

Engineer: Steven Lowe
 Contractor: Nowak Construction
 Inspection: Baughman
 Release Date: 04-09-2026

SANITARY SEWER IMPROVEMENTS to serve

BAALMANN 5TH ADDITION - PHASE 1

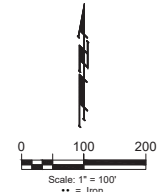
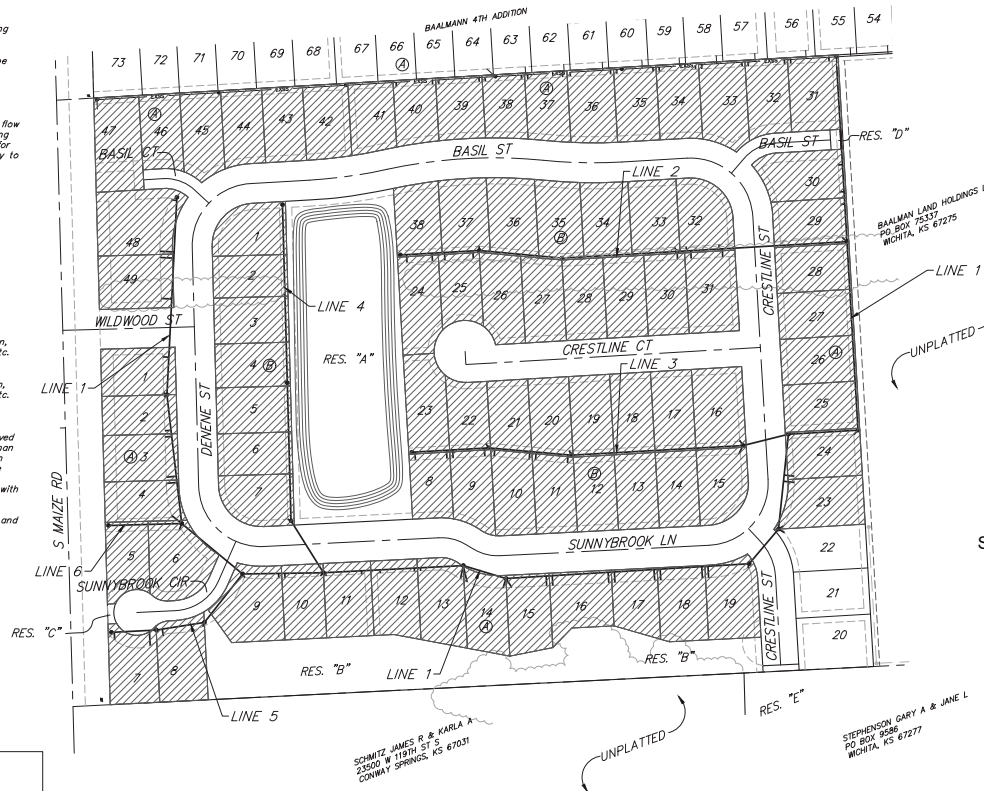
CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E., City Engineer
 Project Number: 468-2024-024813
 Org Code Number: 47273224
 Munis Number: E4133

4844C
 CIS-11

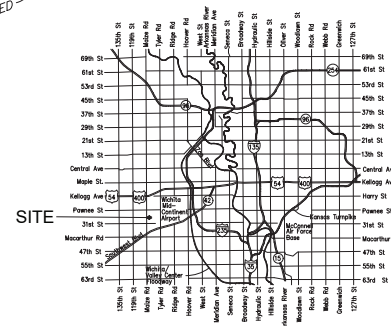
GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of forty-eight (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 1-888-452-4950
 Evergy 383-8620
 Black Hills Energy 1-800-363-0327
 AT&T 268-2245
 City of Wichita Water Dept. 268-4363
 City of Wichita Sewer Maint. 268-4024
 City of Wichita Storm Sewer Maint. 268-4090
 City of Wichita Traffic Maint. 268-4034
- Utility service lines, poles, valve boxes, meters, and enclosures 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 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.
- 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.
- 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 trees. The Contractor will be required to re-establish any property trees which are damaged or destroyed by his construction operations. Such trees shall be re-established by a licensed land surveyor in accordance with state laws.
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, silt barriers, and silt/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 the City of Wichita. Maintenance and/or replacement of erosion control measures to be paid by L.S. bid item "Maintain Existing BMP's."
- All excess excavation shall remain on-site and shall be stockpiled or spread at a location determined by the Engineer.
- 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.
- All areas in Maize Rd R/W disturbed by construction shall be seeded and mulched as follows:
 (Permanent Seeding)
 SEED -- Kansas Premium Fescue Blend; 8 Lbs./1000 Sq. Ft.
 Fertilizer (F.L.S.); 2 Lbs./1000 Sq. Ft. and
 MULCH -- 12-24-12 Ratio at 45 Lbs./Ac.
 All other disturbed areas not in street R/W and outside of the building area on lots are to be seeded as follows:
 (Temporary Seeding)
 SEED -- Annual Ryegrass -- 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".
- 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.
- The developer for this project is, Joy Russell, Address: PO Box 75337, Wichita, KS 67272
 Phone: 316-990-2105
 Email: jbrussell@comcast.com



SHEET INDEX

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Prop. Services on Ex. SS	9
Standard Manhole Detail	10
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VICINITY MAP

BENCHMARKS

BMP: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD88

BMP: SQUARE CUT WITH CROSS
 TOP OF CURB 66' EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE LANE.
 ELEV. = 1320.83 NAVD88

APPROVED AS NOTED
 BY WICHITA PUBLIC WORKS ENGINEERING

Engineering _____

An approved copy of these plans signed by City staff are required on-site.

BENEFIT DISTRICT



SCHWITZ JAMES R & KARLA A
 23500 W THORN ST S
 CORNWAY SPRINGS, KS 67031

STEPHENSON GARY A & JANE L
 PO BOX 9486
 WICHITA, KS 67277



November 21, 2024

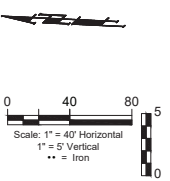
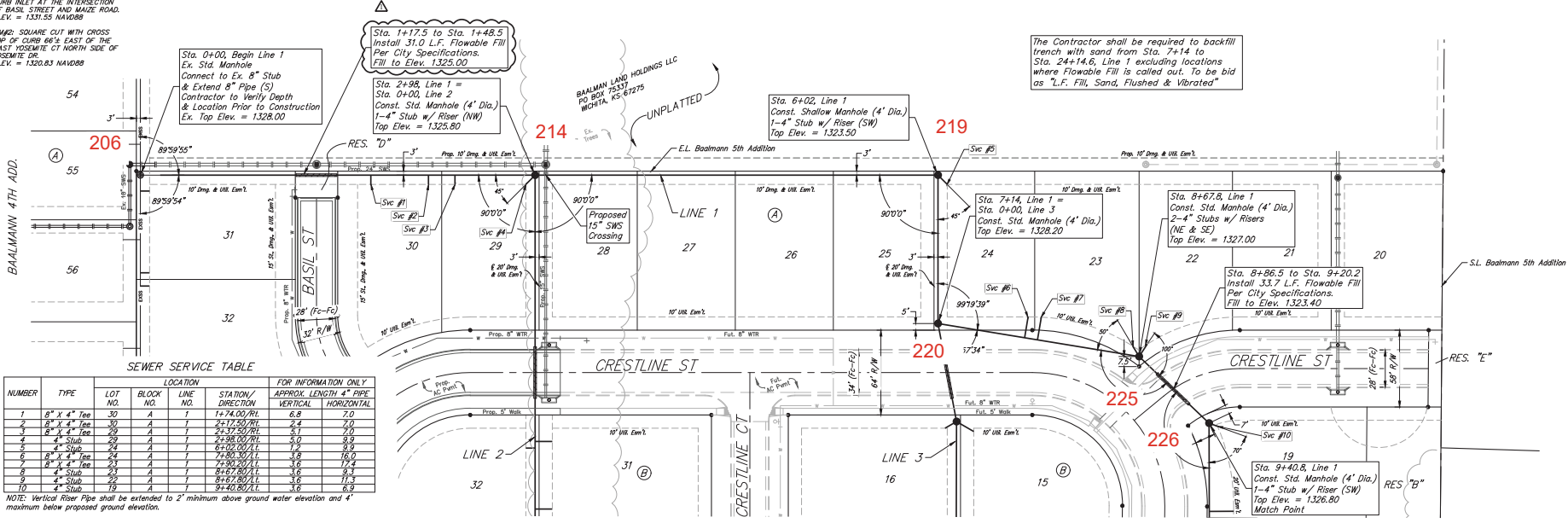
REV. NO.	DATE	DESC.	SHEET	BY
1	11/21/2024	Flowable Fill Added	2	CDW

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

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BENCHMARKS:
 BM#1: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD83

