SANITARY SEWER IMPROVEMENTS

to serve

FOX CREEK ADDITION

CITY OF MAIZE, KANSAS

Gary Janzen, P.E. City Engineer
Project Number: 468-2022-035881
Org Code Number: 47268023
Munis Number: E3050

GENERAL NOTES:

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

   Kansas One-Call 687-2470

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

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

2. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

3. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

4. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

5. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.

6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

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

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

9. The Contractor shall be responsible for maintaining continuous flow of sewage through construction. Contractor's proposed method for maintaining sewage flow shall be approved by the Engineer. Cost of maintaining flow of sewage through construction will not be paid for directly and this cost shall be considered as subsidiary to the other pay items of work.

10. All areas disturbed during construction shall be seeded, mulched, and fertilized as follows:

    SEED -- Rye grass (PLS)--5#/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".

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

12. This project is located in the City of Maize but bid through the City of Wichita.

13. Groundwater Elevation = 1342.0 (June 2022)

14. The Developer for this project is Mike Strelow.
    1831 S. Anna, Wichita, KS 67209
    PH# (316) 262-1230 Email mike@cm3mechanical.com

Groundwater Elev = 1342.0 (June 2022)

BENCHMARKS

BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

Apex Excavating - Contractor
S. Lowe - City of Wichita, Field Project Engineer
R. Carillo - City of Wichita, Inspector
As-built
Stubs & Risers
Release Date (for connection purposes only): 10/19/2023
Completion Date:
pdf: apr 2/16/2024

NOTE:
Line 4A was not installed. The outside drop associated with the manhole at Sta. 00+00 was installed and capped off. Rest of sanitary sewer project was built per plan.

4651A
F-NW-05A

0 150 300
Scale: 1" = 150'
• = Iron

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VICINITY MAP

CONSTRUCTION PHASING

The goal of the phasing is to limit the number of crossings and protective fill required for minimum cover. The projects need to be completed in the order below. If the same Contractor is awarded all projects, construction may be completed in the Contractor's desired order.

1) All Sanitary Sewer Lines and Services, excluding Services 43-45. (Bid through City of Wichita)

2) All Stormwater Sewer Lines, Mass Grading, and Pond under separate contract. (Bid through City of Maize)

3) All Water Lines and Sanitary Sewer Services 43-45 can be completed concurrently. (Bid through City of Wichita)

BENEFIT DISTRICT

BRENT WOOTEN LICENSED 8470 02/13/2023 KANSAS PROFESSIONAL ENGINEER

February 13, 2023

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

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Public Works & Utilities
CITY OF WICHITA

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 Fox Creek Addition
Project Location: south of 37th Street N, west of 119th Street W
Project No: 448-2022-036891_468-2022-035881
MUNIS No: E3051/47120123_E3050/47268023
Contractor: Apex Excavating LLC
Inspector: R. Carrillo

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Vertical Offset	Distance from		Comment
					Upstream MH	Downstream MH	
1	1	2+29.1	15 RT	11.2	15'	345'	
2	1	2+79.1	15 RT	10.7	65'	295'	
3	1	2+99.1	15 RT	10.7	85'	275'	
4	1	3+49.1	15 RT	10.5	135'	225'	
5	1	3+69.1	15 RT	10.4	155'	205'	
6	1	4+19.1	15 RT	10.2	205'	155'	
7	1	4+39.1	15 RT	9.7	225'	135'	
8	1	4+89.1	15 RT	9.5	275'	85'	
9	1	5+09.1	15 RT	9.4	295'	65'	
10	1	5+59.1	15 RT	9.1	345'	15'	
11	1	5+74.1	15 RT	10	At MH		
12	1	6+29.1	15 RT	8.7	55'	228'	
13	1	6+49.1	15 RT	8.6	75'	208'	
14	1	6+99.1	15 RT	8.7	125'	158'	
15	1	7+19.1	15 RT	8.7	145'	138'	
16	1	7+69.1	15 RT	8.5	195'	88'	
17	1	7+89.1	15 RT	9.5	215'	68'	
18	1	8+39.1	15 RT	9.3	265'	18'	
19	2	2+46.4	12.9 RT	6.9	At MH		
20	2	3+16.8	6.9 LT	6.1	At MH		
21	2A	0+39	5.6 RT	5.6	39'	Cleanout	
22	2	3+96.8	14.1 RT	4.2	75'	280'	
23	2	4+44.7	13 RT	4.5	122.9'	232.1'	
24	2	4+70.1	13 RT	4.8	148.3'	206.7'	
25	2	5+21.8	13 RT	5	200'	155'	
26	2	5+41.8	13 RT	5	220'	135'	
27	2	5+91.8	13 RT	4.6	270'	85'	
28	2	6+11.8	13 RT	3.9	290'	65'	
29	2	6+65.8	13 RT	3.5	344'	11'	
30	2	6+71.8	13 RT	4.3	At MH		
31	2	7+26.8	13 RT	2.7	50'	308'	
32	2	7+56.8	13 RT	2.6	80'	278'	
33	2	8+06.8	13 RT	2.7	130'	228'	
34	2	8+26.8	13 RT	3	150'	208'	
35	2	8+71.8	13 RT	3	195'	163'	
36	2	8+91.8	13 RT	3.4	215'	143'	
37	2	9+41.8	13 RT	3.5	265'	93'	
38	2	9+61.8	13 RT	3.8	285'	73'	

