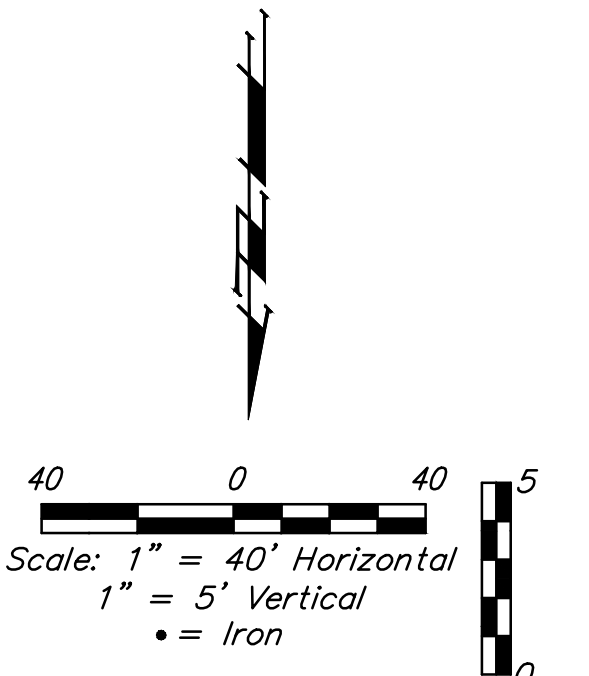
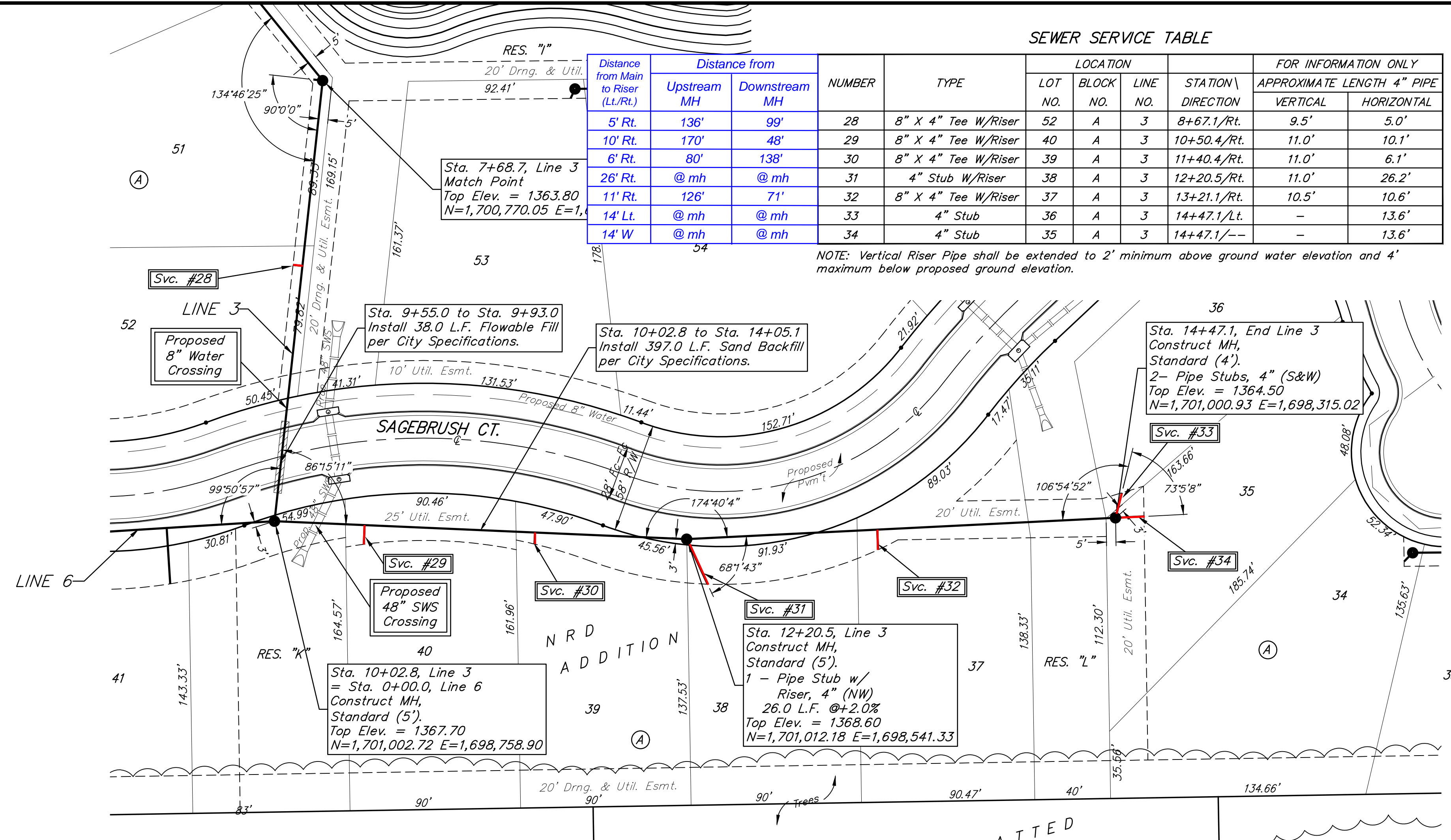
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

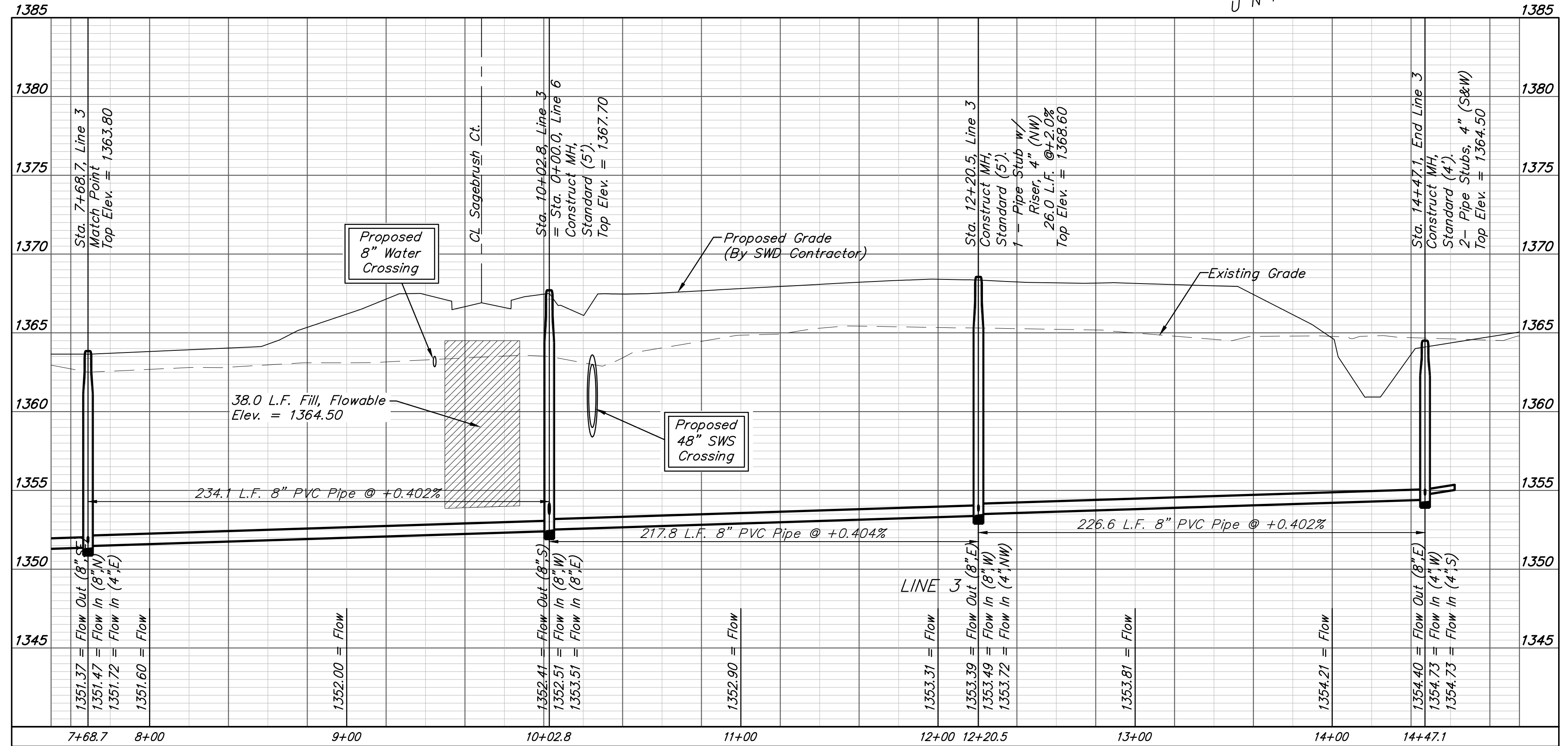
SEWER SERVICE TABLE

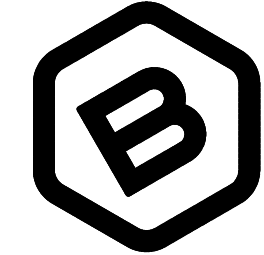
Distance from Main to Riser (Lt./Rt.)	Distance from		NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
	Upstream MH	Downstream MH			LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE	
5' Rt.	136'	99'	28	8" X 4" Tee W/Riser	52	A	3	8+67.1/Rt.	9.5'	5.0'
10' Rt.	170'	48'	29	8" X 4" Tee W/Riser	40	A	3	10+50.4/Rt.	11.0'	10.1'
6' Rt.	80'	138'	30	8" X 4" Tee W/Riser	39	A	3	11+40.4/Rt.	11.0'	6.1'
26' Rt.	@ mh	@ mh	31	4" Stub W/Riser	38	A	3	12+20.5/Rt.	11.0'	26.2'
11' Rt.	126'	71'	32	8" X 4" Tee W/Riser	37	A	3	13+21.1/Rt.	10.5'	10.6'
14' Lt.	@ mh	@ mh	33	4" Stub	36	A	3	14+47.1/Lt.	-	13.6'
14' W	@ mh	@ mh	34	4" Stub	35	A	3	14+47.1/--	-	13.6'

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



For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps





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NRD ADDITION  
Phase I

---

**LINE 3**

---

SANITARY SEWER  
IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

---

DESIGN: NBW DRAWN: TMS

---

DATE: October 12, 2021

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SHEET OF  
**7 27**

REVISION: End Line 3 at 14+47.1 (10/12/21 by TMS)  
 REVISION: Manhole at Sta. 10+02.8 to be 5' (08/25/21 by H/W)

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.12.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