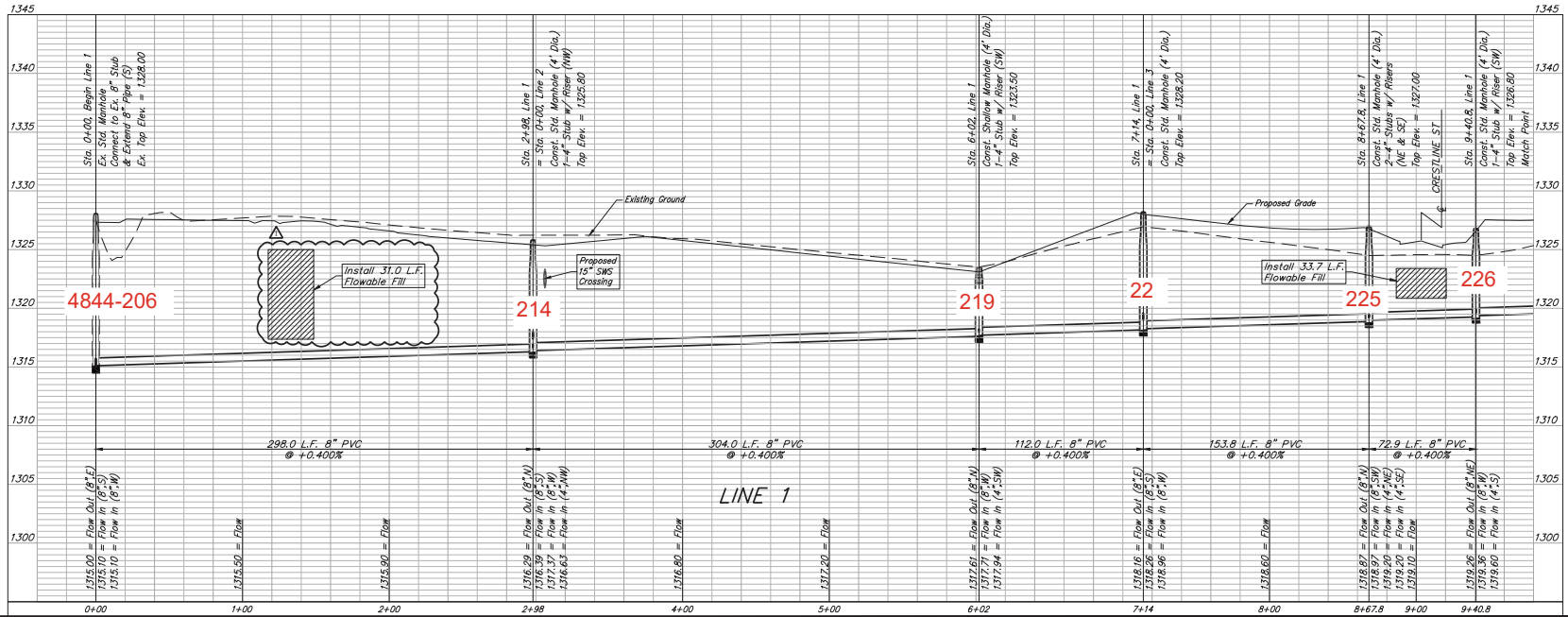
BM#2: SQUARE CUT WITH CROSS
 TOP OF CURB 66.4' EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOT	BLOCK	LOCATION		FOR INFORMATION ONLY	
				LINE NO.	STATION/ DIRECTION	APPROX. LENGTH * PIPE	VERTICAL
1	8" x 4" Tee	30	A	1	1+74.00/R/L	6.8	2.0
2	8" x 4" Tee	30	A	1	2+17.50/R/L	2.4	2.0
3	8" x 4" Tee	30	A	1	2+37.50/R/L	5.7	2.0
4	4" Stub	30	A	1	2+38.00/R/L	0.0	8.9
5	4" Stub	30	A	1	6+02.00/L/L	0.0	8.9
6	8" x 4" Tee	30	A	1	7+50.00/R/L	3.0	16.0
7	8" x 4" Tee	30	A	1	7+50.00/L/L	3.0	16.0
8	4" Stub	30	A	1	8+67.80/L/L	3.0	8.4
9	4" Stub	30	A	1	8+67.80/L/L	3.0	11.5
10	4" Stub	19	A	1	9+40.80/L/L	3.0	6.9

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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BAALMANN 5TH ADDITION
 PHASE 1

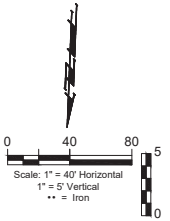
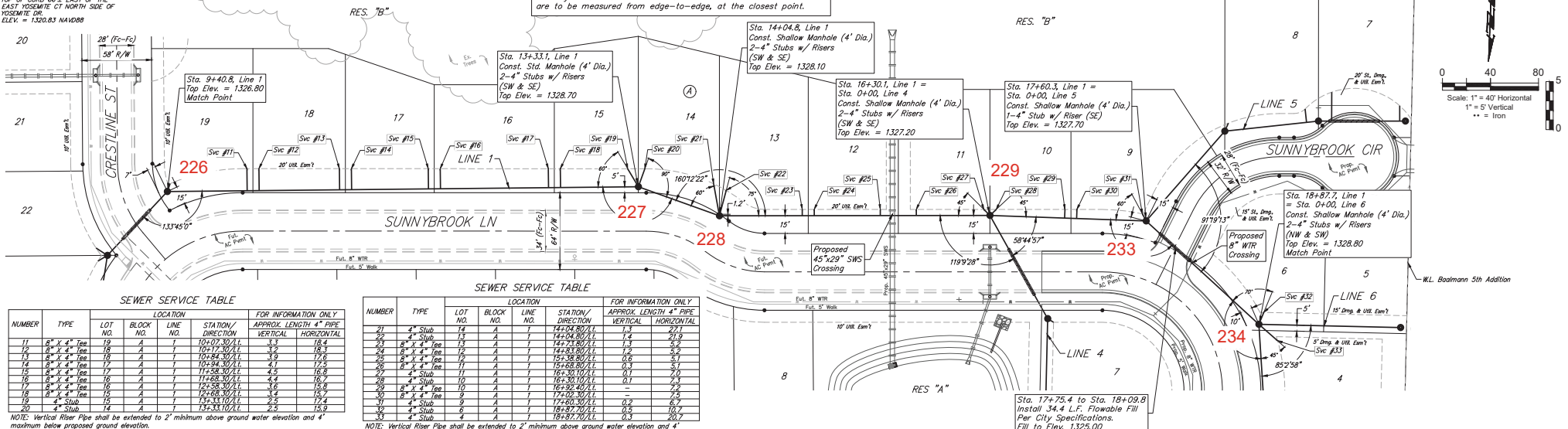
LINE 1

SANITARY SEWER IMPROVEMENTS
 PROJECT NUMBER: 468-2024-024813
 DATE: Nov. 21, 2024
 SHEET OF 2 14

DESIGN: CDW DRAWN: CDW

BENCHMARKS:
 BM#1: SQUARE CUT WITH CROSS ON SOUTHWEST CORNER OF SOUTH CURB INLET AT THE INTERSECTION OF BASIL STREET AND MAIZE ROAD. ELEV. = 1331.55 NAVD83
 BM#2: SQUARE CUT WITH CROSS TOP OF CURB 66.2' EAST OF THE EAST YOSEMITE CT NORTH SIDE OF YOSEMITE DR. ELEV. = 1320.83 NAVD88

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

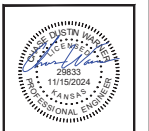
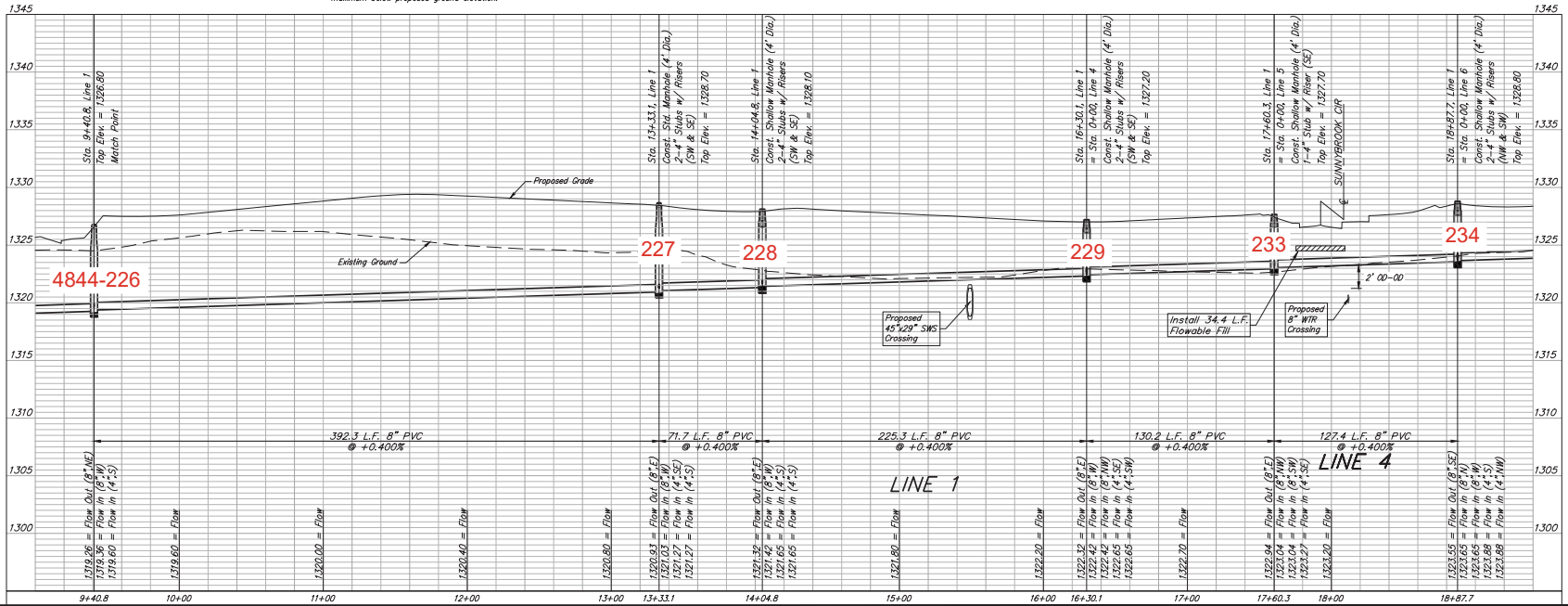
NUMBER	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	FOR INFORMATION ONLY	
						APPROX LENGTH * PIPE	
						VERTICAL	HORIZONTAL
11	8" x 4" Tee	19	A	1	10+07.30/L	3.3	18.4
12	8" x 4" Tee	19	A	1	10+12.30/L	5.0	18.4
13	8" x 4" Tee	19	A	1	10+24.30/L	3.9	17.0
14	8" x 4" Tee	19	A	1	10+28.30/L	4.1	17.0
15	8" x 4" Tee	19	A	1	11+28.30/L	4.2	16.0
16	8" x 4" Tee	16	A	1	11+68.30/L	4.2	16.0
17	8" x 4" Tee	16	A	1	12+38.30/L	3.6	15.0
18	8" x 4" Tee	16	A	1	12+68.30/L	3.4	15.0
19	8" x 4" Tee	15	A	1	13+33.10/L	2.6	12.4
20	8" x 4" Tee	14	A	1	13+33.10/L	2.6	12.4

