

WATER DISTRIBUTION SYSTEM

to serve

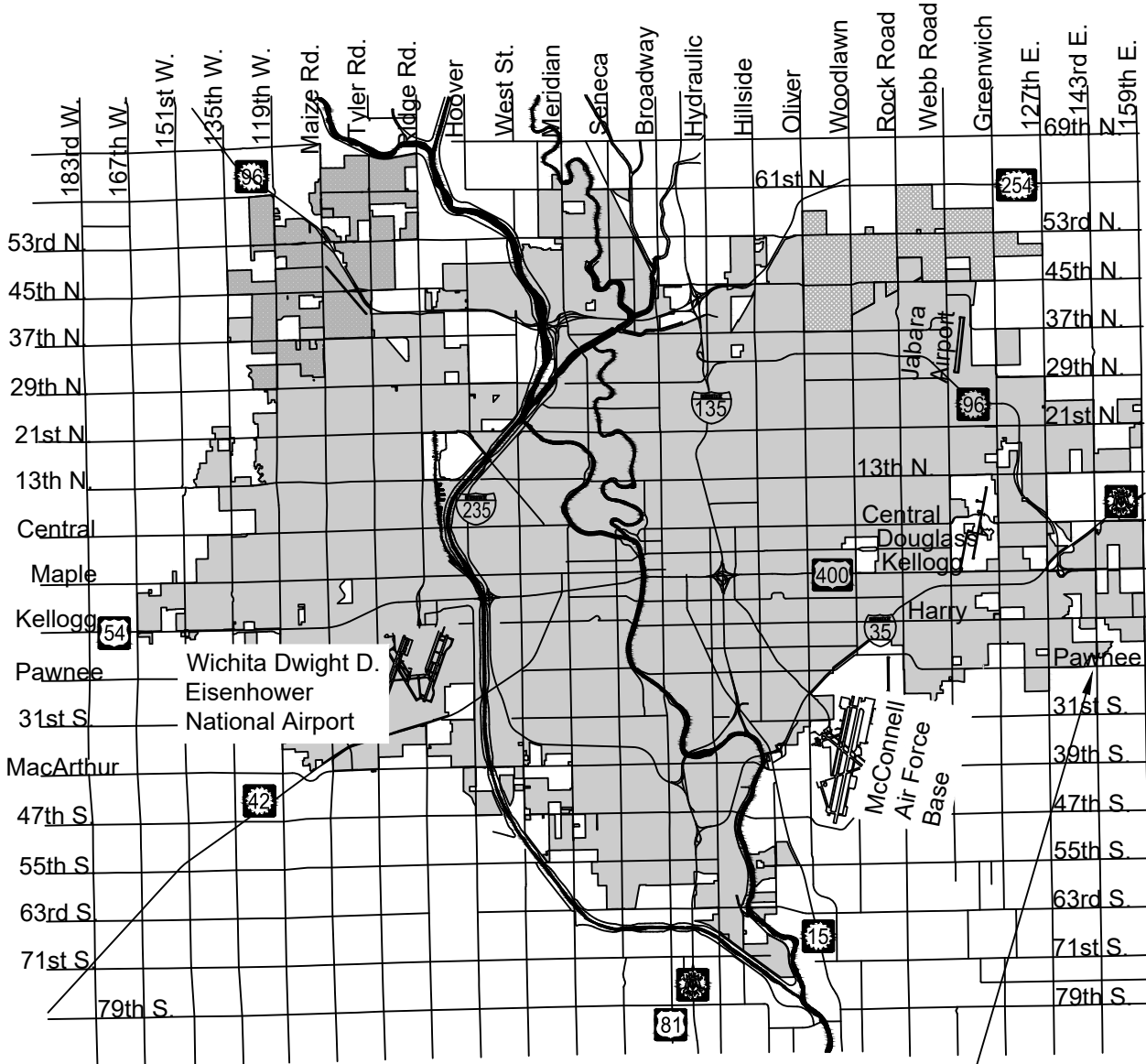
CLEAR RIDGE ADDITION PH. 3

Project Number: 448-2026-007012
Org Code Number: 47131226
Munis Number: E6172

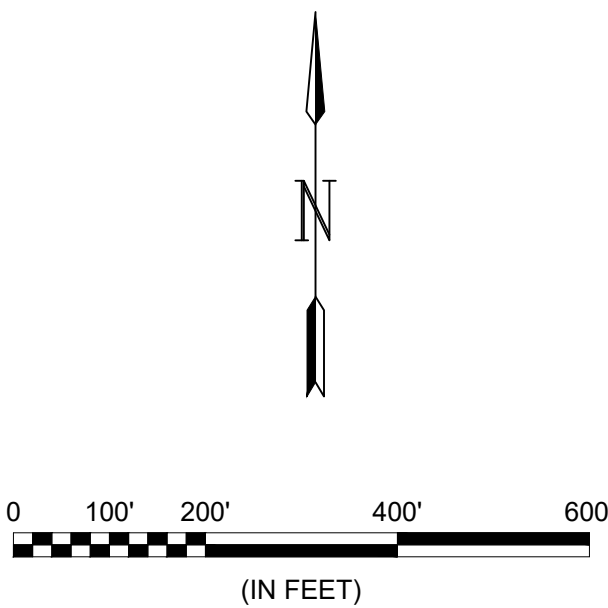
CLEAR RIDGE 2nd ADD. PH. 1

Project Number: 448-2024-030350
Org Code Number: 47130626
Munis Number: E6148

CITY OF WICHITA, KANSAS
Paul Gunzelman, P.E.- City Engineer



Vicinity Map
PROJECT
LOCATION



DEVELOPER'S CONTACT INFORMATION
Gene Vitarelli
Pawnee Developers, LLC
genev1@cox.net
cwchomes316@att.net
316-807-6330

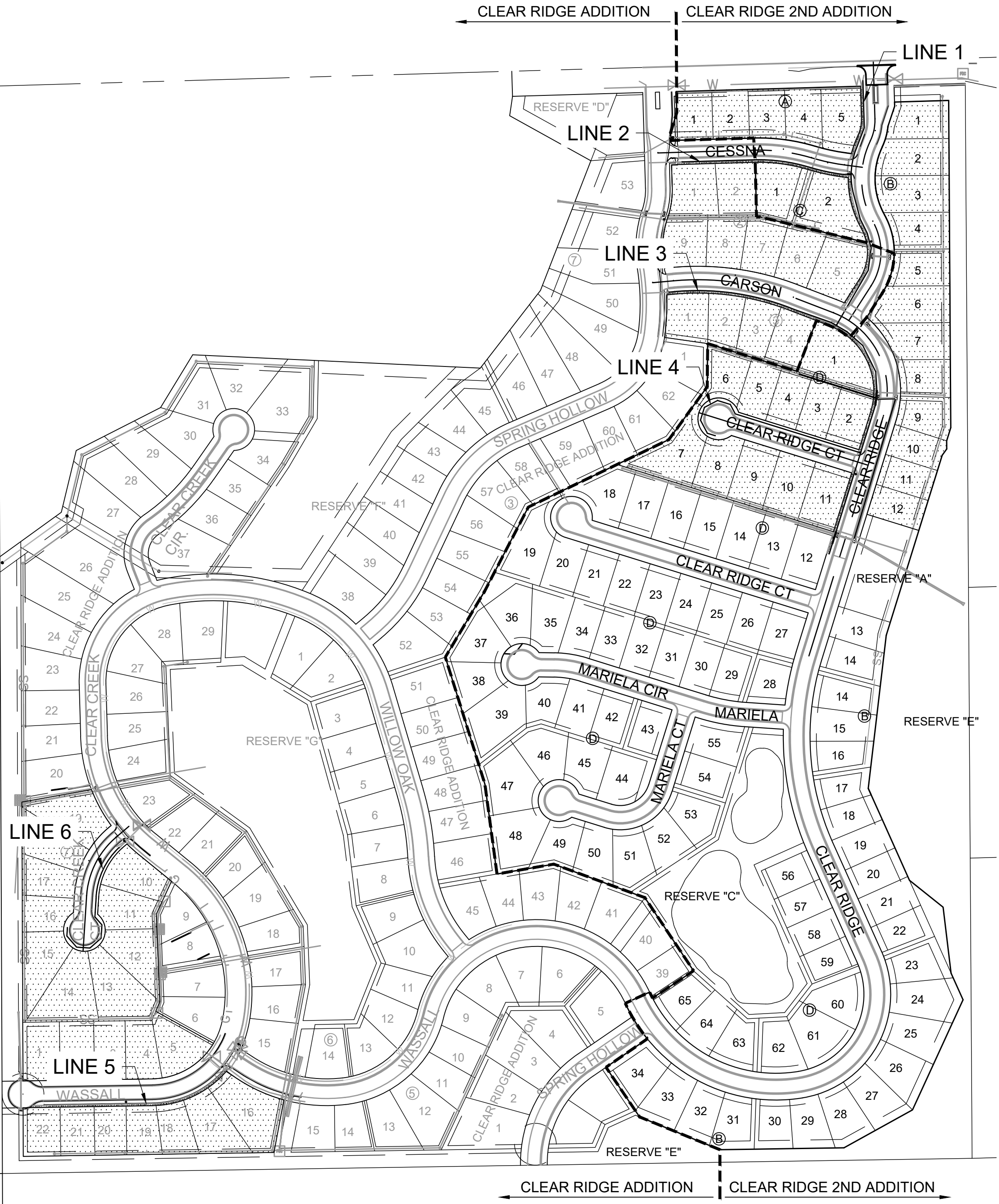
Benchmarks

BENCHMARK #1: SQ CUT W/DIVOT NE CURB RETURN
CESSNA AND SPRING HOLLOW
ELEVATION = 1316.40 (NAVD88, G12A)

BENCHMARK #2: SQ CUT W/DIVOT EAST TOP OF
CURB 170 FT ± NORTH OF INTERSECTION OF WILLOW
OAK AND SPRING HOLLOW.
ELEVATION = 1322.58 (NAVD88, G12A)

NOTE: All coordinates listed are modified NAD83 Kansas State Plane Zone South unless otherwise noted. To convert listed coordinates to NAD83 Kansas State Plane Zone South coordinates multiply the northing and easting by the project scale factor of 0.99994679. Elevation datum is NAVD88 Geoid 12B unless otherwise noted.

IMPROVEMENT DISTRICT



Sheet List Table	
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20	Silt Fence Details
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23	Subdivision Development Process
24	Clear Ridge 2nd Addition Plat
25	Clear Ridge Addition Plat (1)
26	Clear Ridge Addition Plat (2)



JULY 2026

PLANS PREPARED BY



GARVER
1995 Midfield Road
Wichita, KS 67209
(316) 264-8008
www.GarverUSA.com
Project No. 2301492

GENERAL NOTES:

1. The Contractor shall comply with all applicable safety regulations. All construction shall be completed following current City Standard Specifications and Special Provisions.
2. 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:

T&T	1-800-246-8464
City of Wichita Water & Sewer Dept.	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
Evergry	1-800-544-4857
Kansas Gas Service	1-316-832-3177
Black Hills Energy	1-316-554-6300
Phillips 66	1-432-894-7721

3. Utility service lines, poles, etc. are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
4. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations, in the opinion of the Engineer, that will leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits will require additional archaeological investigations unless buried in a previously approved borrow location.
5. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
6. The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
7. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
8. The Engineering Division shall field locate water valves one time during construction when requested by the Contractor. It shall be the Contractor's responsibility to preserve such field locations during the construction process. Water valves, valve boxes or fire hydrants damaged during construction shall be repaired by Contractor at his own expense. Valve boxes and water meters within the project limits shall be adjusted to match final grades by the Contractor.
9. If traffic will be impacted by construction, a traffic control plan must be submitted and approved by the City Traffic Engineer, at traffic@wichita.gov before construction can begin. The Contractor shall be responsible for all traffic control measures to facilitate construction. All construction zone markings and signage shall conform to the latest version of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the US Dept. of Transportation, Federal Highway Administration. All costs associated with construction markings and signage shall be the Contractors responsibly.
10. All elevations shown are NAVD 88.

11. Opening and closing of water valves shall be done slowly to prevent damage to the water distributions system from water hammer. All valves closed by the contractor must be reopened as new construction permits. The project inspector must ascertain that any valve closed by the Contractor is reopened. The contractor will be permitted to operate water valves only when the project inspector assigned to the project is present.

1. The Contractor shall install a Tracer Wire and Set Test Stations along all water pipe installed in accordance with City Specifications and Tracer Wire Detail on detail sheet WL-101, cost is subsidiary to pipe installation.
13. The contractor shall provide materials for temporary blowoff of waterlines. Connections to the existing waterline(s) shall be made with clean, swabbed pipe and flushed upon completion of tie-ins.
14. Requests for short term water interruptions shall be made to the City Water Distribution Division and will be subject to their approval. The Contractor shall give written notice to any property owner, business, and/or tenants that will have water service interrupted at least 5 days in advance. Such notifications should indicate the time and date that the water will be turned off and when the service will be restored. No business, property owner, and/or tenants shall be without water service for more than 8 hours. Proposed tie in locations which will affect water service to property owners shall be preformed during non-peak hours.
15. The Contractor must schedule the connections to the existing main with the City such that there is a minimum disruption of service. Connections shall be made during periods of low water usage. The Contractor shall submit his proposed schedule for completing work for City approval at least 10 days prior to beginning construction.
16. Deflections at pipe joint or couplings shall not exceed the pipe manufacturers recommended maximum. Where deflections are greater than the maximum allowed, the contractor shall utilize fittings.
17. Any existing joint exposed during excavation shall be replaced if within four feet of proposed water main joint or proposed pipe shall be field adjusted clear with approval of the field engineer.
18. Valves 12 inch and larger are to be operated by the City Water Distribution Division, 48 hours of advance notice is required with the water Dispatch at 316-219-8921.
19. The Contractor shall protect from damage and support existing utilities through construction as approved by the utility owner and the Engineer at the contractors expense.
20. Contractor shall limit the extent of trench openings overnight and weekends to less than 50 feet.
21. Excess dirt generated from installation of underground utilities is to remain on site and placed on Lots 23-26, Block D, Clear Ridge 2nd Addition. Do NOT place within Right of Way or within any easements.
22. Maintain a minimum of 10-foot horizontal separation between all waterlines (mains, services, and fire hydrants) and all sanitary sewer lines (main, services, and manholes). All separation distances are to be measured from edge-to-edge, at the closest point.
23. Maintain a minimum of 2-foot vertical separation between all water lines (main and services) and all gravity sanitary sewer lines (mains, services, and manholes) at crossings. All separation distances are to be measured from edge-to-edge, at the closest point.
24. Maintain a minimum of 2-foot vertical separation between all water lines (mains and services) and all pressurized sanitary sewer lines (force mains and services) at crossings. Waterlines must always be placed above pressurized sanitary sewer lines where they cross. All separation distances are to be measured from edge-to-edge, at the closest point.
25. All disturbed areas shall be stabilized with temporary seeding. All seeding per City of Wichita Specifications. Seeding shall be paid for as the bid item "Seeding, Temporary, L.S..".
26. All sloped pipe lengths for water lines going down and under other utilities are labeled actual length of pipe (3D Length), not plan length.



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AGREEMENT FOR THIS WORK.

995 Midfield Road
 Wichita, KS 67209
 (316) 264-8008



REV	DATE	DESCRIPTION	BY

CITY OF WICHITA
WICHITA, KANSAS

CLEAR RIDGE 2ND
ADDITION - PHASE 1
WATER

General Notes

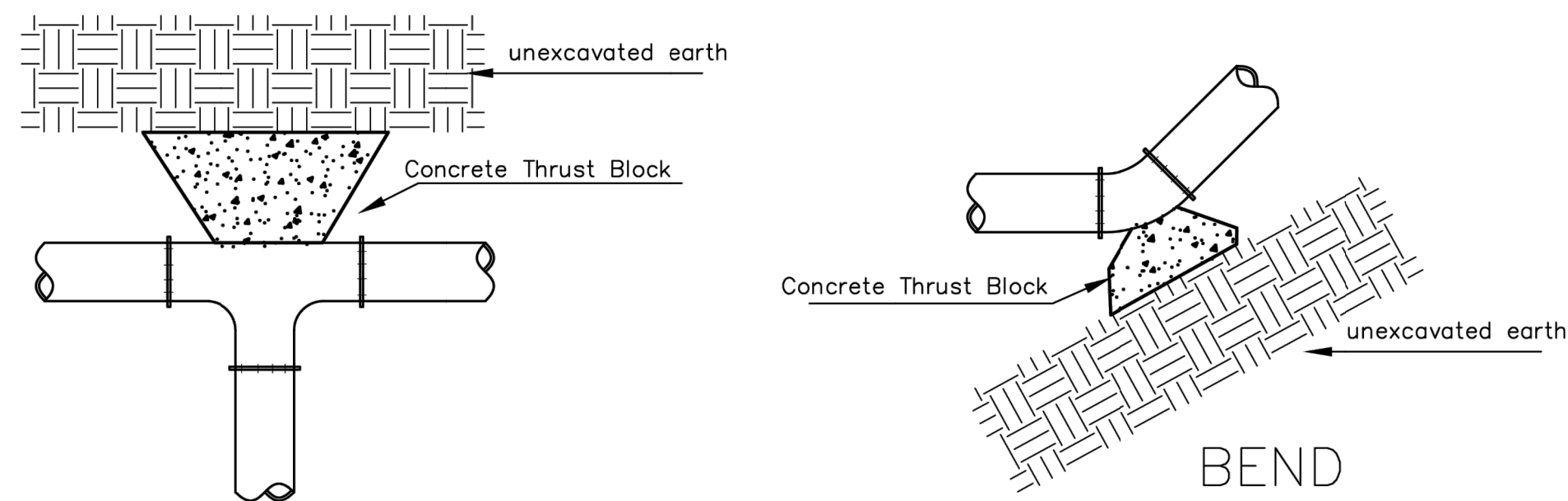
JOB NO.: 2301492
 DATE: JULY 2026
 DESIGNED BY: KWL
 DRAWN BY: MCP

BAR IS ONE INCH ON
ORIGINAL DRAWING

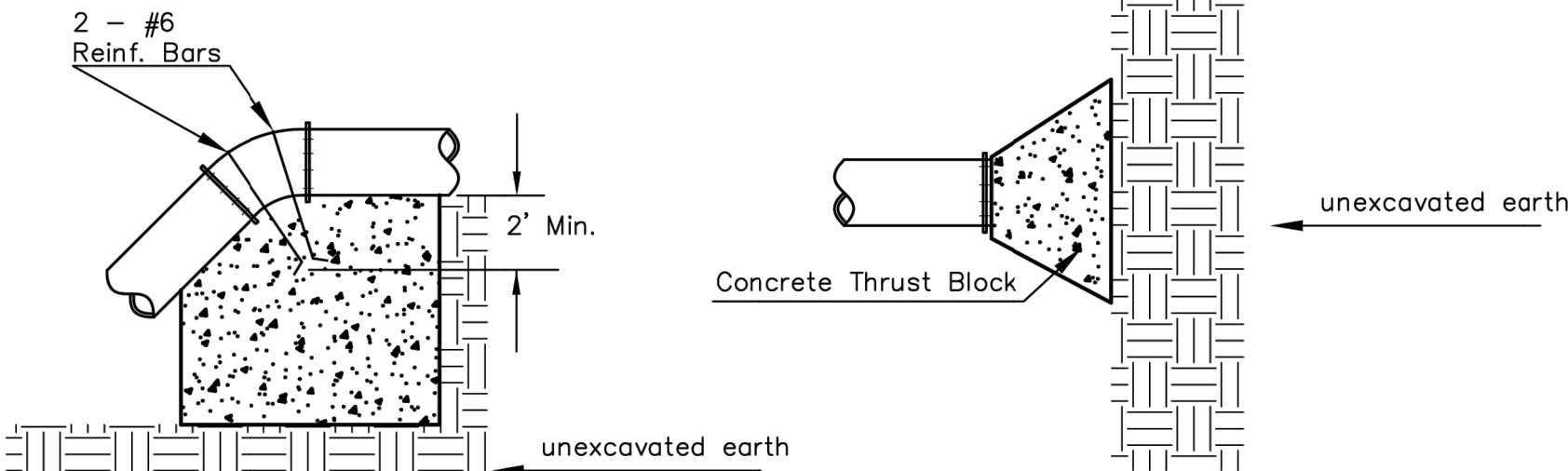
0 1"

DRAWING NUMBER

SHEET
NUMBER **2** OF **19**



TEE

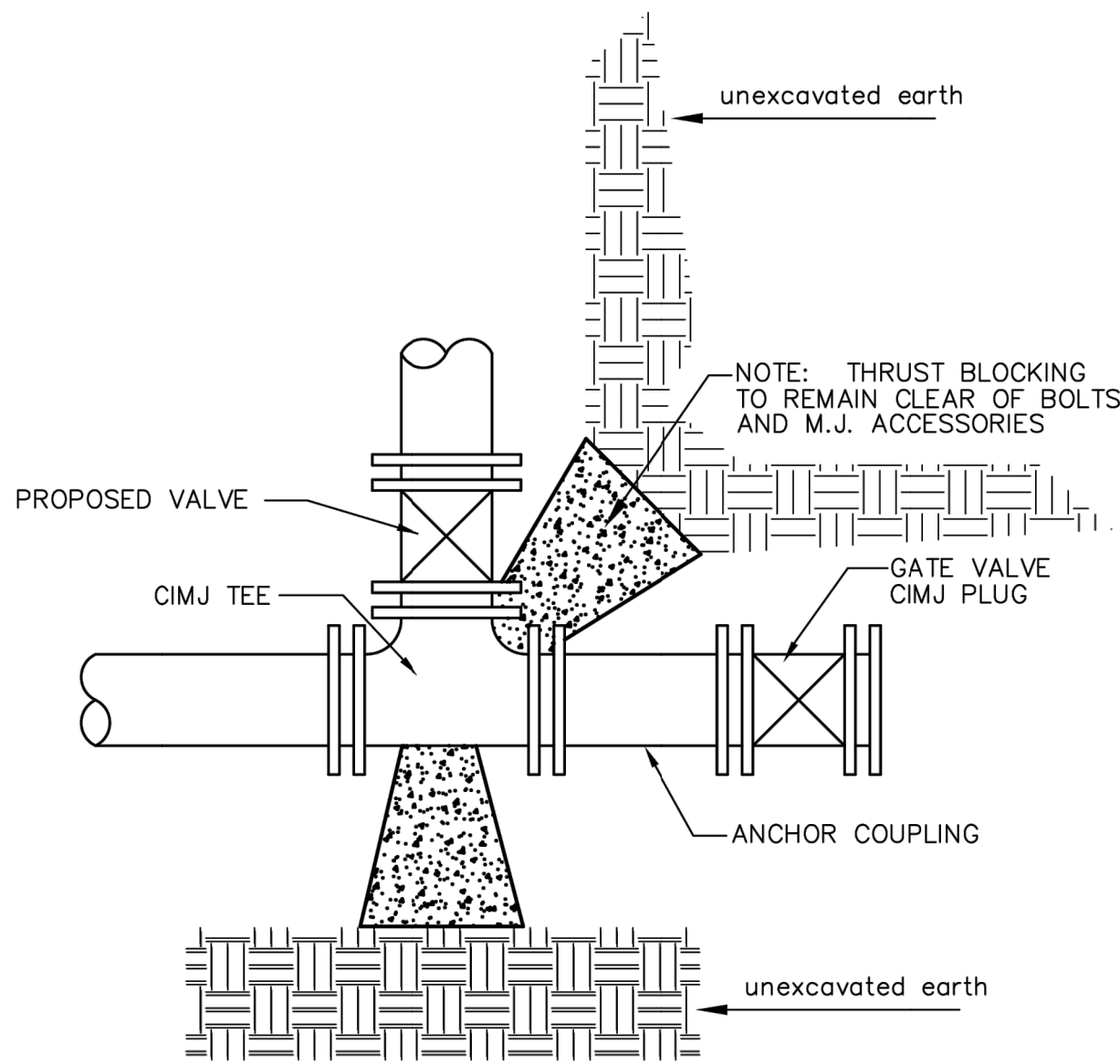


VERTICAL BEND

PLUG

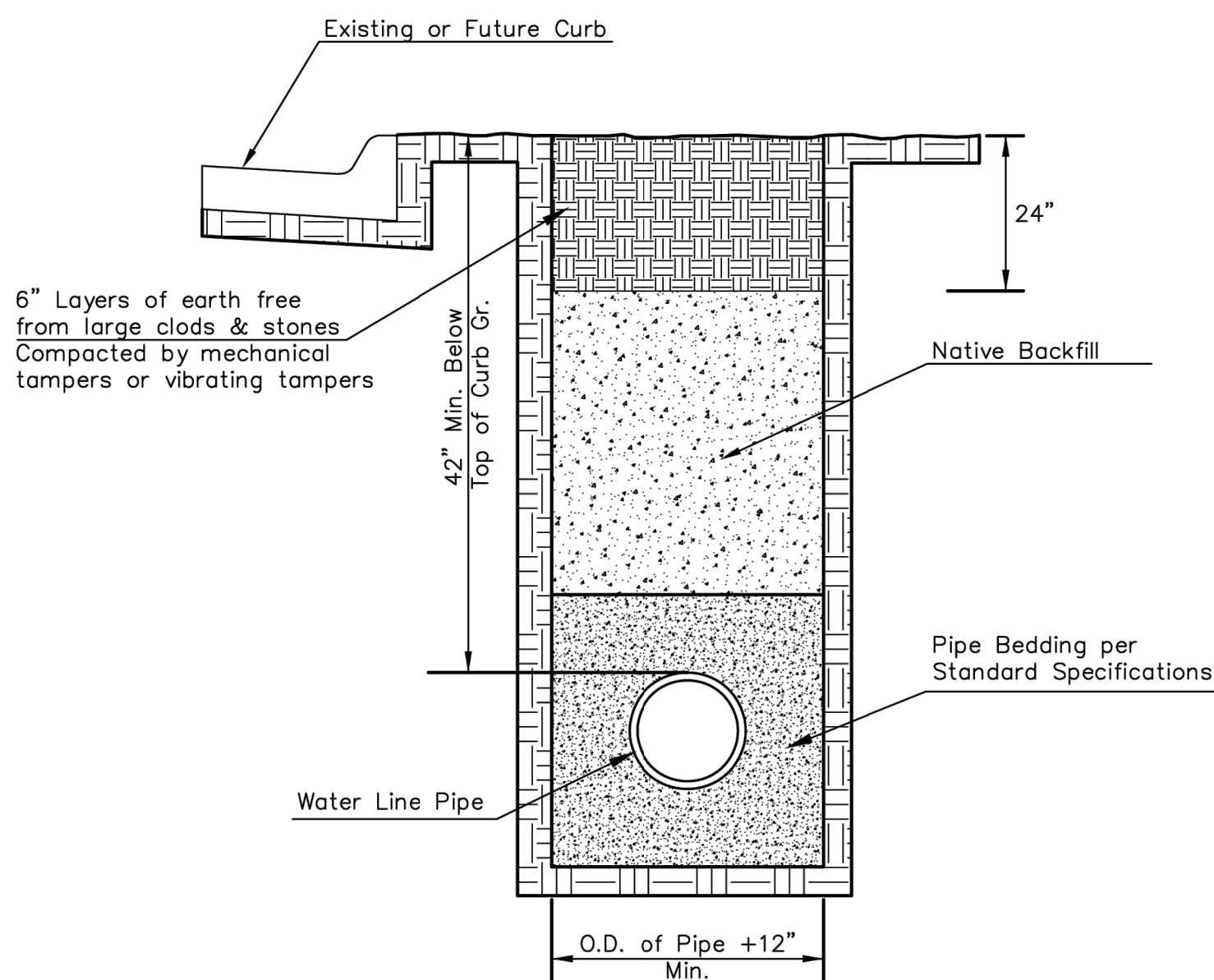
PIPE SIZE	THRUST AT FITTINGS IN TONS—AT 150#/IN ² P					
	PLUG	90°	45°	22 1/2°	11 1/4°	TEE
6"	2.8	3.95	2.15	1.09	.55	2.8
8"	4.9	6.95	3.75	1.90	.96	4.9
12"	11.4	16.1	8.75	4.45	2.25	11.4
16"	20.15	28.5	15.4	7.85	3.95	20.15
20"	31.15	44.0	23.85	12.15	6.10	31.15
24"	44.55	63.0	34.1	17.4	8.75	44.55

