





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

**Sanitary Sewer Riser Table**

**Project Name:** WDS\_SS to serve Blue Lake 1st & 2nd Addition  
**Project Location:** north of MacArthur Rd, east of Hoover Rd  
**Project No:** 468-2023-003057  
**MUNIS No:** E3084/47268623  
**Contractor:** Nowak Construction Co., Inc.  
**Inspector:** Daniel Swinger

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Distance from		Comment
				Upstream MH	Downstream MH	
1	11	00+67.30	9.5' Rt	208.6	5.5	
2	2	05+16.70	7.5' Rt	at MH	301	MH Stub
3	2	00+14.00	11.7' Rt	14.8	226.8	
4	2	00+87.00	10.4' Rt	85	156.6	
5	2	01+66.70	13.4' Rt	166.2	75.4	
6	2	02+39.40	6.9' Rt	77	3.3	MH Stub
7	2	03+20.40	9.2' Lt	131.7	13.3	MH Stub
8	2	04+66.80	7.6' Rt	249	1	MH Stub
9	2	05+52.20	16.5' Lt	165.2	84.8	
10	2	06+42.90	12.8' Lt	71.4	178.6	
11	2	08+99.40	10.9' Lt	140	12.5	
12	4	01+19.60	6.9' Lt	at MH	120.3	MH Stub
13	5	00+85.50	10.9' Lt	137.4	82.6	
14	5	02+20.90	18.3' Lt	at MH	221	MH Stub
15	5	02+20.90	10.4' Rt	at MH	221	MH Stub

**BENCHMARKS:**  
 BM #1 - on top of curb, northwest face of trap inlet on the most southerly corner common to Lots B3 and B4, Block D, Blue Lake Addition  
 Elev. = 103.95 City Datum

BM #2 - " with + cut on northwest face of trap inlet on the most southerly corner common to Lots B3 and B4, Block D, Blue Lake Addition  
 Elev. = 103.95 City Datum