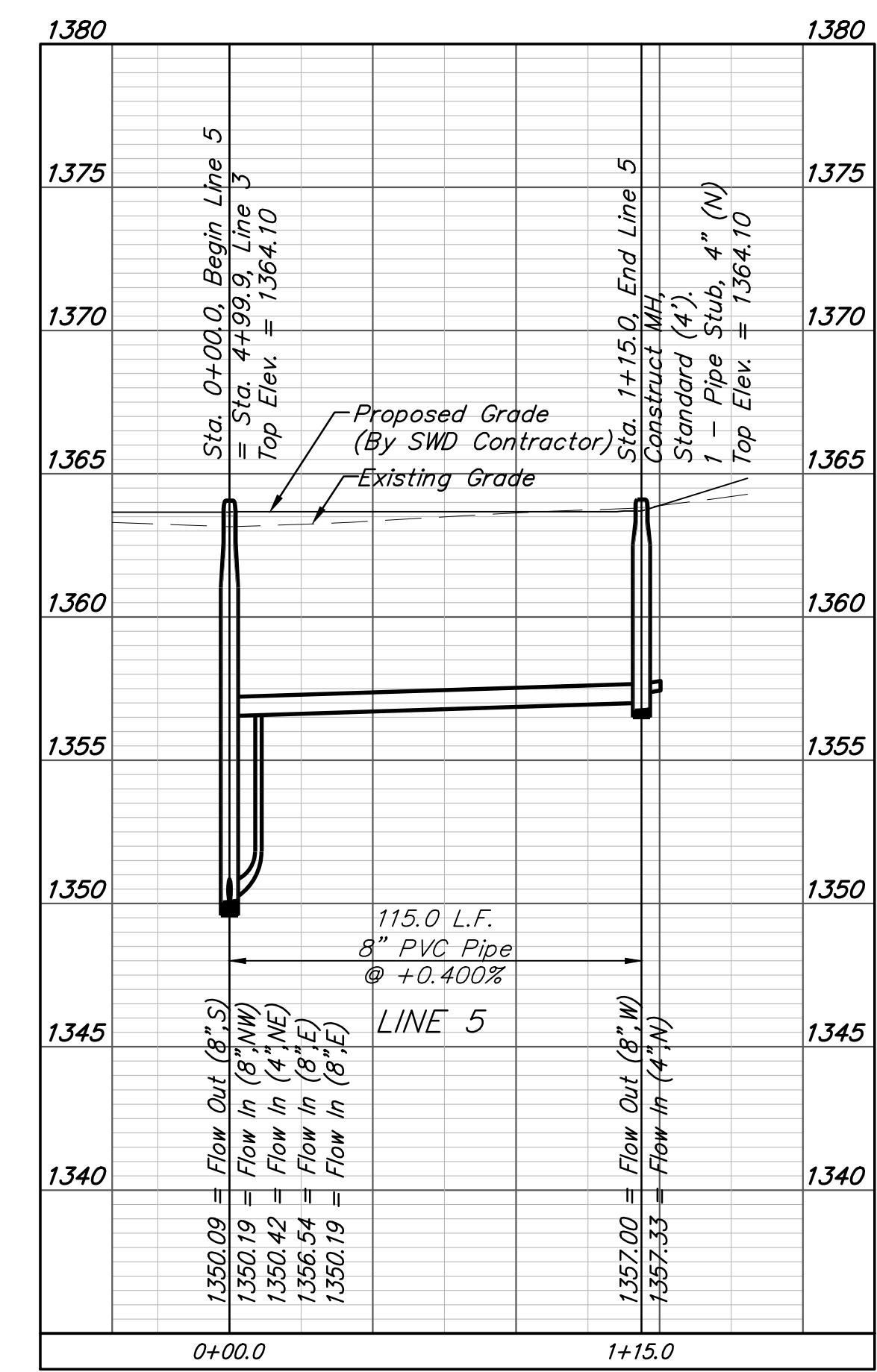
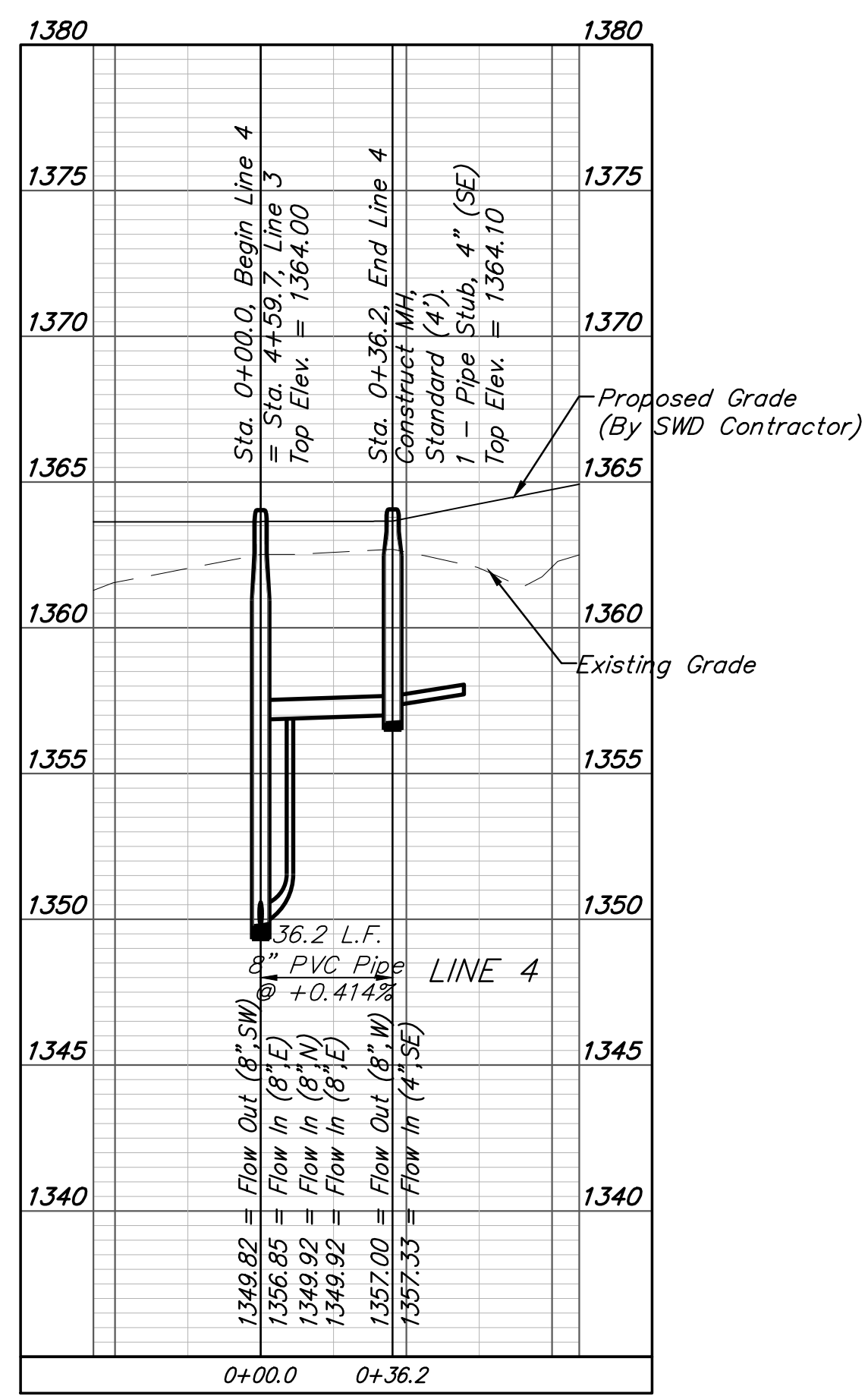
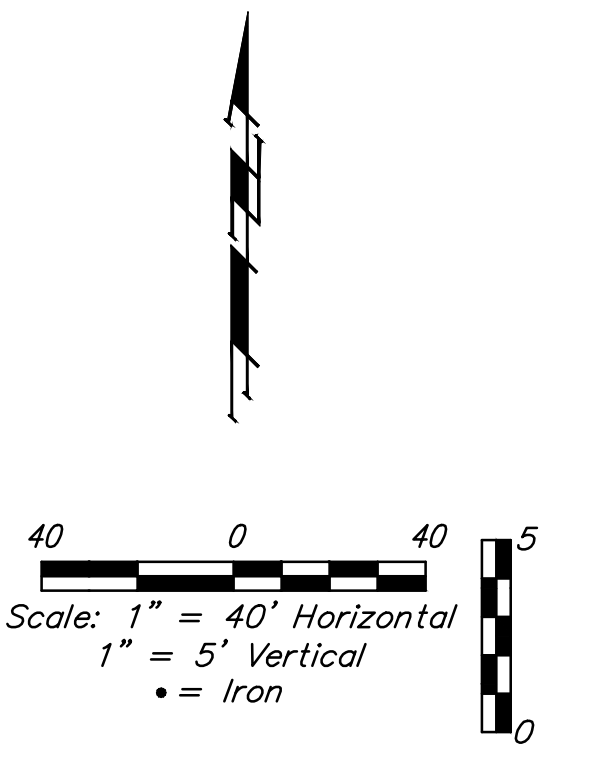
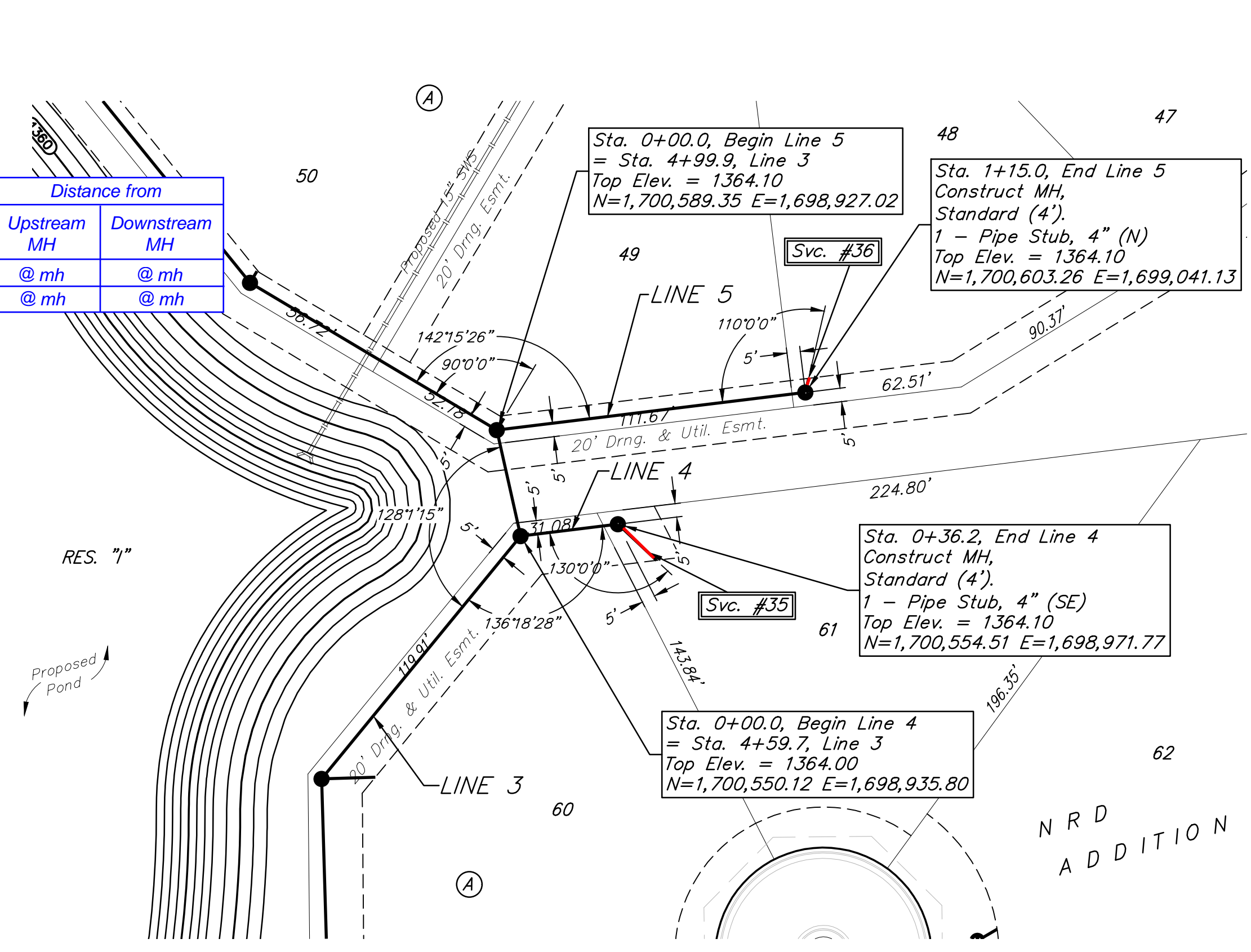
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

**SEWER SERVICE TABLE**

NUMBER	TYPE	LOCATION			STATION \ DIRECTION	FOR INFORMATION ONLY		Distance from Main to Riser (Lt./Rt.)	Distance from	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE			Upstream MH	Downstream MH
						VERTICAL	HORIZONTAL			
35	4" Stub	61	A	4	0+36.2/Rt.	-	19.6'	20' Rt.	@ mh	@ mh
36	4" Stub	48	A	5	1+15.0/Lt.	-	5.3'	5' Lt.	@ mh	@ mh

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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NRD ADDITION  
Phase I

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**LINES 4&5**

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SANITARY SEWER  
IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS  
DATE: October 12, 2021

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SHEET OF  
**8** **27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.12.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