TYPICAL THRUST BLOCKS



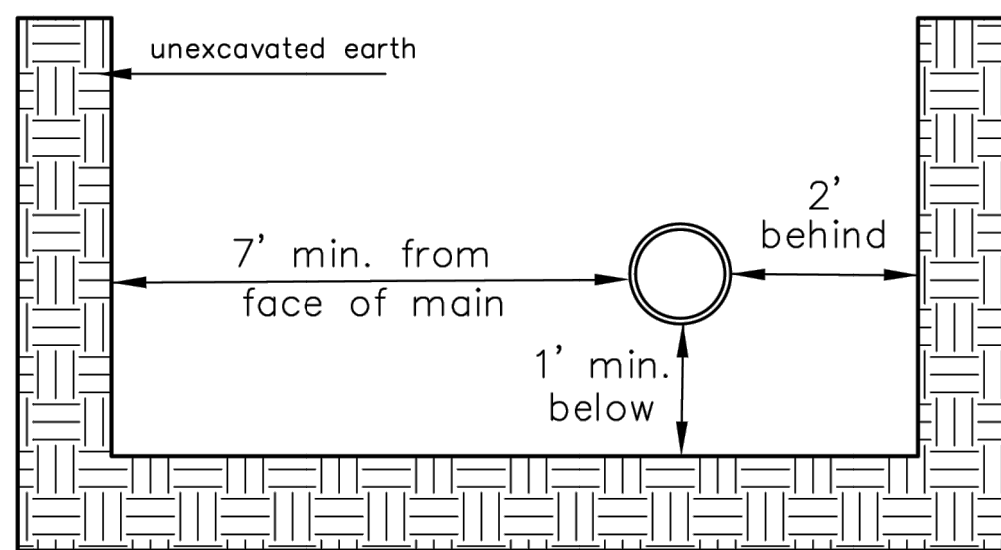
KEY BLOCK DETAIL

* PLANS GOVERN
UNLESS OTHERWISE NOTED ON PLANS



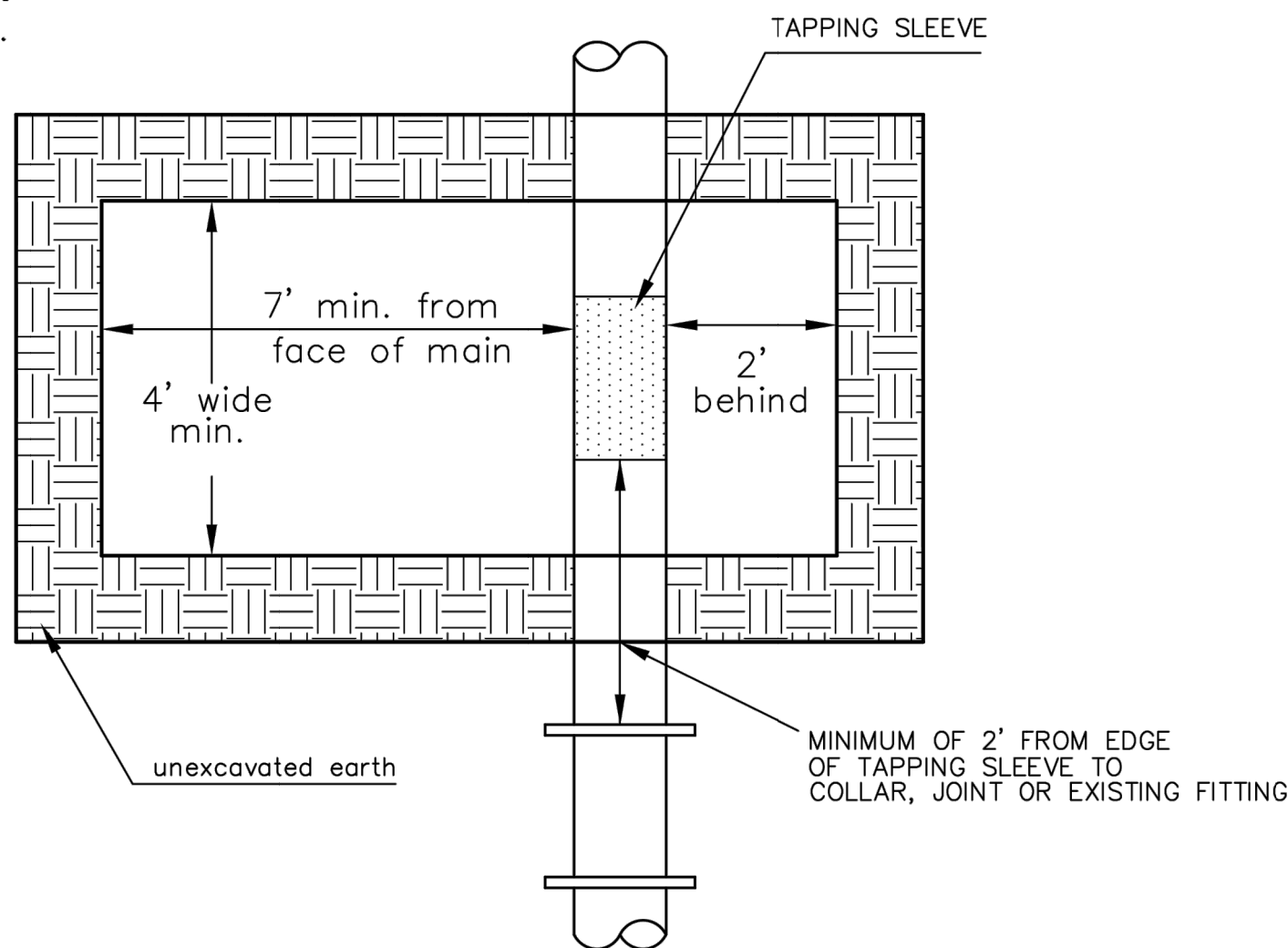
TRENCH COMPACTION IN ROAD RIGHT-OF-WAY

SIDE VIEW

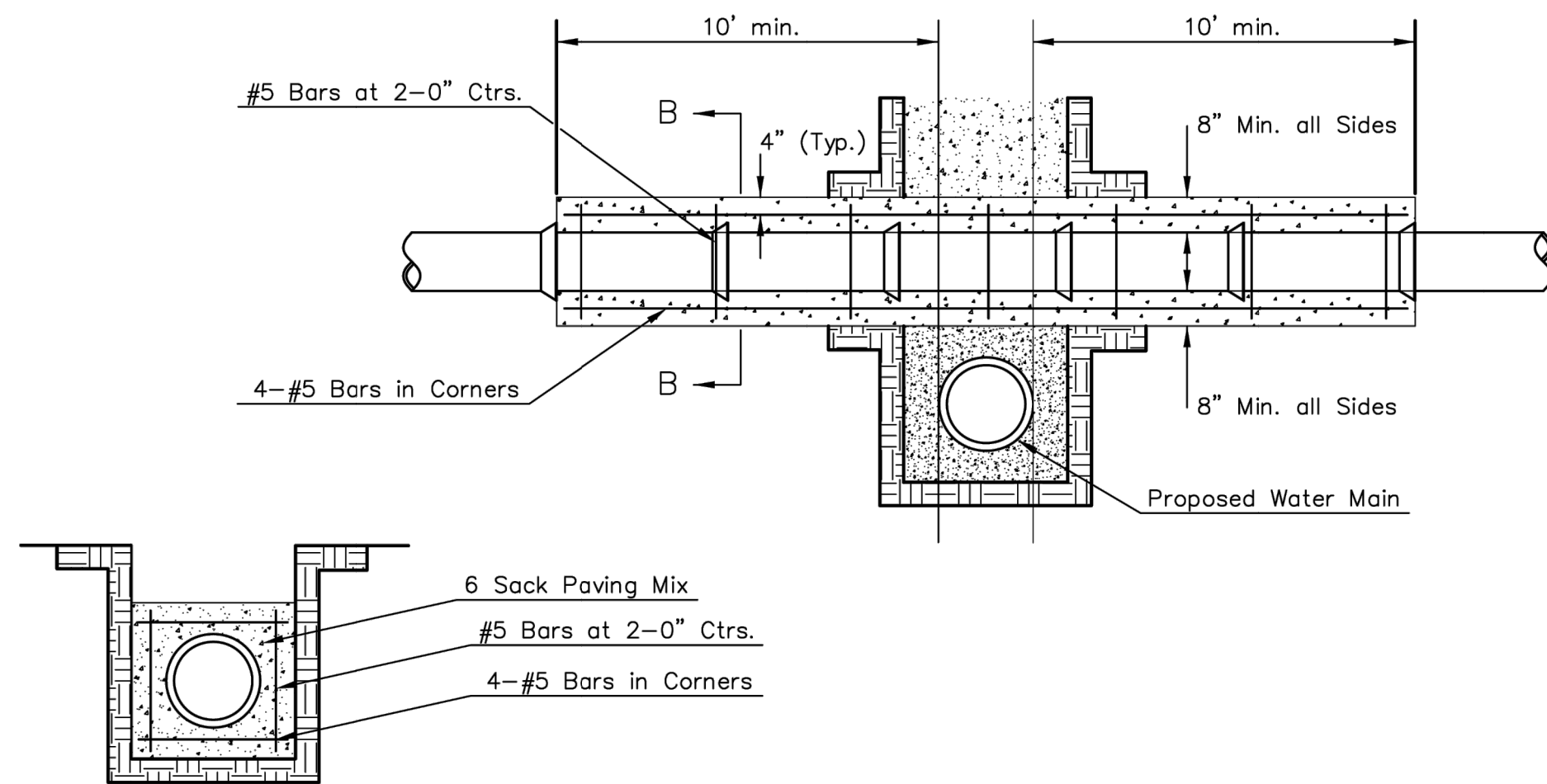


TOP VIEW

Note: When shoring is required it is to be per The City of Wichita Standard Specifications.



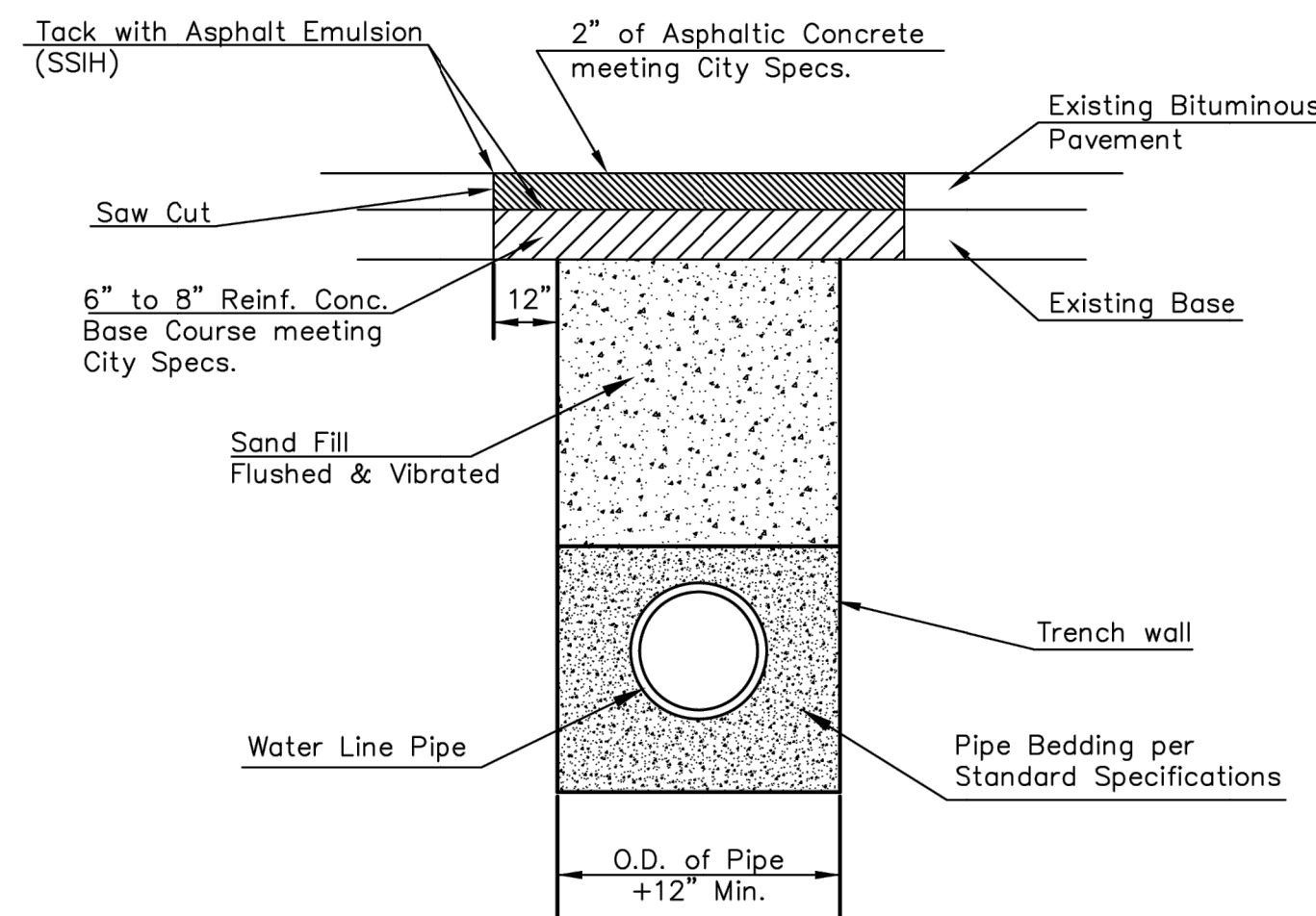
EXCAVATION FOR WET TAP



SECTION B-B

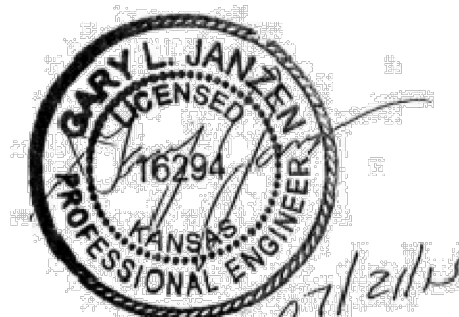
Note: Encasement to begin and end at a Bell on Sanitary Sewer Pipe.

REINFORCED CONCRETE ENCASEMENT
OF SANITARY SEWER

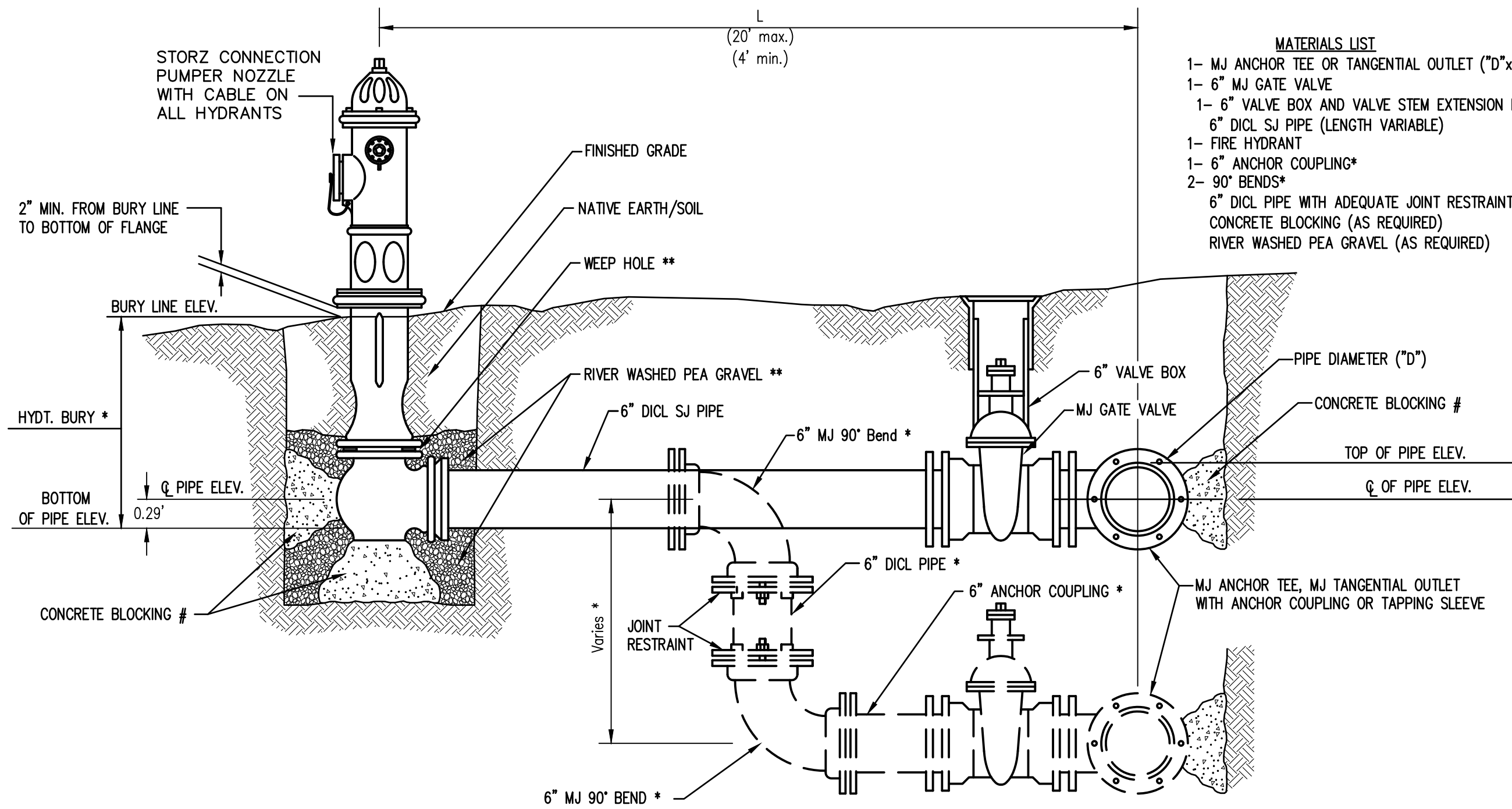


PAVEMENT REPLACEMENT & TRENCH COMPACTION UNDER
EXISTING AND PROPOSED CITY ROADS

REVISED: JULY 2015



MISCELLANEOUS WATER DETAILS		
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 3 19



- MATERIALS LIST**
- 1- MJ ANCHOR TEE OR TANGENTIAL OUTLET ("D"x 6")
 - 1- 6" MJ GATE VALVE
 - 1- 6" VALVE BOX AND VALVE STEM EXTENSION IF REQUIRED *
 - 6" DI CL SJ PIPE (LENGTH VARIABLE)
 - 1- FIRE HYDRANT
 - 1- 6" ANCHOR COUPLING*
 - 2- 90° BENDS*
 - 6" DI CL PIPE WITH ADEQUATE JOINT RESTRAINT *
 - CONCRETE BLOCKING (AS REQUIRED)
 - RIVER WASHED PEA GRAVEL (AS REQUIRED)

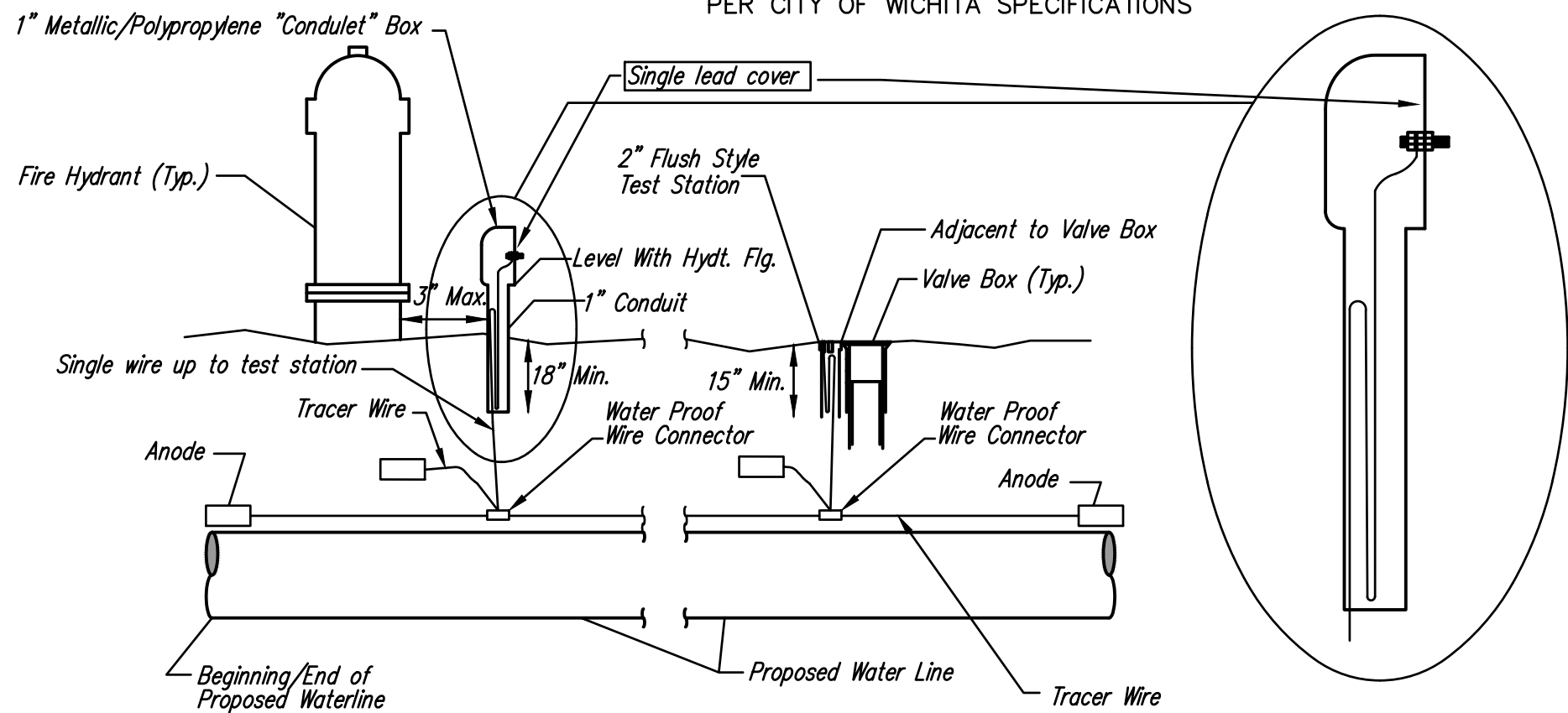
* IF THE REQUIRED HYDRANT BURY IS IN EXCESS OF 5', BUT LESS THAN 7', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY. IF THE REQUIRED HYDRANT BURY IS GREATER THAN 7', CONTRACTOR SHALL USE 5' HYDRANT BURY, 2-MJ 90° BENDS, 6" ANCHOR COUPLING AND 6" DI CL PIPE AS NECESSARY FOR VERTICAL ADJUSTMENT. THE CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING AT HYDRANT AND MEGALUGS, OR SIMILAR RESTRAINT BETWEEN 90° BENDS TO SECURE ALL FITTINGS DURING TESTING AND OPERATION. THE CONTRACTOR SHALL PROVIDE A VALVE STEM EXTENSION PER DETAIL THIS SHEET.

** CAUTION: WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES. PLACE 1 CUBIC FOOT OF RIVER WASHED PEA GRAVEL AROUND EACH WEEP HOLE.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

FIRE HYDRANT ASSEMBLY

PER CITY OF WICHITA SPECIFICATIONS



TRACER WIRE

Conductive type pipe locator/tracer wire shall be install to locate all waterline pipe regardless of pipe material. The wire shall extend the entire length of the proposed pipe. The wire shall be taped to the waterline and pulled with the pipe. A waterproof connector shall be used at splice locations. A complete list of approved tracer wire and waterproof connectors can be found on the City of Wichita's website at www.wichita.gov.

WIRE

The tracer wire shall be Blue No. 12 AWG CCS with 45 mil HDPE insulation. To allow for grade adjustment, a minimum of 12" of excess wire shall be coiled at the bottom of the test station for all wires. Wire connectors shall be installed per manufacturer recommendations. Contractor shall attach wire being installed with proposed water main to any tracer wire installed with adjacent waterline projects.

TEST STATIONS

The test station for fire hydrant application shall be a 1" "conduit" style station as manufactured by AGRA Industries with a removable solid cover having a single lead extending from the face or approved equal. The "conduit" style test station shall be attached to a 1" rigid galvanized conduit with a minimum length of 36" and plastic end bushing. The flush style shall have the word "WATER" stamped or molded into the lid. The test station for valve applications shall be a 2" flush style test station with wire connector on lid. Model # T2PH7B1LP Handley Industries or CD14*TP SnakePit as manufactured by Copperhead Industries or approved equal. The flush style shall have the word "WATER" stamped or molded into the lid. All test stations shall be manufactured using molded blue tops or sufficiently coated with blue enamel paint. The tracer wire and the anode wire shall be install to allow 12" of wire within the test station. The location of all test stations shall be recorded, and shown in the as-built drawings. Flush style test stations shall not be installed in pavement or sidewalk unless approved by the Engineer. Contractor shall extend tracer wire & move flush mount test station to nearest location out of pavement or sidewalk.

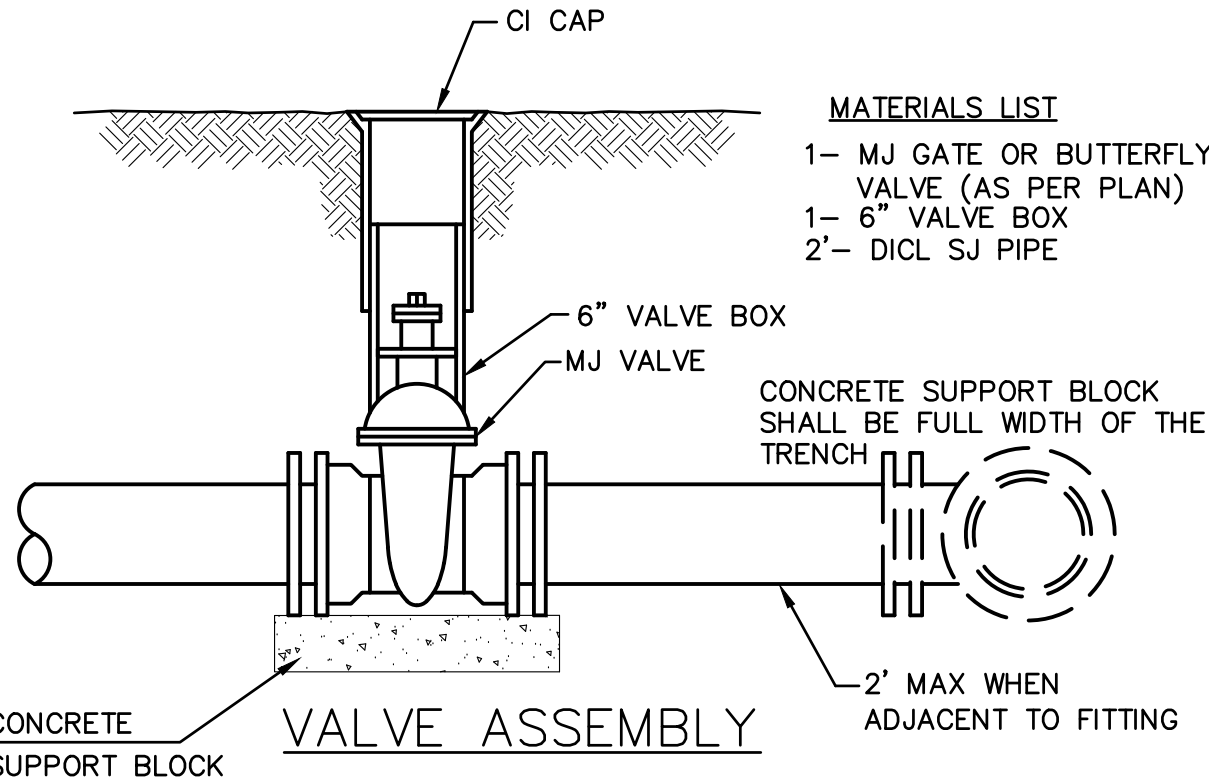
ANODES

The anodes shall be 3 lb. bare zinc or magnesium. The anodes shall be buried at the same elevation as the waterline at each test station. The anodes shall be connected to 12 AWG CCS which shall be extended to the test station.