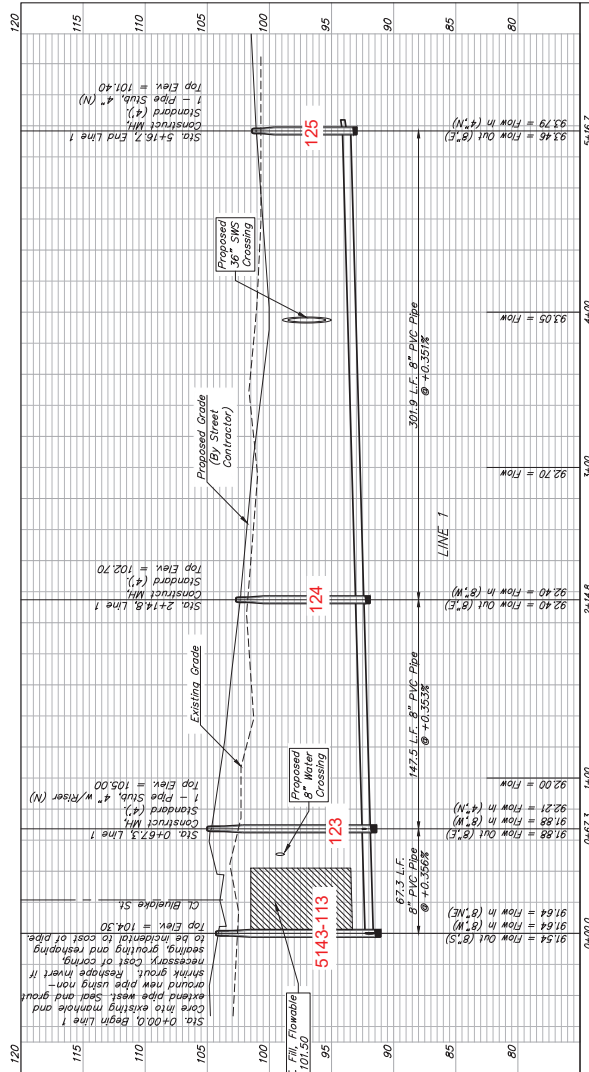
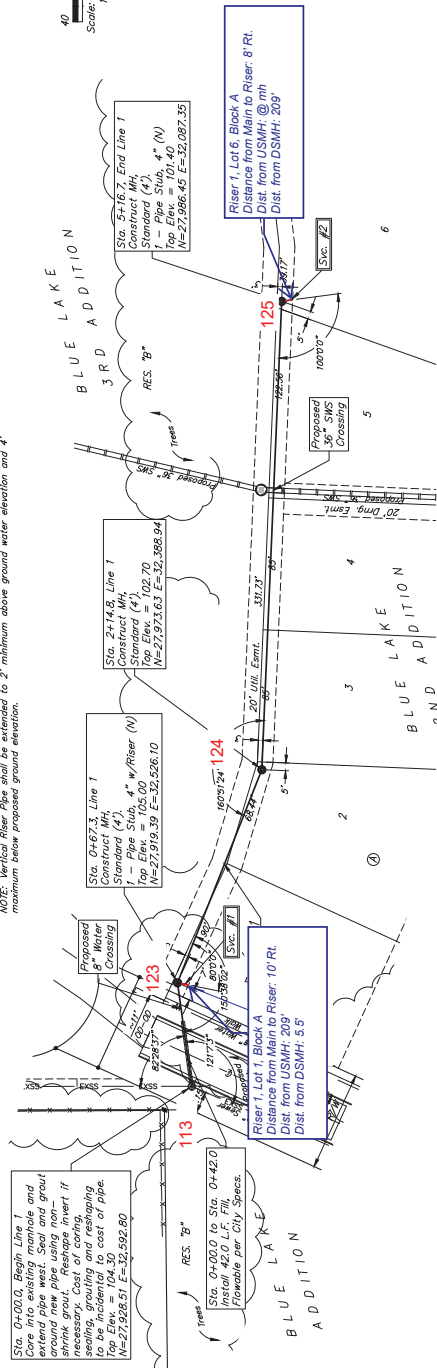
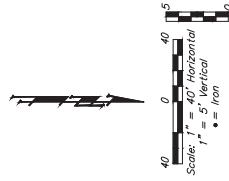
Trees in conflict with sanitary sewer construction to be removed by contractor at his expense for as lump sum bid item "Site Clearing".

All other trees shall remain and be trimmed by the Contractor using a chain saw and with approval of the Engineer. Cost of tree trimming to be included in bid item "Site Clearing".

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION		STATION	DIRECTION	FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.			APPROXIMATE LENGTH 4" PIPE	VERTICAL
1	4" Stub w/Riser	1	A	0+67.3	9'	2'2"	10'
2	4" Stub	6	A	1+16.7	15'	2'1"	10'

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



Contractor shall verify elevation and alignment of existing 10" pipe prior to construction and notify Engineer of any discrepancy.

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 316-262-7271  
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BLUE LAKE ADD (2ND ADD)  
 PHASE 1