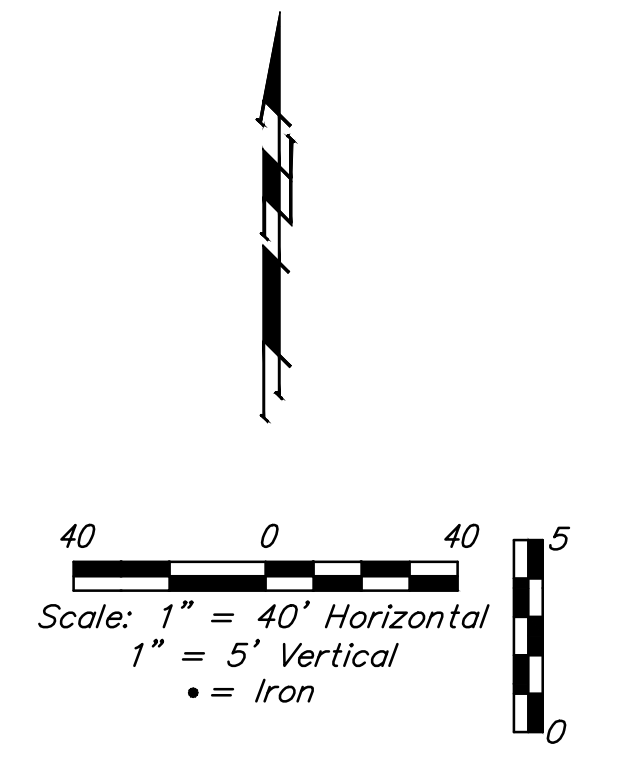
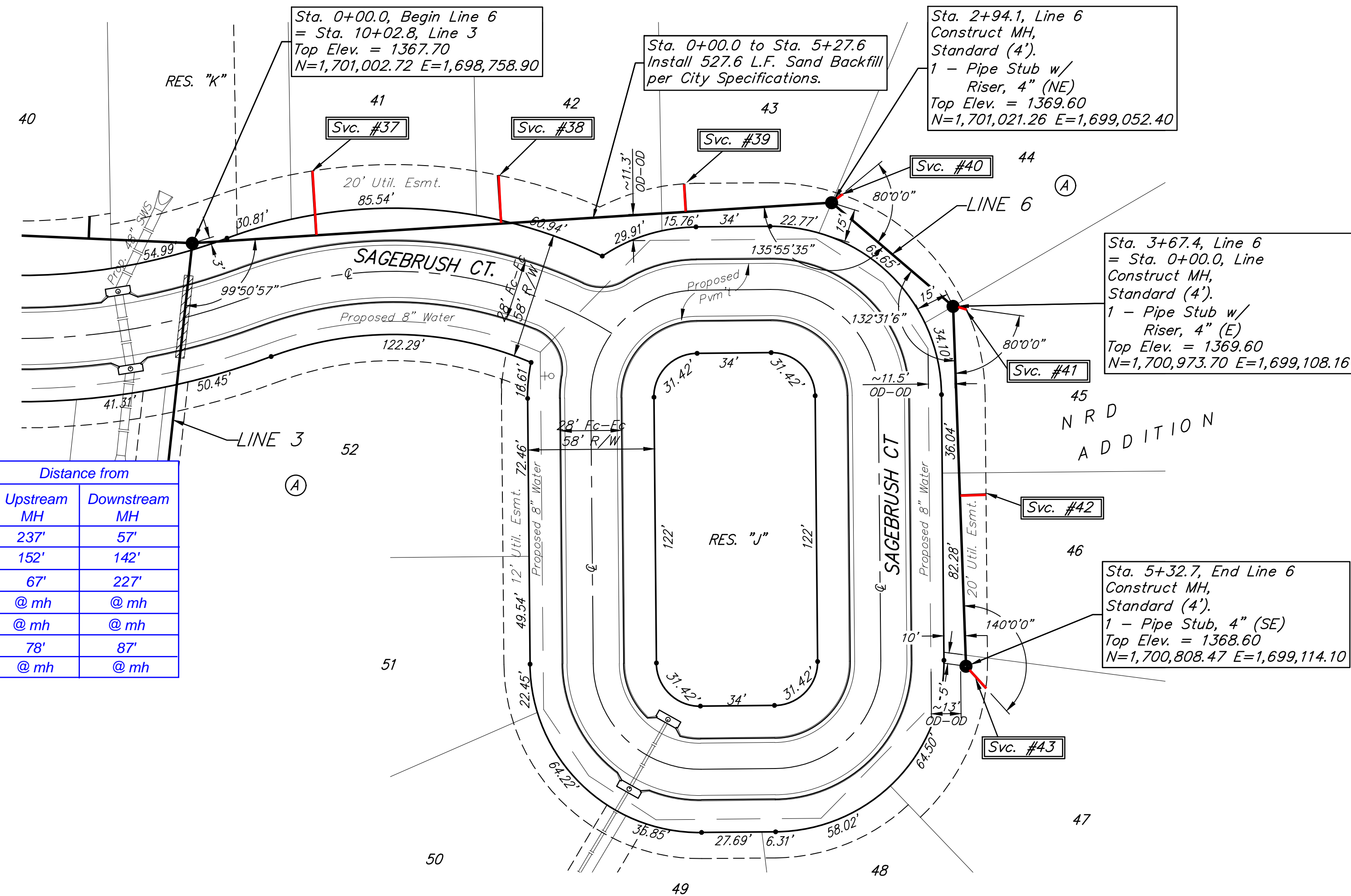
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

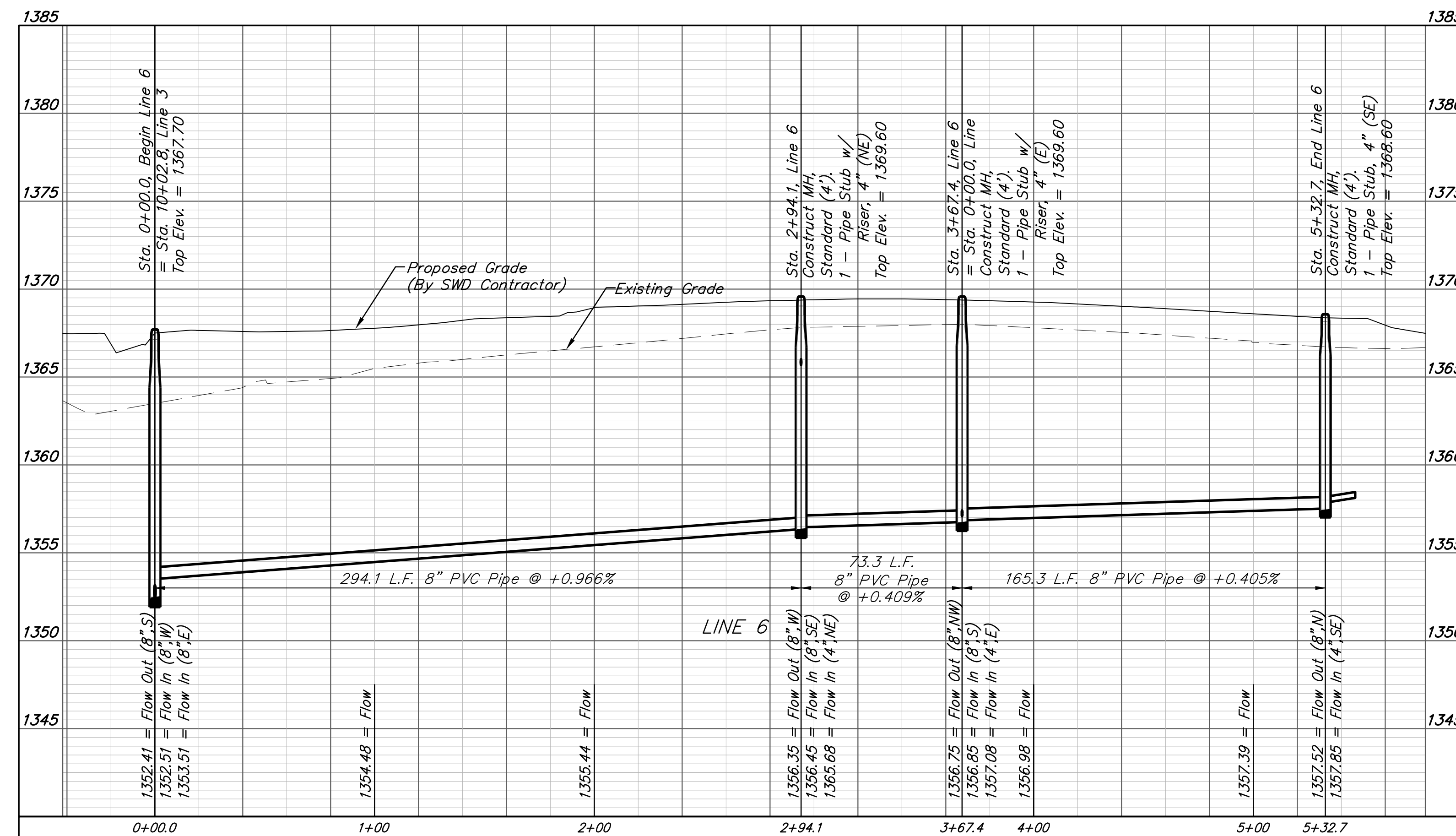
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY		Distance from Main to Riser (L./Rt.)	Distance from	
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE			Upstream MH	Downstream MH
						VERTICAL	HORIZONTAL			
37	8" X 4" Tee W/Riser	41	A	6	0+57.0/Lt.	10.0'	29.0'	30' Lt.	237'	57'
38	8" X 4" Tee W/Riser	42	A	6	1+42.0/Lt.	9.5'	23.6'	24' Lt.	152'	142'
39	8" X 4" Tee W/Riser	43	A	6	2+27.0/Lt.	9.5'	12.8'	13' Lt.	67'	227'
40	4" Stub W/Riser	44	A	6	2+94.1/Lt.	9.5'	5.9'	6' Lt.	@ mh	@ mh
41	4" Stub W/Riser	45	A	6	3+67.4/Lt.	9.0'	6.0'	6' Lt.	@ mh	@ mh
42	8" X 4" Tee W/Riser	46	A	6	4+54.3/Lt.	8.0'	12.1'	12' Lt.	78'	87'
43	4" Stub	47	A	6	5+32.7/Lt.	8.0'	14.5'	14.5' Lt.	@ mh	@ mh

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



For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps





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NRD ADDITION  
Phase I

---

**LINE 6**

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SANITARY SEWER IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS  
DATE: October 12, 2021

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SHEET OF  
**9 27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.12.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.0' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

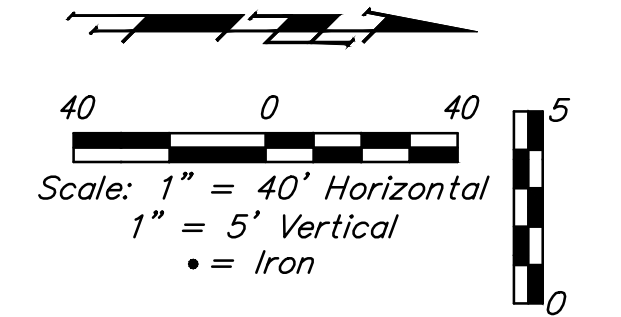
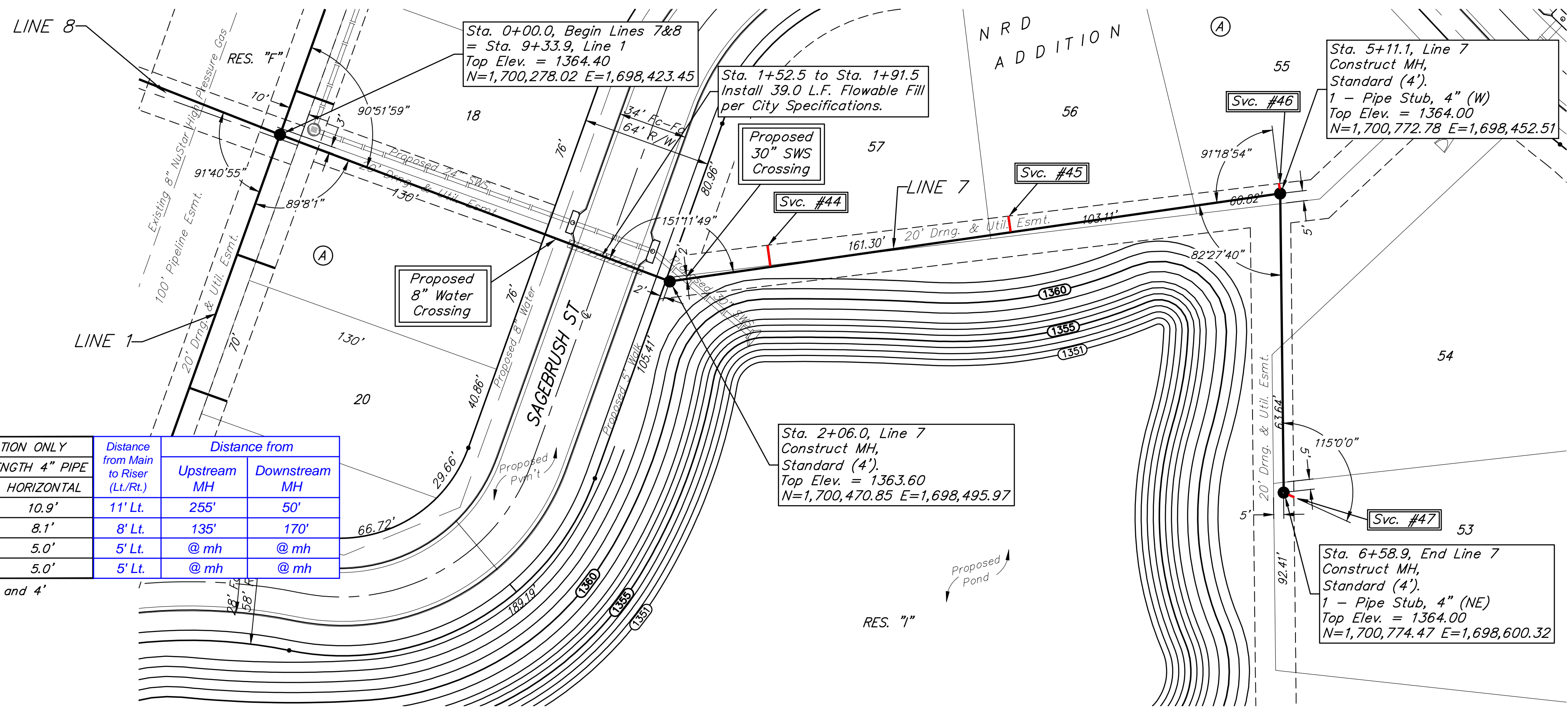
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