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

SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	FOR INFORMATION ONLY	
						APPROX LENGTH * PIPE	
						VERTICAL	HORIZONTAL
21	4" Stub	14	A	1	14+04.80/L	1.3	27.1
22	4" Stub	13	A	1	14+04.80/L	1.3	27.1
23	4" x 4" Tee	13	A	1	14+73.80/L	1.3	26.9
24	8" x 4" Tee	13	A	1	14+83.80/L	0.6	30.4
25	8" x 4" Tee	13	A	1	15+38.80/L	0.3	31.1
26	8" x 4" Tee	11	A	1	15+68.80/L	0.3	31.1
27	4" Stub	11	A	1	16+30.10/L	0.1	24.3
28	4" Stub	10	A	1	16+30.10/L	0.1	24.3
29	4" x 4" Tee	10	A	1	16+30.10/L	0.1	24.3
30	4" x 4" Tee	9	A	1	17+60.30/L	0.2	6.7
31	4" Stub	9	A	1	17+60.30/L	0.2	6.7
32	4" Stub	6	A	1	18+87.70/L	0.5	10.7
33	4" Stub	4	A	1	18+87.70/L	0.3	20.7

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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BAALMANN 5TH ADDITION
 PHASE 1

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
468-2024-024813

DESIGN: CDW DRAWN: CDW

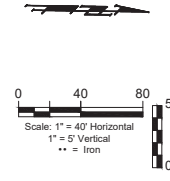
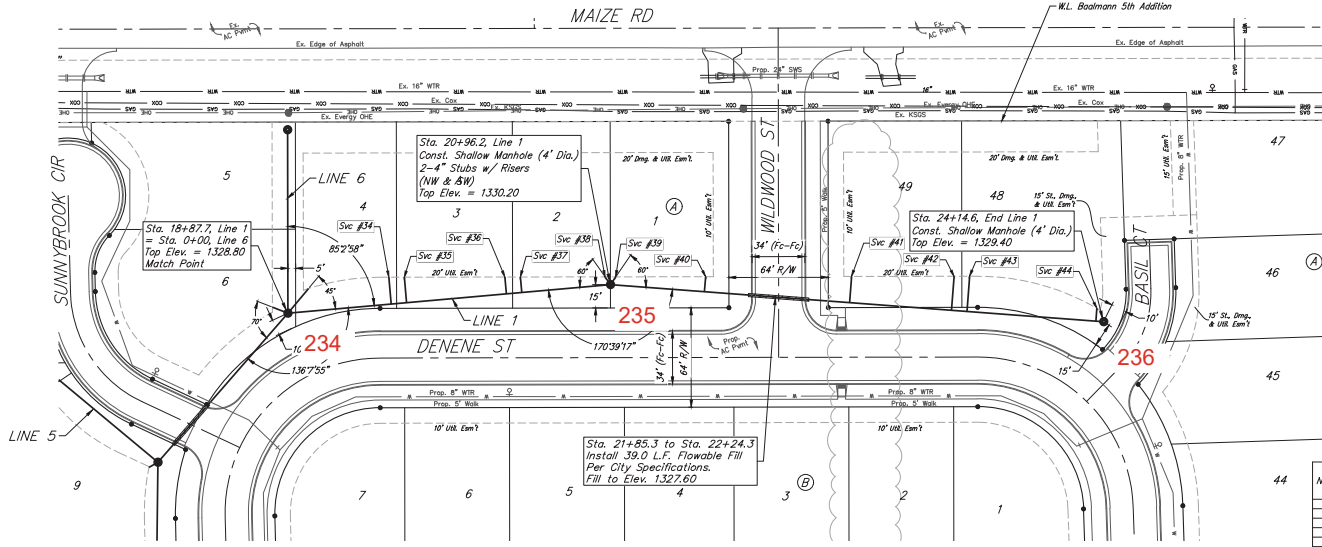
DATE: Nov. 15, 2024

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BENCHMARKS:
 BM1: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD83

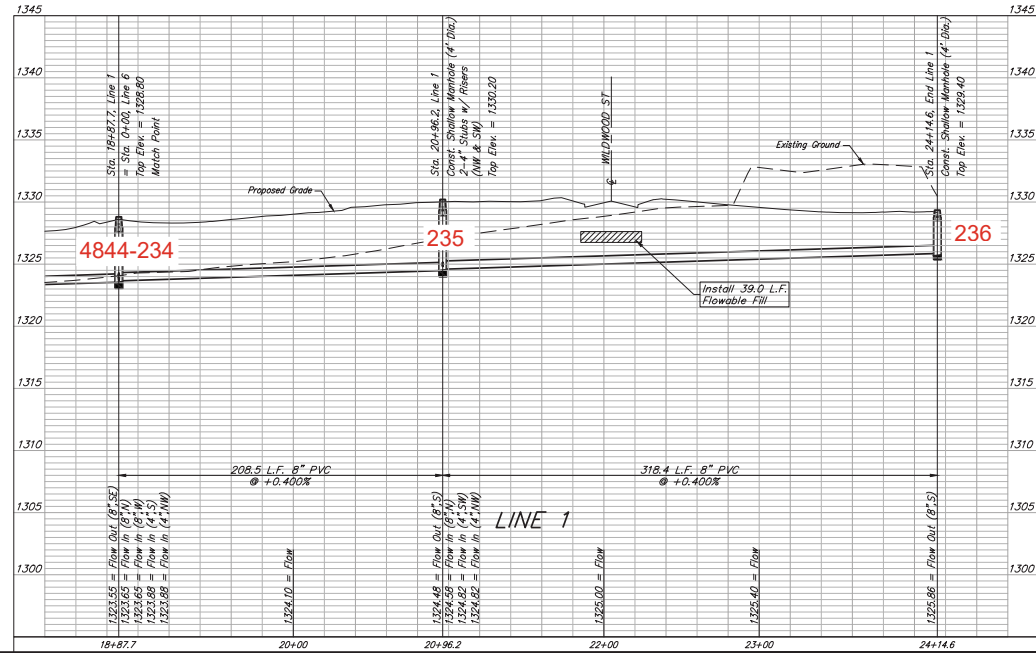
BM2: SQUARE CUT WITH CROSS
 TOP OF CURB 66.5' EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD83



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO. / STATION / DIRECTION	APPROX. LENGTH	4" PIPE VERTICAL / HORIZONTAL
34	8" x 4" Tee	4	A	19+54.40/L	0.5	17.3
35	8" x 4" Tee	5	A	19+44.40/L	0.4	16.4
36	8" x 4" Tee	5	A	20+28.90/L	0.5	16.9
37	8" x 4" Tee	6	A	20+38.90/L	0.1	16.9
38	4" Stub	2	A	20+36.20/L	-	6.1
39	4" Stub	1	A	20+96.20/L	1.1	6.1
40	8" x 4" Tee	49	A	21+56.90/L	0.2	17.7
41	8" x 4" Tee	49	A	22+50.60/L	0.5	16.9
42	8" x 4" Tee	49	A	23+16.40/L	0.2	17.9
43	8" x 4" Tee	48	A	23+26.40/L	-	22.7
44	8" x 4" Tee	48	A	24+08.60/L	-	22.7

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



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BAALMANN 5TH ADDITION
 PHASE 1

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
 468-2024-024813

DESIGN: CDW DRAWING: CDW

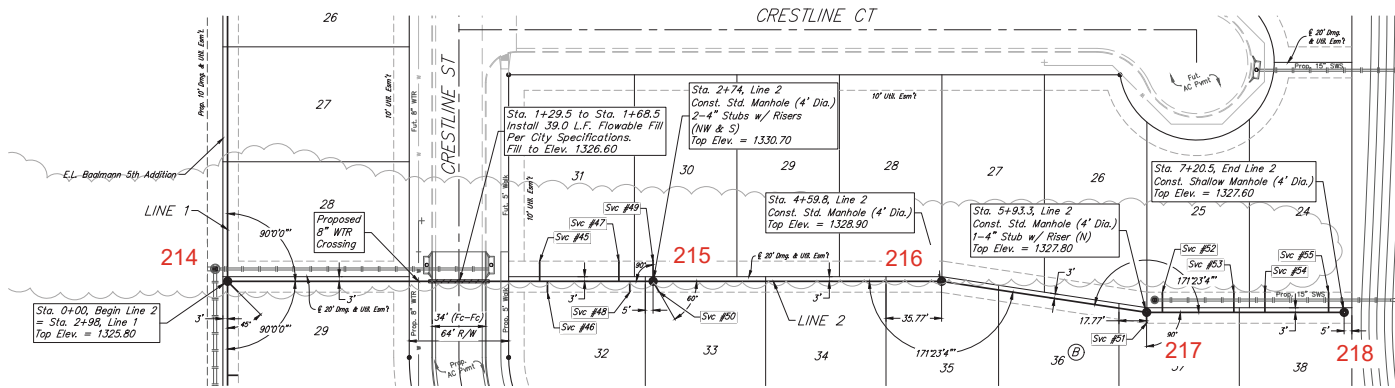
DATE: Nov. 15, 2024

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BENCHMARKS:
 BM#1: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD88

BM#2: SQUARE CUT WITH CROSS
 TOP OF CURB 66'4" EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD88