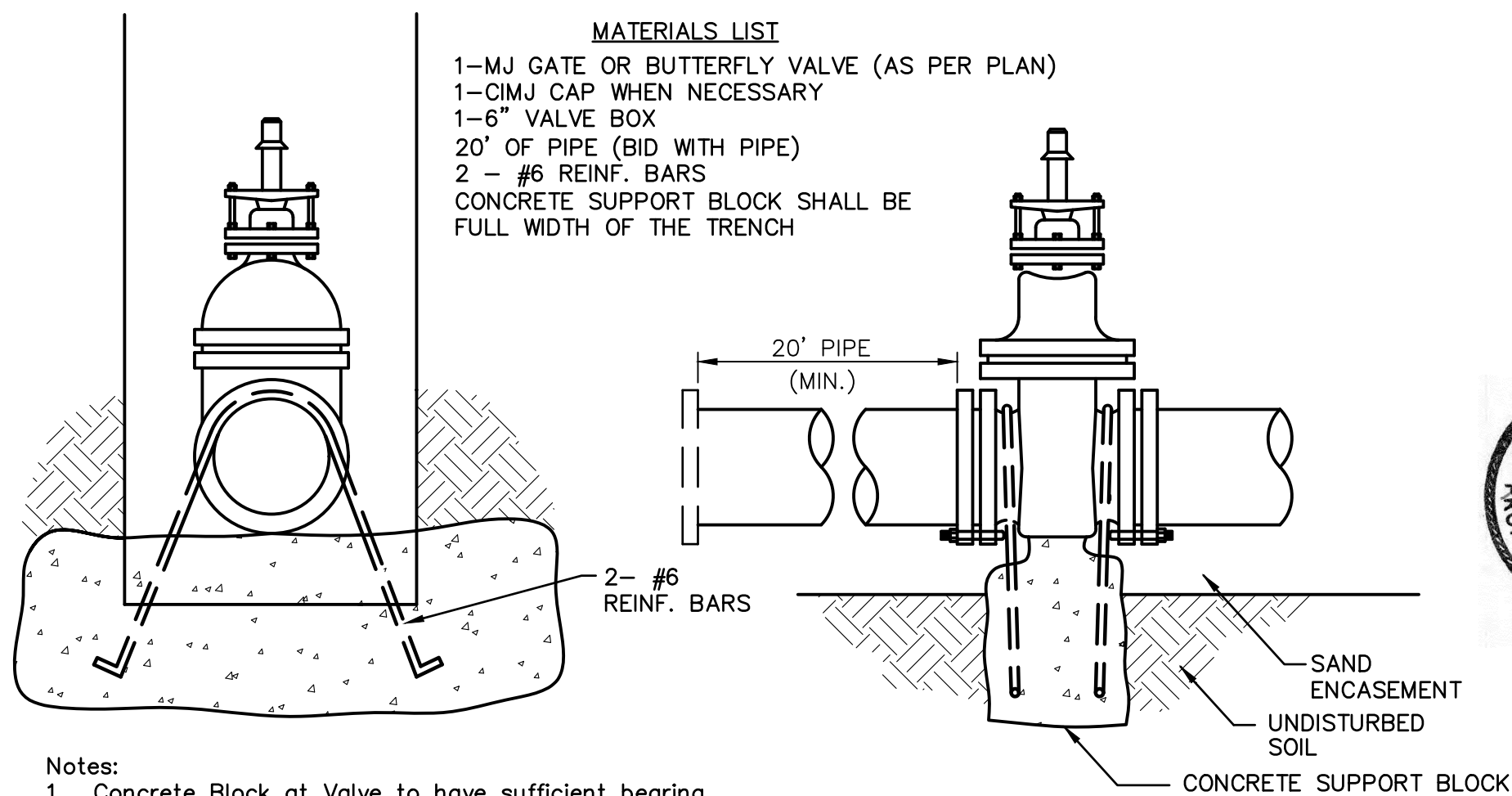
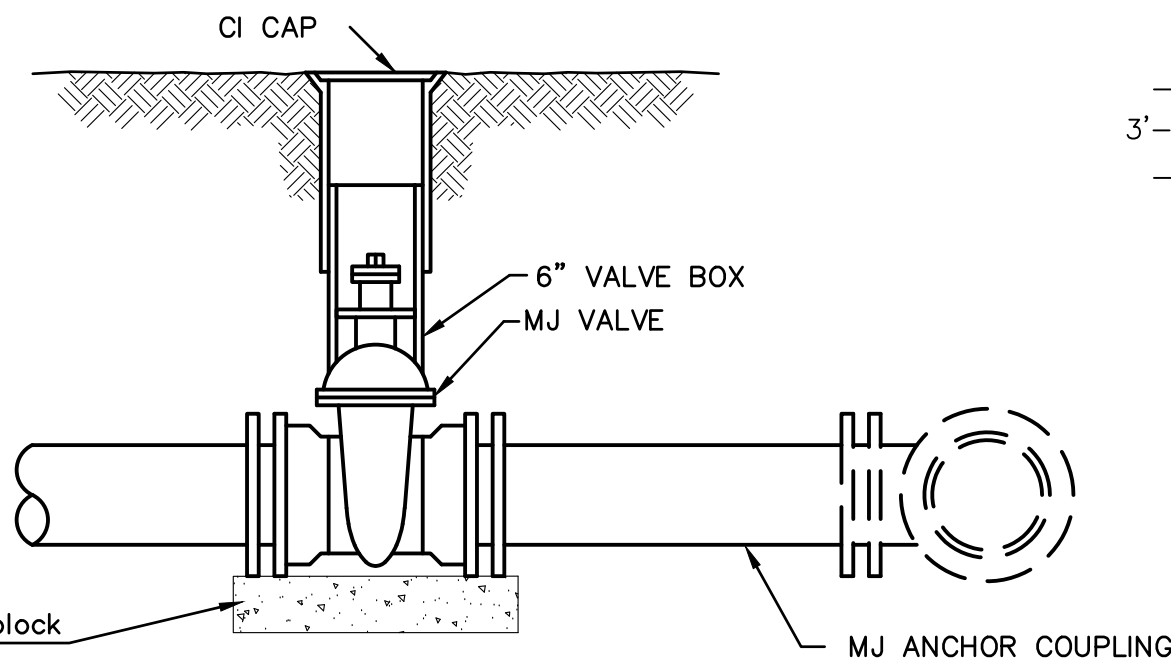
TRACER WIRE DETAIL

COST IS SUBSIDIARY TO PIPE INSTALLATION

FIRE HYDRANTS REQUIRED					
WATER LINE	STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED	VALVE STEM EXT. REQUIRED (FT.)*
1	2+01.08	1316.48	1312.65	4.5	
1	8+23.49	1316.96	1313.13	4.5	
5	2+53.93	1336.04	1332.21	4.5	



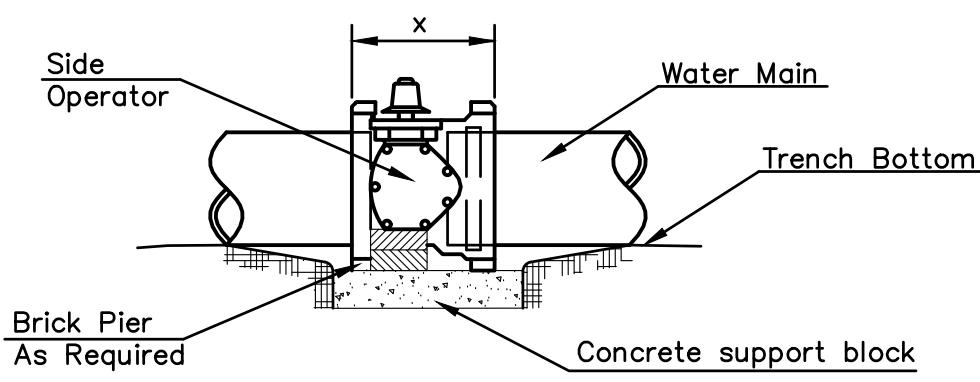
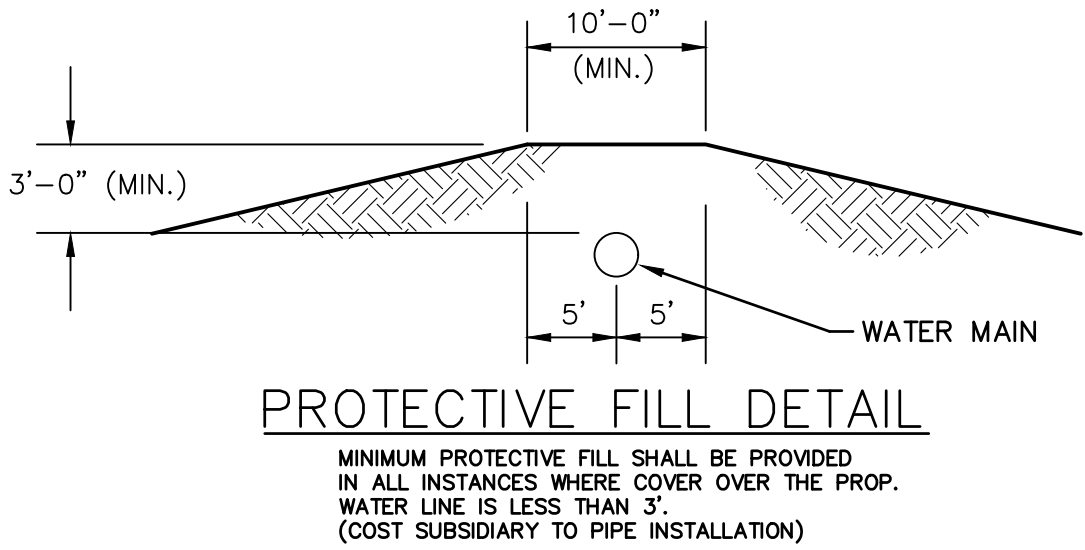
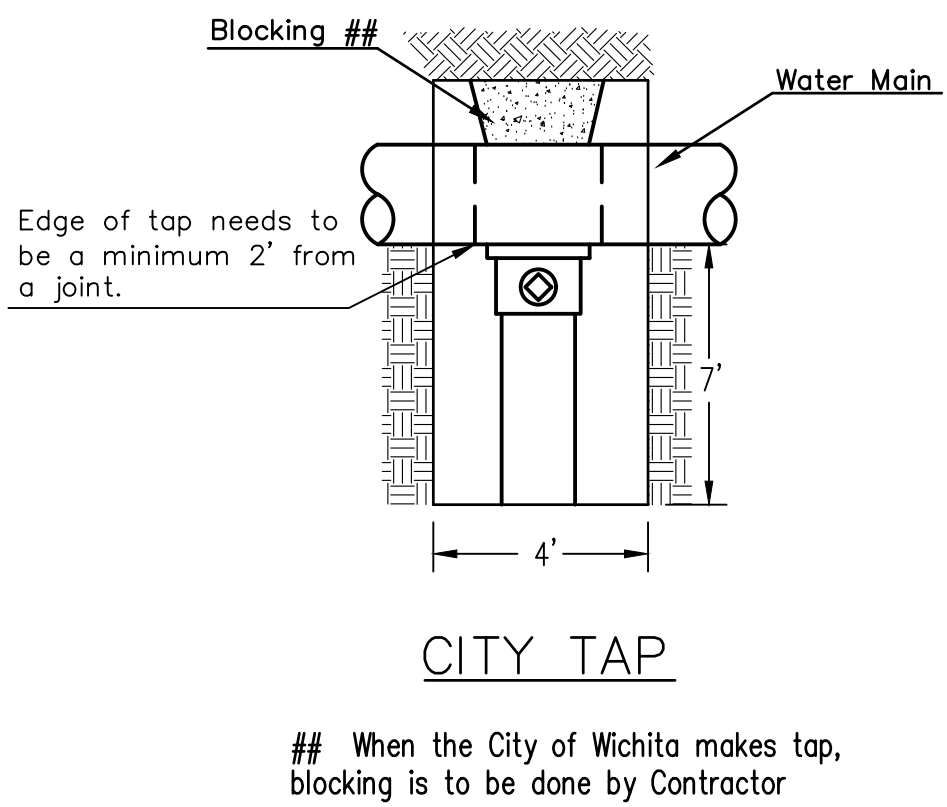
- MATERIALS LIST**
- 1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
 - 1-MJ ANCHOR COUPLING (12" OR SMALLER)
 - 1-6" VALVE BOX
 - CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



Notes:

- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
- The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
- All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

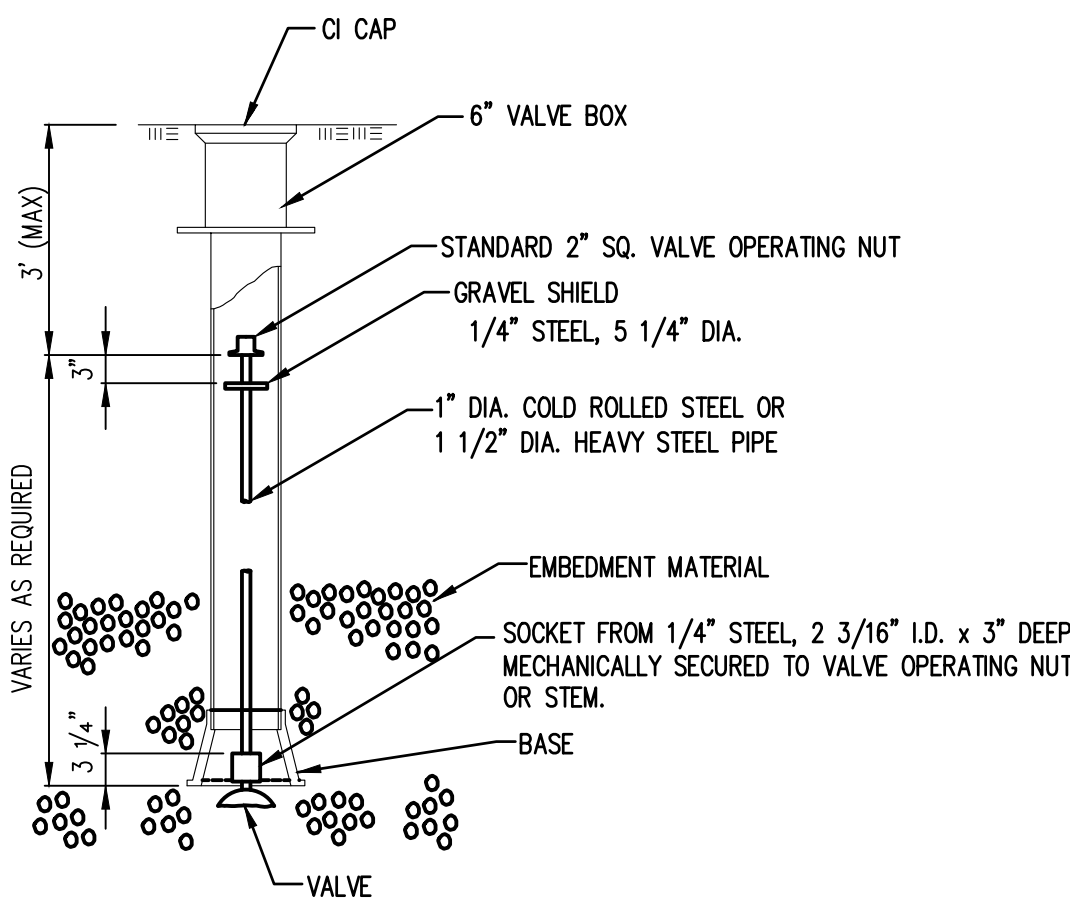
ANCHORED VALVE ASSEMBLY, SPECIAL



NOTES

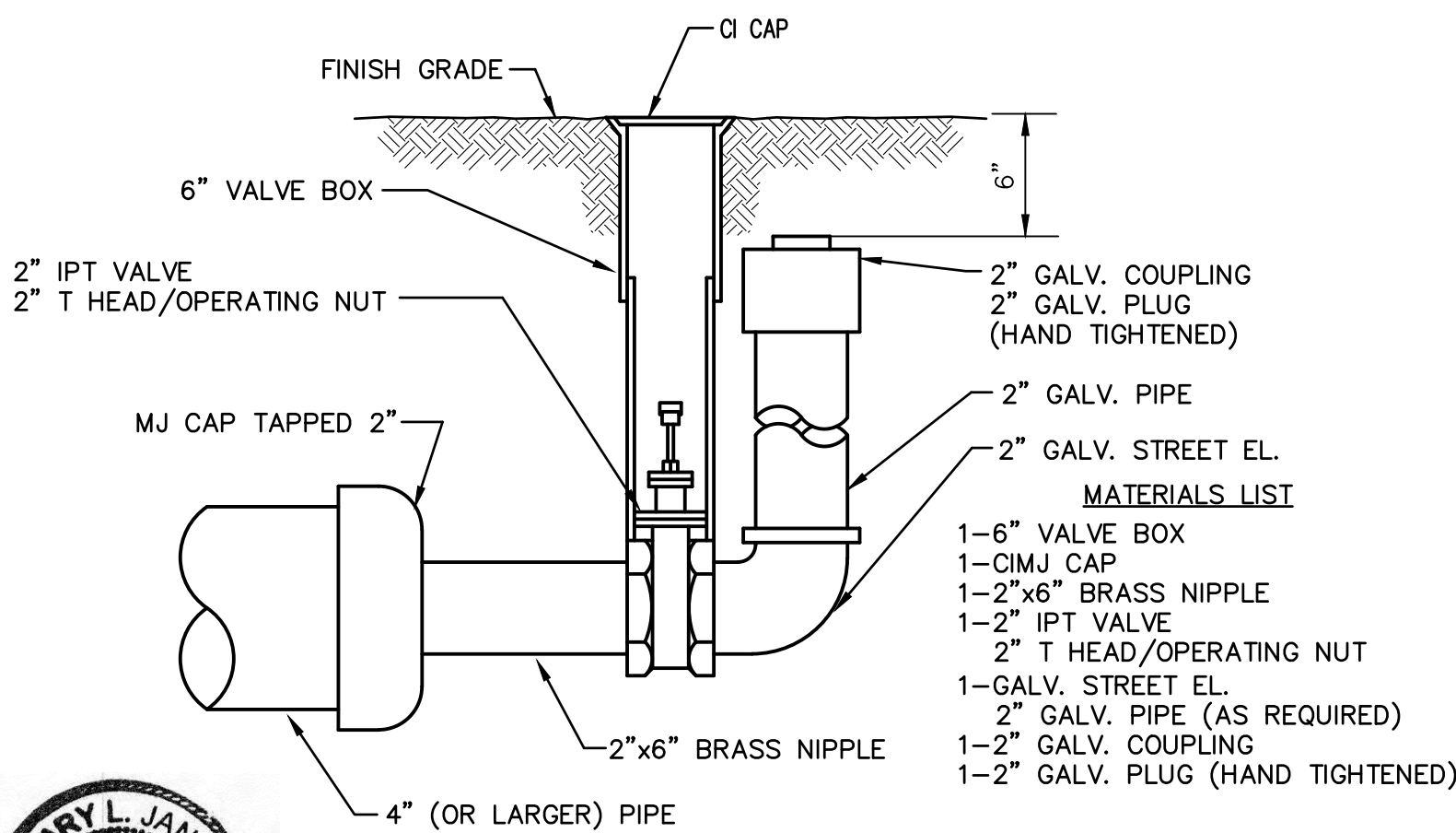
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. 24" and larger lines to be detailed on plans.
- 6" Valve Box and Cover required per City of Wichita Std. Specifications.
- Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



VALVE STEM EXTENSION DETAIL

NOTE: ONE VALVE STEM EXTENSION FOR EACH VALVE BURIED GREATER THAN 5'.



2" BLOWOFF ASSEMBLY



STANDARD WATER ASSEMBLY DETAIL

CITY ENGINEER

GARY JANZEN, P.E.

PROJECT NUMBER
448-2023-038924

OCA NUMBER
.

DATE

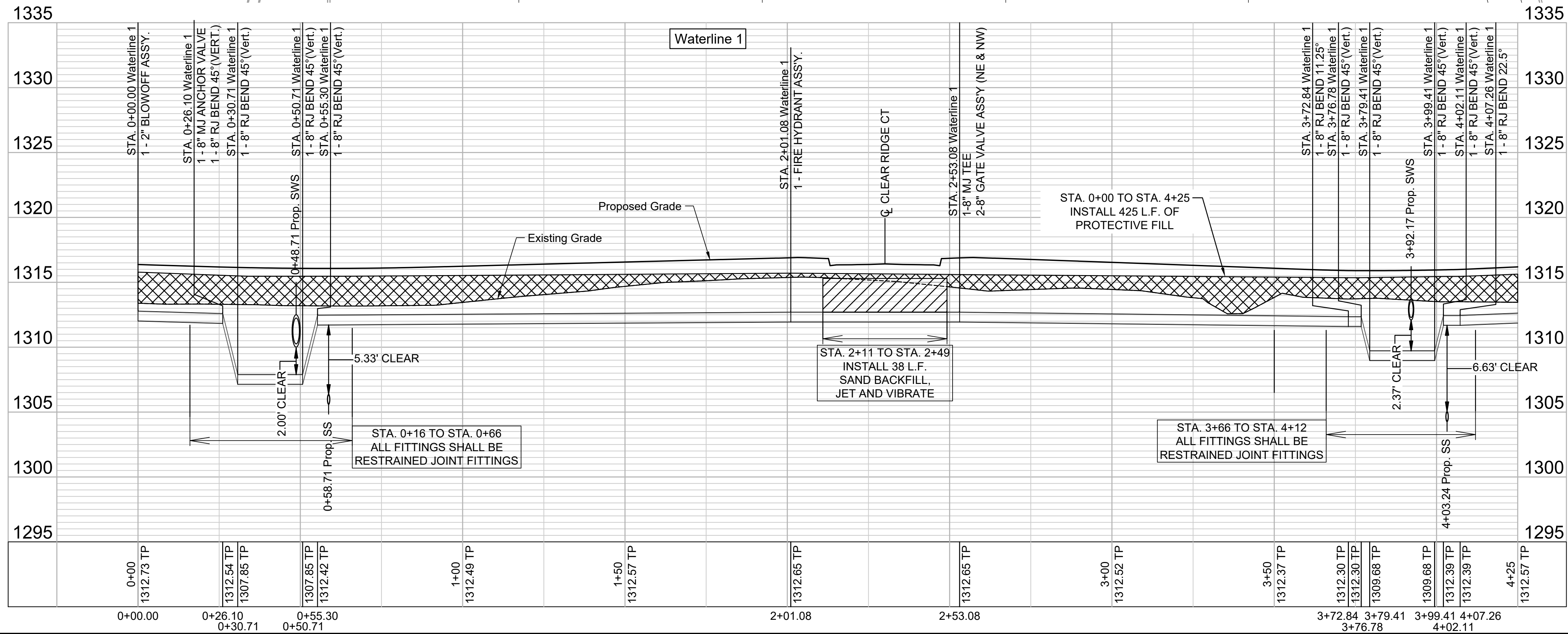
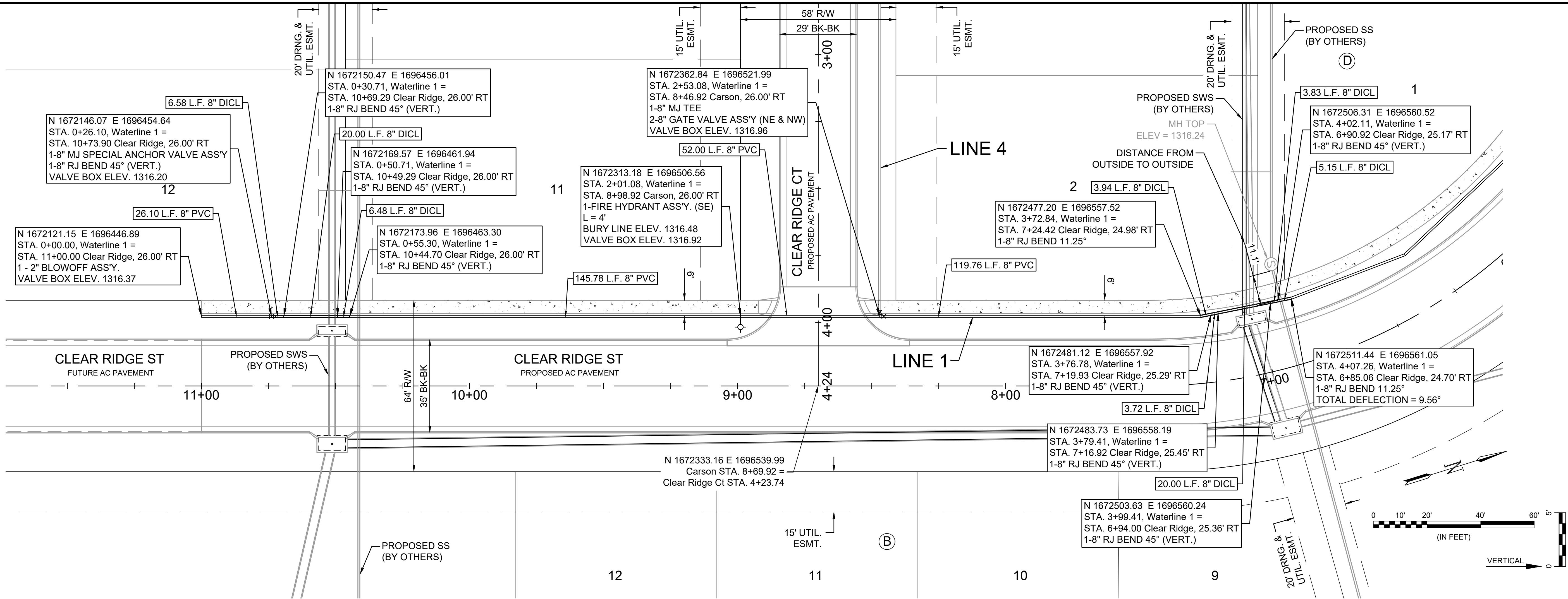
CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202-1620
(316) 268-4501

SHEET

4

19

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Wichita, KS 67209
(316) 264-8008

BY:				
DESCRIPTION:				
DATE:				
REV:				