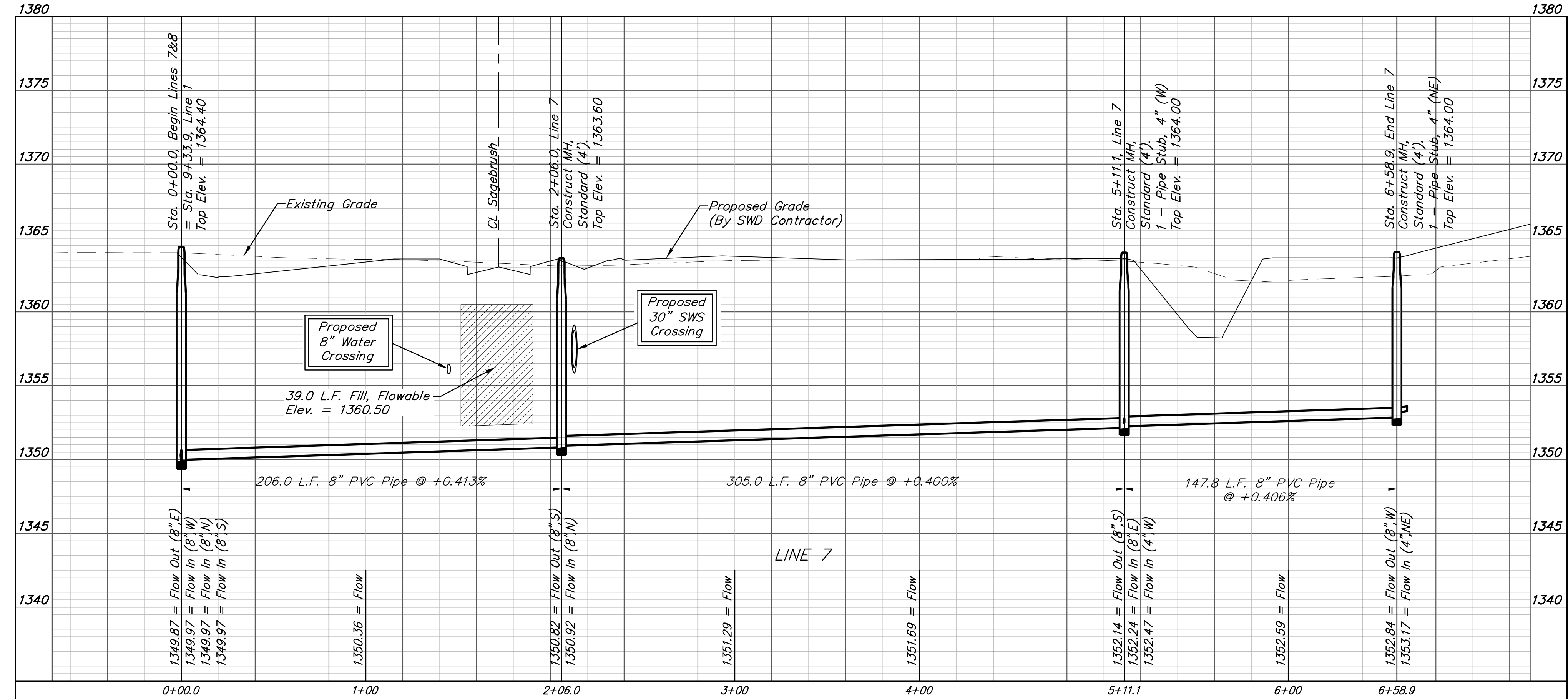
**SEWER SERVICE TABLE**

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 (Lt./Rt.)	Upstream MH	Downstream MH
44	8" X 4" Tee W/Riser	57	A	7	2+56.3/Lt.	9.0'	10.9'	11' Lt.	255'	50'
45	8" X 4" Tee W/Riser	56	A	7	3+76.3/Lt.	8.0'	8.1'	8' Lt.	135'	170'
46	4" Stub	55	A	7	5+11.1/Lt.	-	5.0'	5' Lt.	@ mh	@ mh
47	4" Stub	53	A	7	6+58.9/Lt.	-	5.0'	5' Lt.	@ mh	@ mh

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



For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps





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NRD ADDITION  
Phase I

---

**LINE 7**

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SANITARY SEWER IMPROVEMENTS

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PROJECT NUMBER:  
21-03-E866

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DESIGN: NBW DRAWN: TMS

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DATE: October 12, 2021

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SHEET OF  
**10 27**

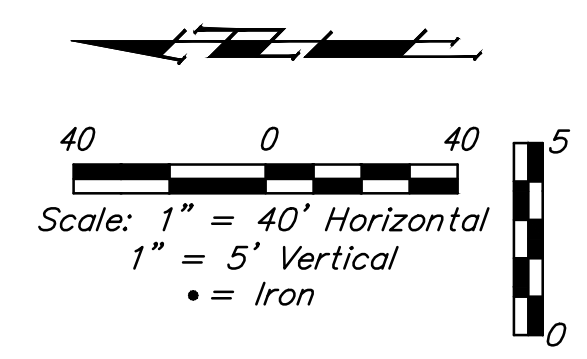
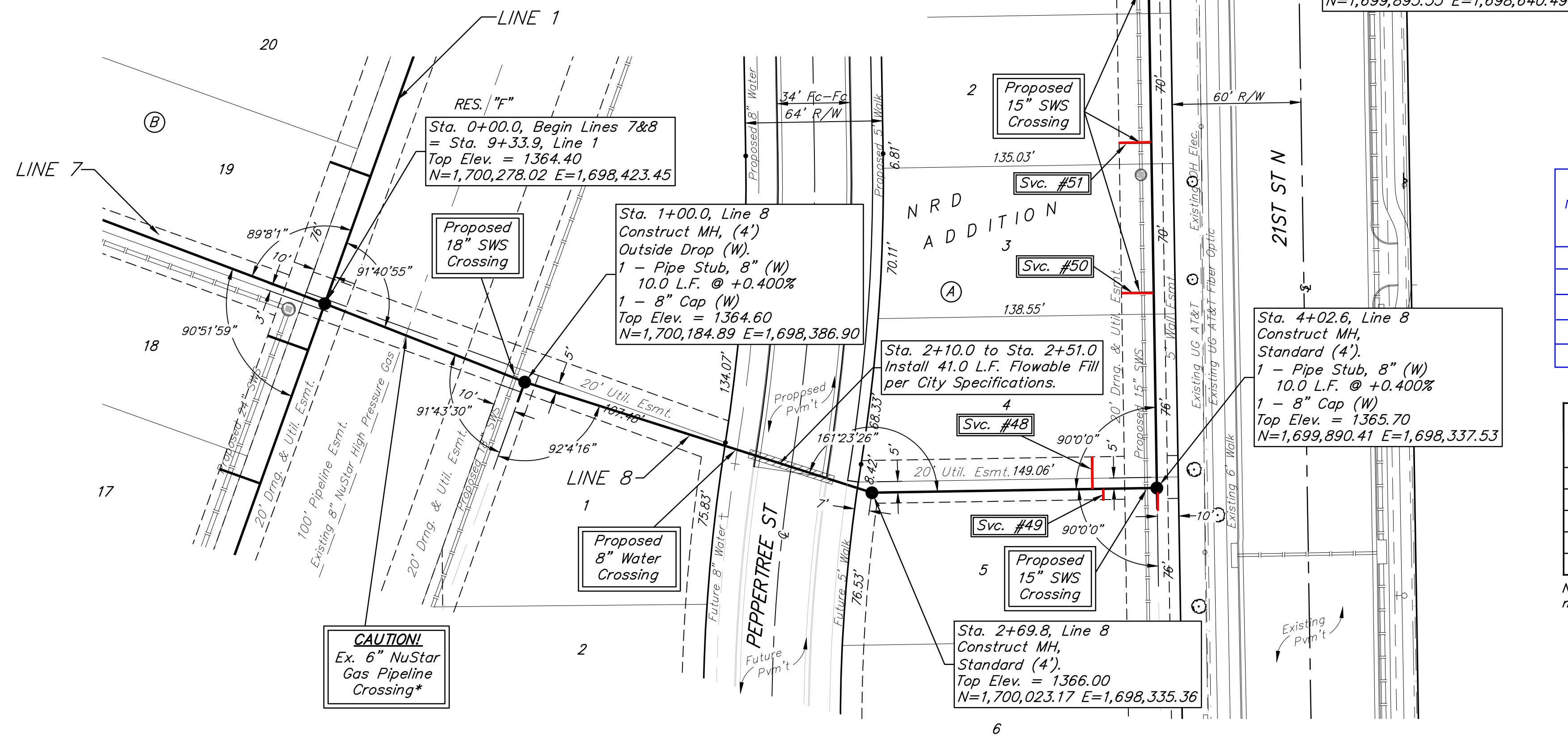
File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase I\SS 21-03-E866\SS R10.12.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1361.76 NAVD88

BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

\* When construction will occur within 50' of either side of NuStar gas pipeline, Contractor shall contact Kansas One-Call and NuStar a minimum of 72 hours prior to construction. Teresa Landry (316)322-0325. A representative of NuStar must be present for any construction activities within 50' of pipeline. A minimum of 24" O.D.-O.D. vertical separation is required between gas pipeline and proposed utilities.



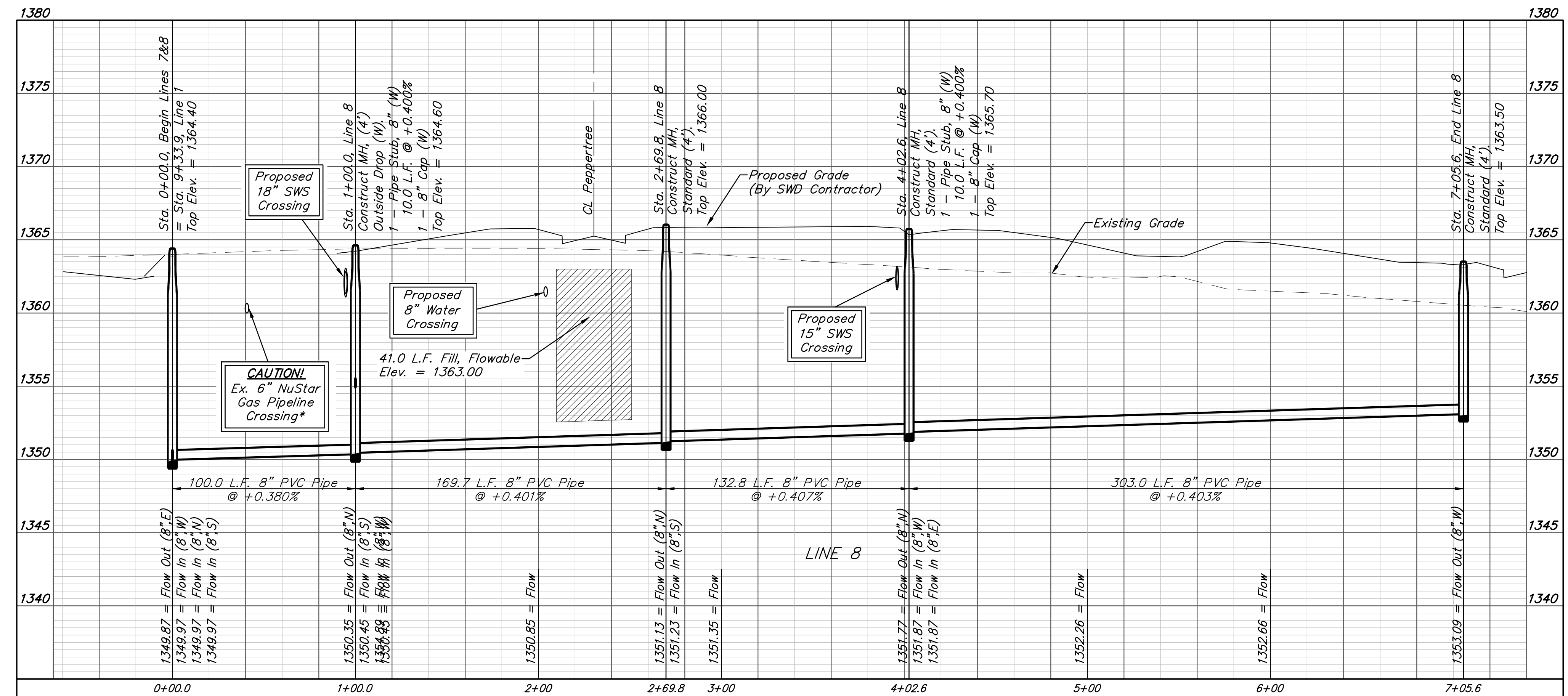
Number	Distance from Main to Riser (L/R)	Distance from	
		Upstream MH	Downstream MH
48	15' Lt.	30'	103'
49	5' Lt.	25'	108'
50	15' Lt.	212'	91'
51	15' Lt.	142'	161'
52	15' Lt.	72'	231'

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
48	8" X 4" Tee W/Riser	4	A	8	3+72.6/Lt.	10.5'	15.0'
49	8" X 4" Tee W/Riser	5	A	8	3+77.6/Lt.	10.5'	5.0'
50	8" X 4" Tee W/Riser	3	A	8	4+93.6/Lt.	8.5'	15.0'
51	8" X 4" Tee W/Riser	2	A	8	5+63.6/Lt.	8.0'	15.0'
52	8" X 4" Tee W/Riser	1	A	8	6+33.6/Lt.	8.0'	15.0'

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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NRD ADDITION  
 Phase I

**LINE 8**

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:  
 21-03-E866

DESIGN: NBW DRAWN: TMS  
 DATE: October 12, 2021

SHEET **11** OF **27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.12.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