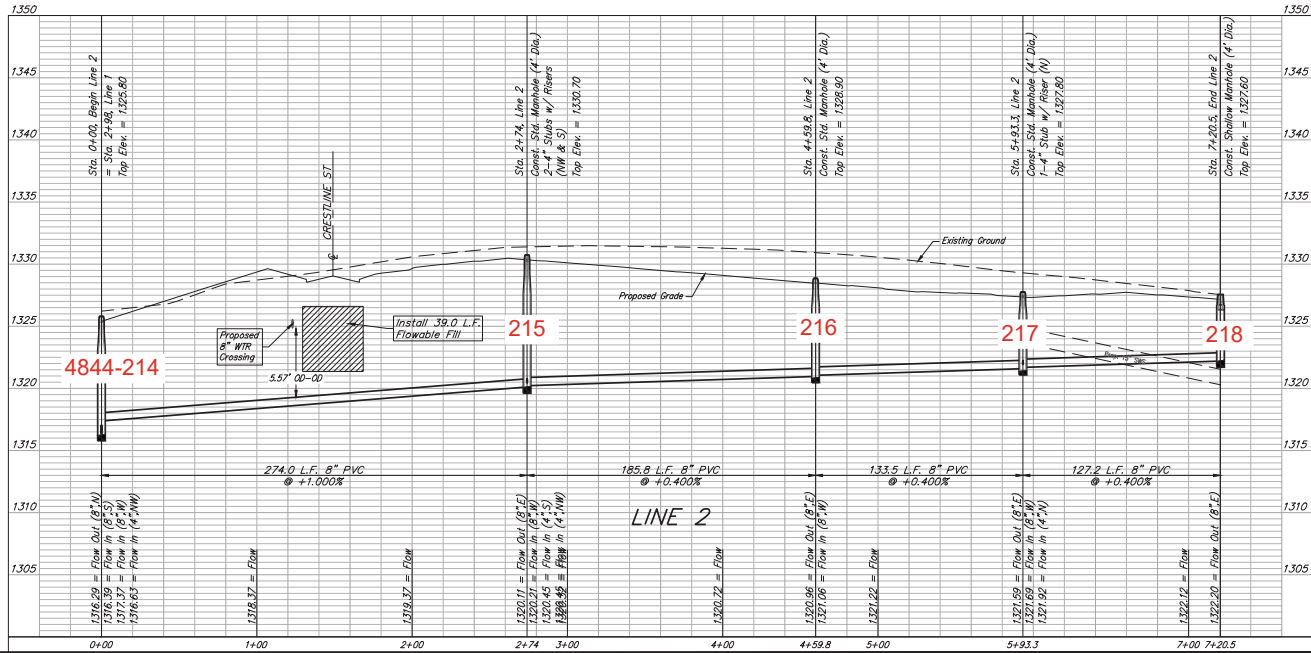


2-foot minimum vertical separation between water service lines and all sanitary sewer lines shall be maintained at crossings.
 10-foot horizontal separation between water service lines and all sanitary sewer lines and manholes shall be maintained. Distances are to be measured from edge-to-edge, at the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

SEWER SERVICE TABLE

NUMBER	TYPE	LOT NO.	BLOCK NO.	LINE NO.	STATION / DIRECTION	FOR INFORMATION ONLY	
						APPROX. LENGTH 4" PIPE	VERTICAL HORIZONTAL
45	8" x 4" Tee	37	B	2	2+00/00/L	5.1	7.0
46	8" x 4" Tee	32	B	2	2+06/00/R	5.2	7.0
47	8" x 4" Tee	31	B	2	2+58/00/L	5.2	7.0
48	8" x 4" Tee	32	B	2	2+58/00/R	5.5	7.0
49	4" Stub	30	B	2	2+74/00/L	0.6	13.0
50	4" Stub	30	B	2	2+74/00/R	0.7	8.0
51	4" Stub	37	B	2	5+93/30/R	1.4	7.0
52	8" x 4" Tee	30	B	2	6+23/50/L	0.2	8.0
53	8" x 4" Tee	25	B	2	6+48/50/L	0.6	13.0
54	8" x 4" Tee	24	B	2	6+68/50/L	0.5	13.0
55	8" x 4" Tee	24	B	2	7+12/50/L	0.2	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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BAALMANN 5TH ADDITION
 PHASE 1

LINE 2

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
 468-2024-024813

DESIGN: CDW DRAWN: CDW

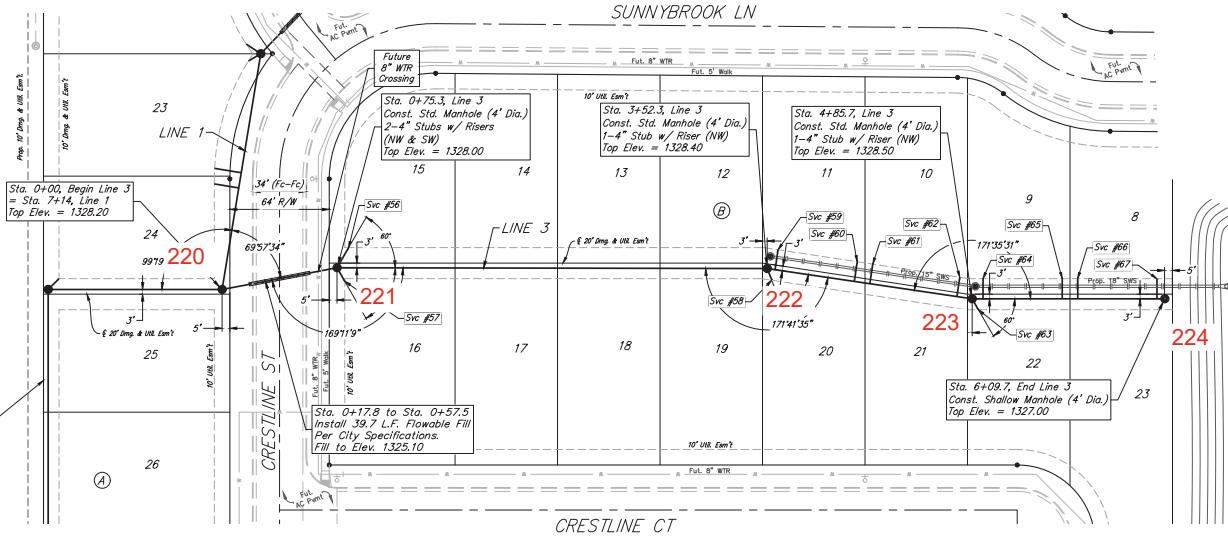
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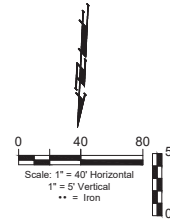
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BENCHMARKS:
 BMPT: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD88

BMND: SQUARE CUT WITH CROSS
 TOP OF CURB 66.4 EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD88



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 shall be maintained. Distances are to be measured from edge-to-edge, at the closest point.

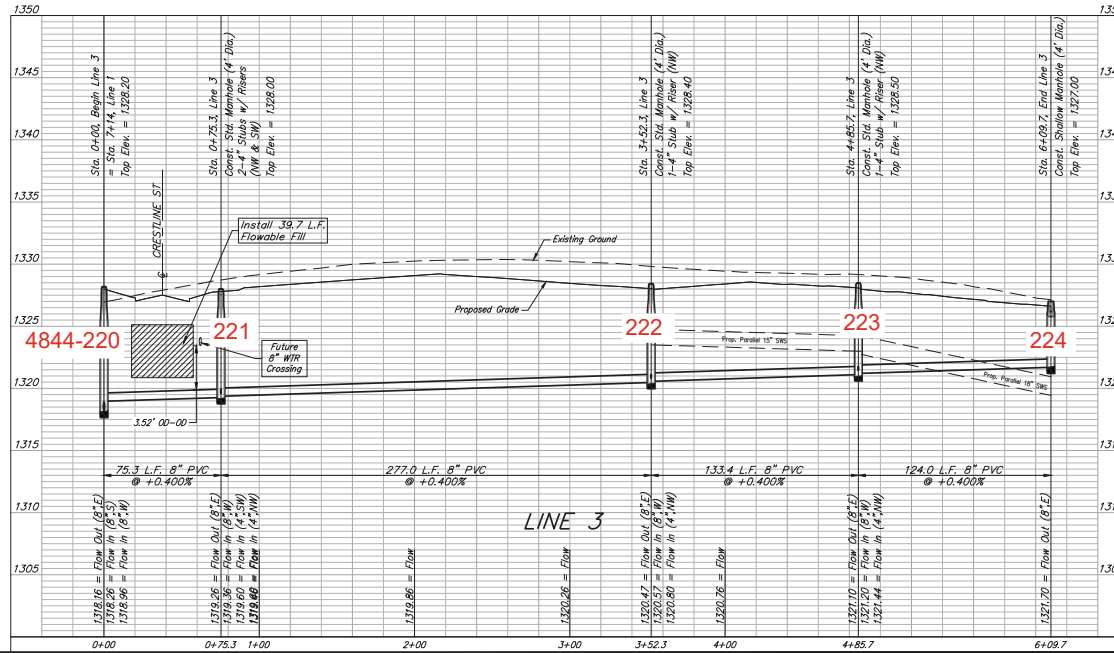


RES "A"

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			APPROX. LENGTH 4" PIPE		
		LOT NO.	BLOCK NO.	LINE NO.	VERTICAL	HORIZONTAL	
56	4" Stub	15	B	3	0+75.30/LL	3.9	15.0
57	4" Stub	16	B	3	0+75.30/RL	4.0	16.0
58	4" Stub	20	B	3	3+52.30/RL	4.0	8.7
59	4" Tee	11	B	3	3+52.30/LL	2.1	13.0
60	4" Tee	11	B	3	4+08.07/LL	2.0	15.8
61	4" Tee	10	B	3	4+18.20/LL	2.5	15.8
62	4" Tee	10	B	3	4+25.30/LL	1.5	8.0
63	4" Tee	9	B	3	4+32.07/LL	1.3	13.0
64	4" Tee	9	B	3	5+14.07/LL	1.7	13.0
65	4" Tee	8	B	3	5+53.70/LL	0.9	13.0
67	4" Tee	8	B	3	6+04.30/LL	0.9	13.0

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



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BAALMANN 5TH ADDITION
 PHASE 1