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Sanitary Sewer Riser Table

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Project Location: south of 37th Street N, west of 119th Street W
Project No: 448-2022-036891_468-2022-035881
MUNIS No: E3051/47120123_E3050/47268023
Contractor: Apex Excavating LLC
Inspector: R. Carrillo

Riser No.	Line No.	Station	Distance from Main to Riser (Lt./Rt.)	Vertical Offset	Distance from		Comment
					Upstream MH	Downstream MH	
39	2	10+16.8	13 RT	3.3	340'	18'	
40	3	2+60.5	28.1 LT		6.9'	61.8'	
41	3	3+22.3	8 RT	1	At MH		
42	3A	0+35.5	10 LT		35.5'	Cleanout	
43	3	3+95.8	21.2 LT		73.5'	220'	
44	3	4+29.8	13 LT		107.5'	186'	
45	3	5+00.7	13 LT		178.4'	115.1'	
46	4	2+72.4	5 LT	11.5	13'	255.4'	
47	4	3+27.8	5 LT	10.8	68.4'	200'	
48	4	3+47.8	5 LT	10.2	88.4'	180'	
49	4	3+92.8	5 LT	10	133.4'	135'	
50	4	4+12.8	5 LT	9.5	153.4'	115'	
51	4	4+57.8	5 LT	9.2	198.4'	70'	
52	4	4+82.8	5 LT	8.6	223.4'	45'	
53	4	5+27.8	5 LT	9.7	At MH		
54	4	5+42.8	5 LT	8.7	15'	330'	
55	4	5+87.8	5 LT	8.6	60'	285'	
56	4	6+07.8	5 LT	8.8	80'	265'	
57	4	6+52.8	5 LT	8.5	125'	220'	
58	4	6+72.8	5 LT	8.3	145'	200'	
59	4	7+17.8	5 LT	8.1	190'	155'	
60	4	7+42.8	5 LT	8.3	215'	130'	
61	4	7+87.8	5 LT	8.2	260'	85'	
62	4	8+07.8	5 LT	8.1	280'	65'	
63	4	8+52.8	5 LT	7.8	325'	20'	
~~64~~	~~4A~~	~~0+20~~	~~10 LT~~	~~2.1~~	~~20'~~	~~133.5'~~	
~~65~~	~~4A~~	~~0+78.6~~	~~10 LT~~	~~1.5~~	~~78.6'~~	~~74.9'~~	not installed
~~66~~	~~4A~~	~~0+88.6~~	~~10 LT~~	~~1.4~~	~~88.6'~~	~~64.9'~~	
~~67~~	~~4A~~	~~1+53.5~~	~~11 LT~~	~~1.6~~	~~At MH~~		

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Riser Number	Distance from Main to Riser (Lt./Rt.)	Distance from Upstream MH	Distance from Downstream MH
1	15' Rt.	15'	345'
2	15' Rt.	65'	295'
3	15' Rt.	85'	275'
4	15' Rt.	135'	225'
5	15' Rt.	155'	205'
6	15' Rt.	205'	155'
7	15' Rt.	225'	135'
8	15' Rt.	275'	85'
9	15' Rt.	295'	65'
10	15' Rt.	345'	15'
11	15' Rt.	@ mh	@ mh
12	15' Rt.	55'	228'
13	15' Rt.	75'	208'
14	15' Rt.	125'	158'
15	15' Rt.	145'	138'
16	15' Rt.	195'	88'
17	15' Rt.	215'	68'
18	15' Rt.	265'	18'