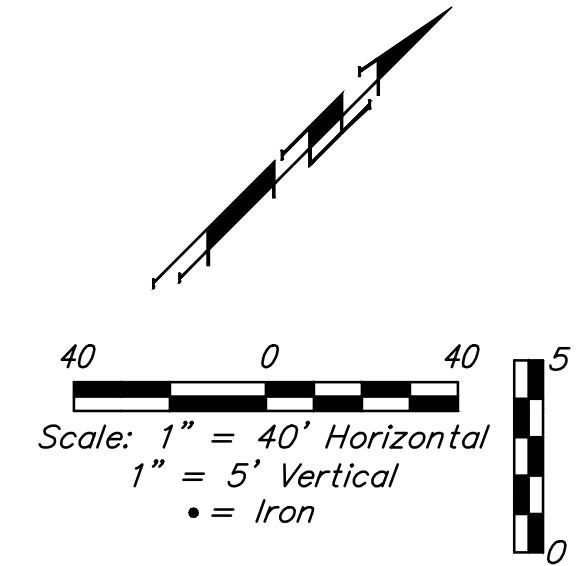
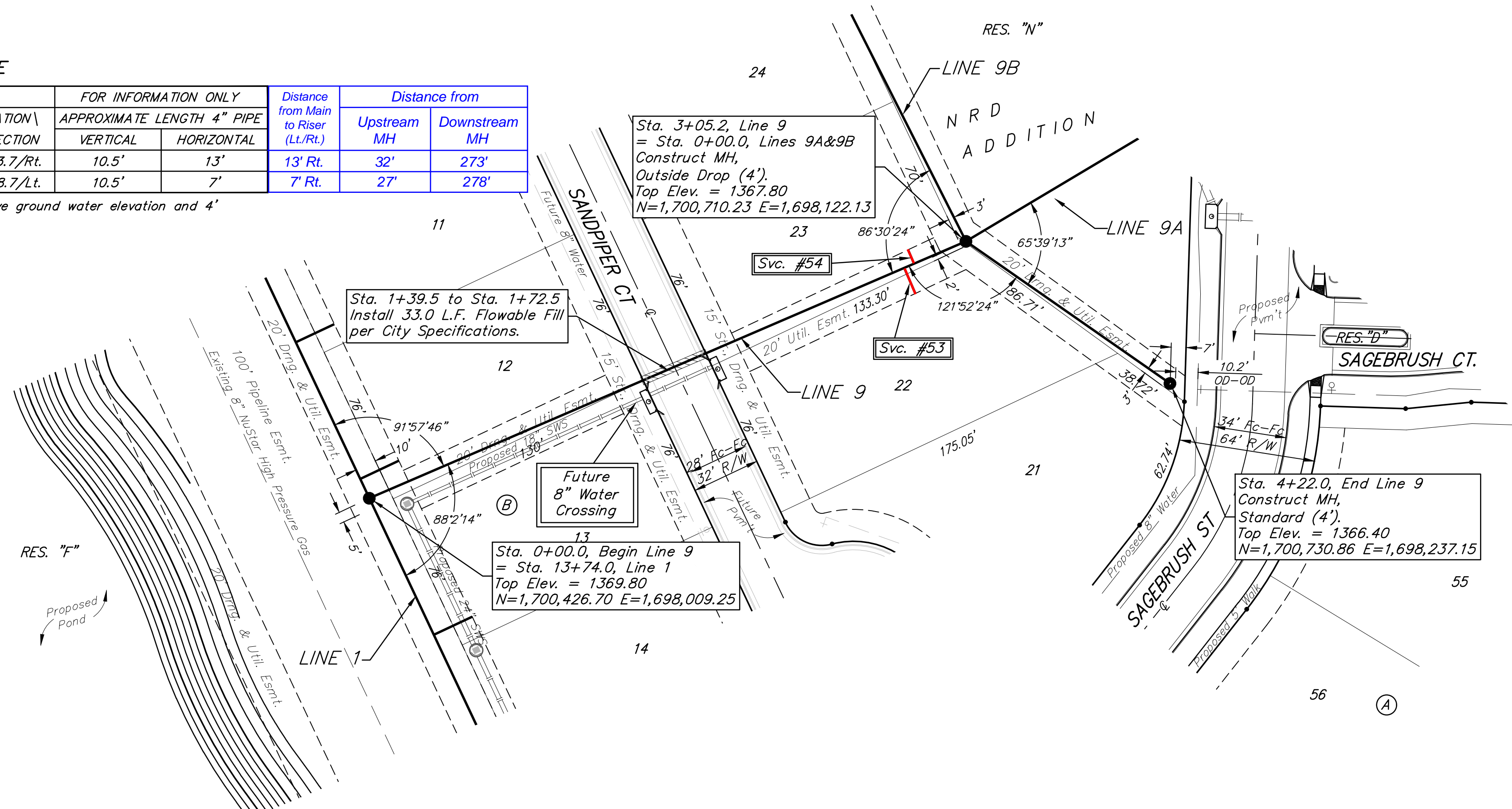
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

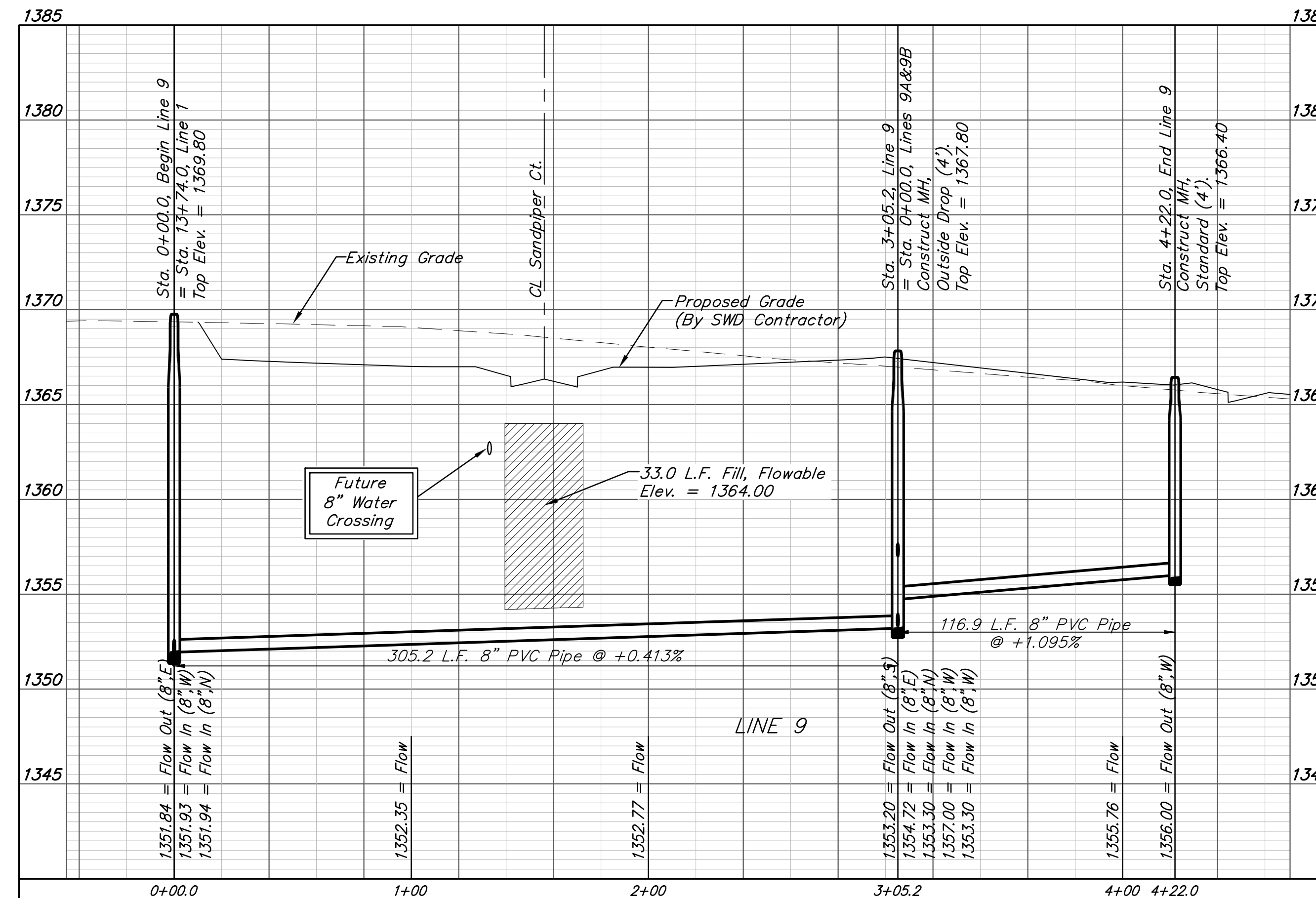
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from			
		LOT NO.	BLOCK NO.	LINE NO.	STATION DIRECTION	APPROXIMATE LENGTH 4" PIPE	Distance from Main to Riser (L.L./R.L.)	Upstream MH	Downstream MH	
53	8" X 4" Tee W/Riser	22	B	9	2+73.7/Rt.	VERTICAL 10.5'	HORIZONTAL 13'	13' Rt.	32'	273'
54	8" X 4" Tee W/Riser	23	B	9	2+78.7/Lt.	10.5'	7'	7' Rt.	27'	278'

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



For manholes greater than 12' deep or in groundwater, joint wraps shall be required.  
 12'-16' deep One wrap  
 16'-18' deep Two wraps  
 18'-20' deep Three wraps





**BAUGHMAN COMPANY**

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 316-262-7271  
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NRD ADDITION  
Phase I

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**LINE 9**

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SANITARY SEWER  
IMPROVEMENTS

---

PROJECT NUMBER:  
21-03-E866

---

DESIGN: NBW DRAWN: TMS  
DATE: October 12, 2021

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SHEET OF  
**12 27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.12.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1361.76 NAVD88