LINE 3

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
 468-2024-024813

DESIGN: CDW DRAWN: CDW

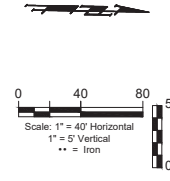
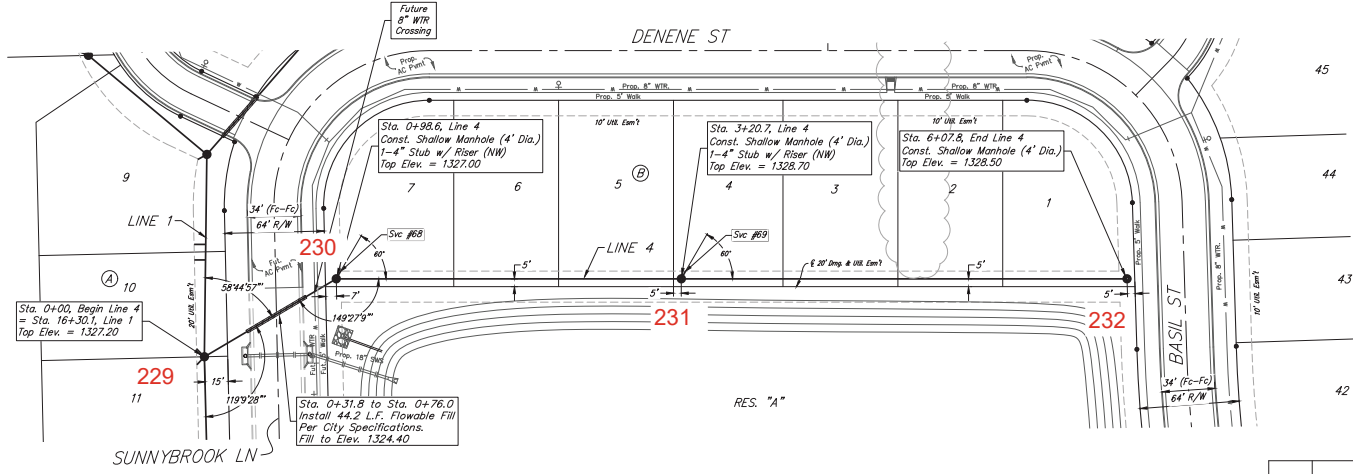
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BENCHMARKS:
 BM1: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD88

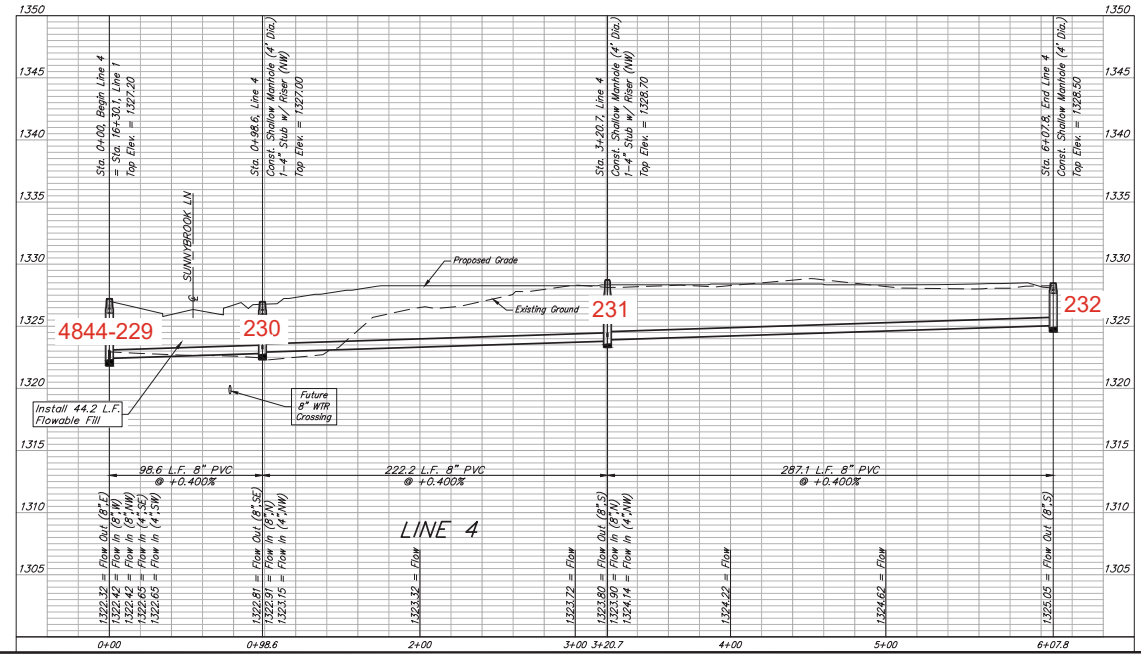
BM2: SQUARE CUT WITH CROSS
 TOP OF CURB 66.3' EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD88



SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	STATION/DIRECTION	APPROX. LENGTH 4" PIPE	
						VERTICAL	HORIZONTAL
69	4" Stub	7	B	4	0+98.6/11	-	5.9
69	4" Stub	4	6	4	3+20.7/11	0.5	5.9

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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BAALMANN 5TH ADDITION
 PHASE 1

LINE 4

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER:
 468-2024-024813

DESIGN: CDW DRAWN: CDW

DATE: Nov. 15, 2024

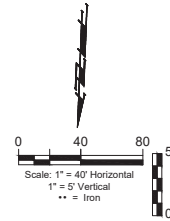
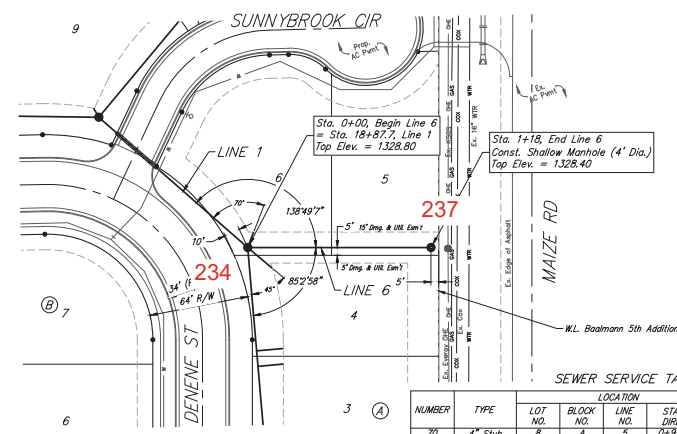
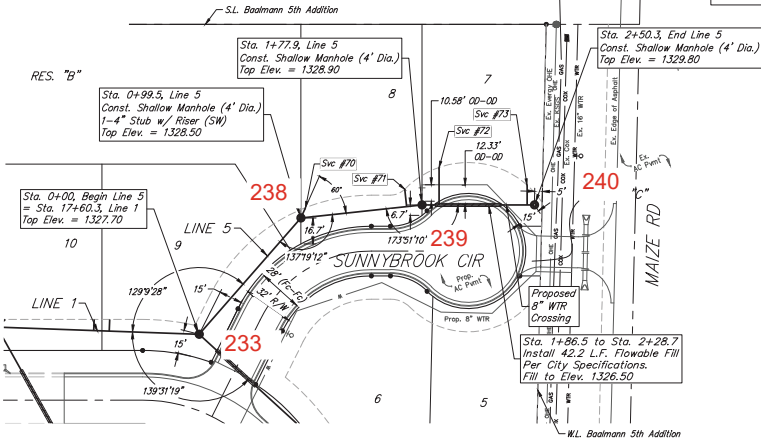
SHEET 7 OF 14

P:\E:\Projects\Baalmann 5th Addition\Engineering\Phase 1\SS PLANS_2402-EB03.dwg

BENCHMARKS:
 BM#1: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD83

**BM#2: SQUARE CUT WITH CROSS
 TOP OF CURB 66.3' EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD83**

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.

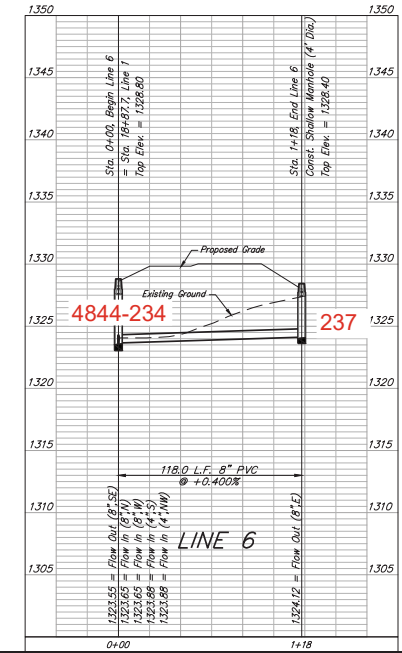
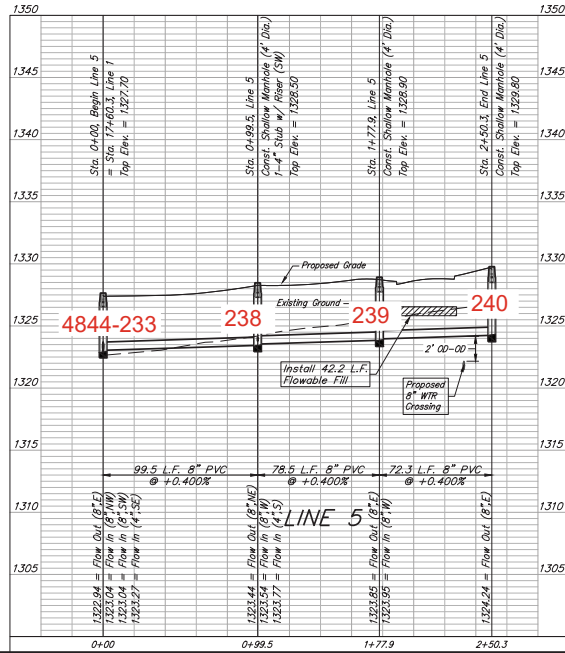


The Contractor shall be required to backfill trench
 with sand from Sta. 0+00 to Sta. 2+50.3, Line 5
 excluding locations where Flowable Fill is called out.
 To be bid as "L.F. Fill, Sand, Flushed & Vibrated"

SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY		
		LOT NO.	BLOCK NO.	LINE NO.	APPROX. LENGTH 4" PIPE	VERTICAL	HORIZONTAL
23	4" Stub				0.0	7.1	
24	8" x 4" Tee	8	A	5	1+87.90/L	11.5	
25	8" x 4" Tee	7	A	5	1+88.90/L	24.9	
26	8" x 4" Tee	7	A	5	2+25.60/L	0.3	12.8