CITY OF WICHITA
WICHITA, KANSAS

CLEAR RIDGE 2ND ADDITION - PHASE 1 WATER

Waterline 1
(1 of 4)

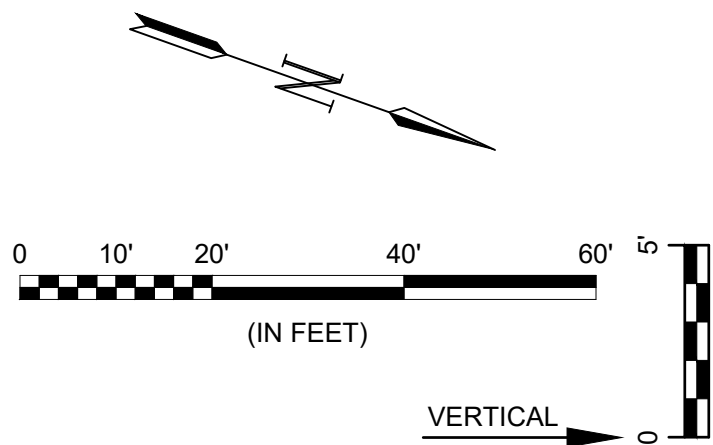
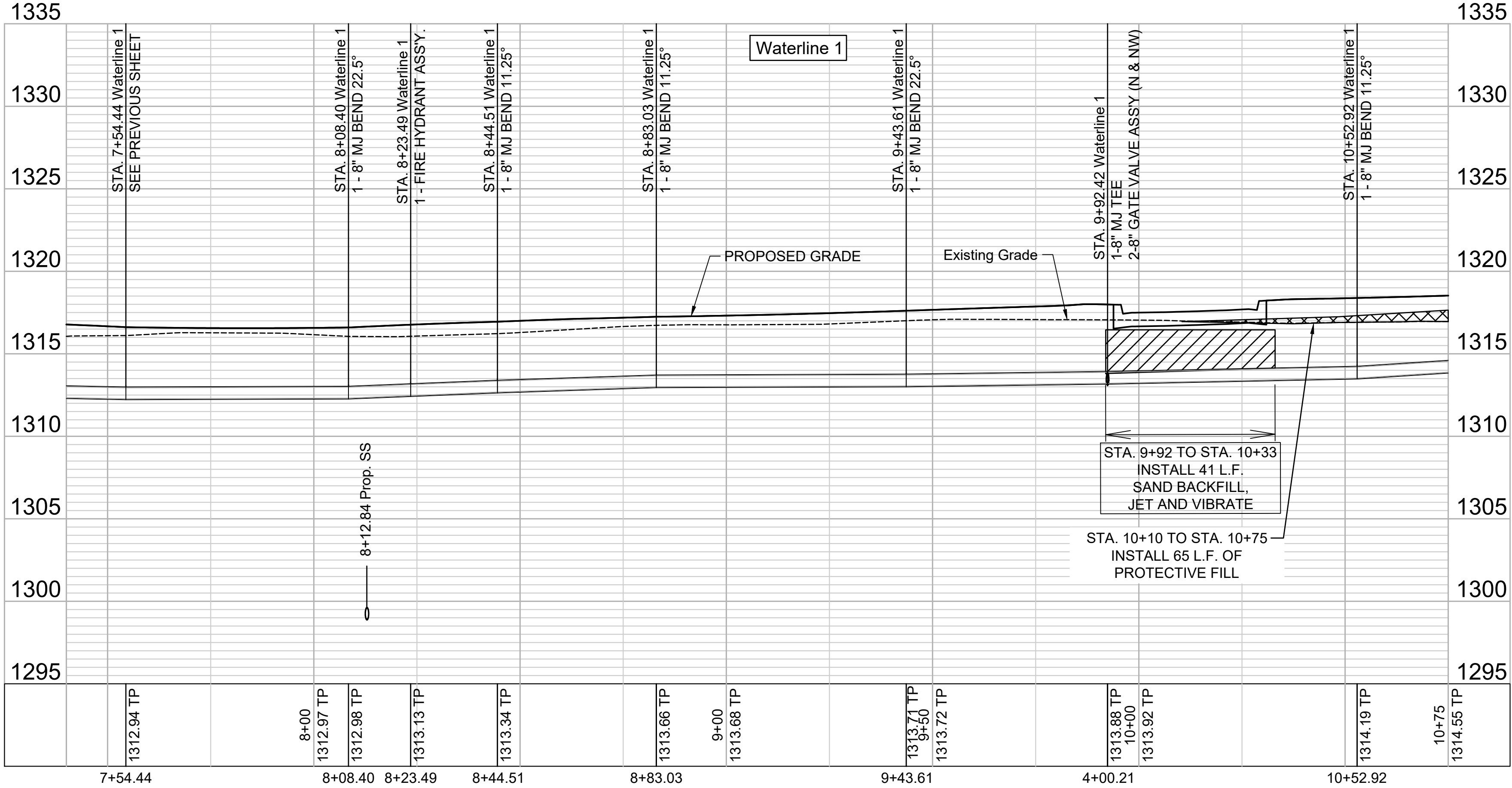
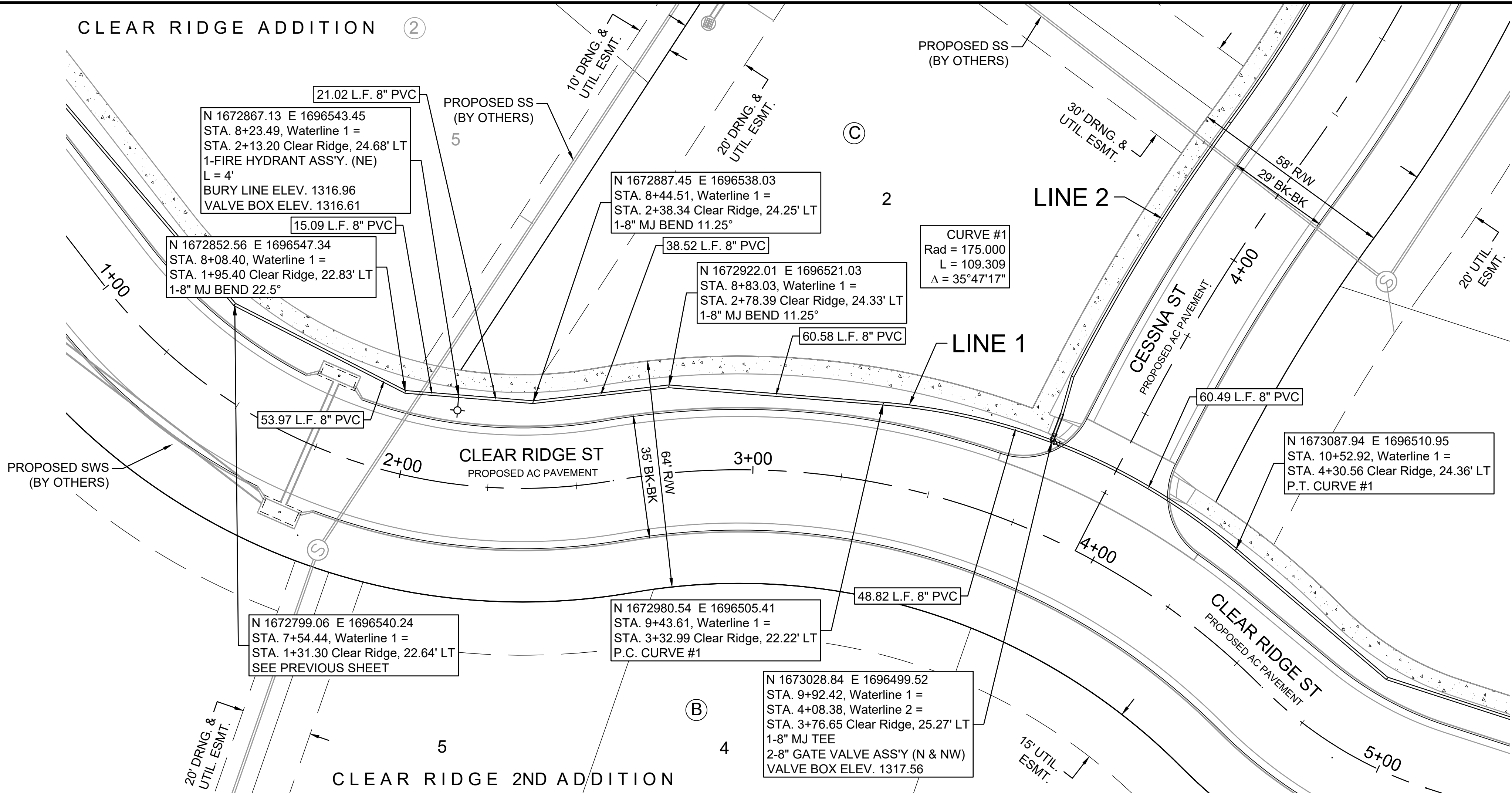
JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: .
DRAWN BY: .

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

SHEET NUMBER **5** OF **20**

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Last plotted by: Standrich, Daryl R Plot Style: --- Plot Scale: 1:2,584.9 Plot Date: 7/7/2026 11:08 AM Plotted using: None





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Wichita, KS 67209
(316) 264-8008



REV.	DATE	DESCRIPTION	BY



CITY OF WICHITA
WICHITA, KANSAS

CLEAR RIDGE 2ND ADDITION - PHASE 1
WATER

Waterline 1
(3 of 4)

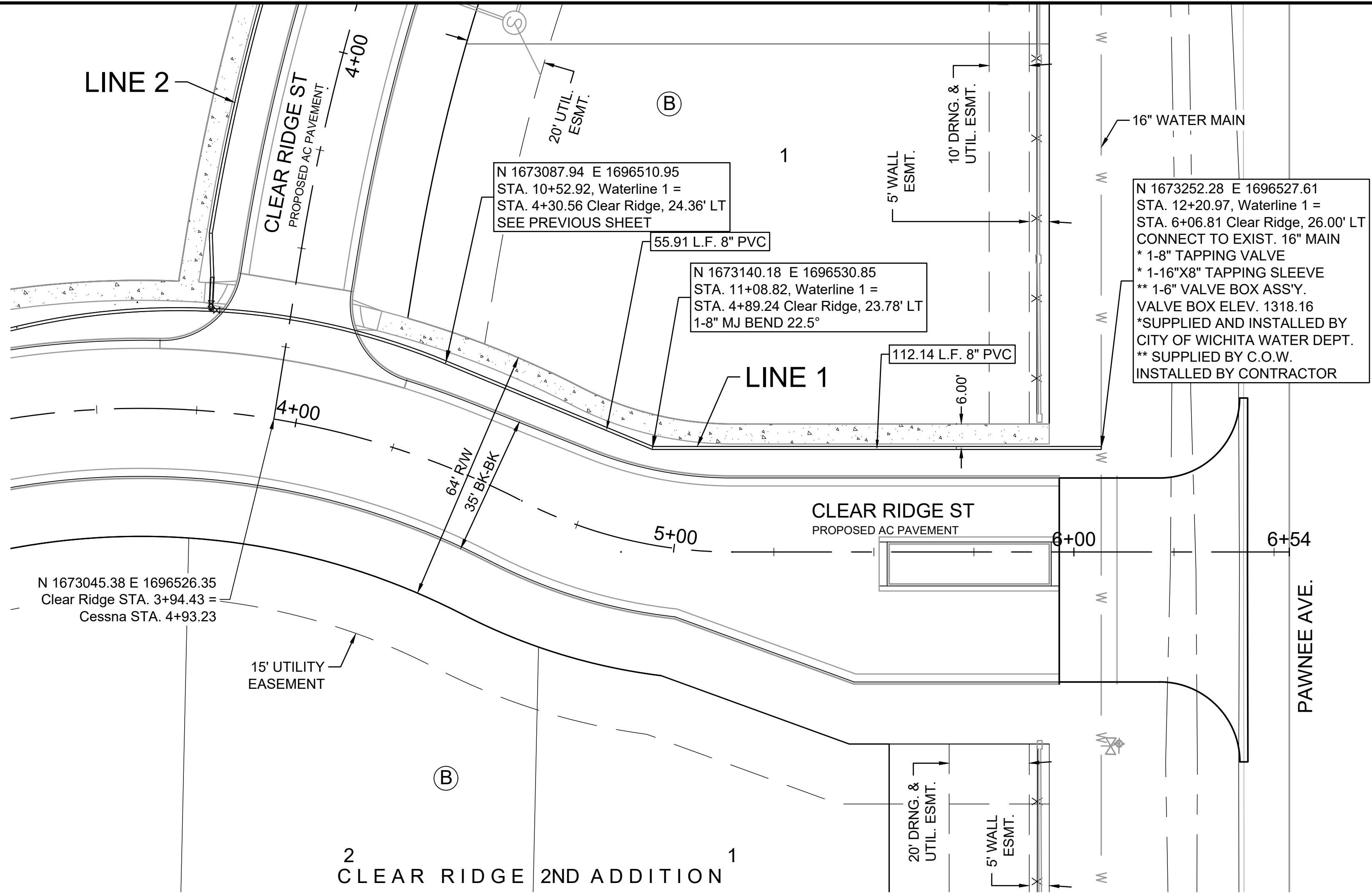
JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: .
DRAWN BY: .

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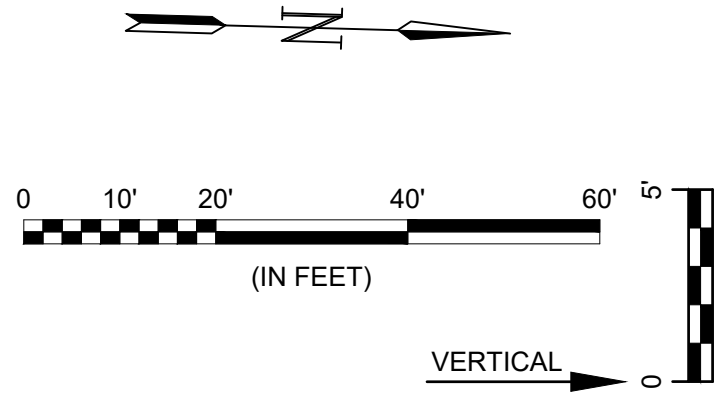
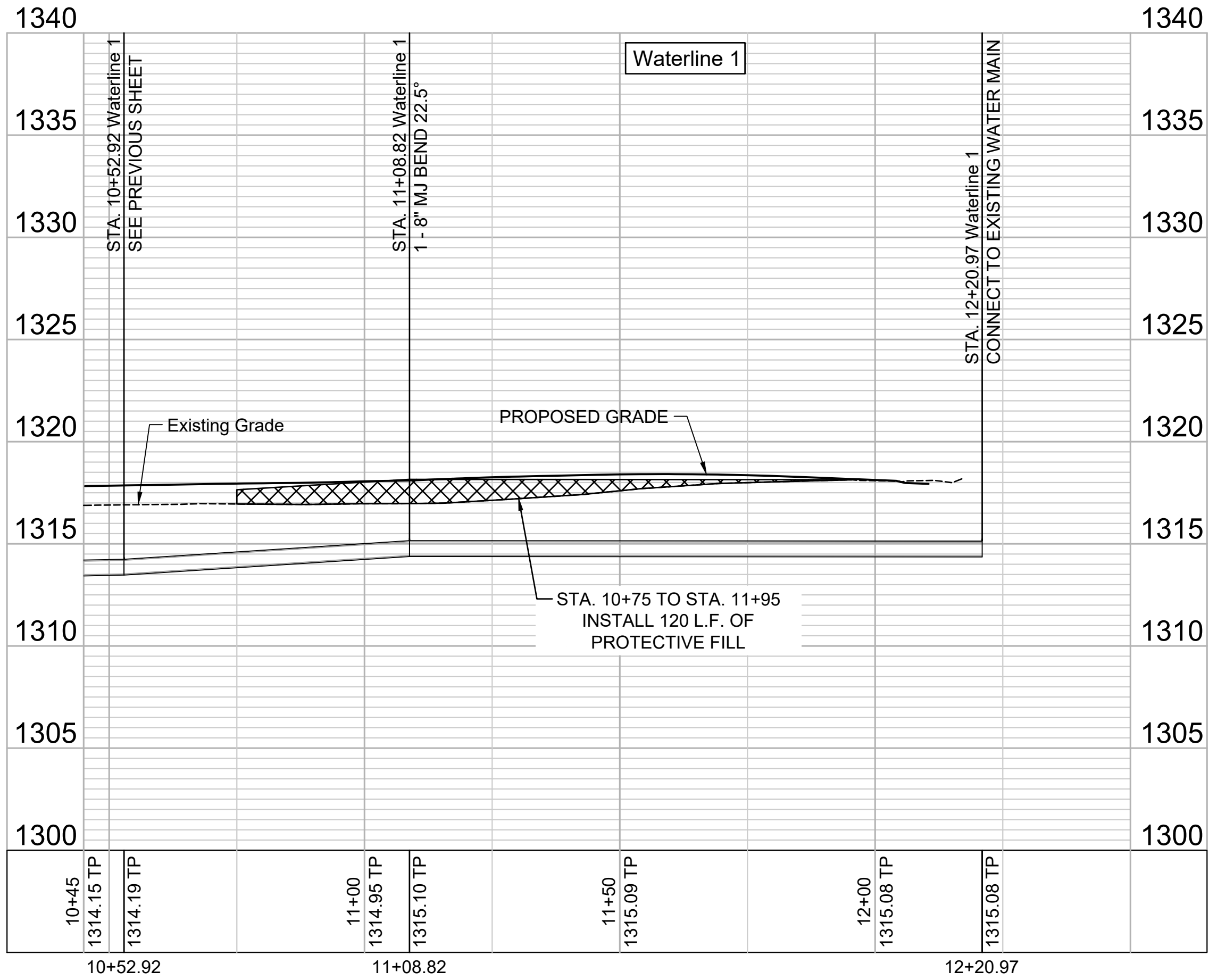
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SHEET NUMBER 7 OF 20

File: L:\2023\141-2301492 - Clear Ridge Addition Phase 3\Drawings\Waterline\Waterline 1 (4 of 4).dwg Last Save: 6/18/2026 12:31 PM Last saved by: DRStandrich
Last plotted by: Standrich, Darryl R Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 7/7/2026 11:09 AM Plotted using: None



2
CLEAR RIDGE 2ND ADDITION 1



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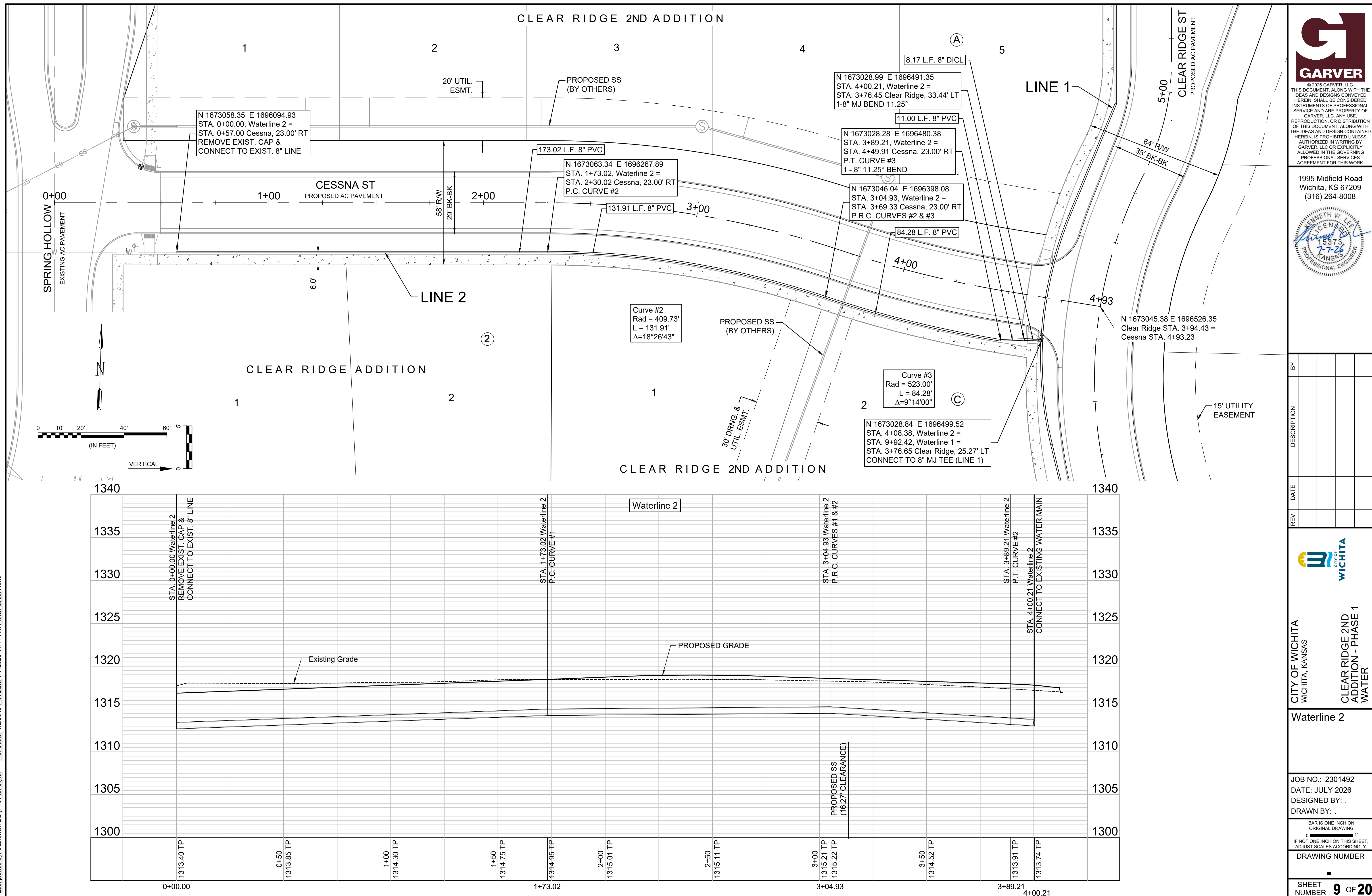
Waterline 1
(4 of 4)

JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: .
DRAWN BY: .

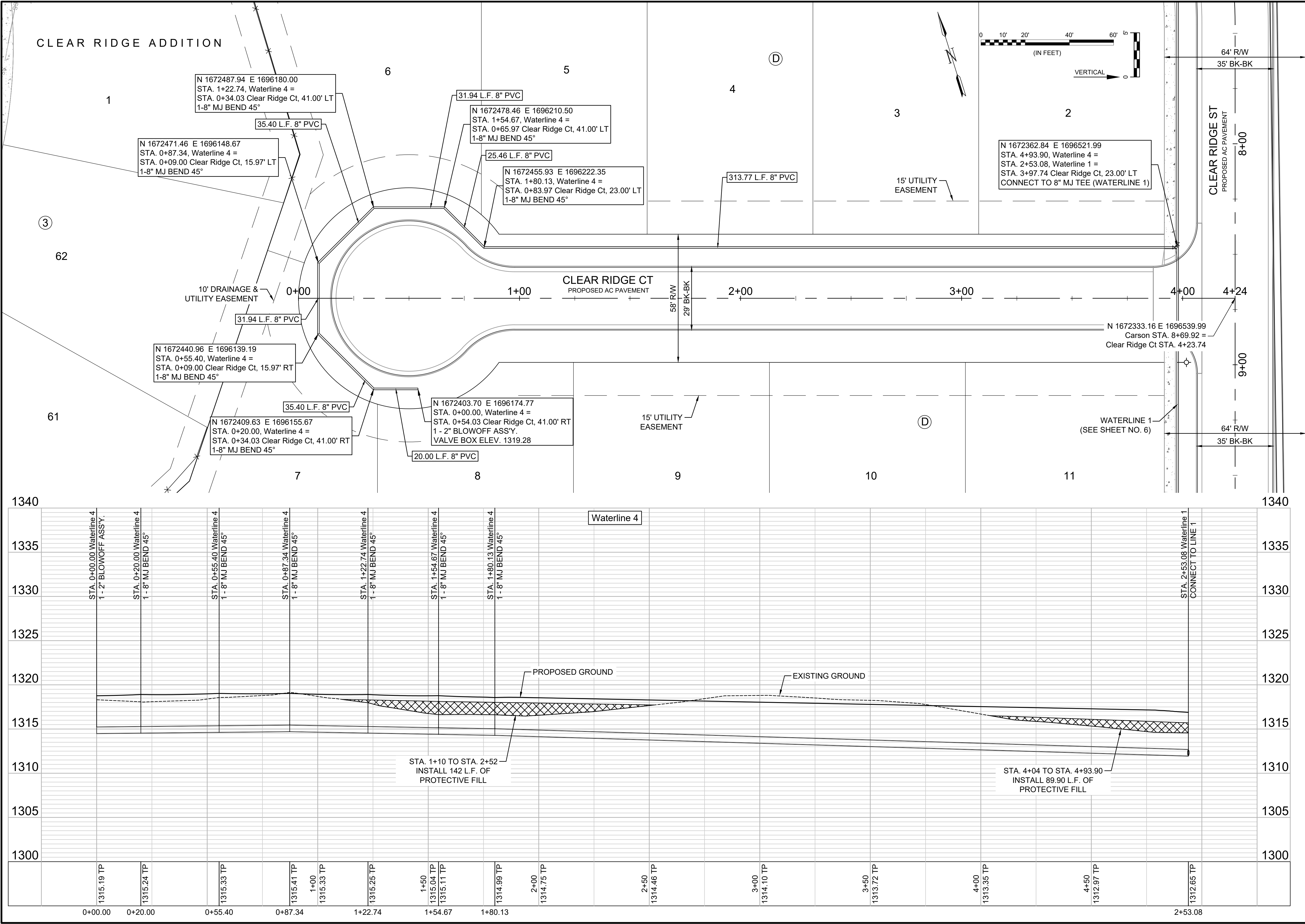
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DRAWING NUMBER

SHEET
NUMBER 8 OF 20



File: L:\2023\141-2301492 - Clear Ridge Addition Phase 3\Drawings\Waterline\Waterline 4.dwg Last Save: 6/24/2026 2:22 PM Last saved by: DRStandrich
Last plotted by: Standrich, Daryl R Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 7/7/2026 11:14 AM Plotter used: None



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CLEAR RIDGE 2ND ADDITION - PHASE 1 WATER