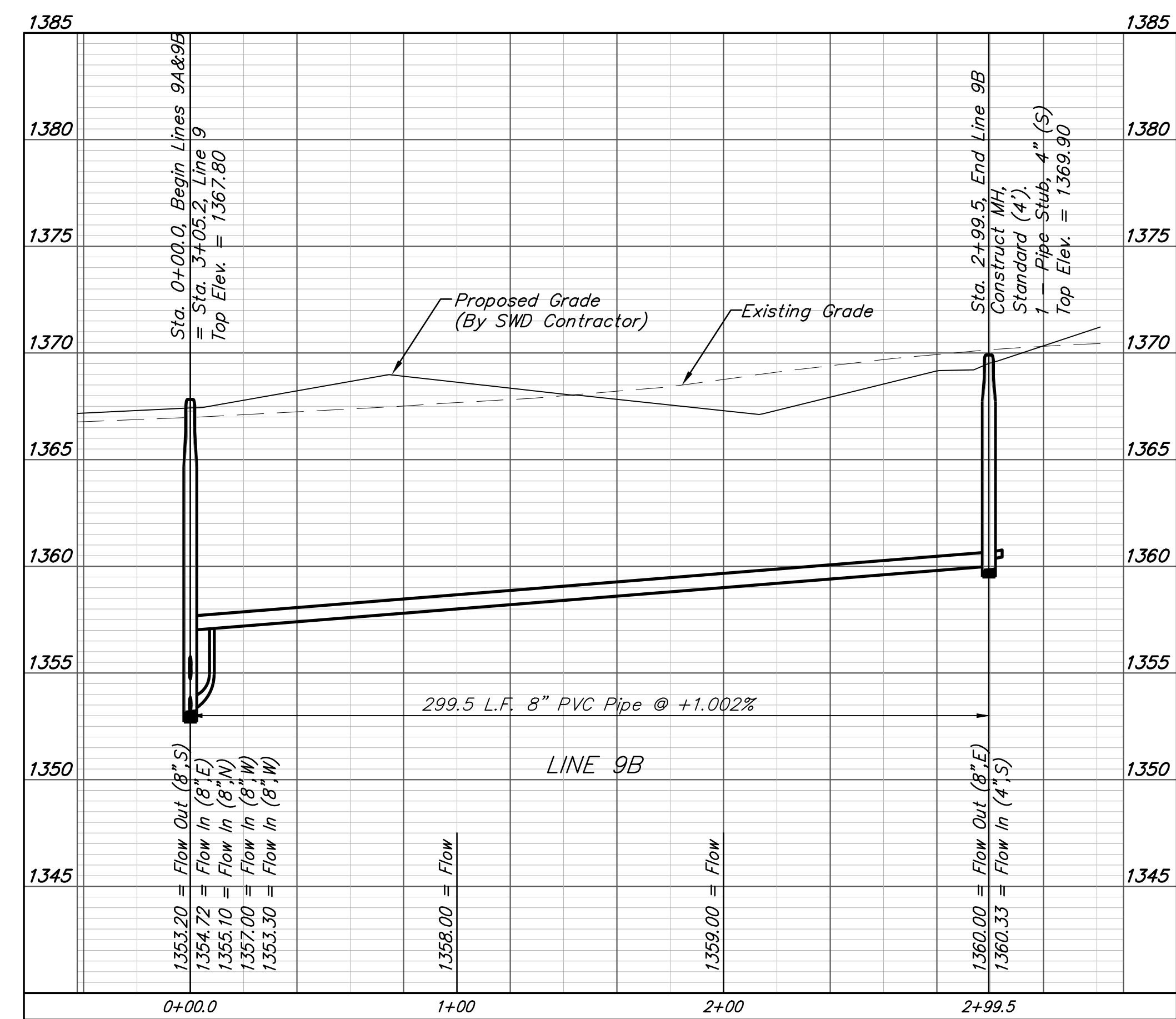
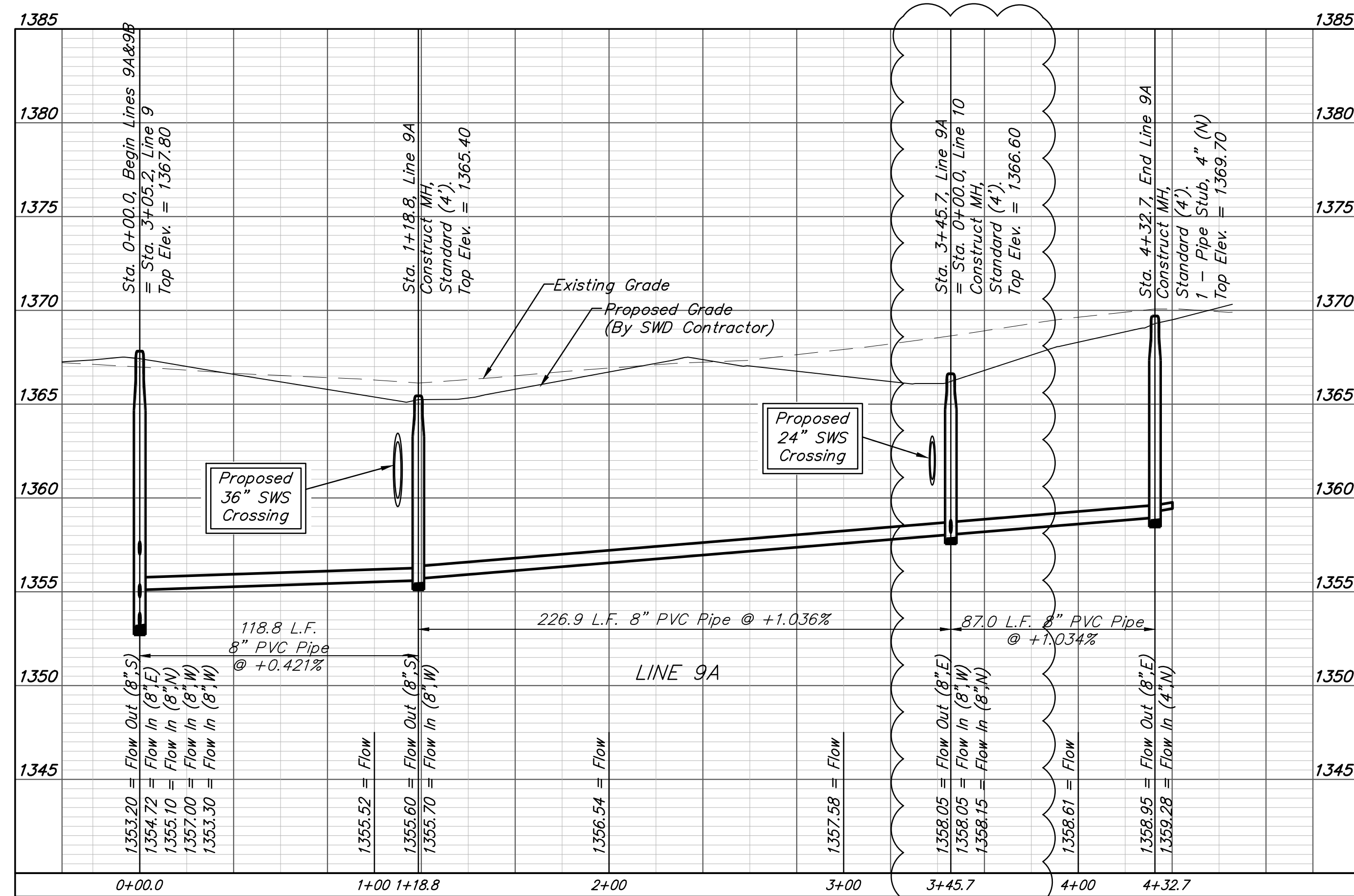
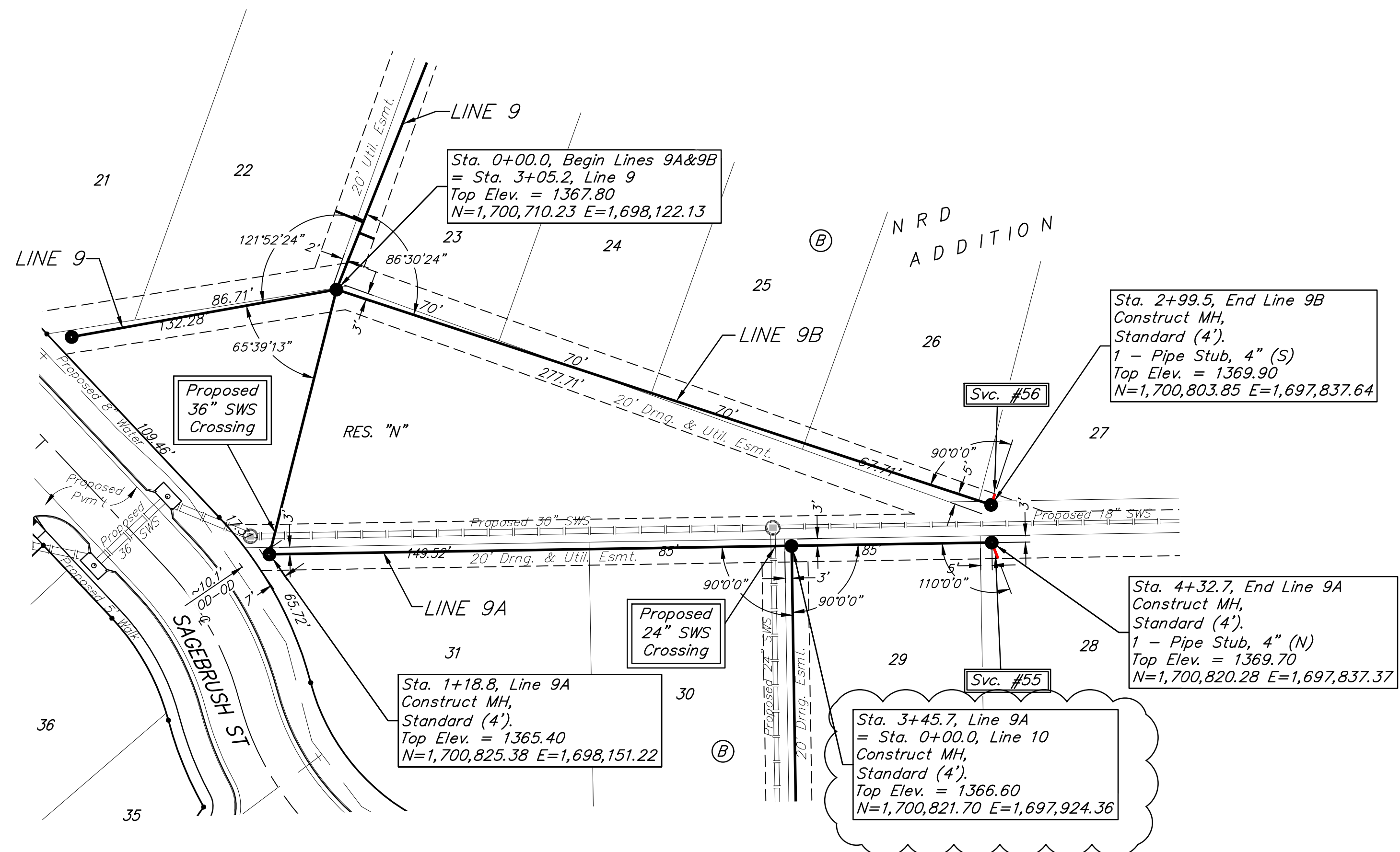
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S., R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

**SEWER SERVICE TABLE**

NUMBER	TYPE	LOCATION			STATION	FOR INFORMATION ONLY		Distance from Main to Riser (Lt./Rt.)	Distance from	
		LOT NO.	BLOCK NO.	LINE NO.		APPROXIMATE LENGTH 4" PIPE	VERTICAL		HORIZONTAL	Upstream MH
55	4" Stub	28	B	9A	4+32.7/Rt.	6.5'	7.5'	7.5' Rt.	@ mh	@ mh
56	4" Stub	27	B	9B	2+99.5/Lt.	5.5'	5.0'	5' Lt.	@ mh	@ mh

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



**B**

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NRD ADDITION  
 Phase I

**LINES 9A & 9B**

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:  
 21-03-E866

DESIGN: NBW DRAWN: TMS

DATE: October 25, 2021

SHEET OF  
**13 27**

REVISION: Add MH at 3+45.7 Line 9A (10/25/21 by TMS)

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.25.21.dwg

**BENCHMARKS:**  
 BM #1: Chiseled square on NW corner of catch basin, 262.2' W. & 35.9' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1361.76 NAVD88

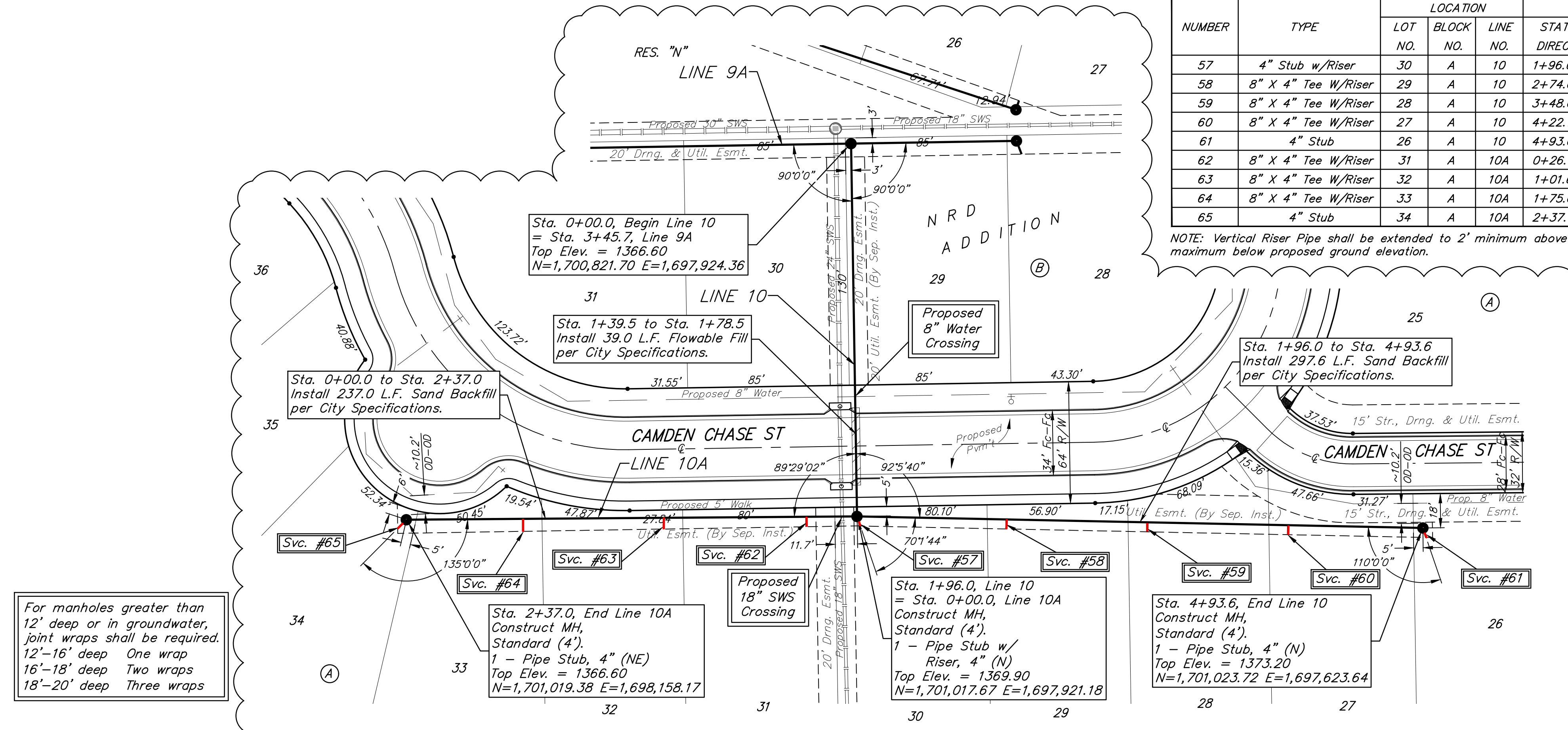
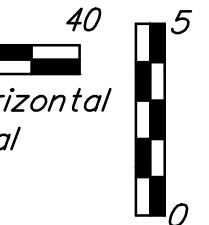
BM #2: Chiseled square on NW corner of catch basin, 962.0' W. & 35.8' N. of S1/4 Cor., Sec. 1, TWP. 27-S, R-2-E.  
 Elev. = 1363.84 NAVD88