NOTE:
Proposed Outside Drop to be Installed and Capped with 18" Main Project. Contractor to Remove Cap at Top of Riser, Connect Wye at Proposed Elevation, Core New Top Opening, Seal and Grout Around New Pipe Using Non-Shrink Grout. All Costs to be Incidental to "Connect to Existing" Bid Item.

For Service Table, See Sheet 3

Groundwater Elevation = 1342.0 (June 2022)

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing"

BRENT WOOTEN LICENSED 8470 02/13/2023 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY
315 Ellis St.
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FOX CREEK ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 2 OF 27

File: E:\Projects\Fox Creek Addition 21-12-P733\Engineering\Phase 1 ISS 22-10-E321\SS Plans.dwg

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing"

2-foot minimum vertical separation between water service lines and all sanitary sewer lines shall be maintained at crossings. 10-foot horizontal separation between water service lines and all sanitary sewer lines and manholes shall be maintained. Distances are to be measured from edge-to-edge, at the closest point.

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
1	8" X 4" Tee	9	A	1	2+29.1/Rt.	11.3	15.0
2	8" X 4" Tee	9	A	1	2+79.1/Rt.	10.7	15.0
3	8" X 4" Tee	8	A	1	2+99.1/Rt.	10.7	15.0
4	8" X 4" Tee	8	A	1	3+49.1/Rt.	10.5	15.0
5	8" X 4" Tee	7	A	1	3+69.1/Rt.	10.4	15.0
6	8" X 4" Tee	7	A	1	4+19.1/Rt.	10.2	15.0
7	8" X 4" Tee	6	A	1	4+39.1/Rt.	9.7	15.0
8	8" X 4" Tee	6	A	1	4+89.1/Rt.	9.5	15.0
9	8" X 4" Tee	5	A	1	5+09.1/Rt.	9.4	15.0
10	8" X 4" Tee	5	A	1	5+59.1/Rt.	9.1	15.0
11	4" Stub	4	A	1	5+74.1/Rt.	10.0	15.0
12	8" X 4" Tee	4	A	1	6+29.1/Rt.	8.7	15.0
13	8" X 4" Tee	3	A	1	6+49.1/Rt.	8.6	15.0
14	8" X 4" Tee	3	A	1	6+99.1/Rt.	8.7	15.0
15	8" X 4" Tee	2	A	1	7+19.1/Rt.	8.7	15.0
16	8" X 4" Tee	2	A	1	7+69.1/Rt.	8.5	15.0
17	8" X 4" Tee	1	A	1	7+89.1/Rt.	9.5	15.0
18	8" X 4" Tee	1	A	1	8+39.1/Rt.	9.3	15.0

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

BAUGHMAN COMPANY
315 Ellis St.
Wichita, KS 67211
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BaughmanCo.com

FOX CREEK ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 3 OF 27

File: E:\Projects\Fox Creek Addition 21-12-P733\Engineering\Phase 1 ISS 22-10-E321ISS Plans.dwg

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing"

2-foot minimum vertical separation between water service lines and all sanitary sewer lines shall be maintained at crossings. 10-foot horizontal separation between water service lines and all sanitary sewer lines and manholes shall be maintained. Distances are to be measured from edge-to-edge, at the closest point.

SECTION B-B

Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

REINFORCED CONCRETE ENCASEMENT OF SANITARY SEWER

BRENT WOOTEN LICENSED 8470 02/13/2023 KANSAS PROFESSIONAL ENGINEER

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FOX CREEK ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

Existing trees which are in direct conflict with proposed new construction shall be removed by the Contractor ONLY with approval of the Engineer. Trees not in direct conflict with proposed new construction shall remain and be protected from damage. Cost shall be included in bid item "Site Clearing"

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8470
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FOX CREEK ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 5 OF 27

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FOX CREEK ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 6 OF 27

File: E:\Projects\Fox Creek Addition 21-12-P733E\Engineering\Phase 1 ISS 22-10-E32-10 SS Plans.dwg