Waterline 4

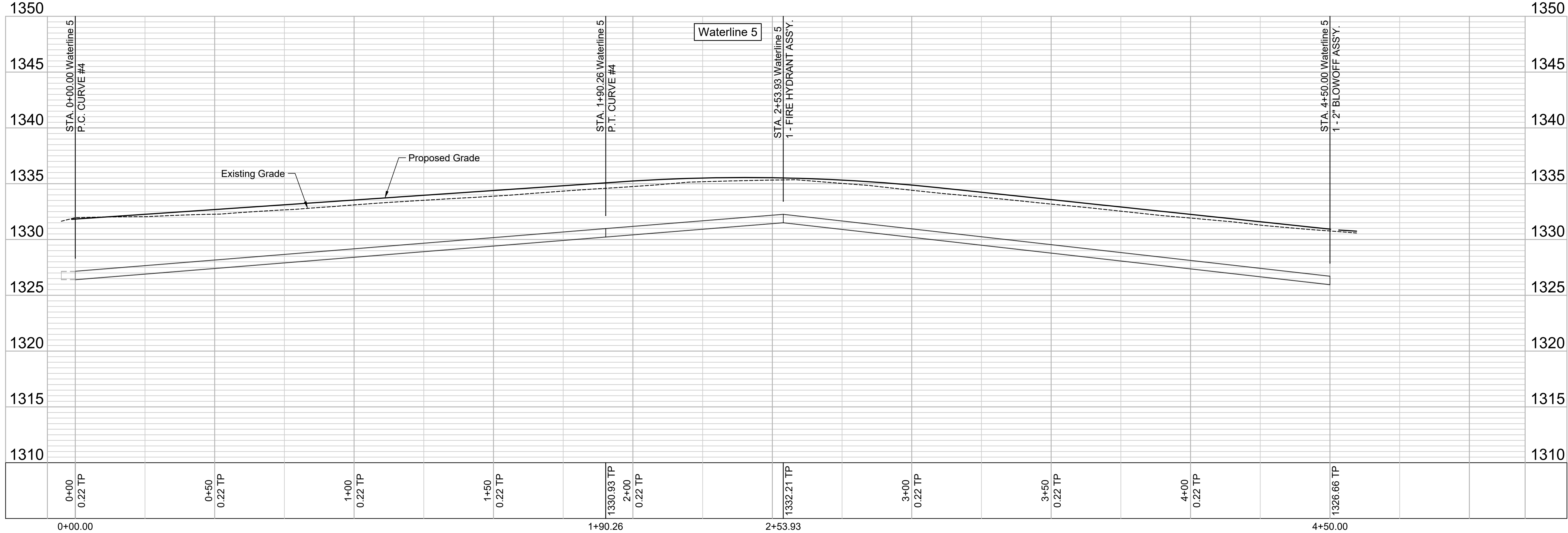
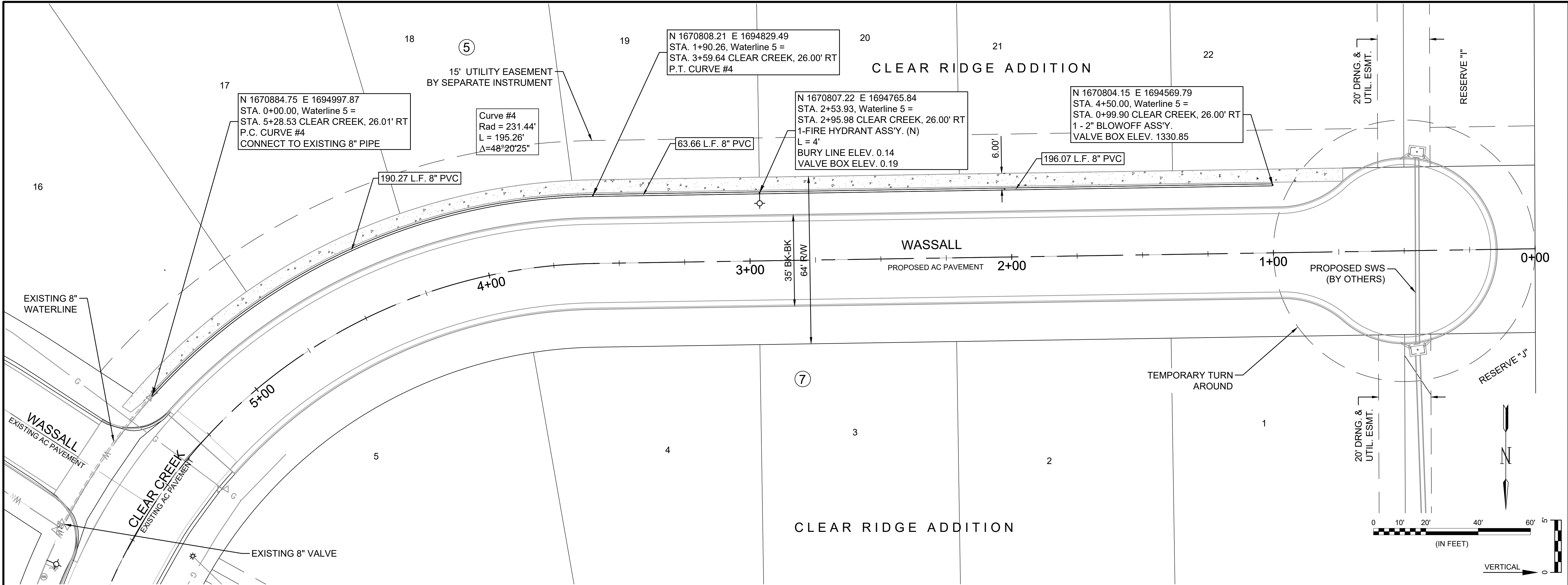
JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: .
DRAWN BY: .

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DRAWING NUMBER .

SHEET NUMBER **11** OF **20**

File: L:\2023\141-2301492 - Clear Ridge Addition Phase 3\Drawings\Waterline\Waterline 5.dwg Last Save: 6/18/2026 3:48 PM Last saved by: DRStandrich
Last plotted by: Standrich, Daryl R Plot Style: --- Plot Scale: 1:2.5849 Plot Date: 7/7/2026 11:23 AM Plotter used: None





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CITY OF WICHITA
WICHITA, KANSAS

CLEAR RIDGE 2ND ADDITION - PHASE 1 WATER

Waterline 5

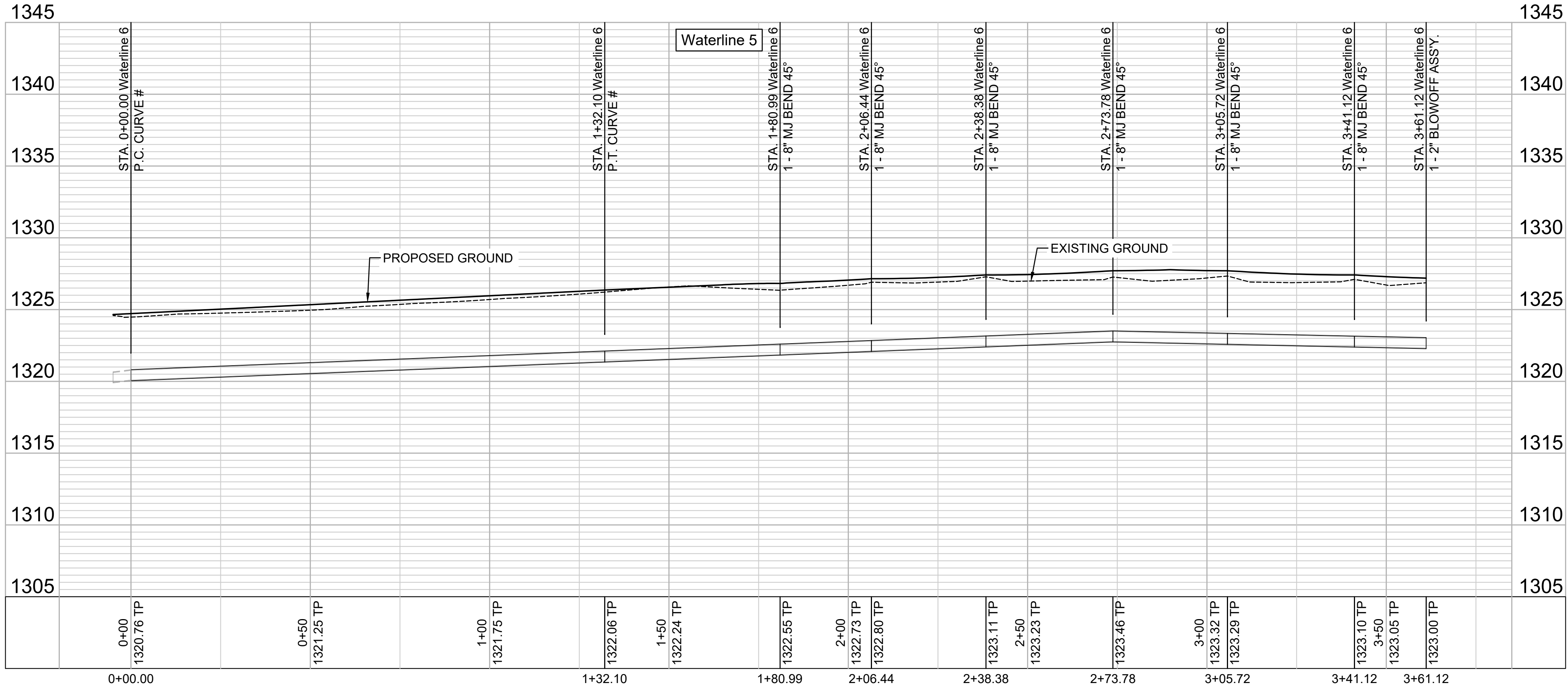
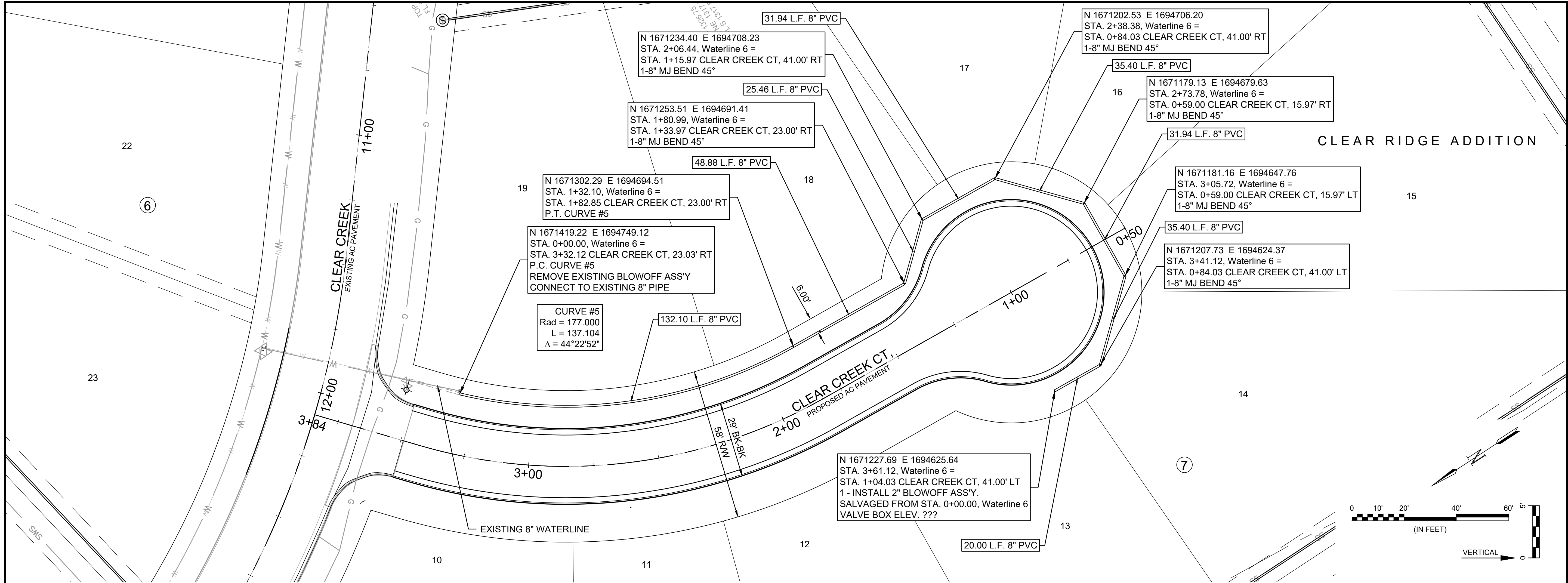
JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

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SHEET NUMBER **12** OF **20**

File: L:\2023\141-2301492 - Clear Ridge Addition Phase 3\Drawings\Waterline\Waterline 6.dwg Last Save: 7/7/2026 10:35 AM Last saved by: DRStandrich
Last plotted by: Standrich, Daryl R Plot Style: --- Plot Scale: 1:2.5849 Plot Date: 7/7/2026 11:25 AM Plotter used: None



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CLEAR RIDGE 2ND ADDITION - PHASE 1 WATER

Waterline 6

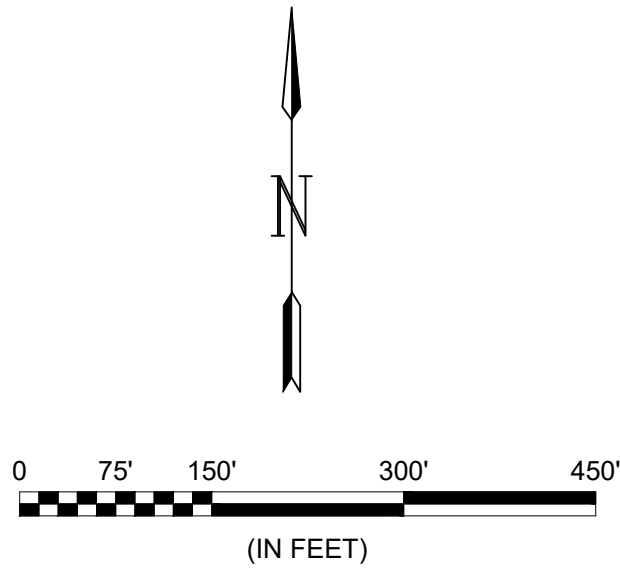
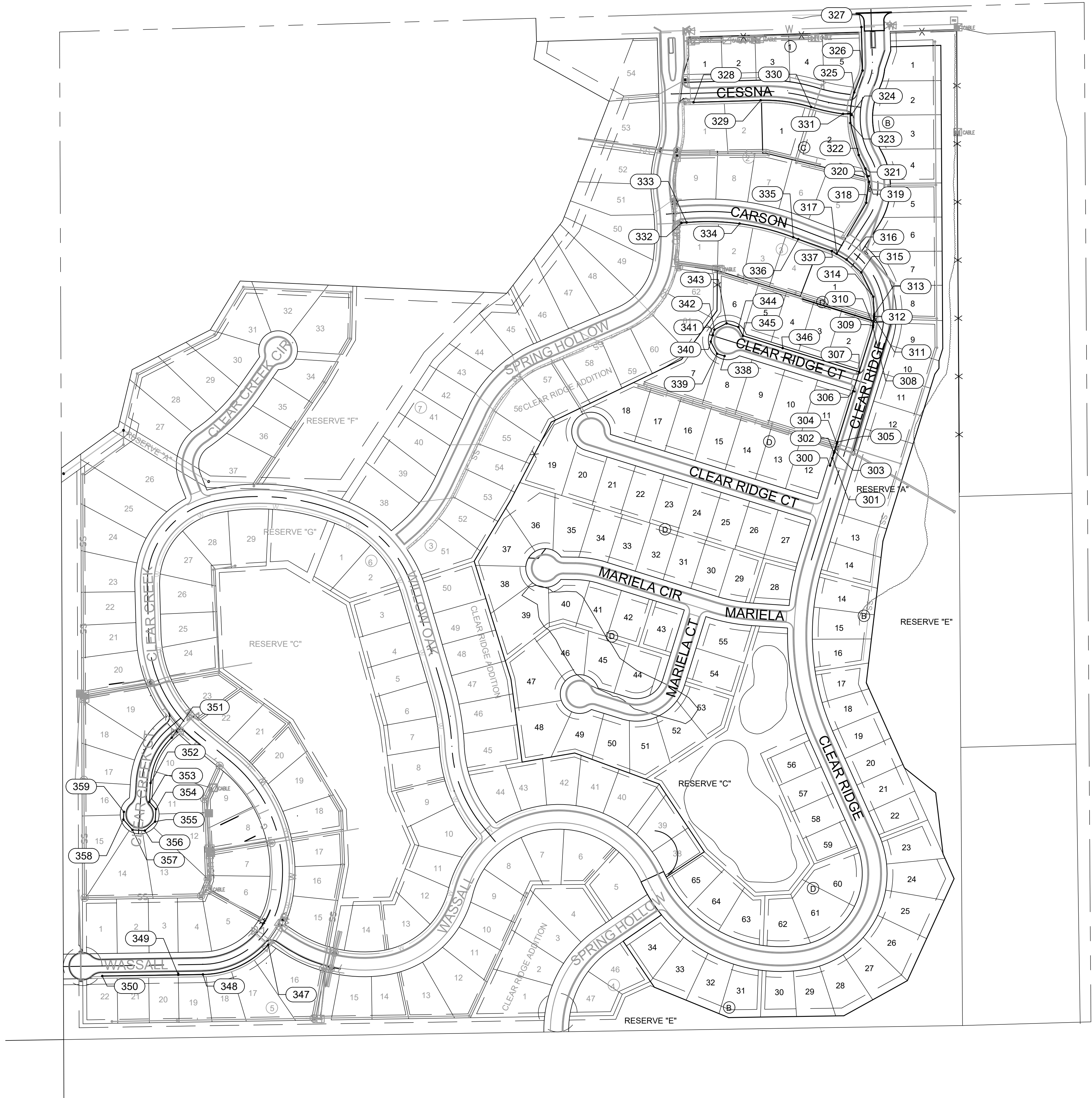
JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

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SHEET NUMBER **13** OF **20**

File: L:\2023\141-2301492 - Clear Ridge Addition Phase 3\Drawings\ Waterline\Coordinate Map-WL.dwg, Last Save: 7/7/2026 10:37 AM Last saved by: DRStandrich
Last plotted by: Standrich, Daryl R, Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 7/7/2026 11:26 AM Plotter used: None





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CITY OF WICHITA
WICHITA, KANSAS

CLEAR RIDGE 2ND
ADDITION - PHASE 1
WATER

Coordinate Map
WL (1 of 2)

JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

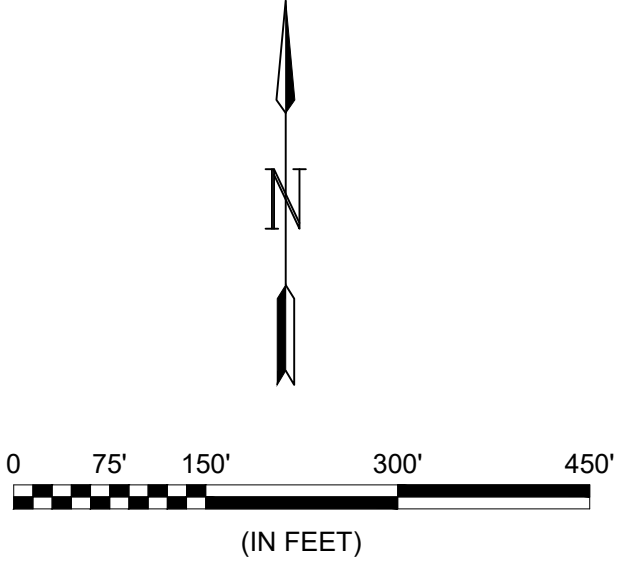
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Point Table				
Point #	Elevation	Northing	Easting	Description
300	0.00	1672121.15	1696446.89	2" Blowoff Ass'y
301	0.00	1672140.25	1696452.83	8" Anchor Valve
302	0.00	1672153.62	1696456.98	45 Deg Bnd (Vert.)
303	0.00	1672158.12	1696458.38	45 Deg Bnd (Vert.)
304	0.00	1672177.22	1696464.31	45 Deg Bnd (Vert.)
305	0.00	1672181.58	1696465.67	45 Deg Bnd (Vert.)
306	0.00	1672313.18	1696506.56	FH Ass'y
307	0.00	1672362.84	1696521.99	8" MJ Tee
308	0.00	1672477.20	1696557.52	11.25 Deg Bnd
309	0.00	1672481.12	1696557.92	45 Deg Bnd (Vert.)
310	0.00	1672483.73	1696558.19	45 Deg Bnd (Vert.)
311	0.00	1672503.63	1696560.24	45 Deg Bnd (Vert.)
312	0.00	1672506.31	1696560.52	45 Deg Bnd (Vert.)
313	0.00	1672511.44	1696561.05	11.25 Deg Bnd
314	0.00	1672556.67	1696558.13	22.5 Deg Bnd
315	0.00	1672619.28	1696527.34	22.5 Deg Bnd
316	0.00	1672652.59	1696489.43	11.25 Deg Bnd
317	0.00	1672667.32	1696463.99	8" MJ Tee
318	0.00	1672799.06	1696540.24	22.5 Deg Bnd
319	0.00	1672852.56	1696547.34	22.5 Deg Bnd
320	0.00	1672867.13	1696543.45	FH Ass'y
321	0.00	1672887.45	1696538.03	11.25 Deg Bnd
322	0.00	1672922.01	1696521.03	11.25 Deg Bnd
323	0.00	1673004.87	1696498.92	22.5 Deg Bnd
324	0.00	1673025.46	1696501.65	8" MJ Tee
325	0.00	1673083.86	1696509.40	11.25 Deg Bnd
326	0.00	1673140.18	1696530.85	22.5 Deg Bnd
327	0.00	1673252.28	1696527.61	Connect to Exist. 16" Water Main
328	0.00	1673058.35	1696094.93	Connect to Exist. 8" Main
329	0.00	1673063.34	1696267.89	P.C. Curve #1
330	0.00	1673046.04	1696398.08	P.R.C. Curve #1 & #2
331	0.00	1673028.28	1696480.38	P.T. Curve #2
332	0.00	1672747.04	1696063.85	Connect to Exist. 8" Main
333	0.00	1672748.23	1696076.91	P.C. Curve #3
334	0.00	1672745.33	1696213.49	PVI
335	0.00	1672710.08	1696351.92	P.T. Curve #3
336	0.00	1672705.07	1696364.99	Horizontal Deflection
337	0.00	1672674.61	1696451.38	11.25 Deg Bnd
338	0.00	1672403.70	1696174.77	2" Blowoff Ass'y
339	0.00	1672409.63	1696155.67	45 Deg Bnd

Point Table				
Point #	Elevation	Northing	Easting	Description
340	0.00	1672440.96	1696139.19	45 Deg Bnd
341	0.00	1672458.09	1696144.52	FH Ass'y
342	0.00	1672471.46	1696148.67	45 Deg Bnd
343	0.00	1672487.94	1696180.00	45 Deg Bnd
344	0.00	1672478.46	1696210.50	45 Deg Bnd
345	0.00	1672455.93	1696222.35	45 Deg Bnd
346	0.00	1672424.10	1696324.81	PVI
347		1670884.75	1694997.87	PC-EXISTING 8" WATERLINE
348		1670808.21	1694829.49	PT
349		1670807.22	1694765.84	FIRE HYDRANT
350		1670804.15	1694569.79	BLOWOFF ASS'Y
351		1671419.22	1694749.12	PC-EXISTING 8" WATERLINE
352		1671302.29	1694694.51	PT
353		1671253.51	1694691.41	45° BEND
354		1671234.40	1694708.23	45° BEND
355		1671202.53	1694706.20	45° BEND
356		1671179.13	1694679.63	45° BEND
357		1671181.16	1694647.76	45° BEND
358		1671207.73	1694624.37	45° BEND
359		1671227.69	1694625.64	BLOWOFF ASS'Y





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CLEAR RIDGE 2ND
ADDITION - PHASE 1
WATER

Coordinate Map
WL (2 of 2)

JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

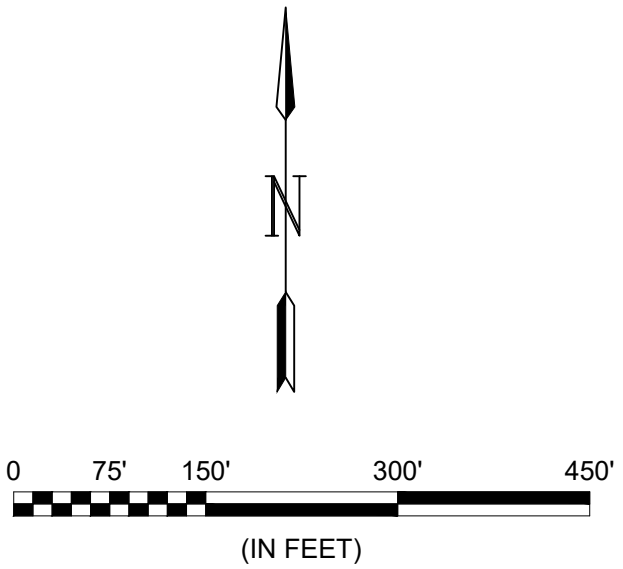
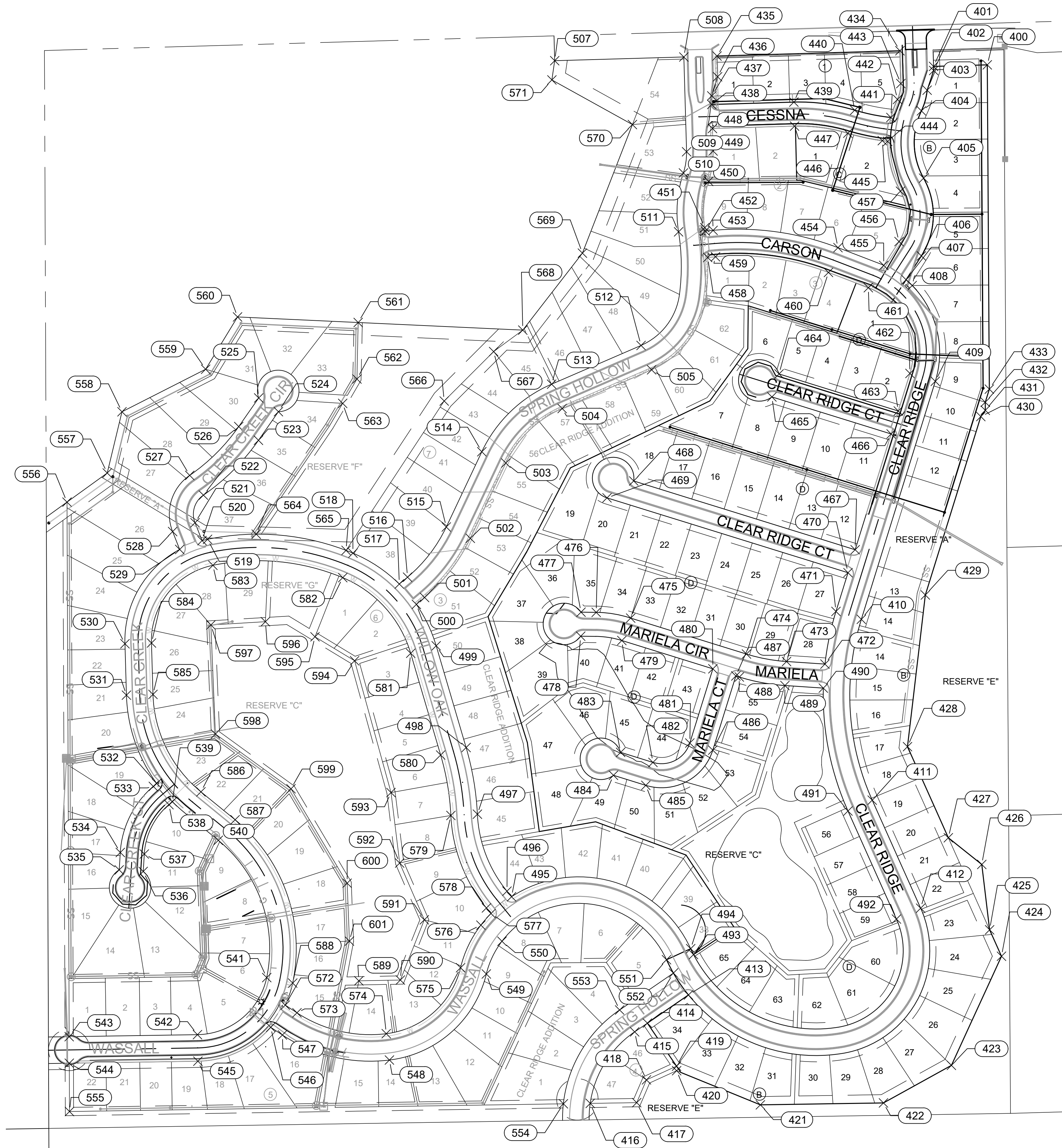
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SHEET
NUMBER 15 OF 20