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
 316-262-7271
 BaughmanCo.com

BAALMANN 5TH ADDITION
 PHASE 1

LINE 5&6

SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER:
 468-2024-024813

DESIGN: CDW DRAWING: CDW

DATE: Nov. 15, 2024

SHEET OF
8 14

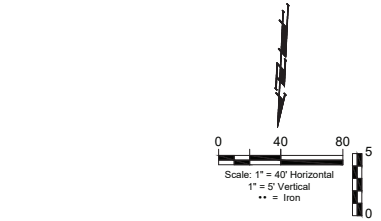
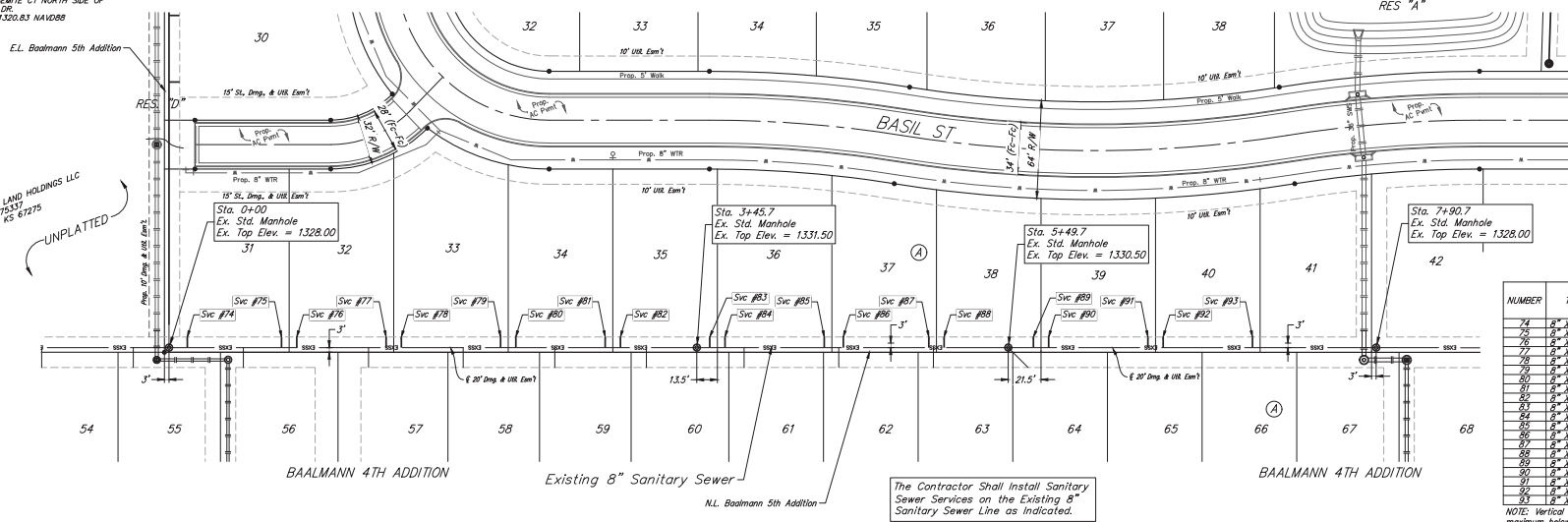
P:\E:\Projects\Baalmann 5th Addition\Engineering\Phase 1\SS PLANS_24-02-EB03.dwg

BENCHMARKS:
 BM#1: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1331.55 NAVD88

BM#2: SQUARE CUT WITH CROSS
 TOP OF CURB 66.4 EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD88

BAALMANN LAND HOLDINGS LLC
 PO BOX 75317
 WICHITA, KS 67275

UNPLATTED

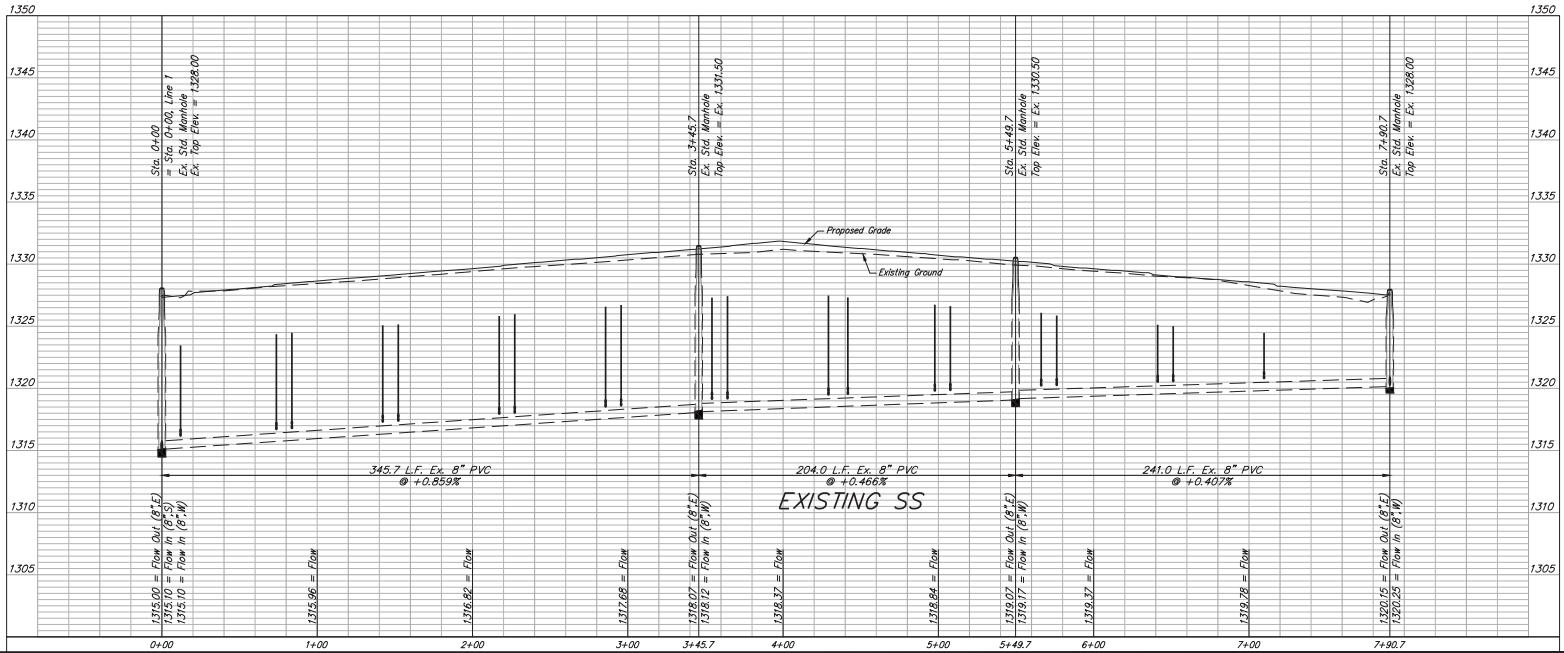


SEWER SERVICE TABLE

NUMBER	TYPE	LOCATION			FOR INFORMATION ONLY	
		LOT NO.	BLOCK NO.	LINE NO. / DIRECTION	APPROX. LENGTH 4\"/>	
74	8\"/>					
75	8\"/>					
76	8\"/>					
77	8\"/>					
78	8\"/>					
79	8\"/>					
80	8\"/>					
81	8\"/>					
82	8\"/>					
83	8\"/>					
84	8\"/>					
85	8\"/>					
86	8\"/>					
87	8\"/>					
88	8\"/>					
89	8\"/>					
90	8\"/>					
91	8\"/>					
92	8\"/>					
93	8\"/>					

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

The Contractor Shall Install Sanitary Sewer Services on the Existing 8\"/>



BAUGHMAN COMPANY

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

BAALMANN 5TH ADDITION
 PHASE 1

PROP. SVC'S

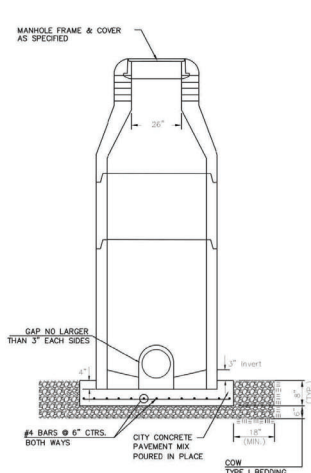
SANITARY SEWER
 IMPROVEMENTS

PROJECT NUMBER:
 468-2024-024813

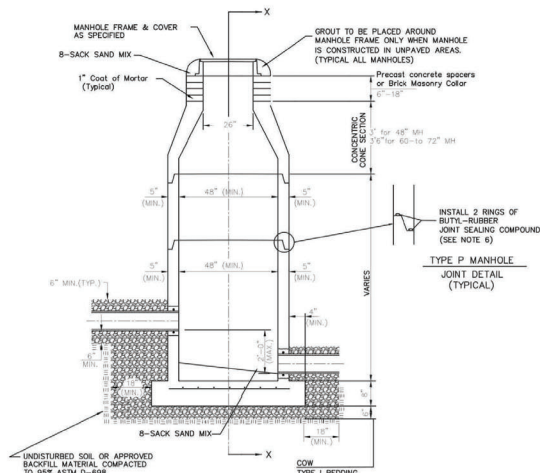
DESIGN: CDW DRAWING: CDW
 DATE: Nov. 15, 2024