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
19	4" Stub	3	B	2	2+46.4/Rt.	6.9	13.0
20	4" Stub	23	B	2	3+16.8/Lt.	6.1	7.0
21	Wye Ext.	23	B	2A	0+39.0/Rt.	5.6	10.0

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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FOX CREEK ADDITION

LINES 2 & 2A

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 7 OF 27

File: E:\Projects\Fox Creek Addition 21-12-F73\Engineering\Phase 1 ISS 22-10-E321ISS Plans.dwg

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

Riser Number	Distance from Main to Riser (Lt./Rt.)	Distance from	
		Upstream MH	Downstream MH
22	14' Rt.	75'	280'
23	13' Rt.	123'	232'
24	13' Rt.	148'	207'
25	13' Rt.	200'	155'
26	13' Rt.	220'	135'
27	13' Rt.	270'	85'
28	13' Rt.	290'	65'
29	13' Rt.	344'	11'
30	13' Rt.	@ mh	@ mh
31	13' Rt.	50'	308'
32	13' Rt.	80'	278'
33	13' Rt.	130'	228'
34	13' Rt.	150'	208'
35	13' Rt.	195'	163'
36	13' Rt.	215'	143'
37	13' Rt.	265'	93'
38	13' Rt.	285'	73'
39	13' Rt.	340'	18'

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

2-foot minimum vertical separation between water service lines and all sanitary sewer lines shall be maintained at crossings. 10-foot horizontal separation between water service lines and all sanitary sewer lines and manholes shall be maintained. Distances are to be measured from edge-to-edge, at the closest point.

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
22	8" X 4" Tee	4	B	2	3+96.8/Rt.	4.2	14.1
23	8" X 4" Tee	4	B	2	4+44.7/Rt.	4.5	13.0
24	8" X 4" Tee	5	B	2	4+70.1/Rt.	4.8	13.0
25	8" X 4" Tee	5	B	2	5+21.8/Rt.	5.0	13.0
26	8" X 4" Tee	6	B	2	5+41.8/Rt.	5.0	13.0
27	8" X 4" Tee	6	B	2	5+91.8/Rt.	4.6	13.0
28	8" X 4" Tee	7	B	2	6+11.8/Rt.	3.9	13.0
29	8" X 4" Tee	7	B	2	6+56.8/Rt.	3.5	13.0
30	4" Stub	8	B	2	6+71.8/Rt.	4.3	13.0
31	8" X 4" Tee	8	B	2	7+26.8/Rt.	2.7	13.0
32	8" X 4" Tee	9	B	2	7+56.8/Rt.	2.6	13.0
33	8" X 4" Tee	9	B	2	8+06.8/Rt.	2.7	13.0
34	8" X 4" Tee	10	B	2	8+26.8/Rt.	3.0	13.0
35	8" X 4" Tee	10	B	2	8+71.8/Rt.	3.0	13.0
36	8" X 4" Tee	11	B	2	8+91.8/Rt.	3.4	13.0
37	8" X 4" Tee	11	B	2	9+41.8/Rt.	3.5	13.0
38	8" X 4" Tee	12	B	2	9+61.8/Rt.	3.8	13.0
39	8" X 4" Tee	12	B	2	10+16.8/Rt.	3.3	13.0

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

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FOX CREEK ADDITION

LINE 2

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 8 OF 27

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
						APPROXIMATE LENGTH 4" PIPE	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	VERTICAL	HORIZONTAL
40	8" X 4" Tee	39	B	3	2+60.5/Lt.	–	28.2
41	4" Stub	24	B	3	3+22.3/Rt.	1.0	8.0
42	Wye Ext.	24	B	3A	0+35.5/Lt.	–	10.0

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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FOX CREEK ADDITION

LINES 3 & 3A

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 9 OF 27

File: E:\Projects\Fox Creek Addition 21-12-F73\Engineering\Phase 1 ISS 22-10-E32\ISS Plans.dwg

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO.	STATION/ DIRECTION	APPROXIMATE LENGTH 4" PIPE VERTICAL	HORIZONTAL
43	8" X 4" Tee	39	B	3	3+95.8/Lt.	–	21.2
44	8" X 4" Tee	38	B	3	4+29.8/Lt.	–	13.0
45	8" X 4" Tee	38	B	3	5+00.7/Lt.	–	13.0