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**CLEAR RIDGE 2ND
ADDITION - PHASE 1
SANITARY SEWER**

Coordinate Map

JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

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Last plotted by: Standrich, Daryl R Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 7/7/2026 11:28 AM Plotter Used: None

Point Table				Point Table				Point Table				Point Table				Point Table				Point Table			
Point #	Northing	Easting	Description	Point #	Northing	Easting	Description	Point #	Northing	Easting	Description	Point #	Northing	Easting	Description	Point #	Northing	Easting	Description	Point #	Northing	Easting	Description
400	1673205.17	1696732.61	Block Corner	435	1673226.40	1696081.08	Block Corner	470	1671980.36	1696396.87	Block Corner	505	1672469.70	1695923.43	Block Corner	541	1671003.85	1694995.58	Block Corner	576	1671130.39	1695511.87	Block Corner
401	1673201.44	1696603.11	Block Corner	436	1673176.42	1696082.52	Block Corner	471	1671886.94	1696367.84	Block Corner	507	1673215.12	1695689.79	Block Corner	542	1670866.21	1694828.58	Block Corner	577	1671158.40	1695536.21	Block Corner
402	1673191.44	1696603.40	Block Corner	437	1673130.33	1696068.42	Block Corner	472	1671759.91	1696341.30	Block Corner	508	1673224.10	1696001.12	Block Corner	543	1670861.37	1694519.36	Block Corner	578	1671171.87	1695525.21	Block Corner
403	1673143.98	1696587.67	Block Corner	438	1673109.61	1696068.44	Block Corner	473	1671766.15	1696248.69	Block Corner	509	1672995.52	1696007.71	Block Corner	544	1670797.36	1694519.62	Block Corner	579	1671394.80	1695439.55	Block Corner
404	1673094.09	1696573.85	Block Corner	439	1673115.32	1696266.39	Block Corner	474	1671784.16	1696152.08	Block Corner	510	1672944.46	1696000.14	Block Corner	545	1670802.21	1694829.59	Block Corner	580	1671540.64	1695414.88	Block Corner
405	1672931.87	1696579.14	Block Corner	440	1673095.82	1696413.10	Block Corner	475	1671870.87	1695872.98	Block Corner	511	1672802.43	1695988.43	Block Corner	546	1670883.97	1695005.17	Block Corner	581	1671786.00	1695342.67	Block Corner
406	1672744.29	1696573.71	Block Corner	441	1673078.11	1696500.19	Block Corner	476	1671884.69	1695789.84	Block Corner	512	1672528.42	1695897.99	Block Corner	547	1670865.47	1695033.43	Block Corner	582	1671968.45	1695178.89	Block Corner
407	1672686.85	1696536.83	Block Corner	442	1673121.79	1696516.15	Block Corner	477	1671885.18	1695753.27	Block Corner	513	1672434.99	1695682.36	Block Corner	548	1670805.04	1695291.40	Block Corner	583	1671998.17	1694865.88	Block Corner
408	1672672.94	1696551.67	Block Corner	443	1673160.00	1696524.27	Block Corner	478	1671827.19	1695752.49	Block Corner	514	1672272.08	1695514.13	Block Corner	549	1671012.58	1695525.03	Block Corner	584	1671810.76	1694717.80	Block Corner
409	1672441.95	1696607.30	Block Corner	444	1673020.61	1696492.56	Block Corner	479	1671816.77	1695851.65	Block Corner	515	1672090.59	1695428.45	Block Corner	550	1671091.50	1695562.70	Block Corner	585	1671686.85	1694721.37	Block Corner
410	1671867.95	1696428.96	Block Corner	445	1673022.33	1696479.59	Block Corner	480	1671748.58	1696071.12	Block Corner	516	1671969.61	1695335.06	Block Corner	551	1671046.98	1695959.39	Block Corner	586	1671451.84	1694836.99	Block Corner
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416	1670700.54	1695775.46	Block Corner	451	1672812.55	1696051.62	Block Corner	486	1671552.40	1696070.90	Block Corner	522	1672167.38	1694842.95	Block Corner	557	1672220.79	1694611.10	Block Corner	592	1671280.10	1695316.07	Block Corner
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418	1670757.18	1695911.04	Block Corner	453	1672805.99	1696071.68	Block Corner	488	1671728.77	1696134.87	Block Corner	524	1672368.62	1695023.80	Block Corner	559	1672471.08	1694848.38	Block Corner	594	1671767.92	1695207.44	Block Corner
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420	1670779.32	1695983.75	Block Corner	455	1672721.43	1696482.97	Block Corner	490	1671702.05	1696337.35	Block Corner	526	1672332.85	1694928.13	Block Corner	561	1672583.76	1695216.04	Block Corner	596	1671862.24	1694992.39	Block Corner
421	1670696.95	1696185.58	Block Corner	456	1672778.87	1696519.86	Block Corner	491	1671405.61	1696396.80	Block Corner	527	1672215.07	1694809.94	Block Corner	562	1672447.50	1695213.10	Block Corner	597	1671854.38	1694860.98	Block Corner
422	1670701.59	1696482.33	Block Corner	457	1672900.46	1696523.38	Block Corner	492	1671145.03	1696513.61	Block Corner	528	1672079.57	1694768.76	Block Corner	563	1672388.70	1695178.67	Block Corner	598	1671591.35	1694871.92	Block Corner
423	1670792.19	1696646.18	Block Corner	458	1672740.55	1696058.66	Block Corner	493	1671059.50	1696024.46	Block Corner	529	1672036.48	1694785.73	Block Corner	564	1672073.28	1694970.23	Block Corner	599	1671459.18	1695054.16	Block Corner
424	1671055.34	1696766.86	Block Corner	459	1672742.25	1696077.45	Block Corner	494	1671073.62	1696017.58	Block Corner	530	1671808.92	1694653.83	Block Corner	565	1672034.17	1695186.82	Block Corner	600	1671231.52	1695189.43	Block Corner
425	1671119.09	1696738.28	Block Corner	460	1672704.48	1696349.77	Block Corner	495	1671198.87	1695585.79	Block Corner	531	1671685.01	1694657.39	Block Corner	566	1672394.40	1695423.43	Block Corner	601	1671091.90	1695194.97	Block Corner
426	1671276.77	1696719.35	Block Corner	461	1672667.66	1696445.86	Block Corner	496	1671212.35	1695574.78	Block Corner	532	1671472.01	1694730.40	Block Corner	567	1672513.61	1695542.58	Block Corner				
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428	1671560.77	1696540.29	Block Corner	463	1672370.35	1696518.04	Block Corner	498	1671558.71	1695476.28	Block Corner	534	1671305.59	1694642.62	Block Corner	569	1672751.05	1695756.63	Block Corner				
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434	1673239.12	1696521.99	Block Corner	469	1672160.87	1695815.91	Block Corner	504	1672376.26	1695707.80	Block Corner	540	1671334.99	1694878.84	Block Corner	575	1671027.65	1695462.83	Block Corner				



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Wichita, KS 67209
(316) 264-8008



BY:				
DESCRIPTION				
DATE				
REV:				

CITY OF WICHITA
WICHITA, KANSAS



CLEAR RIDGE 2ND
ADDITION - PHASE 1
SANITARY SEWER

Coordinate Map
Tables

JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

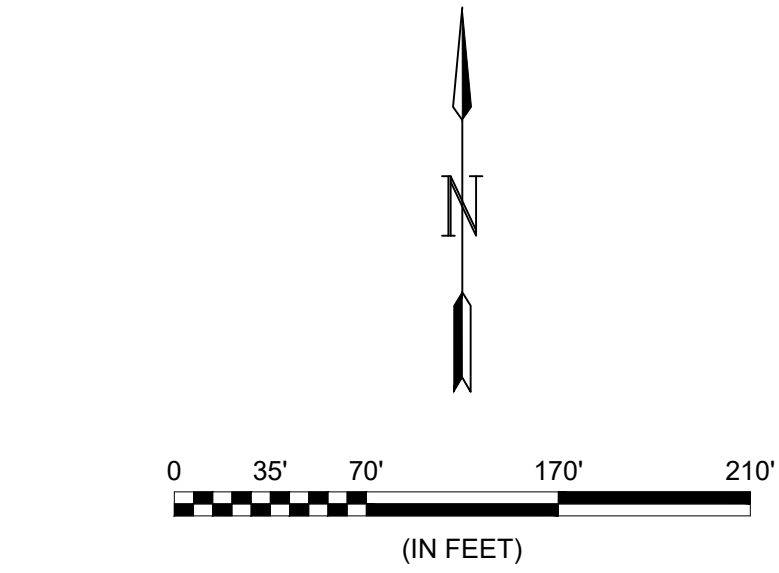
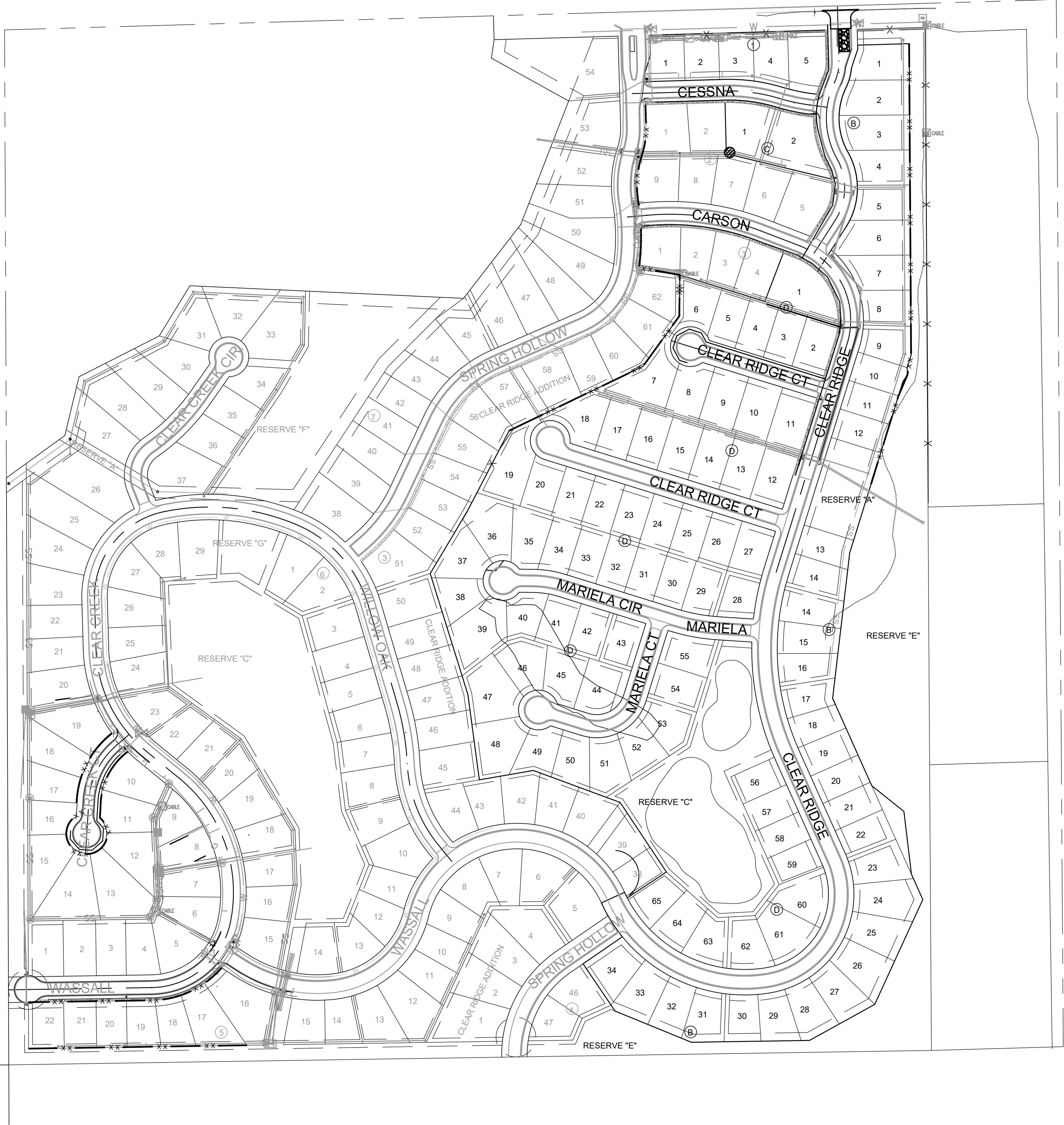
BAR IS ONE INCH ON
ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

■

SHEET
NUMBER 17 OF 20

File: L:\2023\141-2301492 - Clear Ridge Addition Phase 3\Drawings\ WaterlineErosion Control.dwg Last Save: 6/24/2026 3:17 PM Last saved by: DRSlandrich
Last plotted by: Standrich, Daryl R Plot Style: --- Plot Scale: 1:2,5849 Plot Date: 7/7/2026 11:30 AM Plotter Used: None



THIS SHEET IS FOR INFORMATION ONLY.
SEE COMPANION SANITARY SEWER PROJECT.

- LEGEND
- MAINTAIN CONSTRUCTION ENTRANCE (1 EACH)
 - MAINTAIN SILT FENCE (3,330 LF)
 - MAINTAIN DROP INLET PROTECTION (1 EACH)



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REV.	DATE	DESCRIPTION	BY



CITY OF WICHITA
WICHITA, KANSAS

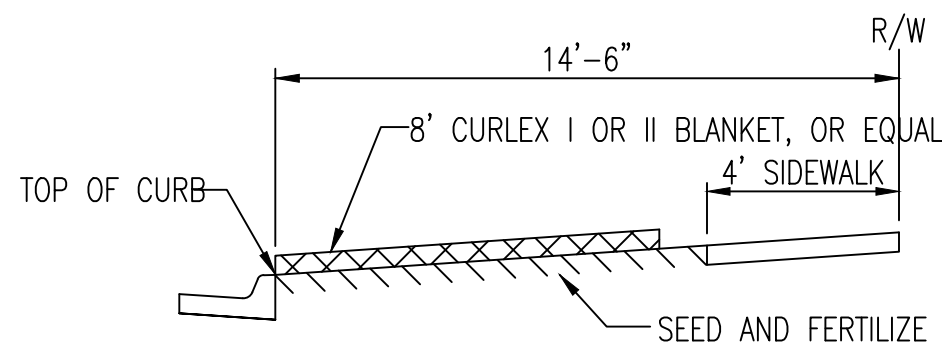
CLEAR RIDGE 2ND
ADDITION - PHASE 1
WATER

Erosion Control

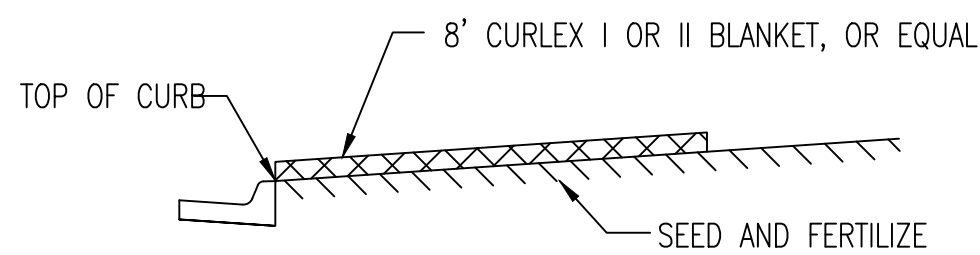
JOB NO.: 2301492
DATE: JULY 2026
DESIGNED BY: KWL
DRAWN BY: MCP

BAR IS ONE INCH ON
ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER

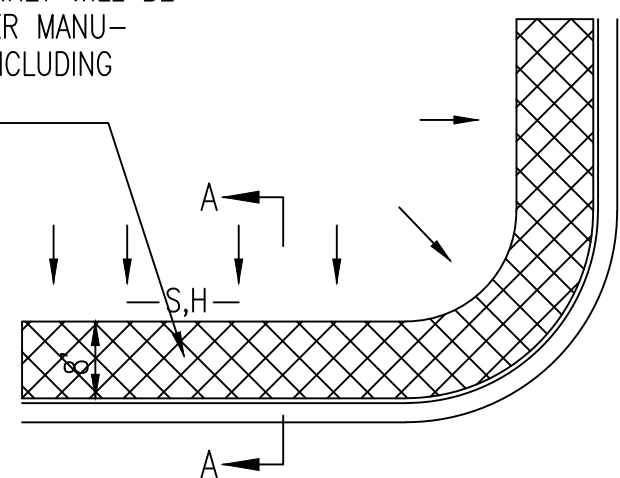


SECTION B-B

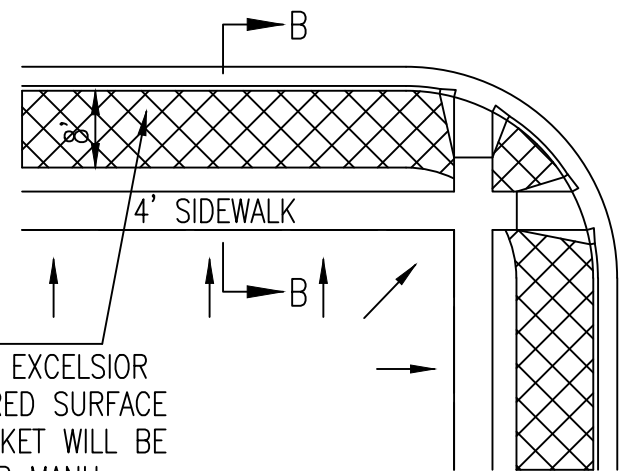


SECTION A-A

INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)



SOUTH STREET

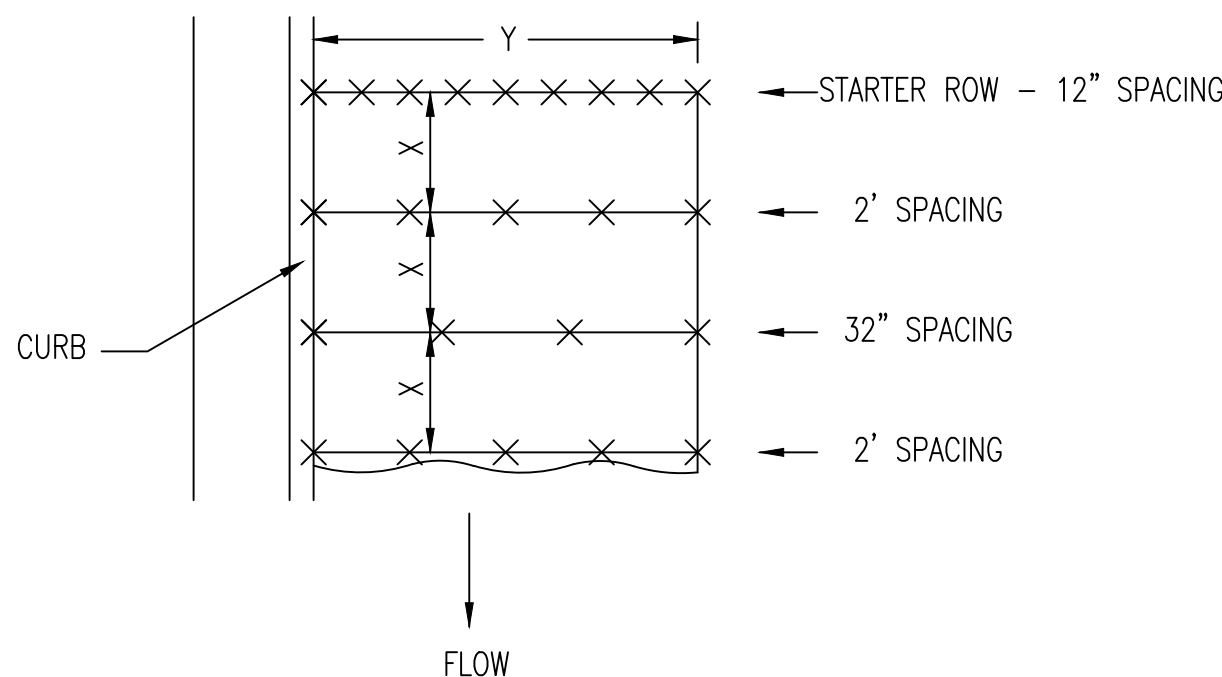


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

GENERAL NOTES

- EXCELSIOR MAT TO BE INSTALLED WHEN SOD IS NOT SPECIFIED ON PROJECT.
- EXCELSIOR BLANKET TO BE INSTALLED OVER SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
- AFTER INSTALLATION OF EXCELSIOR BLANKET, AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB AND INTO THE GUTTER, SUPPLEMENTAL EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS NEEDED, TO FIX THE PROBLEM.

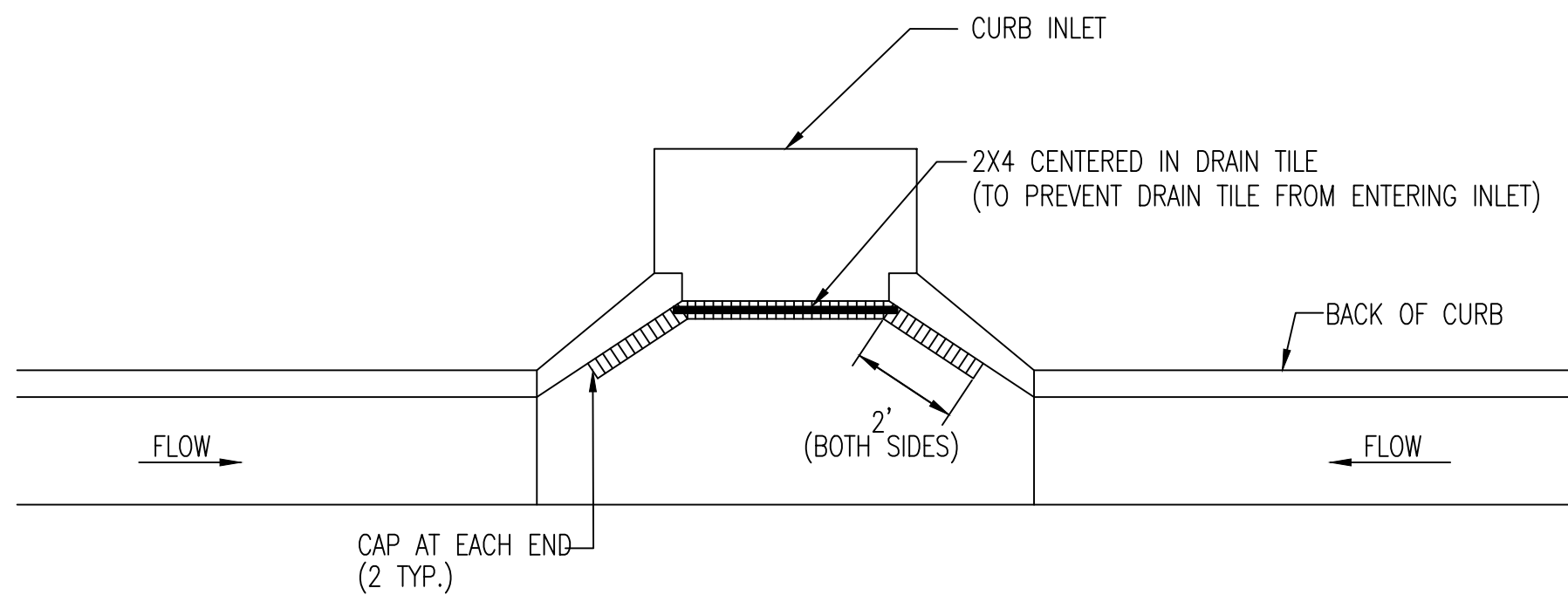
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

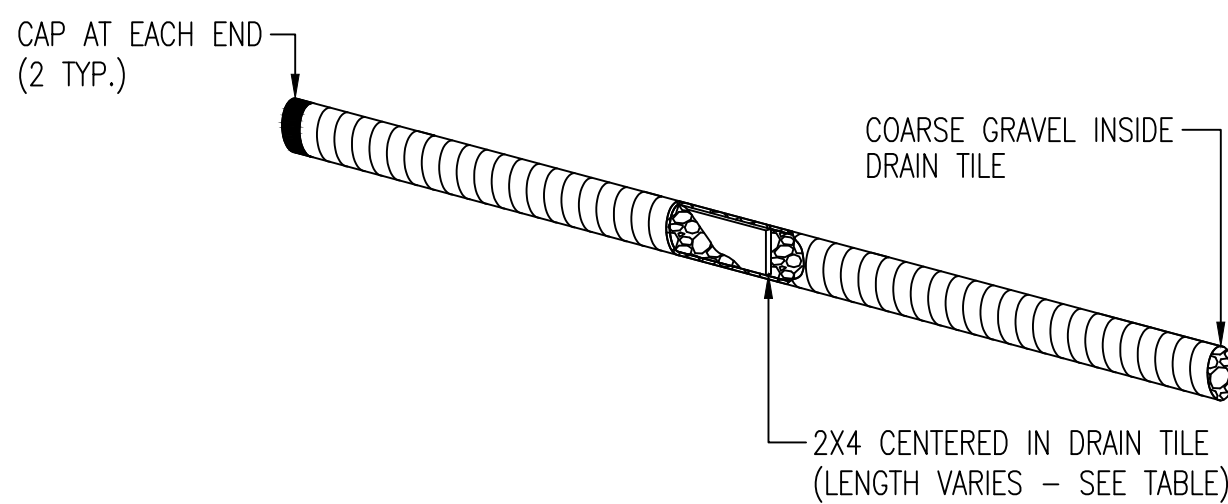
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT



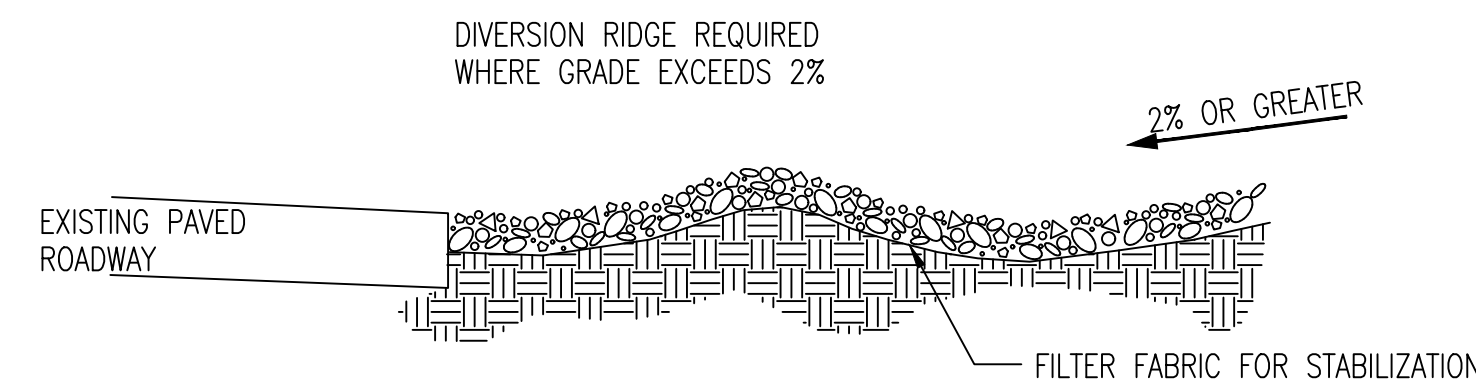
NOTE:
PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"