**LINE 1**

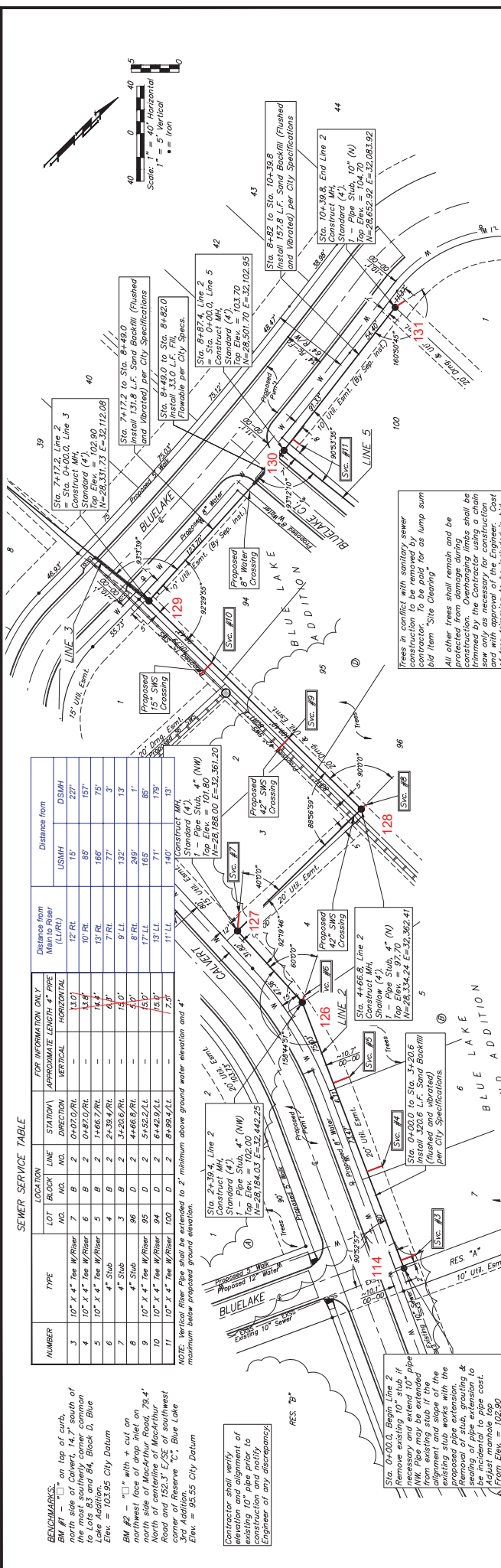
SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2023-003057

DRAWN BY: DMB/TMS

DATE: 9/25/2023

SHEET **2** OF **17**



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION	LOT BLOCK	LINE NO.	STATION	APPROXIMATE LENGTH		FOR INFORMATION ONLY		DISTANCE FROM	
						HORIZONTAL	VERTICAL	USMH	DSMH	Main to Riser	Manhole (MH)
1	10" x 4" Tee W/Riser	7	B	2	0+00.00	13.01	12.71	18	227	18	227
2	10" x 4" Tee W/Riser	6	B	2	0+02.00	11.4	10.71	85	107	85	107
3	10" x 4" Tee W/Riser	5	B	2	1+66.70	14.1	13.71	156	75	156	75
4	4" Stub	4	B	2	2+38.70	4.0	4.0	132	13	132	13
5	4" Stub	5	D	2	4+60.00	4.0	4.0	129	13	129	13
6	10" x 4" Tee W/Riser	86	D	2	5+52.24	15.0	14.71	289	86	289	86
7	10" x 4" Tee W/Riser	84	D	2	6+42.94	15.0	14.71	171	170	171	170
8	10" x 4" Tee W/Riser	100	D	2	8+98.42	7.3	7.3	140	13	140	13

NOTES: Vertical flow pipe shall be extended to 2' minimum above ground water elevation and 4' maximum below proposed ground elevation.

Contractor shall verify elevation and alignment of existing 10" pipe prior to installing 10" pipe. Engineer of any discrepancy.

RES. "A"  
RES. "B"  
RES. "C"

Sta. 0+00.0, Begin Line 2  
Remove existing 10" stub if necessary and extend 10" pipe to existing manhole. (flushed and vented) per City Specifications.

Sta. 0+00.0 to Sta. 3+20.6  
Install 320.6 L.F. Sand Backfill (flushed and vented) per City Specifications.

Sta. 0+00.0 to Sta. 3+20.6  
Construct MH, Standard (4")  
Top Elev. = 102.90  
N=28,184.03 E=32,442.25

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**LINE 2**

PHASE 1

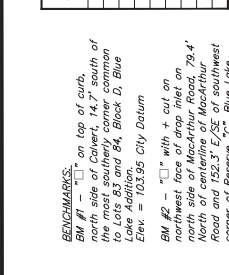
BLUE LAKE ADD (2ND ADD)