BM #3: Chiseled square on NW corner of catch basin, 160.0' E. & 24.3' S. of SW Cor., Lot 13, Block A, NRD Addition.  
 Elev. = 1369.05 NAVD88

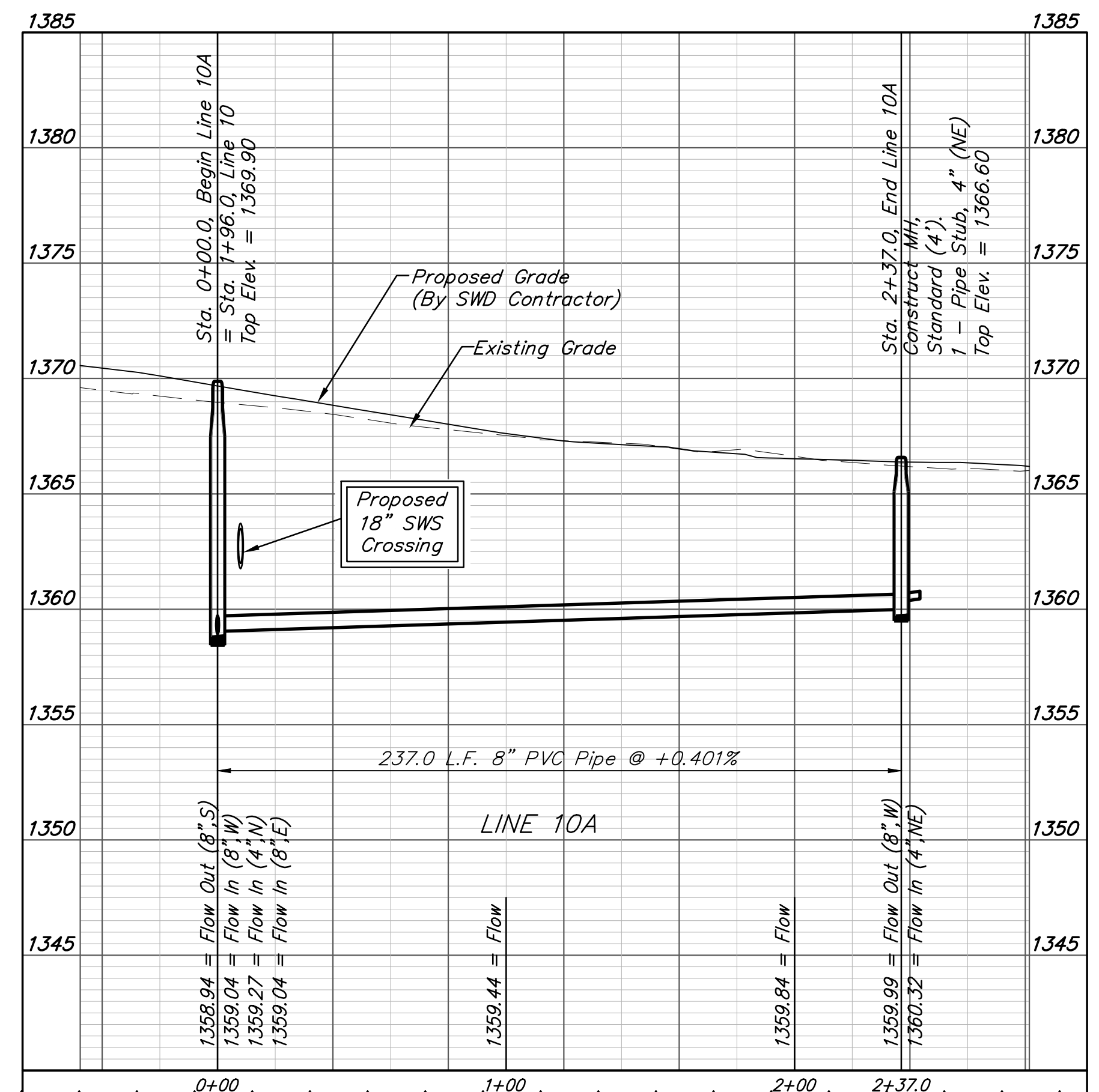
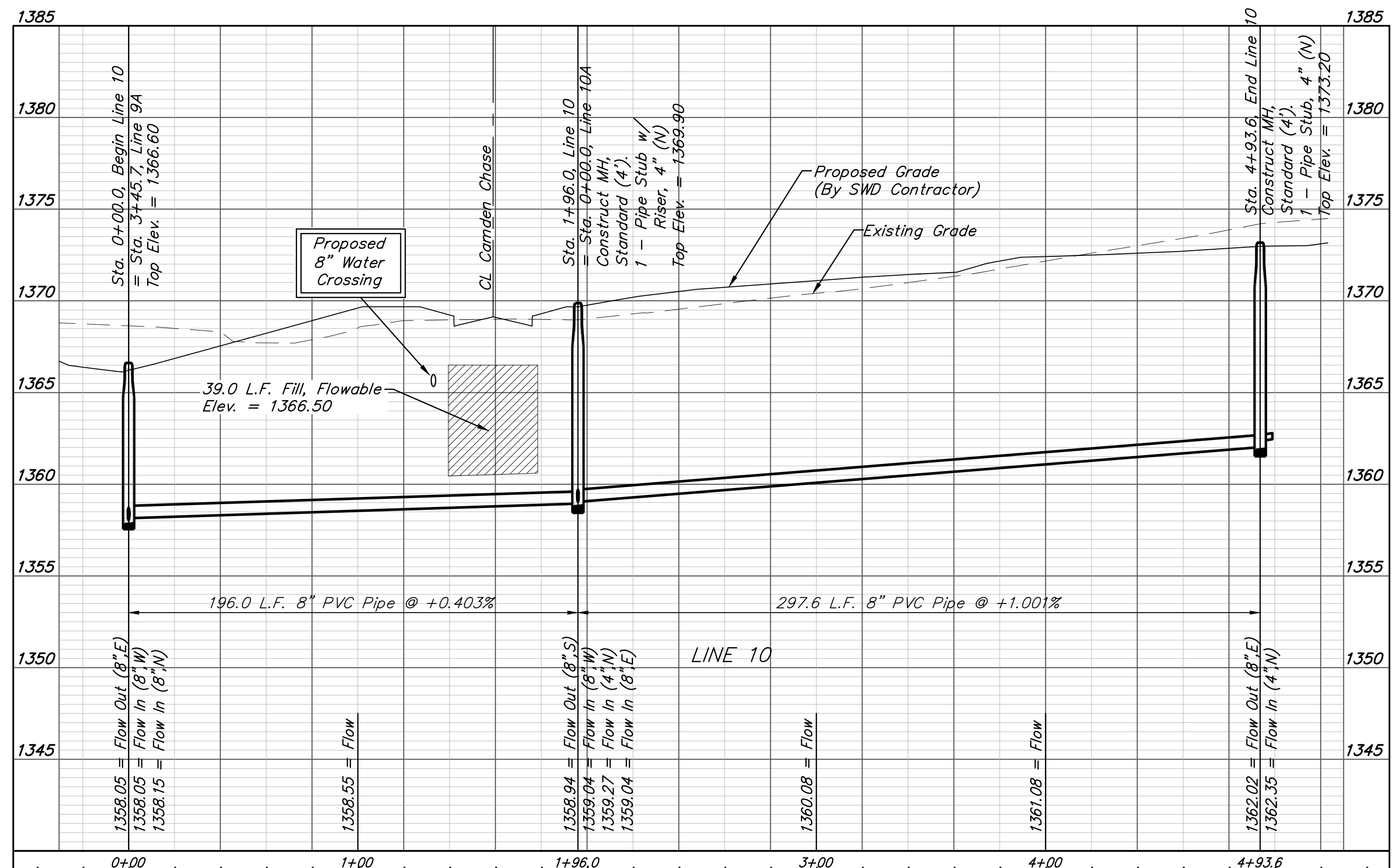
SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		Distance from Main to Riser (L/R)	Distance from		
		LOT NO.	BLOCK NO.	LINE NO.	STATION \ DIRECTION	APPROXIMATE LENGTH 4" PIPE		Upstream MH	Downstream MH	
					VERTICAL	HORIZONTAL				
57	4" Stub w/Riser	30	A	10	1+96.0/Rt.	8.0'	5.3'	5.5' Rt.	@ mh	@ mh
58	8" X 4" Tee W/Riser	29	A	10	2+74.6/Rt.	7.0'	5.0'	5' Rt.	219'	78'
59	8" X 4" Tee W/Riser	28	A	10	3+48.6/Rt.	7.0'	5.0'	5' Rt.	145'	152'
60	8" X 4" Tee W/Riser	27	A	10	4+22.7/Rt.	7.5'	5.0'	5' Rt.	71'	226'
61	4" Stub	26	A	10	4+93.6/Rt.	7.0'	5.3'	6.5' Rt.	@ mh	@ mh
62	8" X 4" Tee W/Riser	31	A	10A	0+26.6/Lt.	6.0'	5.3'	5.5' Lt.	211'	26'
63	8" X 4" Tee W/Riser	32	A	10A	1+01.6/Lt.	4.0'	5.9'	6' Lt.	136'	101'
64	8" X 4" Tee W/Riser	33	A	10A	1+75.6/Lt.	4.0'	6.6'	6.5' Lt.	62'	175'
65	4" Stub	34	A	10A	2+37.0/Lt.	4.0'	6.5'	6.5' Lt.	@ mh	@ mh

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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 12'-16' deep One wrap  
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NRD ADDITION  
 Phase I

**LINES 10 & 10A**

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:  
 21-03-E866

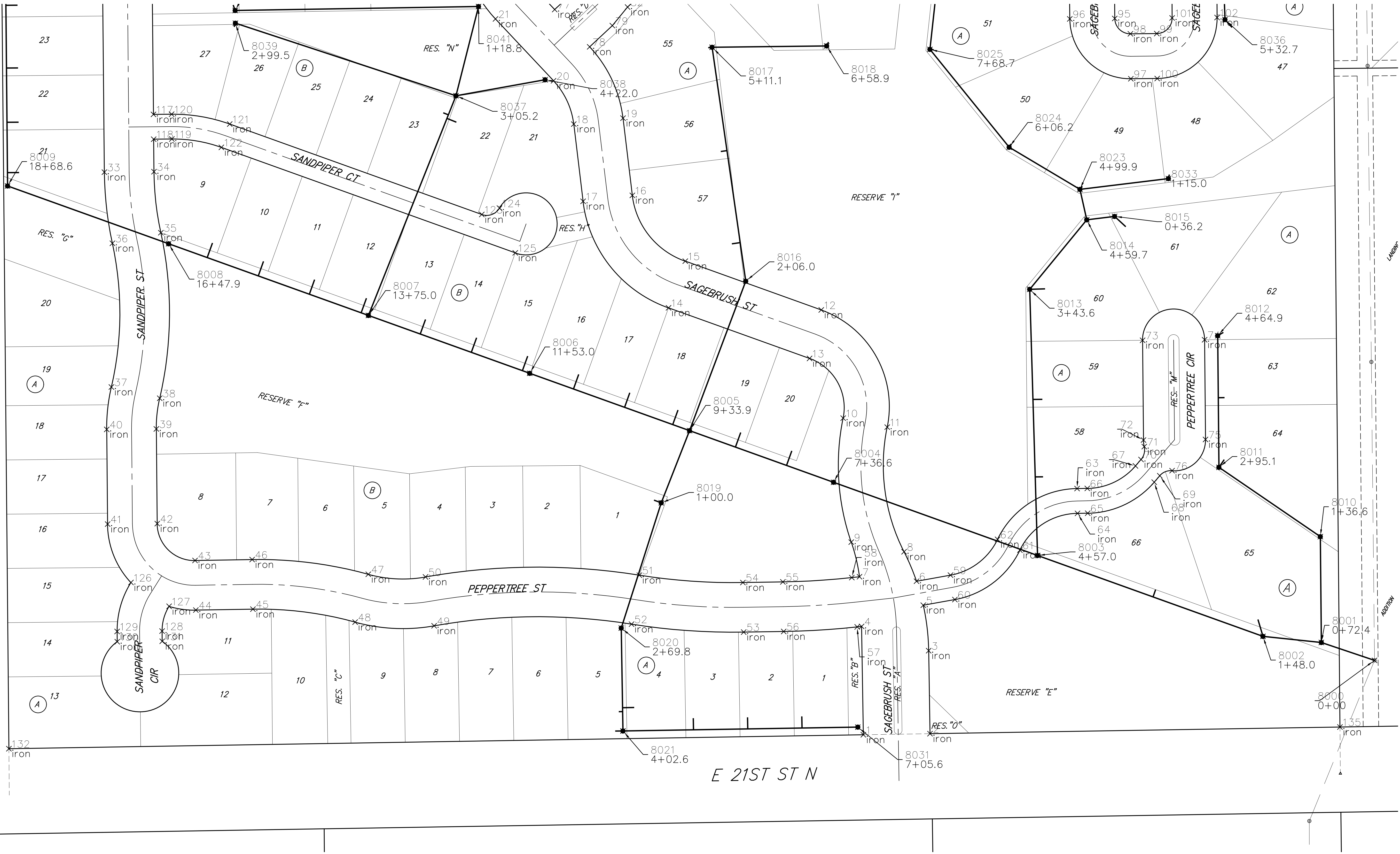
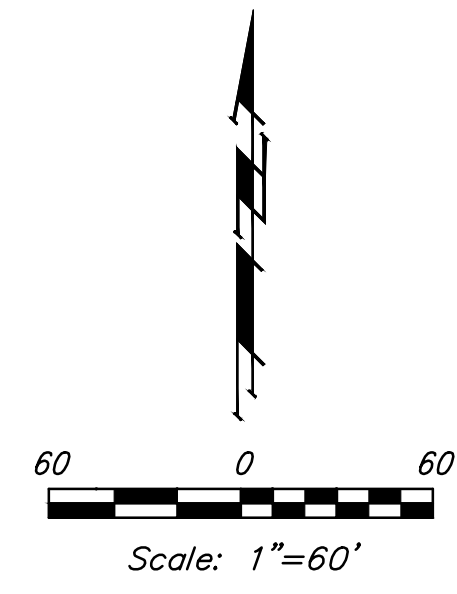
DESIGN: NBW DRAWN: TMS