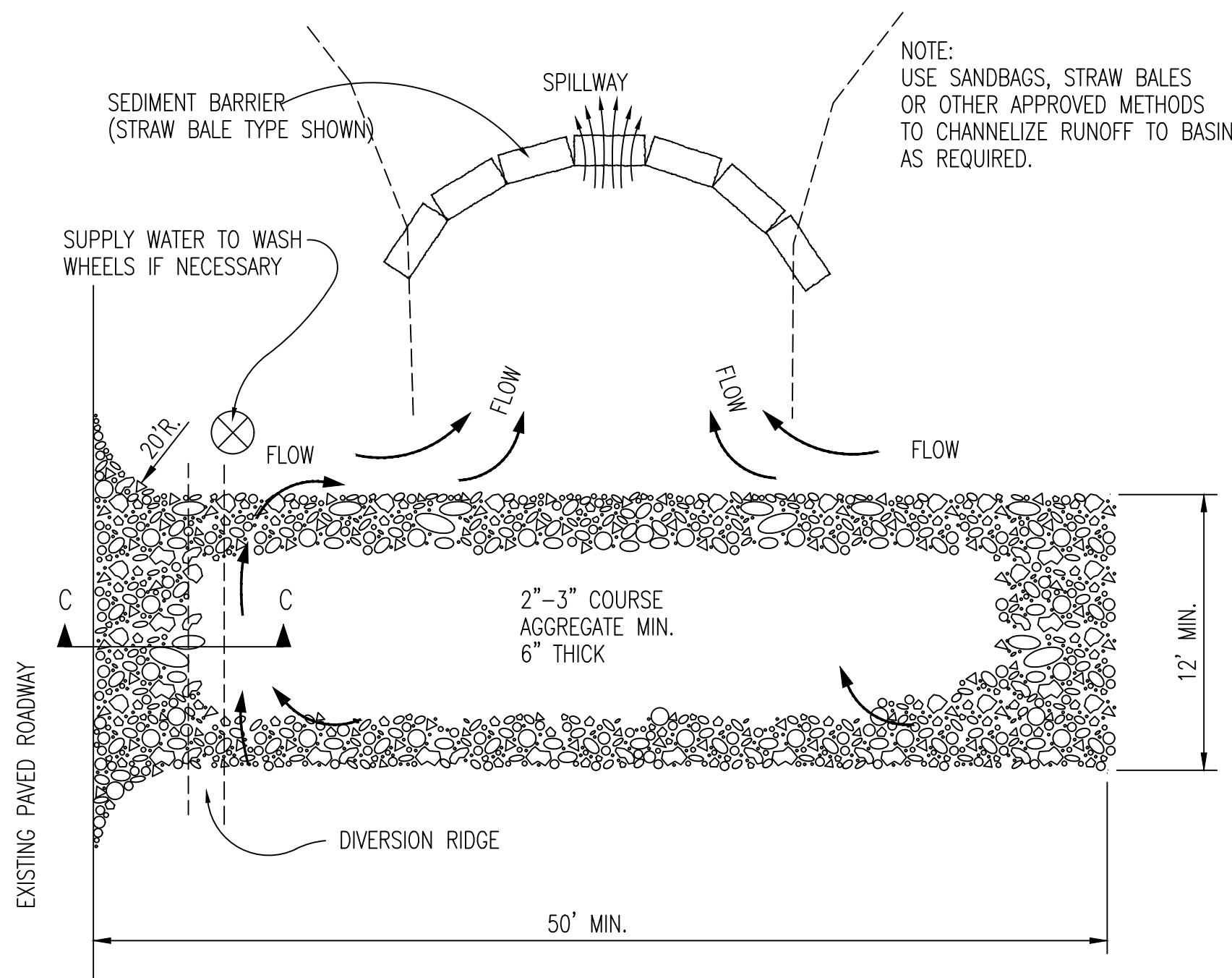


CURB INLET PROTECTION

4" PERFORATED PIPE W/ GRAVEL



SECTION C-C



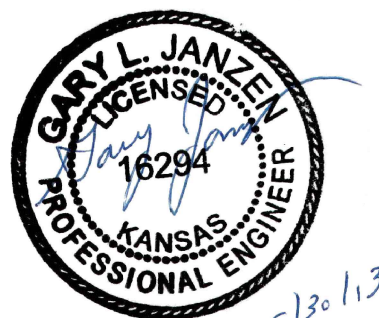
STABILIZED CONSTRUCTION ENTRANCE

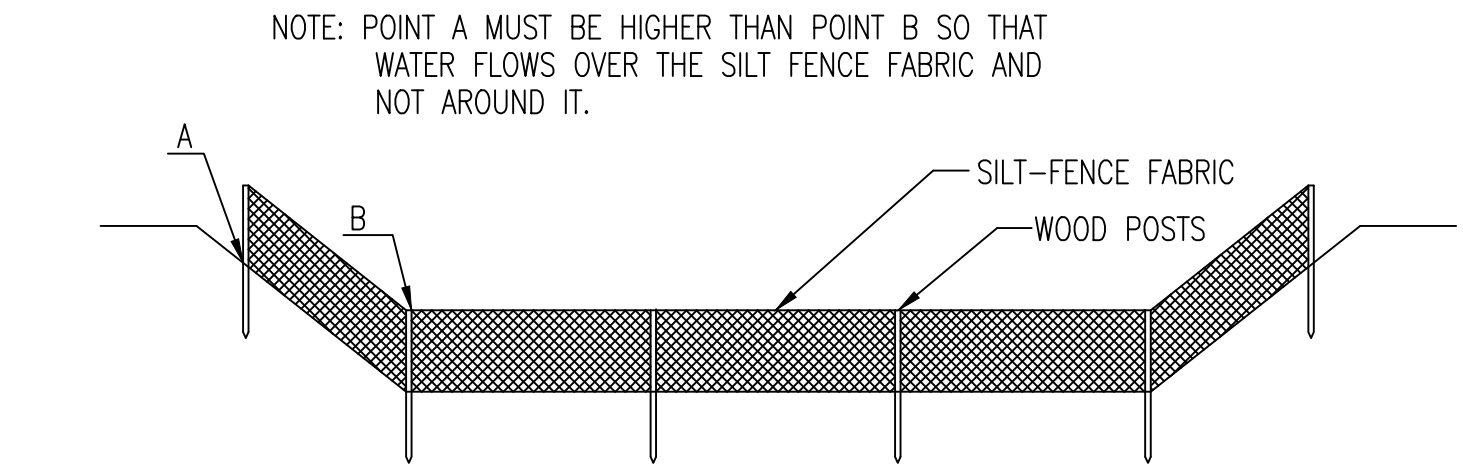
GENERAL NOTES

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, AS SHOWN ABOVE.
- DRIVE ENTRANCES ONTO RESIDENTIAL LOTS WILL NOT BE REQUIRED TO HAVE THE SEDIMENT BARRIER SHOWN, BUT WHEEL WASHING MAY BE REQUIRED IF STABILIZED ENTRANCE IS NOT SUFFICIENT TO KEEP MUD FROM BEING TRACKED ONTO ADJACENT STREET. ENTRANCE SHALL EXTEND FROM BACK OF CURB TO DWELLING.

REVISION DATE: MAY 2013

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			BACK OF CURB PROTECTION, CURB INLET PROTECTION AND CONSTRUCTION ENTRANCE	
			CITY ENGINEER GARY JANZEN, P.E.	
PROJECT NUMBER 448-2023-038924	OCA NUMBER .	DATE	SHEET 14	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501			19	





ELEVATION
SILT FENCE DITCH CHECKS
(STREAM PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK, NOT OVER IT. SILT FENCE DITCH CHECKS OFTEN FAIL WHEN OVERTOPPED. SILT FENCE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE SILT FENCE SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE TOP OF THE LOW POINT OF THE FENCE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. SILT FENCE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. SILT FENCE SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED.

THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK DITCH GRADE (%)	SPACING CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS AT LEAST 12" DEEP BY 6" WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE OF THE TRENCH. LINE TWO SIDES OF THE TRENCH WITH THE FABRIC AS SHOWN ON DETAIL. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE ON THE UPSLOPE SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 24". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

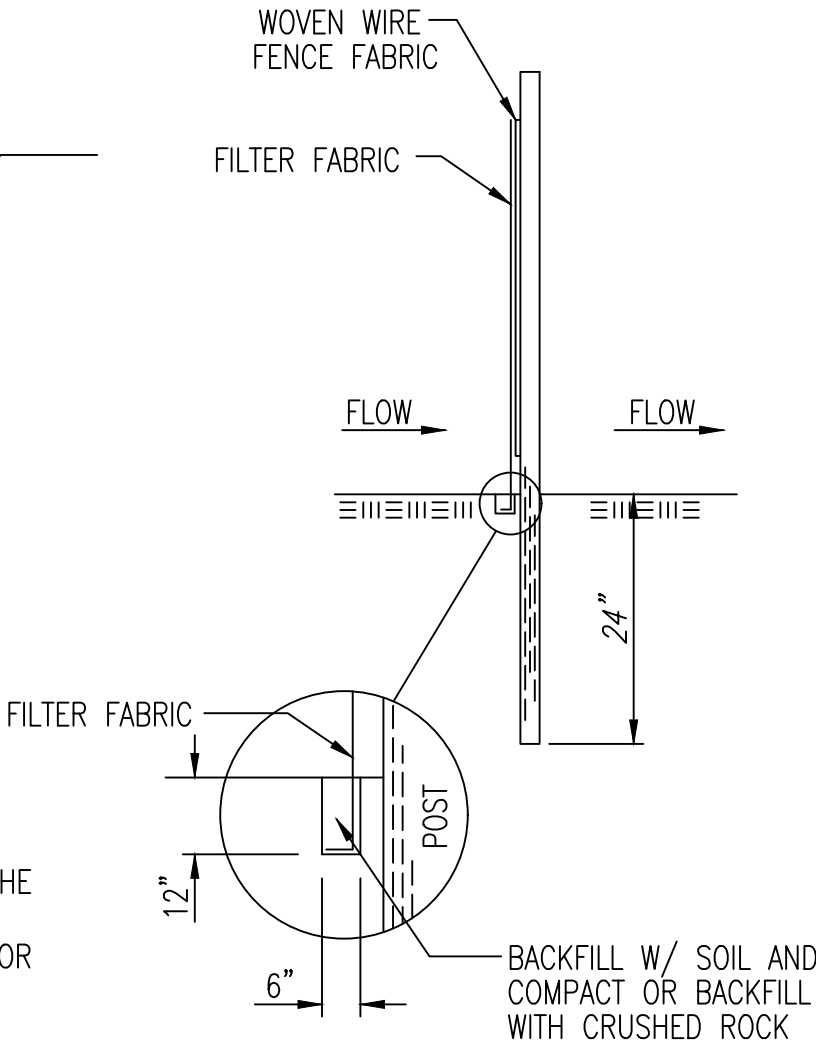
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE DITCH CHECK—NOT OVER IT. PLACE SILT FENCE IN DITCHES WHERE IT IS UNLIKELY THAT IT WILL BE OVERTOPPED. SILT FENCE INSTALLATIONS QUICKLY DETERIORATE WHEN WATER OVERTOPS THEM. DO NOT PLACE SILT FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE A SILT FENCE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE SILT FENCE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE FENCE IS HIGHER THAN THE LOW POINT ON THE TOP OF THE FENCE. DO NOT PLACE SILT FENCE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT.

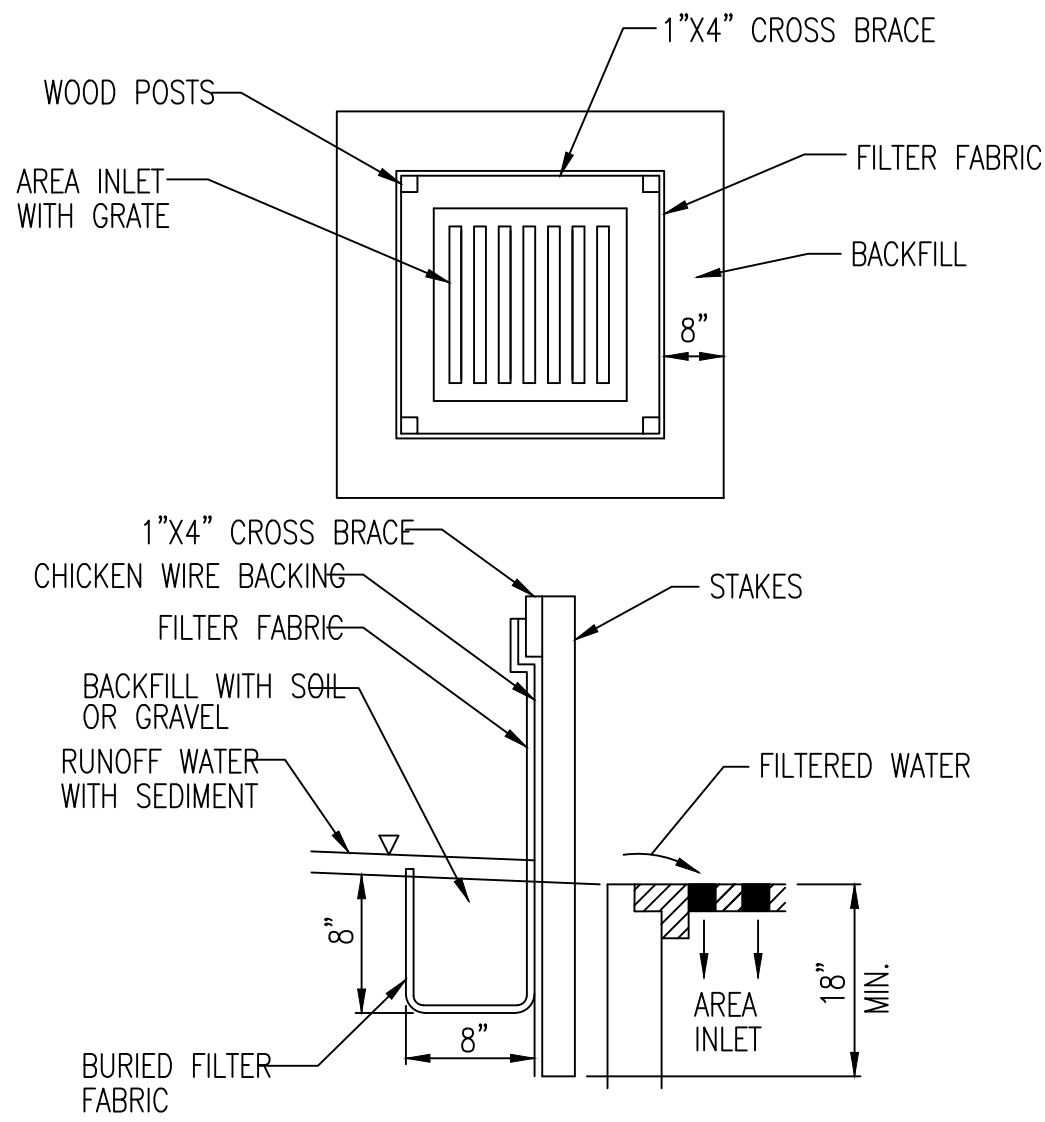
INSPECTION AND MAINTENANCE:

SILT FENCE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



ANCHOR TRENCH DETAIL



SILT FENCE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE WIRE OR POLYMERIC MESH BACKING USED TO HELP SUPPORT THE SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. THE MATERIAL USED TO FRAME THE TOPS OF THE POSTS SHOULD BE 1" BY 4" BOARDS. SILT FENCE FABRIC AND SUPPORT BACKING SHOULD BE ATTACHED TO THE WOODEN POSTS AND FRAME WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

PLACE A SILT FENCE DROP INLET BARRIER IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. WATER SHOULD FLOW THROUGH SILT FENCE, NOT OVER IT. SILT FENCE BARRIERS FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. WHEN USED AS A BARRIER FOR AREA INLETS, SILT FENCE FABRIC AND POSTS MUST BE SUPPORTED AT THE TOP BY A WOODEN FRAME. WHEN A SILT FENCE BARRIER FOR AREA INLETS IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 8" DEEP BY 8" WIDE. DRIVE POSTS TO A DEPTH OF AT LEAST 18" AROUND THE PERIMETER OF THE AREA INLET. THE DISTANCE BETWEEN POSTS SHOULD BE 4' OR LESS. IF THE DISTANCE BETWEEN TWO ADJACENT CORNER POSTS IS MORE THAN 4', ADD ANOTHER POST(S) BETWEEN THEM. CONNECT THE TOPS OF ALL THE POSTS WITH A WOODEN FRAME MADE OF 1" BY 4" BOARDS. USE NAILS OR SCREWS FOR FASTENING. ATTACH THE WIRE OR POLYMERIC-MESH BACKING TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC LONG ENOUGH TO WRAP AROUND THE PERIMETER OF THE AREA INLET. ADD MORE LENGTH FOR OVERLAPPING THE FABRIC JOINT. PLACE THE EDGE OF THE FABRIC IN THE TRENCH, STARTING AT THE OUTSIDE EDGE OF THE TRENCH. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT FENCE FABRIC SHOULD REMAIN EXPOSED. ATTACH THE SILT FENCE TO THE OUTSIDE OF THE POST/FRAME STRUCTURE WITH STAPLES, WIRE, ZIP TIES, OR NAILS. THE JOINT SHOULD BE OVERLAPPED TO THE NEXT POST.

NOTE: WHEN A SILT FENCE BARRIER FOR AREA INLET IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

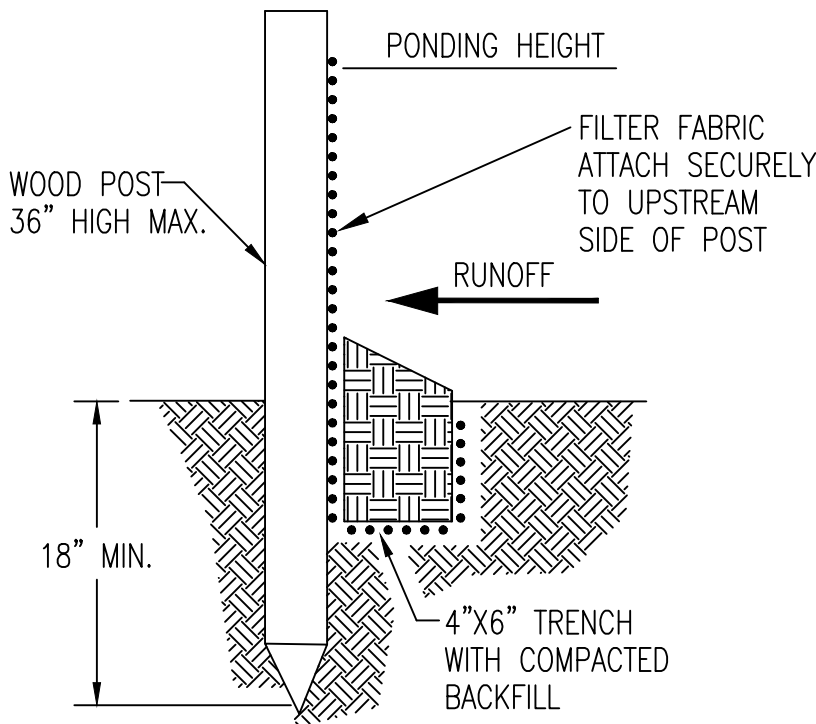
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

WATER SHOULD FLOW THROUGH A SILT FENCE BARRIER FOR AREA INLET—NOT OVER IT. PLACE A SILT FENCE BARRIER FOR AREA INLET IN A LOCATION WHERE IT IS UNLIKELY TO BE OVERTOPPED. SILT FENCE BARRIER FOR AREA INLETS OFTEN FAIL WHEN REPEATEDLY OVERTOPPED. DO NOT PLACE POSTS ON THE OUTSIDE OF THE SILT FENCE BARRIER FOR AREA INLET. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESISTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT INSTALL SILT FENCE BARRIER FOR AREA INLETS WITHOUT FRAMING THE TOP OF THE POSTS. THE CORNER POSTS AROUND AREA INLETS ARE STRESSED IN TWO DIRECTIONS WHEREAS A NORMAL SILT FENCE IS ONLY STRESSED IN ONE DIRECTION. THIS ADDED STRESS REQUIRES MORE SUPPORT.

INSPECTION AND MAINTENANCE:

SILT FENCE BARRIER FOR AREA INLETS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE SILT FENCE?
DOES THE SILT FENCE SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



SILT FENCE BARRIERS

MATERIAL SPECIFICATION:

SILT FENCE FABRIC SHOULD CONFORM TO THE AASHTO M288 96 SILT FENCE SPECIFICATION. THE POSTS USED TO SUPPORT THE SILT FENCE FABRIC SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. SILT FENCE FABRIC SHOULD BE ATTACHED TO THE WOODEN POSTS WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, SILT FENCE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. SILT FENCE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 6" DEEP BY 4" WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. ROLL OUT A CONTINUOUS LENGTH OF SILT FENCE FABRIC ON THE DOWNSLOPE SIDE OF THE TRENCH. PLACE THE EDGE OF THE FABRIC IN THE TRENCH STARTING AT THE TOP UPSLOPE EDGE. LINE ALL THREE SIDES OF THE TRENCH WITH THE FABRIC. BACKFILL OVER THE FABRIC IN THE TRENCH WITH THE EXCAVATED SOIL AND COMPACT. AFTER FILLING THE TRENCH, APPROXIMATELY 24" TO 36" OF SILT-FENCE FABRIC SHOULD REMAIN EXPOSED. LAY THE EXPOSED SILT FENCE UPSLOPE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSLOPE OF THE TRENCH, DRIVE POSTS INTO THE GROUND TO A DEPTH OF AT LEAST 18". PLACE POSTS NO MORE THAN 4' APART. ATTACH THE SILT FENCE TO THE ANCHORED POST WITH STAPLES, WIRE, ZIP TIES, OR NAILS.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

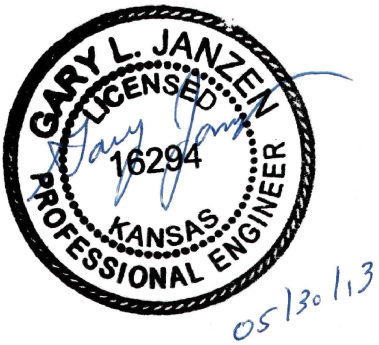
WHEN PRACTICABLE, DO NOT PLACE SILT FENCE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. WHEN THE FLOW CONCENTRATES, IT OVERTOPS THE BARRIER AND THE SILT FENCE SLOPE BARRIER QUICKLY DETERIORATES. DO NOT PLACE SILT-FENCE POSTS ON THE UPSLOPE SIDE OF THE SILT FENCE FABRIC. IN THIS CONFIGURATION, THE FORCE OF THE WATER IS NOT RESTRICTED BY THE POSTS, BUT ONLY BY THE STAPLES (WIRE, ZIP TIES, NAILS, ETC.). THE SILT FENCE WILL RIP AND FAIL. DO NOT PLACE SILT FENCE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT SUFFICIENTLY ANCHORED, IT WILL WASH OUT. SILT FENCE SLOPE BARRIERS MUST BE DUG INTO THE GROUND—SILT FENCE AT GROUND LEVEL DOES NOT WORK BECAUSE WATER WILL FLOW UNDERNEATH.

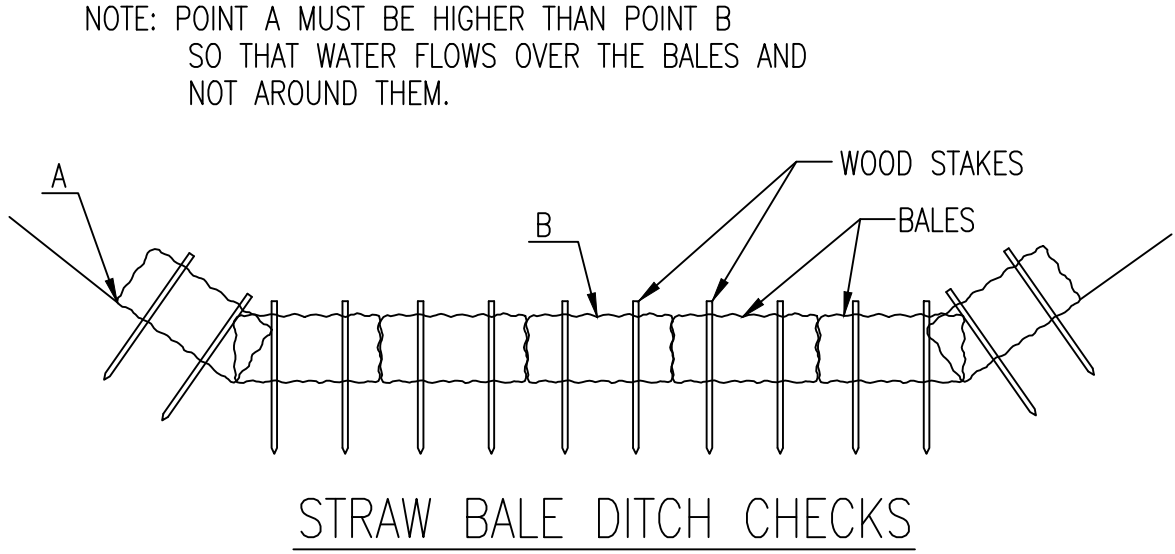
INSPECTION AND MAINTENANCE:

SILT FENCE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DO THE SILT FENCES SAG EXCESSIVELY?
HAS THE SILT FENCE TORN OR BECOME DETACHED FROM THE POSTS?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION				SILT FENCE DITCH CHECK AND BARRIER DETAILS			
CITY ENGINEER GARY JANZEN, P.E.							
PROJECT NUMBER 448-2023-038924		OCA NUMBER .		DATE 11/2010			
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501				SHEET 18 19			





STRAW BALE DITCH CHECKS

MATERIAL SPECIFICATION:

BALE DITCH CHECKS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. OPTIONAL: THE DOWNSTREAM SCOUR APRON SHOULD BE CONSTRUCTED OF A DOUBLE-NETTED STRAW EROSION-CONTROL BLANKET AT LEAST 6' WIDE. OPTIONAL: THE METAL LANDSCAPE STAPLES USED TO ANCHOR THE EROSION-CONTROL BLANKET SHOULD BE AT LEAST 8" LONG.

PLACEMENT:

BALE DITCH CHECKS SHOULD BE PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. THE DITCH CHECK SHOULD EXTEND FAR ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. THIS PREVENTS WATER FROM FLOWING AROUND THE CHECK. STRAW BALE DITCH CHECKS SHOULD NOT BE PLACED IN DITCHES WHERE HIGH FLOWS ARE EXPECTED. ROCK CHECKS SHOULD BE USED INSTEAD. BALES SHOULD BE PLACED IN DITCHES WITH SLOPES OF 6% OR LESS. FOR SLOPES STEEPER THAN 6%, ROCK CHECKS SHOULD BE USED. THE FOLLOWING TABLE PROVIDES CHECK SPACING FOR A GIVEN DITCH GRADE:

DITCH CHECK SPACING DITCH GRADE (%)	CHECK SPACING (FEET)
0.5	200
1.0	200
2.0	100
3.0	65
4.0	50
5.0	40
6.0	30

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH PERPENDICULAR TO THE DITCH FLOWLINE THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. EXTEND THE TRENCH IN A STRAIGHT LINE ALONG THE ENTIRE LENGTH OF THE PROPOSED DITCH CHECK. PLACE THE SOIL ON THE UPSTREAM SIDE OF THE TRENCH-IT WILL BE USED LATER. OPTIONAL: ON THE DOWNSTREAM SIDE OF THE TRENCH, ROLL OUT A LENGTH OF EROSION-CONTROL BLANKET (SCOUR APRON) EQUAL TO THE LENGTH OF THE TRENCH. PLACE THE UPSTREAM EDGE OF THE EROSION-CONTROL BLANKET ALONG THE BOTTOM UPSTREAM EDGE OF THE TRENCH. THE EROSION CONTROL BLANKET SHOULD BE ANCHORED IN THE TRENCH WITH ONE ROW OF 8" LANDSCAPE STAPLES PLACED ON 18" CENTERS. THE REMAINDER OF THE EROSION-CONTROL BLANKET (THE PORTION THAT IS NOT LYING IN THE TRENCH) WILL SERVE AS THE DOWNSTREAM SCOUR APRON. THIS SECTION OF THE BLANKET SHOULD BE ANCHORED TO THE GROUND WITH 8" LANDSCAPE STAPLES PLACED AROUND THE PERIMETER OF THE BLANKET ON 18" CENTERS. THE REMAINDER OF THE BLANKET SHOULD BE ANCHORED USING TWO EVENLY SPACED ROWS OF 8" LANDSCAPE STAPLES ON 18" CENTERS PLACED PERPENDICULAR TO THE FLOWLINE OF THE DITCH. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSTREAM SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP AND EXTEND UPSTREAM NO MORE THAN 24".