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2023-003057

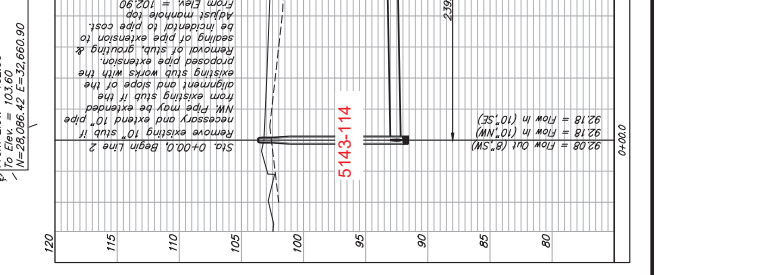
DRAWN BY: DWG

DATE: 9/25/2023

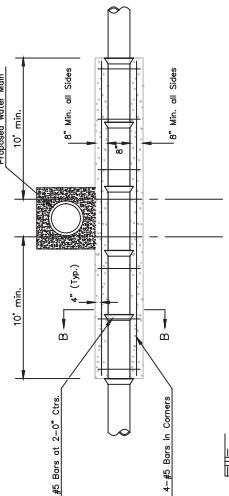


Frames in conflict with sanitary sewer construction to be removed by lump sum contractor. To be paid for as lump sum bid item "Site Clearing".

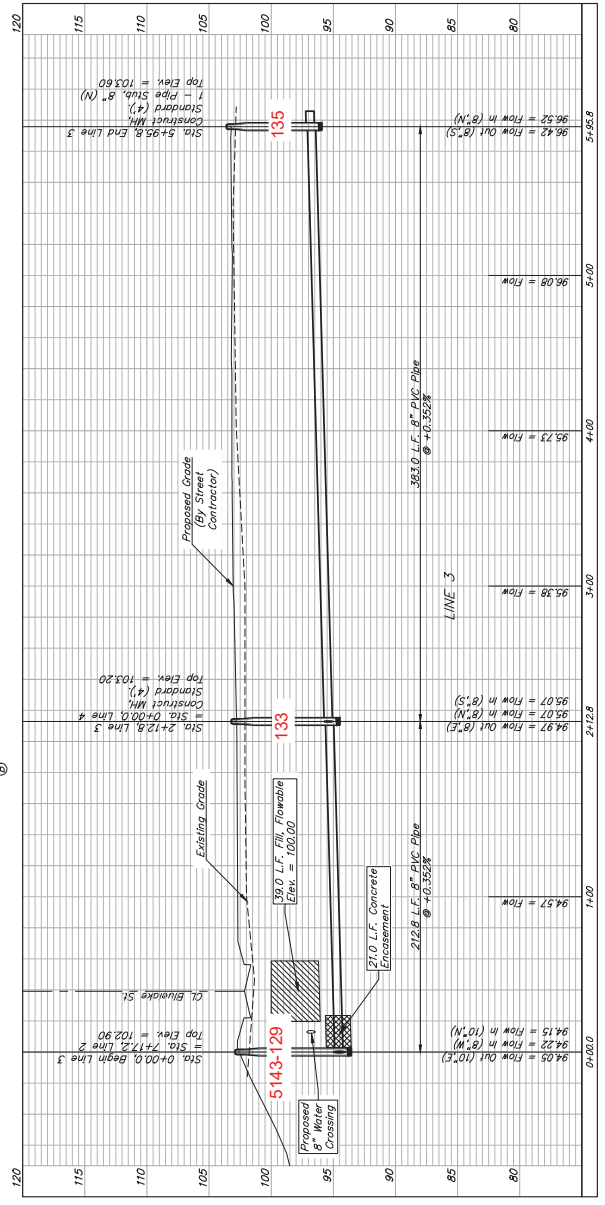
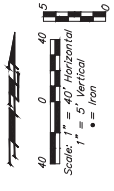
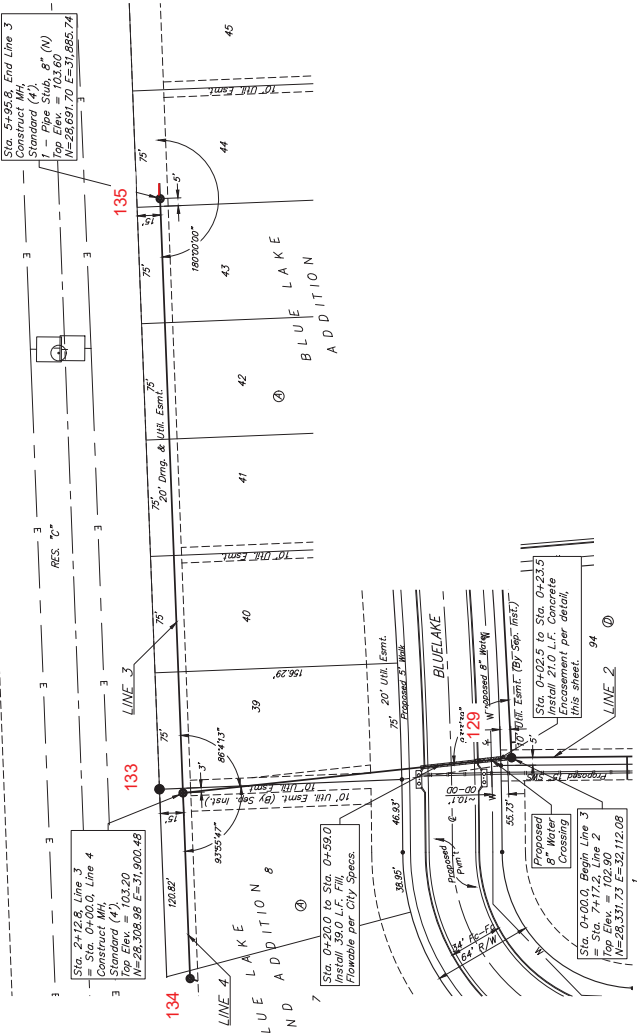
All other trees shall remain and be protected from damage during construction. Overhanging limbs shall be removed. Overhanging limbs shall be removed only as necessary for construction and with approval of the Engineer. Cost of trees remaining to be included in bid item "Site Clearing".