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

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FOX CREEK ADDITION

LINE 3

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 10 OF 27

File: E:\Projects\Fox Creek Addition 21-12-P733\Engineering\Phase 1 ISS 22-10-E32-10\SS Plans.dwg

BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Sta. 0+00.0, Begin Line 4 Connect to Proposed Outside Drop and Extend Pipe East. See Note, This Sheet. Top Elev. = 1360.60

Sta. 1+81.7, Line 4 = Sta. 0+00, Line 4A Const. Std. Outside Drop Manhole (N) (5' Dia.) 1-8" Stub (S) Top Elev. = 1360.60

Sta. 2+59.4, Line 4 Const. Std. Manhole (5' Dia.) Top Elev. = 1360.60

Sta. 5+27.8, Line 4 Const. Std. Manhole 1-4" Stub w/Riser (N) Top Elev. = 1358.50 Match Point

NOTE:
Proposed Outside Drop to be Installed and Capped with 18" Main Project. Contractor to Remove Cap at Top of Riser, Connect Wye at Proposed Elevation, Core New Top Opening, Seal and Grout Around New Pipe Using Non-Shrink Grout. All Costs to be Incidental to "Connect to Existing" Bid Item.

Existing Trees to be Removed by 18" Main Project Prior to Construction.

Groundwater Elevation = 1342.0 (June 2022)

2-foot minimum vertical separation between water service lines and all sanitary sewer lines shall be maintained at crossings. 10-foot horizontal separation between water service lines and all sanitary sewer lines and manholes shall be maintained. Distances are to be measured from edge-to-edge, at the closest point.

SEWER SERVICE TABLE

Distance from Main to Riser (Lt./Rt.)	Distance from Upstream MH	Distance from Downstream MH	NUMBER	TYPE	LOCATION LOT NO.	LOCATION BLOCK NO.	LOCATION LINE NO.	LOCATION STATION/DIRECTION	FOR INFORMATION ONLY APPROXIMATE LENGTH 4" PIPE VERTICAL	FOR INFORMATION ONLY APPROXIMATE LENGTH 4" PIPE HORIZONTAL
5' Lt.	13'	255'	46	8" X 4" Tee	1	D	4	2+72.4/Lt.	11.5	5.0
5' Lt.	68'	200'	47	8" X 4" Tee	1	D	4	3+27.8/Lt.	10.8	5.0
5' Lt.	88'	180'	48	8" X 4" Tee	2	D	4	3+47.8/Lt.	10.2	5.0
5' Lt.	133'	135'	49	8" X 4" Tee	2	D	4	3+92.8/Lt.	10.0	5.0
5' Lt.	153'	115'	50	8" X 4" Tee	3	D	4	4+12.8/Lt.	9.5	5.0
5' Lt.	198'	70'	51	8" X 4" Tee	3	D	4	4+57.8/Lt.	9.2	5.0
5' Lt.	223'	45'	52	8" X 4" Tee	4	D	4	4+82.8/Lt.	8.6	5.0
5' Lt.	@ mh	@ mh	53	4" Stub	4	D	4	5+27.8/Lt.	9.7	5.0

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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FOX CREEK ADDITION

LINE 4

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 11 OF 27

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

FOX CREEK ADDITION

SEWER SERVICE TABLE

Distance from Main to Riser (Lt./Rt.)	Distance from Upstream MH	Distance from Downstream MH	NUMBER	TYPE	LOCATION: LOT NO.	LOCATION: BLOCK NO.	LOCATION: LINE NO.	LOCATION: STATION/ DIRECTION	FOR INFORMATION ONLY: APPROXIMATE LENGTH 4" PIPE VERTICAL	FOR INFORMATION ONLY: APPROXIMATE LENGTH 4" PIPE HORIZONTAL
5' Lt.	15'	330'	54	8" X 4" Tee	5	D	4	5+42.8/Lt.	8.7	5.0
5' Lt.	60'	285'	55	8" X 4" Tee	5	D	4	5+87.8/Lt.	8.6	5.0
5' Lt.	80'	265'	56	8" X 4" Tee	6	D	4	6+07.8/Lt.	8.8	5.0
5' Lt.	125'	220'	57	8" X 4" Tee	6	D	4	6+52.8/Lt.	8.5	5.0
5' Lt.	145'	200'	58	8" X 4" Tee	7	D	4	6+72.8/Lt.	8.3	5.0
5' Lt.	190'	155'	59	8" X 4" Tee	7	D	4	7+17.8/Lt.	8.1	5.0
5' Lt.	215'	130'	60	8" X 4" Tee	8	D	4	7+42.8/Lt.	8.3	5.0
5' Lt.	260'	85'	61	8" X 4" Tee	8	D	4	7+87.8/Lt.	8.2	5.0
5' Lt.	280'	65'	62	8" X 4" Tee	9	D	4	8+07.8/Lt.	8.1	5.0
5' Lt.	325'	20'	63	8" X 4" Tee	9	D	4	8+52.8/Lt.	7.8	5.0