DATE: October 25, 2021

SHEET OF  
**14 27**

REVISION: Add Lines 10 & 10A (10/25/21 by TMS)

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS R10.25.21.dwg





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NRD ADDITION

**COORDINATE  
SHEET**

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SANITARY SEWER  
IMPROVEMENTS

PROJECT NUMBER:  
21-03-E866

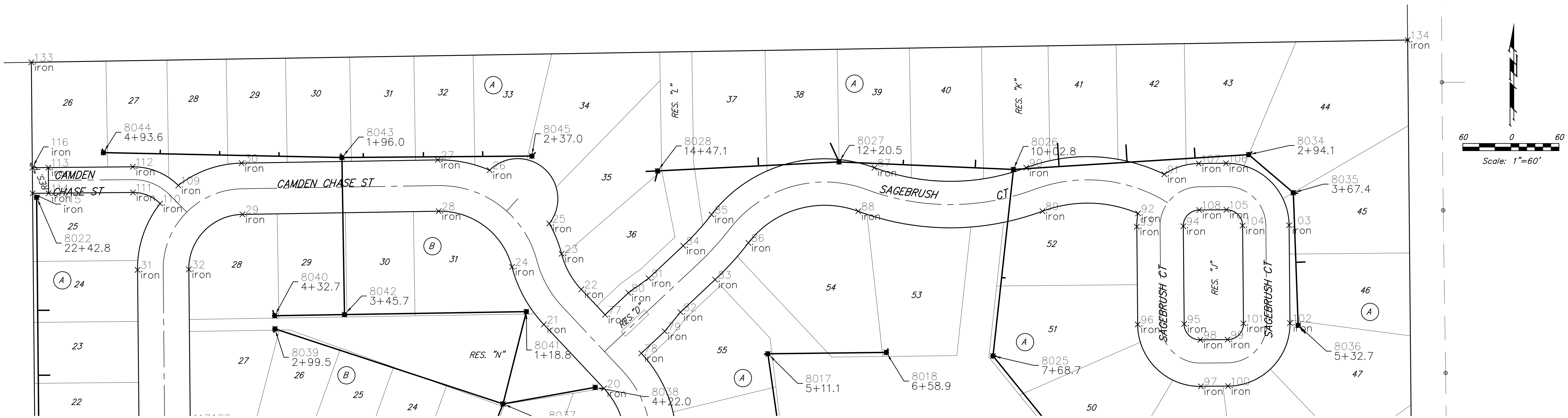
DESIGN: NBW DRAWN: TMS

DATE: July 28, 2021

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SHEET **25** OF **27**

File: E:\Projects\NRD Addition\_19-04-P448\Engineering\Phase 1\SS 21-03-E866\SS.dwg



**IRONS**

Point #	Northing	Easting	Raw Description
1	1699885.47	1698647.65	iron
2	1699886.87	1698733.64	iron
3	1699994.00	1698731.89	iron
4	1700025.34	1698645.37	iron
5	1700052.69	1698724.95	iron
6	1700083.63	1698716.25	iron
7	1700089.43	1698642.67	iron
8	1700121.68	1698700.17	iron
9	1700134.14	1698632.02	iron
10	1700294.15	1698621.57	iron
11	1700282.53	1698678.39	iron
12	1700433.78	1698593.34	iron
13	1700371.20	1698578.24	iron
14	1700436.50	1698396.32	iron
15	1700496.74	1698417.94	iron
16	1700581.65	1698349.66	iron
17	1700573.99	1698286.12	iron
18	1700673.64	1698274.10	iron
19	1700681.30	1698337.64	iron
20	1700729.54	1698247.99	iron
21	1700809.34	1698173.07	iron
22	1700853.15	1698219.73	iron
23	1700897.50	1698195.19	iron
24	1700881.25	1698133.29	iron
25	1700935.25	1698179.81	iron
26	1701001.82	1698105.45	iron
27	1701014.61	1698040.79	iron
28	1700950.62	1698041.83	iron
29	1700946.65	1697797.02	iron
30	1701010.64	1697795.98	iron
31	1700877.43	1697666.12	iron
32	1700878.03	1697730.12	iron
33	1700611.57	1697668.58	iron
34	1700612.16	1697732.58	iron
35	1700533.45	1697741.44	iron

Point #	Northing	Easting	Raw Description
36	1700519.80	1697678.91	iron
37	1700334.26	1697677.67	iron
38	1700319.77	1697740.01	iron
39	1700280.18	1697735.65	iron
40	1700279.59	1697671.66	iron
41	1700157.39	1697672.79	iron
42	1700157.98	1697736.78	iron
43	1700110.43	1697785.57	iron
44	1700046.44	1697786.61	iron
45	1700047.64	1697860.22	iron
46	1700111.63	1697859.18	iron
47	1700092.63	1698009.03	iron
48	1700030.92	1697992.05	iron
49	1700026.14	1698093.97	iron
50	1700089.17	1698082.84	iron
51	1700091.45	1698358.67	iron
52	1700028.25	1698348.58	iron
53	1700017.96	1698493.28	iron
54	1700081.95	1698492.23	iron
55	1700082.80	1698543.83	iron
56	1700018.81	1698544.87	iron
57	1700024.72	1698639.67	iron
58	1700088.35	1698632.74	iron
59	1700091.51	1698760.00	iron
60	1700060.02	1698765.67	iron
61	1700123.76	1698849.58	iron
62	1700137.67	1698820.76	iron
63	1700203.23	1698923.33	iron
64	1700171.23	1698923.85	iron
65	1700171.45	1698937.00	iron
66	1700203.44	1698936.47	iron
67	1700232.46	1698998.62	iron
68	1700211.52	1699022.82	iron
69	1700219.82	1699030.00	iron
70	1700240.76	1699005.80	iron

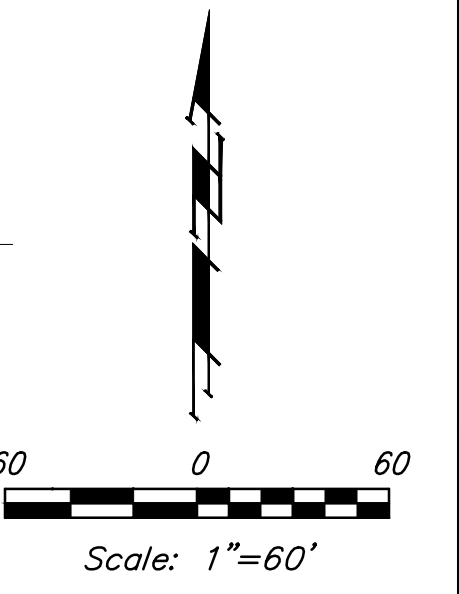
Point #	Northing	Easting	Raw Description
71	1700257.38	1699009.96	iron
72	1700265.83	1699008.98	iron
73	1700394.57	1699007.79	iron
74	1700395.31	1699087.79	iron
75	1700266.57	1699088.98	iron
76	1700226.32	1699045.85	iron
77	1700821.47	1698249.47	iron
78	1700773.35	1698294.65	iron
79	1700800.73	1698323.81	iron
80	1700848.85	1698278.63	iron
81	1700866.97	1698303.78	iron
82	1700824.69	1698343.48	iron
83	1700865.25	1698386.68	iron
84	1700907.53	1698346.98	iron
85	1700946.47	1698382.23	iron
86	1700911.16	1698428.24	iron
87	1701004.91	1698585.54	iron
88	1700950.55	1698565.31	iron
89	1700950.62	1698795.09	iron
90	1701004.97	1698774.81	iron
91	1700996.73	1698947.11	iron
92	1700947.91	1698914.43	iron
93	1700931.41	1698912.82	iron
94	1700931.94	1698970.82	iron
95	1700809.95	1698971.95	iron
96	1700809.41	1698913.95	iron
97	1700732.14	1698992.67	iron
98	1700790.14	1698992.13	iron
99	1700790.45	1699026.13	iron
100	1700732.45	1699026.67	iron
101	1700810.63	1699045.94	iron
102	1700811.17	1699103.94	iron
103	1700933.17	1699102.81	iron
104	1700932.63	1699044.81	iron
105	1700952.44	1699024.63	iron

Point #	Northing	Easting	Raw Description
106	1701010.44	1699024.09	iron
107	1701010.13	1699090.09	iron
108	1700952.13	1698990.63	iron
109	1700982.78	1697716.99	iron
110	1700960.20	1697694.31	iron
111	1700974.06	1697660.50	iron
112	1701006.06	1697660.20	iron
113	1701005.08	1697554.90	iron
114	1700973.09	1697555.20	iron
115	1700972.90	1697535.20	iron
116	1701004.90	1697534.90	iron
117	1700686.15	1697731.90	iron
118	1700654.15	1697732.19	iron
119	1700654.37	1697755.63	iron
120	1700686.37	1697755.33	iron
121	1700673.68	1697830.30	iron
122	1700643.56	1697819.49	iron
123	1700556.97	1698155.42	iron
124	1700565.22	1698178.21	iron
125	1700507.45	1698198.67	iron
126	1700082.03	1697702.88	iron
127	1700051.31	1697752.08	iron
128	1700019.31	1697743.07	iron
129	1700018.77	1697685.07	iron
130	1700005.62	1697685.19	iron
131	1700006.16	1697743.19	iron
132	1699867.49	1697545.42	iron
133	1701136.40	1697533.68	iron
134	1701164.26	1699250.68	iron
135	1699895.49	1699262.42	iron

**SANITARY SEWER**

Point #	Northing	Easting	Raw Description
8000	1699981.53	1699306.99	0+00
8001	1700004.61	1699238.41	0+72.4
8002	1700012.50	1699163.14	1+48.0
8003	1700116.88	1698872.37	4+57.0
8004	1700211.35	1698609.18	7+36.6
8005	1700278.02	1698423.45	9+33.9
8006	1700352.03	1698217.25	11+53.0
8007	1700426.70	1698009.25	13+75.0
8008	1700519.24	1697751.44	16+47.9
8009	1700593.81	1697543.70	18+68.6
8010	1700141.20	1699237.14	1+36.6
8011	1700230.64	1699106.31	2+95.1
8012	1700400.47	1699104.74	4+64.9
8013	1700460.36	1698862.18	3+43.6
8014	1700550.12	1698935.80	4+59.7
8015	1700554.51	1698971.77	0+36.2
8016	1700470.85	1698495.97	2+06.0
8017	1700772.78	1698452.51	5+11.1
8018	1700774.47	1698600.32	6+58.9
8019	1700184.89	1698386.90	1+00.0
8020	1700023.17	1698335.36	2+69.8
8021	1699980.41	1698337.53	4+02.6
8022	1700967.95	1697540.24	22+42.8
8023	1700018.77	1697685.07	4+99.9
8024	1700643.77	1698835.70	6+06.2
8025	1700770.05	1698733.48	7+68.7
8026	1701002.72	1698758.90	10+02.8
8027	1701012.18	1698541.33	12+20.5
8028	1701000.93	1698315.02	14+47.1
8031	1699895.35	1698640.49	7+05.6
8033	1700603.26	1699041.13	1+15.0
8034	1701021.26	1699052.40	2+94.1
8035	1700973.70	1699108.16	3+67.4
8036	1700808.47	1699114.10	5+32.7
8037	1700710.23	1698122.13	3+05.2

Point #	Northing	Easting	Raw Description
8038	1700730.86	1698237.15	4+22.0
8039	1700803.85	1697837.64	2+99.5
8040	1700820.28	1697837.37	4+32.7
8041	1700825.38	1698151.22	1+18.8
8042	1700821.70	1697924.36	3+45.7
8043	1701017.67	1697921.18	1+96.0
8044	1701023.72	1697623.64	4+93.6
8045	1701019.38	1698158.17	2+37.0





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NRD ADDITION

**COORDINATE  
SHEET**

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SANITARY SEWER  
IMPROVEMENTS

PROJECT NUMBER:  
21-03-E866

DESIGN: NBW DRAWN: TMS  
DATE: October 12, 2021

SHEET OF  
**26 27**

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