**BENCHMARKS:**  
 BM #1 - on top of curb, 10' north of centerline of the most southerly corner common to Lots B3 and B4, Block D, Blue Lake Addition, Blue Lake Addition, City Datum Elev. = 103.55  
 BM #2 - " with + cut on northwest face of trap inlet on north side of intersection of Road and 152.3' E/SE of southwest corner of Reserve "C", Blue Lake Addition, City Datum Elev. = 95.55



Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.  
**REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER**



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**LINE 3**  
 PHASE 1  
 BLUE LAKE ADD (2ND ADD)

SANITARY SEWER IMPROVEMENTS  
 PROJECT NUMBER: 468-2023-003057  
 DESIGN DRAW SHEET THIS  
 DATE: 9/25/2023

OF  
**4**  
 SHEET  
**17**

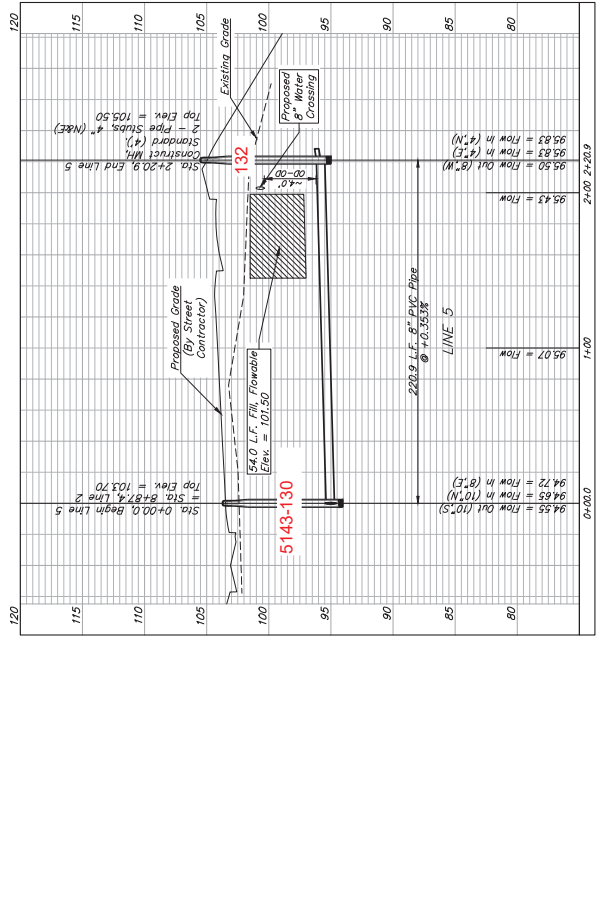
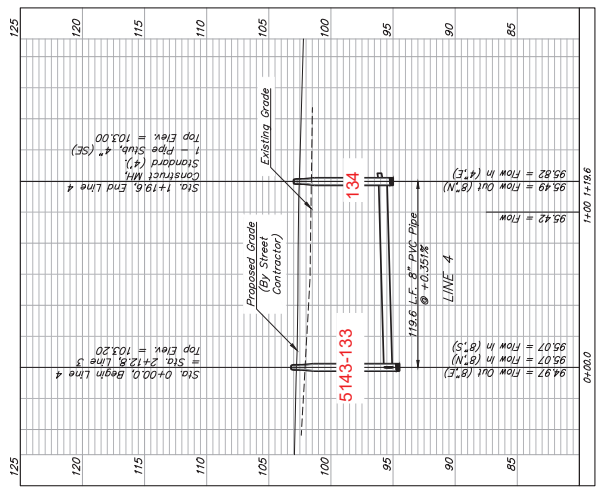
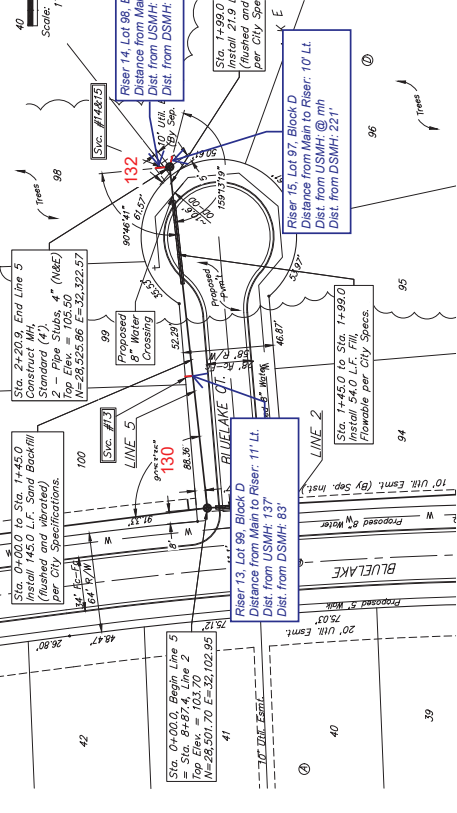
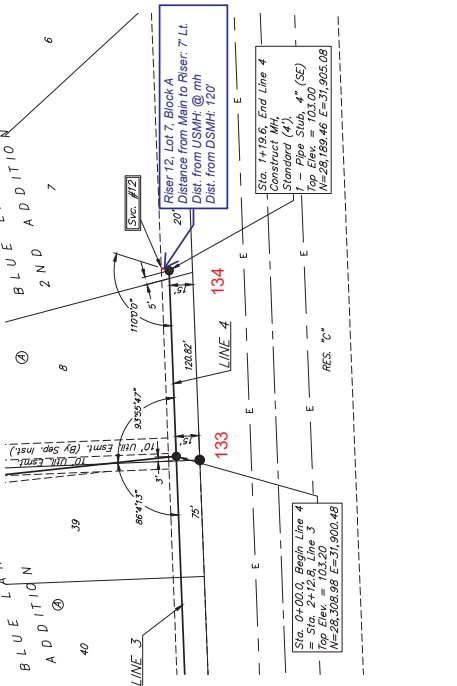
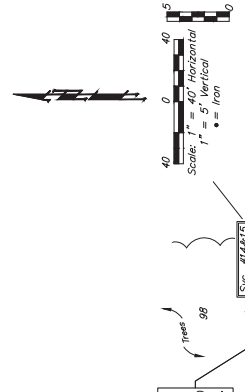
**BENCHMARKS:**  
 BM #1 - on top of curb, NW corner of intersection of Blue Lake Addition 2nd and 152.3' E/SE of southwest corner of Reserve C, Blue Lake Addition. Elev. = 103.95 City Datum  
 BM #2 - \* with + cut on northwest face of trap inlet on Blue Lake Addition 2nd. Elev. = 103.95 City Datum  
 BM #3 - \* with + cut on North of centerline of MacArthur Road and 152.3' E/SE of southwest corner of Reserve C, Blue Lake Addition. Elev. = 103.95 City Datum