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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FOX CREEK ADDITION

LINE 4

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 12 OF 27

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

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FOX CREEK ADDITION

LINE 4

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 13 OF 27

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

2-foot minimum vertical separation between water service lines and all sanitary sewer lines shall be maintained at crossings.
10-foot horizontal separation between water service lines and all sanitary sewer lines and manholes shall be maintained. Distances are to be measured from edge-to-edge, at the closest point.

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FOX CREEK ADDITION

LINE 4

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 14 OF 27

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N Elev. = 1359.54 (NAVD88)

Line 4A was not installed. The outside drop associated with the manhole at station 0+00 was installed and capped off.

All trench and manhole excavation areas from Sta. 0+00.0 to Sta. 1+53.5, Line 4A shall be backfilled with sand. The sand backfill shall be water-jetted and vibrated during backfilling. All costs shall be paid for as L.F. "Fill, Sand (Flushed & Vibrated)".

Scale: 1" = 40' Horizontal
1" = 5' Vertical
• = Iron

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION				FOR INFORMATION ONLY APPROXIMATE LENGTH 4" PIPE	
		LOT NO.	BLOCK NO.	LINE NO.	STATION / DIRECTION	VERTICAL	HORIZONTAL
64	8" X 4" Tee	12	A	4A	0+20.0/Lt.	2.1	10.0
65	8" X 4" Tee	12	A	4A	0+78.6/Lt.	1.5	10.0
66	8" X 4" Tee	11	A	4A	0+88.6/Lt.	1.4	10.0
67	4" Stub	11	A	4A	1+53.5/Lt.	1.6	11.0

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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FOX CREEK ADDITION

LINE 4A

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 15 OF 27

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BENCHMARKS:
BM#1: RR Spike W Face Light Pole. 70' NW of NE Sec. Corner @ NW Corner of 37th St N & 119th St W
Elev. = 1361.80 (NAVD88)

BM#2: RR Spike S Face of PP. 43' ENE of N 1/4 Corner @ N Side of 37th St N
Elev. = 1359.54 (NAVD88)

0 100 200
Scale: 1" = 100'
• = Iron

CONTROL			
Point #	Northing	Easting	Description
1	1,706,199.49	1,604,310.07	SW SEC COR
2	1,708,837.34	1,604,235.56	NW SEC COR
3	1,708,931.33	1,606,992.95	NE SEC COR
4	1,706,289.05	1,607,000.62	SE SEC COR
97	1,708,965.67	1,604,268.04	BM
98	1,708,979.04	1,606,941.22	BM
99	1,707,656.59	1,606,945.37	BM
100	1,708,777.36	1,604,237.26	Iron
101	1,708,807.79	1,605,129.99	Iron
102	1,708,737.84	1,605,132.38	Iron
103	1,708,686.16	1,605,084.11	Iron
104	1,708,668.62	1,604,969.41	Iron
105	1,708,554.93	1,604,463.22	Iron
106	1,708,185.36	1,604,475.82	Iron
107	1,708,177.85	1,604,254.19	Iron
108	1,708,809.84	1,605,189.96	Iron
109	1,708,739.88	1,605,192.34	Iron
110	1,708,636.20	1,605,086.16	Iron
111	1,708,608.65	1,604,571.45	Iron
112	1,708,556.98	1,604,523.19	Iron