SHEET **9** OF **14**

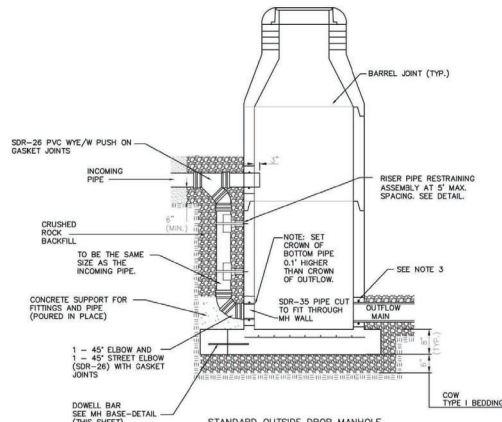
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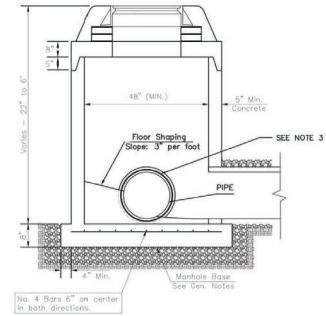
DOG HOUSE MANHOLE
(OVER EXISTING PIPE)
Not to Scale



STANDARD MANHOLE
Not to Scale



STANDARD OUTSIDE DROP MANHOLE
Not to Scale

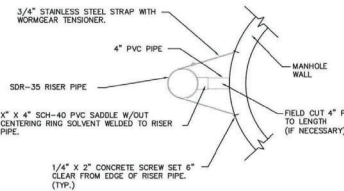


SHALLOW MANHOLE
Not to Scale

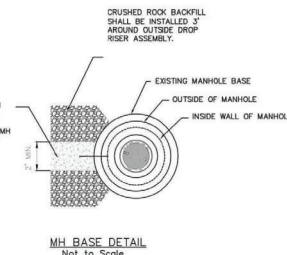
 = COW TYPE I BEDDING
 = UNDISTURBED SOIL

PRECAST MANHOLE GENERAL NOTES

- ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO THE LATEST REVISIONS OF A.S.T.M. C478 AS MODIFIED BY THE SPECIFICATIONS.
- NON-SHRINK GROUT SHALL BE NON-METALLIC TYPE.
- APPROVED FLEXIBLE WATERSTOP SHALL BE INSTALLED TO JOIN THE SEWER PIPE TO THE MANHOLE WALL. THE SEWER PIPE SHALL BE SUPPORTED WITH CRUSHED ROCK A MINIMUM OF 3 FEET FROM THE MANHOLE WALL AND TO THE FIRST JOINT FOR V.C.P. SUCH THAT THE JOINT REMAINS FLEXIBLE.
- ALL INSIDE SURFACES OF THE CONCRETE MANHOLE WHICH WOULD BE EXPOSED TO SEWER GAS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- EXTERIOR MANHOLE WALLS SHALL BE COATED PER SECTION 804.4 OF STANDARD SPECIFICATIONS.
- JOINT SEALING COMPOUND SHALL BE PER 804.4 OF STANDARD SPECIFICATIONS.
- ALL MANHOLE SECTION JOINTS THAT WILL BE IN GROUNDWATER OR GREATER THAN 12" DEEP SHALL BE WRAPPED WITH AN EXTERNAL JOINT SEAL PER SECTION 804.4 OF STANDARD SPECIFICATIONS, AS INDICATED BY THE PLANS.
- PRECAST MANHOLES SHALL BE SET AT LEAST 4 INCHES INTO THE MANHOLE BASE FOR DOG HOUSE MANHOLES.
- TOP OF MANHOLE FLOOR SLAB SHALL BE AT LEAST 3 INCHES BELOW THE FLOW LINE OF THE OUTLET PIPE TO INSURE SUFFICIENT MINIMUM THICKNESS OF SHARPED INVERT.
- LIFTING HOLES SHALL BE FILLED WITH NON-SHRINK GROUT AND THE INTERIOR SURFACE COATED AS SPECIFIED.
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE PAVEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
- REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO.4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED AT LEAST 3" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
- WALL THICKNESS SHALL BE 1" GREATER THAN MANHOLE DIAMETER IN FEET.
- OPENINGS SHALL BE CORE DRILLED INTO THE MANHOLE WALL WHEN OUTSIDE DROPS ARE CONSTRUCTED ON EXISTING MANHOLES. SUCH OPENINGS DRILLED INTO EXISTING MANHOLES SHALL BE AS SMALL AS PRACTICAL TO FACILITATE INSTALLING AND GROUTING THE NEW PIPE IN PLACE. WATERSTOP GASKETS SHALL BE USED WITH P.V.C. PIPE. THE NEW PIPE SHALL BE GROUTED INTO THE OPENING USING AN APPROVED NONSHRINK GROUT FOR THE FULL MANHOLE WALL THICKNESS. THE EXTERIOR OF THE COMPLETED CONNECTION SHALL BE SEALED WITH AN APPROVED BITUMINOUS COATING SUCH THAT THE CONNECTION WILL BE WATER TIGHT. FLOOR OF MANHOLE SHALL BE MODIFIED TO FORM NEW FLOW CHANNEL FOR THE NEW CONNECTION AS INDICATED BY THE DRAWING. THIS WORK, INCLUDING MODIFICATION OF MANHOLE FLOOR, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR OUTSIDE DROP STACK CONSTRUCTED ON EXISTING MANHOLE.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LEAD THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO NEAT LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
- MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWING.
- THE VERTICAL DROP IN STANDARD MANHOLES SHALL NOT EXCEED 3" REGARDLESS OF PIPE SIZE. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
- STANDARD MANHOLES SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED. OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4" UNLESS INDICATED OTHERWISE.
- PRECAST CONCRETE SPACERS OR BRICK MASONRY COLLAR SHALL BE INSTALLED BETWEEN THE CAST IRON FRAME AND THE CONCENTRIC CONE. THE COLLAR WILL HAVE 8" WALLS AND A VERTICAL HEIGHT OF 6" MINIMUM AND 18" MAXIMUM. A 1" COAT OF MORTAR WILL BE PLASTERED ON THE OUTSIDE OF THE COLLAR. THE USE OF PRE-CAST CONCRETE SPACERS FOR MANHOLE TOP ADJUSTMENT IS ALSO ALLOWED.
- THE FULL DIAMETER OF THE MANHOLE SHALL EXTEND THE ENTIRE DEPTH OF THE MANHOLE TO THE CONE SECTION. NO REDUCTION IN MANHOLE DIAMETER WILL BE ALLOWED.




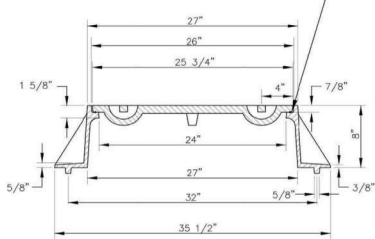
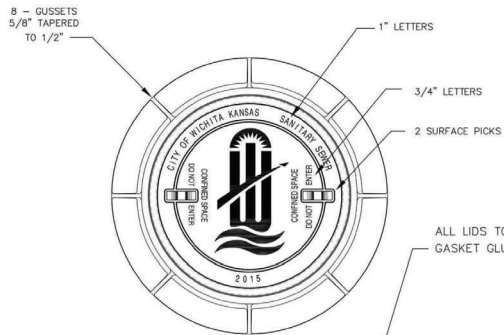
RISER PIPE RESTRAINING ASSEMBLY
Not to Scale



MH BASE DETAIL
Not to Scale

SANITARY SEWER MANHOLE DIAMETERS		
DIAMETER	DEPTH	PIPE SIZE
4"	0'-15"	8"-18"
5"	>15'-30"	21"-30"
6"	>30"	36"-60"

REVISION NOVEMBER 2019	RISER PIPE RETAINING ASSEMBLY REVISED ON MANHOLE DRAWING
 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	
PRECAST SANITARY SEWER MANHOLE CITY ENGINEER GARY JANZEN, P.E.	
PROJECT NUMBER	DATE
OCA NUMBER	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501	
SHEET 10 of 14	

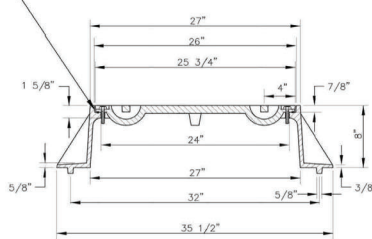
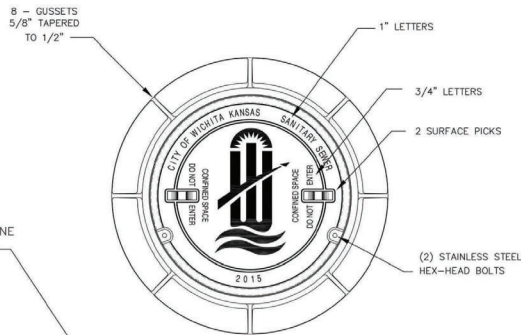


STANDARD MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-21

NOTE:

1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.



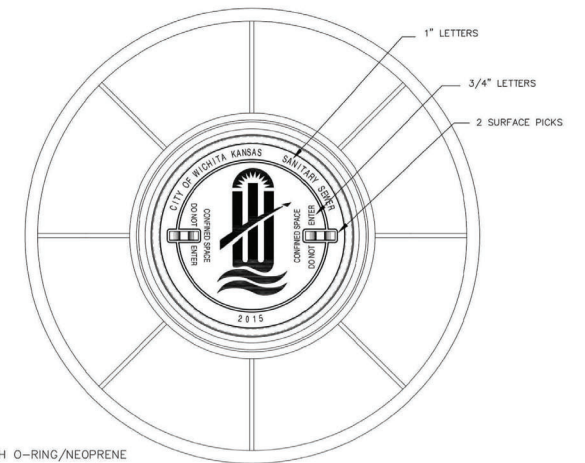
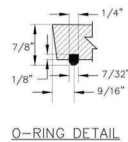
BOLT DOWN MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-21

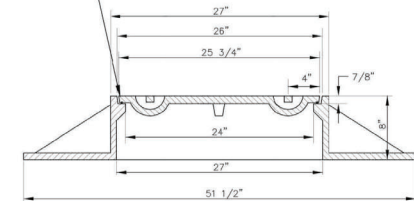
NOTE:

1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE GASKET GLUED IN THE COVER BEARING SURFACE.



ALL LIDS TO BE FURNISHED WITH O-RING/NEOPRENE GASKET GLUED IN THE COVER BEARING SURFACE.