Trees in conflict with sanitary sewer construction to be removed by contractor at his expense for as lump sum bid item "Site Clearing".  
 All other trees shall remain and be trimmed by the Contractor using a chain saw. The Contractor shall be responsible for the cost of tree trimming to be included in bid item "Site Clearing".

**SEWER SERVICE TABLE**

NUMBER	TYPE	LOCATION		FOR INFORMATION ONLY	
		LOT NO.	STATION	APPROXIMATE LENGTH	PIPE
12	4" Stub	7	1+19.6/L1	50'	7
13	8" x 4" Tee W/Riser	5	0+85.5/L1	53'	11
14	4" Stub	5	2+20.9/L1	30'	18
15	4" Stub	5	2+20.9/L1	23'	10

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



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**PHASE 1**  
 BLUE LAKE ADD (2ND ADD)  
**LINES 4 & 5**

SANITARY SEWER IMPROVEMENTS  
 PROJECT NUMBER: 488-2023-003057  
 DESIGN DATE: 09/25/2023  
 SHEET: 5 OF 17

File: E:\Projects\Blue Lake 2nd Addition\Engineering\Phase 1\SS 23-03-E605\sewer.dwg

IRONS

Point #	Northing	Easting	Row Description
1	27927.45	32913.27	Iron
2	27991.45	32912.62	Iron
3	28015.78	32798.33	Iron
4	27987.59	32771.67	Iron
5	28014.38	32647.70	Iron
6	28022.56	32874.35	Iron
7	28041.03	32958.52	Iron
8	27984.88	32522.57	Iron
9	27968.23	32560.76	Iron
10	28098.62	32489.99	Iron
11	28144.80	32516.64	Iron
12	28174.66	32382.48	Iron
13	28110.72	32389.76	Iron
14	28119.32	32187.51	Iron
15	28183.26	32190.23	Iron
16	28270.76	32041.96	Iron
17	28270.81	32105.96	Iron
18	28450.20	32088.19	Iron
19	28508.00	32094.32	Iron
20	28519.81	32234.48	Iron
21	28462.01	32239.35	Iron
22	28598.73	32084.00	Iron
23	28590.37	32020.95	Iron
24	28555.59	32071.96	Iron
25	28663.69	32075.41	Iron
26	28311.37	31885.37	Iron
27	27927.67	31900.15	Iron
28	27927.67	31743.97	Iron
29	27945.77	32477.82	Iron
30	27940.95	32568.27	Iron
31	28158.85	32732.86	Iron
32	28330.10	32448.28	Iron

SANITARY SEWER

Point #	Northing	Easting	Row Description
8000	27927.70	32592.96	0+00
8001	27919.39	32526.10	0+67.4
8002	27921.63	32398.84	2+14.9
8003	27986.45	32097.35	5+16.7
8004	28086.42	32662.80	0+00
8005	28184.03	32442.25	2+39.4
8006	28188.00	32361.20	3+20.6
8007	28334.24	32362.41	4+66.8
8008	28331.73	32162.08	7+17.2
8009	28501.70	32102.95	8+87.4
8010	28652.82	32083.82	10+39.8
8011	28508.99	31902.48	2+12.8
8012	28691.70	31885.74	5+85.8
8013	28189.46	31905.08	1+19.6
8014	28525.86	32322.57	2+20.9



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BLUE LAKE ADD (IND. ADD)  
PHASE: 1

**COORDINATE SHEET**

SANITARY SEWER IMPROVEMENTS  
PROJECT NUMBER: 448-2023-003057  
DESIGN: DMV, CRHMAN, TMS  
DATE: 9/25/2023

SHEET **15** OF **17**