CONTROL			
Point #	Northing	Easting	Description
113	1,708,367.29	1,604,529.65	Iron
114	1,708,307.32	1,604,531.70	Iron
115	1,708,187.39	1,604,535.78	Iron
116	1,708,394.06	1,605,319.20	Iron
117	1,708,334.09	1,605,321.23	Iron
118	1,708,405.19	1,605,500.10	Iron
119	1,708,345.43	1,605,505.44	Iron
120	1,708,417.47	1,605,862.25	Iron
121	1,708,357.48	1,605,860.97	Iron
122	1,708,418.61	1,606,043.49	Iron
123	1,708,358.65	1,606,045.52	Iron
124	1,708,383.09	1,606,766.50	Iron
125	1,708,366.08	1,606,812.04	Iron
126	1,708,330.55	1,606,902.83	Iron
127	1,708,330.64	1,606,934.69	Iron
128	1,708,268.73	1,606,934.87	Iron
129	1,708,440.64	1,606,693.10	Iron
130	1,708,595.74	1,606,687.81	Iron
131	1,708,677.80	1,606,599.96	Iron
132	1,708,666.21	1,606,263.16	Iron

CONTROL			
Point #	Northing	Easting	Description
133	1,708,772.40	1,606,146.48	Iron
134	1,708,842.36	1,606,144.09	Iron
135	1,708,844.41	1,606,204.08	Iron
136	1,708,856.81	1,606,567.90	Iron
137	1,708,845.22	1,606,868.35	Iron
138	1,708,852.89	1,606,893.22	Iron
139	1,708,828.77	1,606,918.24	Iron
140	1,708,603.78	1,606,918.90	Iron
141	1,708,503.82	1,606,934.19	Iron
142	1,708,416.64	1,606,934.44	Iron
143	1,708,416.45	1,606,867.73	Iron
144	1,708,426.33	1,606,830.90	Iron
145	1,708,443.06	1,606,764.46	Iron
146	1,708,442.67	1,606,753.06	Iron
147	1,708,597.78	1,606,747.78	Iron
148	1,708,737.76	1,606,597.92	Iron
149	1,708,726.18	1,606,258.12	Iron
150	1,708,774.45	1,606,206.44	Iron

SS POINTS			
Point #	Northing	Easting	Description
8000	1,708,780.65	1,604,480.54	MH
8001	1,708,792.92	1,604,840.33	MH
8002	1,708,802.56	1,605,123.17	MH
8003	1,708,808.86	1,605,308.06	MH
8004	1,708,821.05	1,605,665.75	MH
8005	1,708,833.34	1,606,026.33	MH
8006	1,708,839.65	1,606,211.23	MH
8007	1,708,851.64	1,606,563.07	MH
8008	1,708,840.43	1,606,674.54	MH
8009	1,708,846.87	1,606,863.48	MH
8010	1,708,606.76	1,606,864.18	MH
8011	1,708,423.51	1,606,864.71	MH
8012	1,708,728.55	1,605,310.80	MH
8013	1,708,625.88	1,605,292.57	MH
8014	1,708,578.93	1,605,245.13	MH
8015	1,708,508.55	1,605,245.26	MH
8016	1,708,496.45	1,604,890.46	MH
8017	1,708,484.26	1,604,532.67	MH
8018	1,708,756.60	1,606,028.95	MH
8019	1,708,650.89	1,606,054.47	MH

SS POINTS			
Point #	Northing	Easting	Description
8020	1,708,606.62	1,606,106.12	MH
8021	1,708,537.89	1,606,105.94	MH
8022	1,708,547.88	1,606,399.27	MH
8023	1,708,557.59	1,606,684.11	MH
8024	1,708,190.02	1,604,463.65	MH
8025	1,708,211.72	1,604,810.52	MH
8026	1,708,223.40	1,605,155.32	MH
8027	1,708,235.94	1,605,525.11	MH
8028	1,708,247.80	1,605,874.90	MH
8029	1,708,260.00	1,606,234.70	MH
8030	1,708,271.86	1,606,584.50	MH
8031	1,708,283.47	1,606,926.83	MH
8032	1,708,343.47	1,604,460.42	MH
8033	1,708,506.88	1,605,284.23	WYE
8034	1,708,536.68	1,606,070.46	WYE
8035	1,708,202.62	1,604,542.27	MH

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FOX CREEK ADDITION

COORDINATES

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2022-035881

DESIGN: NBW DRAWN: HJW

DATE: February 13, 2023

SHEET 26 OF 27

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