WIDE FLANGED FRAME & COVER

DEETER #1261A

NOTE:

1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTIONS OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
3. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCES SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SEATING SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
4. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SANITARY SEWER". THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN WITH CITY OF WICHITA DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUT SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.

REVISED: MARCH 2016



MANHOLE FRAME AND COVER (SANITARY SEWER)

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER OCA NUMBER DATE

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

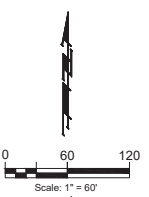
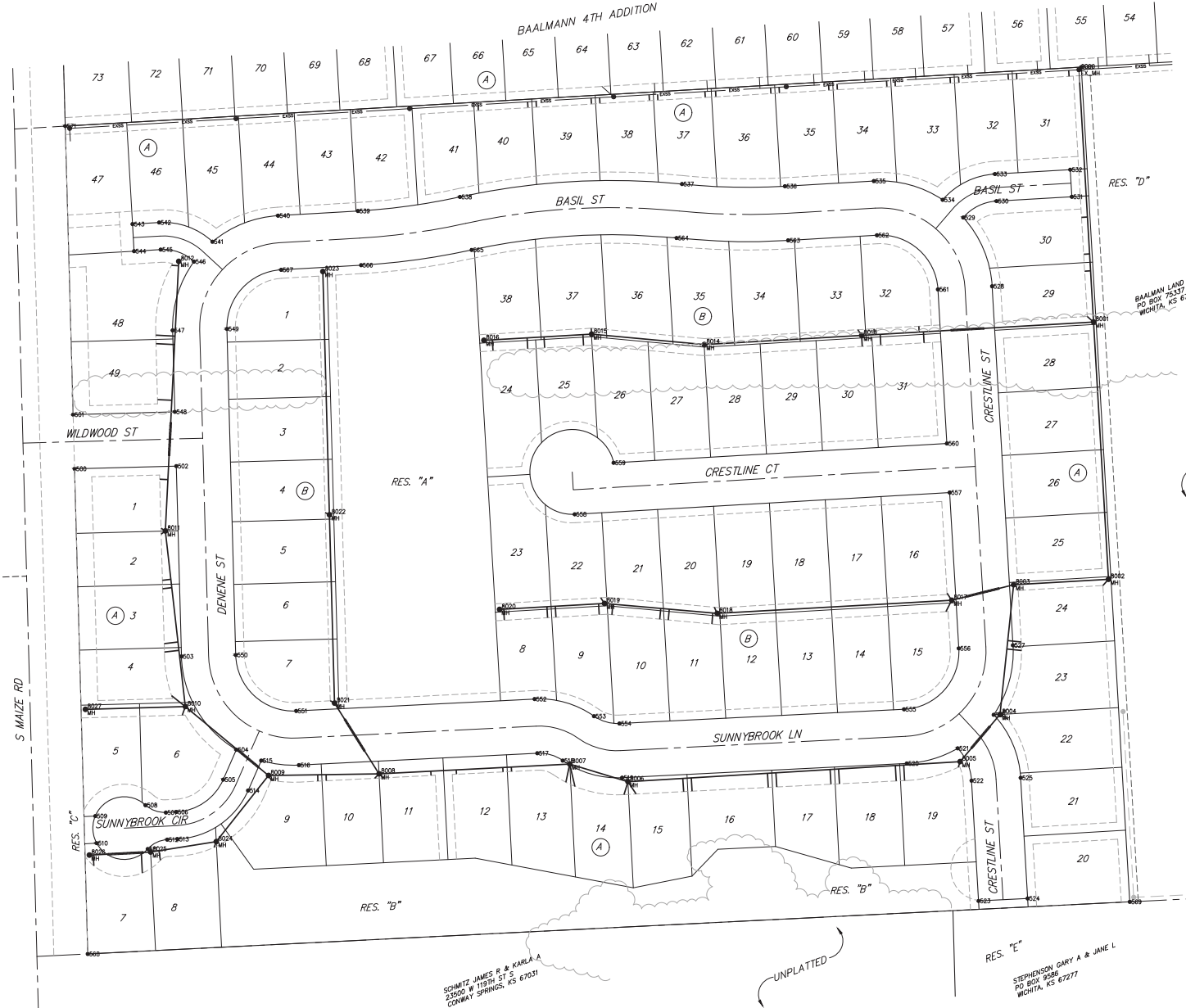
SHEET
11 of 14

BENCHMARKS:
 BENCH: SQUARE CUT WITH CROSS ON
 SOUTHWEST CORNER OF SOUTH
 CURB INLET AT THE INTERSECTION
 OF BASIL STREET AND MAIZE ROAD.
 ELEV. = 1321.55 NAVD83

BENCH: SQUARE CUT WITH CROSS
 TOP OF CURB 66.2 EAST OF THE
 EAST YOSEMITE CT NORTH SIDE OF
 YOSEMITE DR.
 ELEV. = 1320.83 NAVD83

Point #	Northing	Easting	Description
500	1468.648.05	14713.030.63	IRON
501	1468.912.03	14713.028.89	IRON
502	1468.891.30	14711.555.59	IRON
503	1468.626.73	14711.556.69	IRON
504	1468.516.70	14712.217.42	IRON
505	1468.461.42	14712.035.97	IRON
506	1468.413.17	14711.955.54	IRON
507	1468.442.56	14711.928.26	IRON
508	1468.451.27	14711.914.23	IRON
509	1468.428.39	14711.935.02	IRON
510	1468.406.43	14711.926.42	IRON
511	1468.398.53	14711.916.82	IRON
512	1468.415.60	14711.938.88	IRON
513	1468.417.21	14711.932.14	IRON
514	1468.408.59	14712.232.38	IRON
515	1468.503.87	14712.250.13	IRON
516	1468.408.47	14713.295.23	IRON
517	1468.512.54	14713.576.30	IRON
518	1468.503.87	14713.606.37	IRON
519	1468.483.62	14713.676.33	IRON
520	1468.503.43	14714.012.02	IRON
521	1468.518.39	14714.022.38	IRON
522	1468.480.17	14714.088.37	IRON
523	1468.338.33	14714.096.61	IRON
524	1468.341.23	14714.154.54	IRON
525	1468.483.53	14714.146.28	IRON
526	1468.557.89	14714.174.46	IRON
527	1468.628.91	14714.172.20	IRON
528	1468.621.91	14714.177.89	IRON
529	1468.645.60	14714.078.55	IRON
530	1468.763.08	14714.177.84	IRON
531	1468.869.04	14714.206.64	IRON
532	1468.920.98	14714.204.79	IRON
533	1468.985.63	14714.155.89	IRON
534	1468.965.49	14714.054.32	IRON
535	1468.907.54	14713.973.18	IRON
536	1468.918.45	14713.968.37	IRON
537	1468.784.02	14713.746.36	IRON
538	1468.768.87	14713.485.13	IRON
539	1468.752.27	14713.364.84	IRON
540	1468.746.74	14713.270.54	IRON
541	1468.715.95	14713.193.20	IRON
542	1468.638.60	14713.130.32	IRON
543	1468.518.79	14713.086.36	IRON
544	1468.328.62	14713.022.82	IRON
545	1468.106.65	14713.032.19	IRON
546	1468.080.53	14713.077.39	IRON
547	1468.017.38	14713.146.24	IRON
548	1468.915.28	14713.148.85	IRON
549	1468.913.12	14713.215.22	IRON
550	1468.628.47	14713.220.69	IRON
551	1468.628.39	14713.230.03	IRON
552	1468.576.46	14713.072.10	IRON
553	1468.556.22	14713.643.12	IRON
554	1468.547.54	14713.873.13	IRON
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557	1468.530.10	14714.062.63	IRON
558	1468.528.42	14713.935.37	IRON
559	1468.525.19	14713.826.38	IRON
560	1468.518.07	14714.058.38	IRON
561	1468.509.70	14714.048.71	IRON
562	1468.423.64	14713.976.89	IRON
563	1468.717.56	14713.872.08	IRON
564	1468.420.34	14713.740.56	IRON
565	1468.426.31	14713.498.88	IRON
566	1468.380.32	14713.382.55	IRON
567	1468.282.85	14713.274.25	IRON
568	1468.275.74	14713.046.15	IRON
569	1468.327.25	14714.274.97	IRON
570	1468.321.84	14714.271.80	IRON
571	1468.252.57	14713.978.88	IRON

Point #	Northing	Easting	Description
8000	1469.318.79	1474.274.98	EC, MH
8001	1469.021.27	1474.232.25	MH
8002	1468.717.79	1474.249.67	MH
8003	1468.717.29	1474.138.06	MH
8004	1468.558.37	1474.121.97	MH
8005	1468.552.88	1474.074.80	MH
8006	1468.476.98	1474.083.19	MH
8007	1468.409.75	1474.014.56	MH
8008	1468.408.16	1474.089.61	MH
8009	1468.406.25	1474.259.28	MH
8010	1468.567.49	1474.191.28	MH
8011	1468.774.67	1474.127.68	MH
8012	1468.982.71	1474.153.47	MH
8013	1469.055.39	1474.088.77	MH
8014	1468.984.62	1474.772.52	MH
8015	1469.006.94	1474.640.31	MH
8016	1468.999.36	1474.913.30	MH
8017	1468.818.53	1474.985.00	MH
8018	1468.677.46	1474.798.43	MH
8019	1468.689.29	1474.655.67	MH
8020	1468.682.10	1474.531.77	MH
8021	1468.577.67	1474.537.84	MH
8022	1468.703.74	1474.331.27	MH
8023	1468.080.69	1474.824.43	MH
8024	1468.408.18	1474.197.72	MH
8025	1468.385.89	1474.120.24	MH
8026	1468.382.39	1474.047.89	MH
8027	1468.564.29	1474.043.37	MH



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BAALMANN 5TH ADDITION
PHASE 1

COORDINATE
SHEET

SANITARY SEWER
IMPROVEMENTS

PROJECT NUMBER:
468-2024-024813

DESIGN: CDW DRAWN: CDW
DATE: Nov. 15, 2024

SHEET 13 OF 14

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