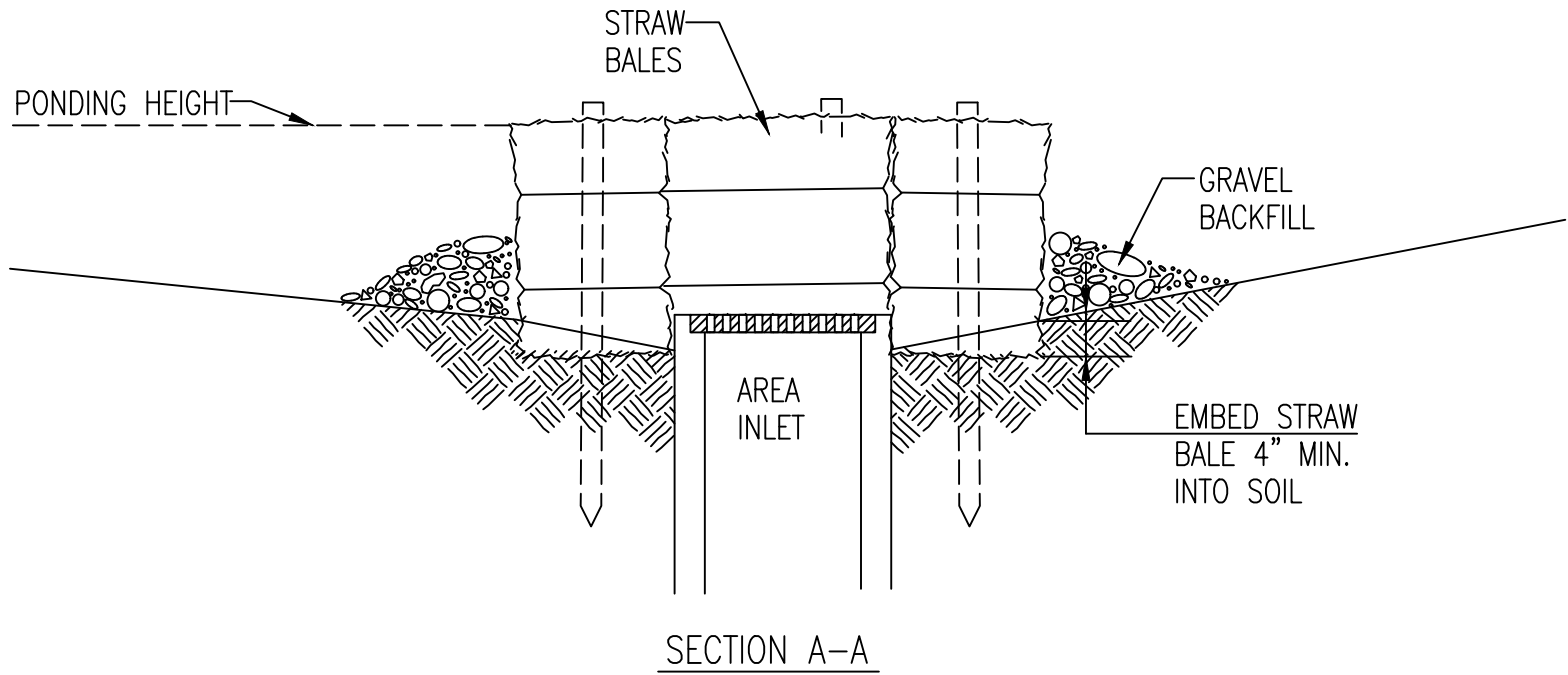
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

DO NOT PLACE A BALE DITCH CHECK DIRECTLY IN FRONT OF A CULVERT OUTLET. IT WILL NOT STAND UP TO THE CONCENTRATED FLOW. DO NOT PLACE BALE DITCH CHECKS IN DITCHES THAT WILL LIKELY EXPERIENCE HIGH FLOWS. THEY WILL NOT STAND UP TO CONCENTRATED FLOW. FOLLOW PRESCRIBED DITCH-CHECK SPACING GUIDELINES. IF SPACING GUIDELINES ARE EXCEEDED, EROSION WILL OCCUR BETWEEN THE DITCH CHECKS. DO NOT ALLOW WATER TO FLOW AROUND THE DITCH CHECK. MAKE SURE THAT THE DITCH CHECK IS LONG ENOUGH SO THAT THE GROUND LEVEL AT THE ENDS OF THE CHECK IS HIGHER THAN THE TOP OF THE LOWEST CENTER BALE. DO NOT PLACE BALE DITCH CHECKS IN CHANNELS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE CHECK IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BALE DITCH CHECKS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE CHECK.

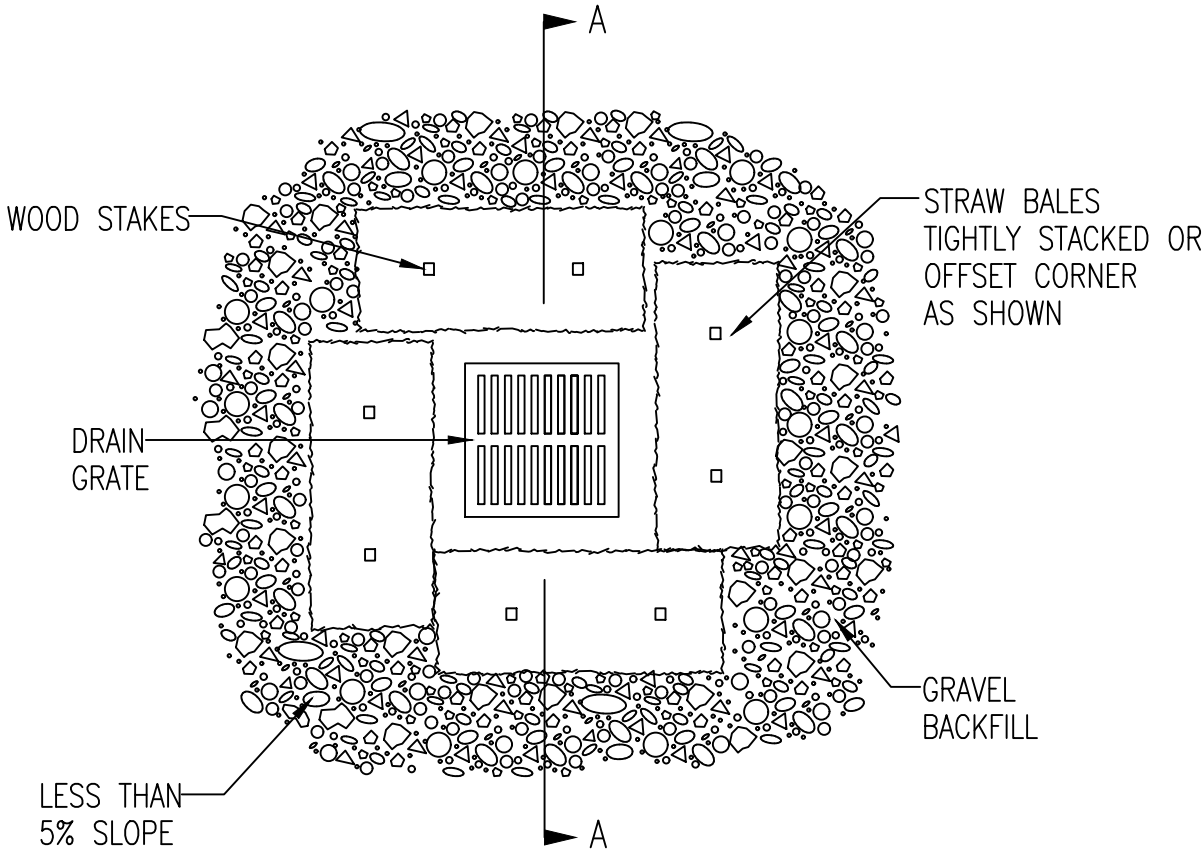
INSPECTION AND MAINTENANCE:

BALE DITCH CHECKS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW AROUND THE DITCH CHECK?
DOES WATER FLOW UNDER THE DITCH CHECK?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES AND/OR SCOUR APRONS (OPTIONAL) DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE DITCH CHECK?



SECTION A-A



STRAW BALE BARRIERS FOR AREA INLETS
(INLET PROTECTION)

MATERIAL SPECIFICATION:

BALE AREA INLET BARRIERS SHOULD BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

BALE AREA INLET BARRIERS SHOULD BE PLACED DIRECTLY AROUND THE PERIMETER OF A DROP INLET. WHEN A BALE AREA INLET BARRIER IS LOCATED NEAR AN INLET THAT HAS STEEP APPROACH SLOPES, THE STORAGE CAPACITY BEHIND THE BARRIER IS DRASTICALLY REDUCED. TIMELY REMOVAL OF SEDIMENT MUST OCCUR FOR A BARRIER TO OPERATE PROPERLY IN THIS LOCATION.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH AROUND THE PERIMETER OF THE AREA INLET THAT IS AT LEAST 4" DEEP BY A BALE'S WIDTH WIDE. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. SOME BALES MAY NEED TO BE SHORTENED TO FIT INTO THE TRENCH AROUND THE AREA INLET. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE RECEIVING SIDE OF THE BARRIER AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP. NOTE: WHEN A BALE AREA INLET BARRIER IS PLACED IN A SHALLOW MEDIAN DITCH, MAKE SURE THAT THE TOP OF THE BARRIER IS NOT HIGHER THAN THE PAVED ROAD. IN THIS CONFIGURATION, WATER MAY SPREAD ONTO THE ROADWAY CAUSING A HAZARDOUS CONDITION.

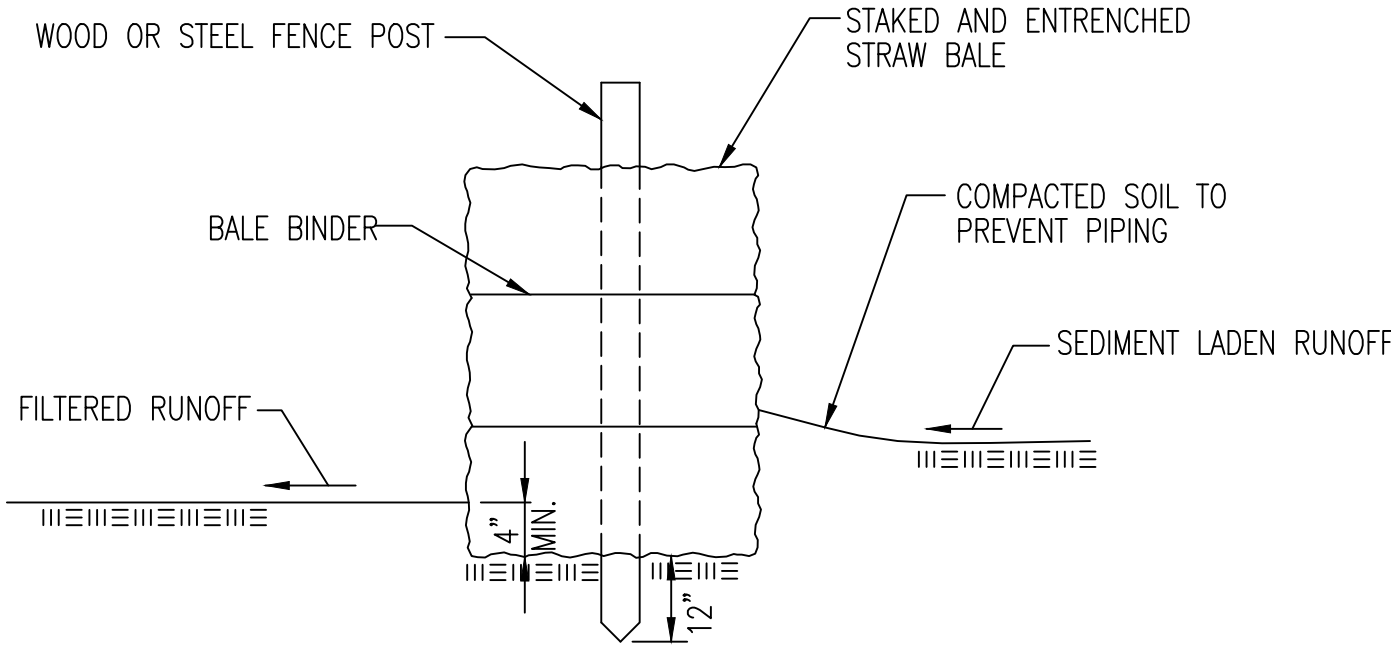
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

BALES SHOULD BE PLACED DIRECTLY AGAINST THE PERIMETER OF THE AREA INLET. THIS ALLOWS OVERTOPPING WATER TO FLOW DIRECTLY INTO THE INLET INSTEAD OF ONTO NEARBY SOIL CAUSING SCOUR. BALE AREA INLET BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE AREA INLET BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

DOES WATER FLOW UNDER THE AREA INLET BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE AREA INLET BARRIER?



STRAW BALE BARRIERS

MATERIAL SPECIFICATION:

BALE SLOPE BARRIERS MAY BE CONSTRUCTED OF WHEAT STRAW, OAT STRAW, PRAIRIE HAY, OR BROMEGRASS HAY THAT IS FREE OF WEEDS DECLARED NOXIOUS BY THE KANSAS STATE BOARD OF AGRICULTURE. THE STAKES USED TO ANCHOR THE BALES SHOULD BE A HARDWOOD MATERIAL WITH THE FOLLOWING MINIMUM DIMENSIONS: 2" SQUARE (NOMINAL) BY 4' LONG. TWINE SHOULD BE USED TO BIND BALES. THE USE OF WIRE BINDING IS PROHIBITED BECAUSE IT DOES NOT BIODEGRADE READILY.

PLACEMENT:

A SLOPE BARRIER SHOULD BE USED AT THE TOE OF A SLOPE WHEN A DITCH DOES NOT EXIST. THE SLOPE BARRIER SHOULD BE PLACED ON NEARLY LEVEL GROUND 5' TO 10' AWAY FROM THE TOE OF A SLOPE. THE BARRIER IS PLACED AWAY FROM THE TOE OF THE SLOPE TO PROVIDE ADEQUATE STORAGE FOR SETTLING OUT SEDIMENT. WHEN PRACTICABLE, BALE SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. BALE SLOPE BARRIERS CAN ALSO BE PLACED ALONG RIGHT-OF-WAY FENCE LINES TO KEEP SEDIMENT FROM CROSSING ONTO ADJACENT PROPERTY. WHEN PLACED IN THIS MANNER, THE SLOPE BARRIER WILL NOT LIKELY FOLLOW CONTOURS.

PROPER INSTALLATION METHOD:

EXCAVATE A TRENCH THE LENGTH OF THE PLANNED SLOPE BARRIER THAT IS 4" DEEP AND A BALE'S WIDTH WIDE. MAKE SURE THAT THE TRENCH IS EXCAVATED ALONG A SINGLE CONTOUR. WHEN PRACTICABLE, SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. PLACE THE SOIL ON THE UPSLOPE SIDE OF THE TRENCH FOR LATER USE. PLACE THE BALES IN THE TRENCH, MAKING SURE THAT THEY ARE BUTTED TIGHTLY. TWO STAKES SHOULD BE DRIVEN THROUGH EACH BALE ALONG THE CENTERLINE OF THE DITCH CHECK, APPROXIMATELY 6" TO 8" IN FROM THE BALE ENDS. STAKES SHOULD BE DRIVEN AT LEAST 12" INTO THE GROUND. ONCE ALL THE BALES HAVE BEEN INSTALLED AND ANCHORED, PLACE THE EXCAVATED SOIL AGAINST THE UPSLOPE SIDE OF THE CHECK AND COMPACT IT. THE COMPACTED SOIL SHOULD BE NO MORE THAN 3" TO 4" DEEP.

LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

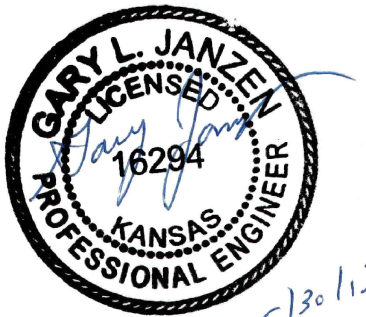
WHEN PRACTICAL, DO NOT PLACE BALE SLOPE BARRIERS ACROSS CONTOURS. SLOPE BARRIERS SHOULD BE PLACED ALONG CONTOURS TO AVOID A CONCENTRATION OF FLOW. CONCENTRATED FLOW OVER A SLOPE BARRIER CREATES A SCOUR HOLE ON THE DOWNSLOPE SIDE OF THE BARRIER. THE SCOUR HOLE EVENTUALLY UNDERMINES THE BALES AND THE BARRIER FAILS. DO NOT PLACE BALE SLOPE BARRIERS IN AREAS WITH SHALLOW SOILS UNDERLAIN BY ROCK. IF THE BARRIER IS NOT ANCHORED SUFFICIENTLY, IT WILL WASH OUT. BALE SLOPE BARRIERS MUST BE DUG INTO THE GROUND. BALES AT GROUND LEVEL DO NOT WORK BECAUSE THEY ALLOW WATER TO FLOW UNDER THE BARRIER.

INSPECTION AND MAINTENANCE:

BALE SLOPE BARRIERS SHOULD BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 1/2" OR MORE. THE FOLLOWING IS A LIST OF QUESTIONS THAT SHOULD BE ADDRESSED DURING EACH INSPECTION:

ARE THERE ANY POINTS ALONG THE SLOPE BARRIER WHERE WATER IS CONCENTRATING?
DOES WATER FLOW UNDER THE SLOPE BARRIER?
DOES WATER FLOW THROUGH SPACES BETWEEN ABUTTING BALES?
ARE ANY BALES DISLODGED?
ARE BALES DECOMPOSING DUE TO AGE AND/OR WATER DAMAGE?
DOES SEDIMENT NEED TO BE REMOVED FROM BEHIND THE SLOPE BARRIER?

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION			STRAW BALE DITCH CHECK AND BARRIER DETAILS		
CITY ENGINEER GARY JANZEN, P.E.					
PROJECT NUMBER 448-2023-038924		OCA NUMBER .		DATE 11/2010	
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501				SHEET 17 19	



GENERAL NOTES

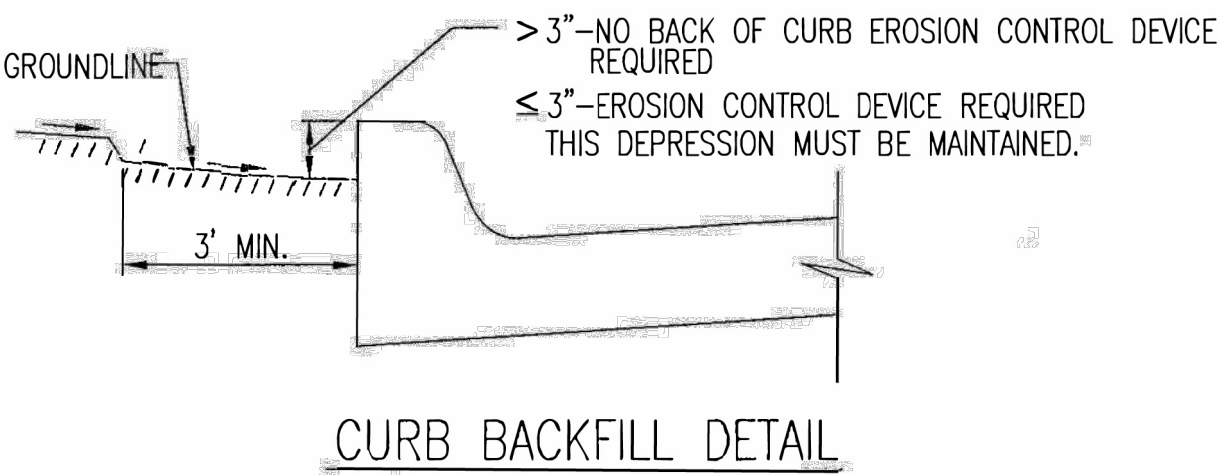
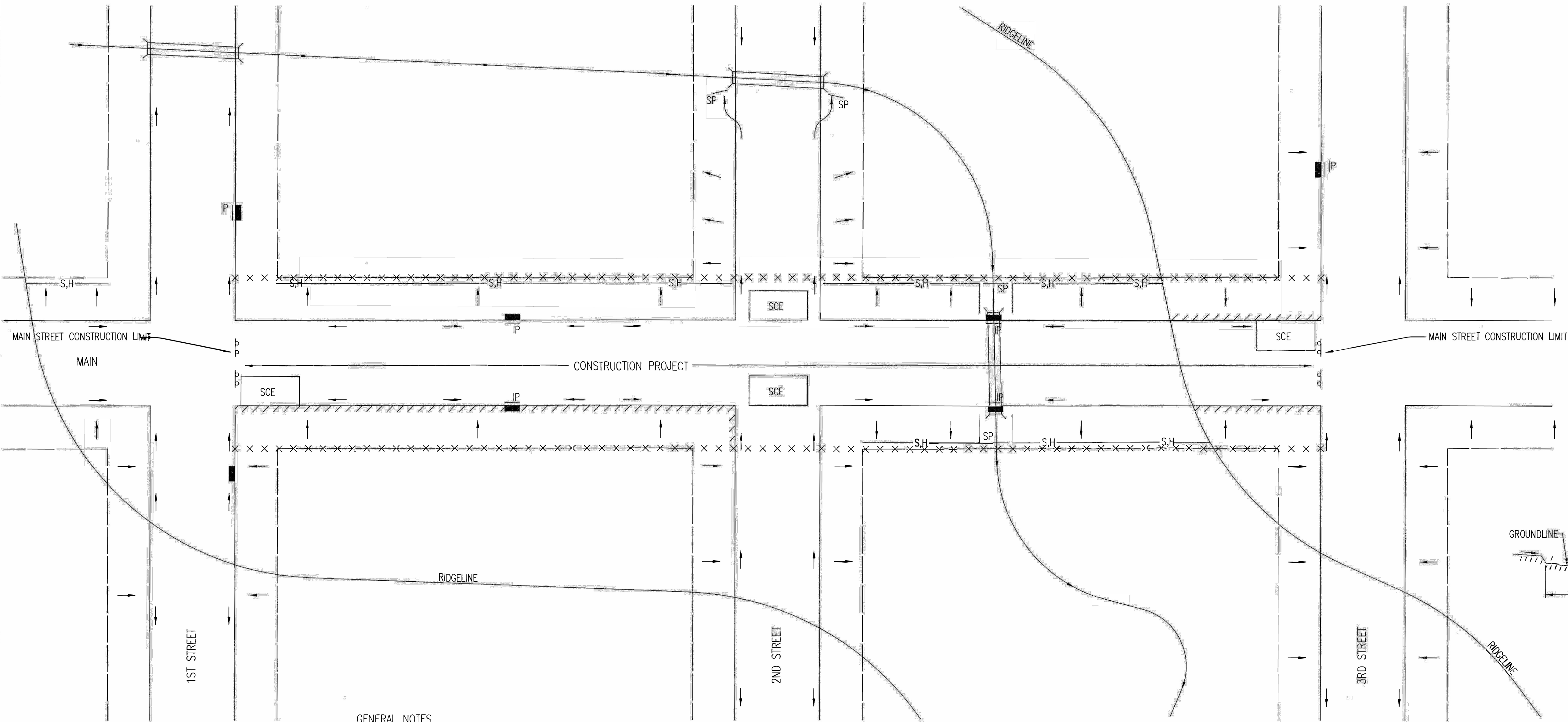
1. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPES OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.

2. EROSION CONTROL DEVICES MUST BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS AND UNTIL THE DISTURBED EARTH IS RESTABILIZED.

3. IF THE PROJECT WILL DISTURB 1 ACRE OR MORE, A FEDERAL/STATE NPDES STORMWATER PERMIT IS REQUIRED. A DETAILED STORMWATER POLLUTION PREVENTION PLAN, IS REQUIRED. THE EROSION CONTROL DEVICES SHOWN ON THIS SHEET ARE CONSIDERED TO BE THE MINIMUM TO BE SHOWN IN THE POLLUTION PREVENTION PLAN.
4. FOR PROJECTS DISTURBING LESS THAN 1 ACRE, CONTRACTORS ARE ENCOURAGED TO PREPARE STORMWATER POLLUTION PREVENTION PLANS PRIOR TO CONSTRUCTION. EROSION CONTROL DEVICES MUST BE USED ON ALL PROJECTS.

5. FAILURE TO USE AND MAINTAIN EROSION CONTROL DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE CONTRACTOR TO THE PENALTIES PROVIDED FOR THEREIN.

6. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE A DIFFERENT DEVICE OTHER THAN THOSE SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED AS LONG AS THEY ARE EFFECTIVE AND MAINTAINED.



THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.

2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.

3. EROSION CONTROL DEVICES WILL BE REQUIRED AT ALL POINTS ALONG THE PROJECT WHERE DISTURBED EARTH CAN DRAIN ONTO PRIVATE PROPERTY.

4. INLET PROTECTION DEVICES WILL BE REQUIRED WHEREVER WATER CAN DRAIN OFF THE PROJECT SITE INTO AN INLET, INCLUDING ANY SIDE STREET INLETS.

5. EROSION CONTROL DEVICES SHALL BE INSTALLED AT CREEK CROSSINGS SO AS TO PREVENT SEDIMENT FROM ENTERING THEREIN.

6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED, AS NEEDED, TO PREVENT MUD FROM TRACKING ONTO STREETS NOT UNDER CONSTRUCTION AND ON STREETS WITHIN THE PROJECT LIMITS IF TRAFFIC IS BEING MAINTAINED THROUGH THE PROJECT.
7. ANY MUD TRACKED ONTO STREETS MUST BE REMOVED AT THE END OF EACH WORK DAY.

8. THE CONTACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE CUTTERLINES, IN ACCORDANCE WITH THE FOLLOWING:

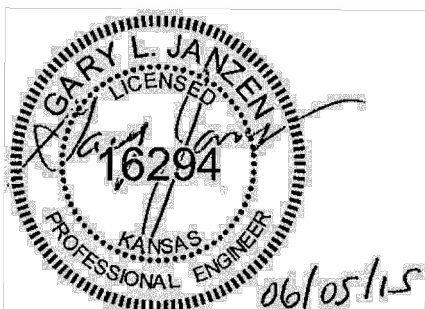
A. THE DEVICE REQUIRED WILL BE APPROVED EROSION CONTROL MAT LISTED ON THE CITY'S APPROVED MATERIAL LIST. SAID BLANKET SHALL BE PLACED OVER THE APPROPRIATE SEED AND FERTILIZER, AS SPECIFIED IN THE PROJECT SPECIFICATIONS. (SEE SOIL EROSION BMPs - BACK OF CURB SEDIMENT BARRIER DETAILS)

B. THIS DEVICE SHALL BE INSTALLED IMMEDIATELY WHENEVER THE CURB IS BACKFILLED TO WITHIN 3" OF THE TOP OF CURB. (SEE CURB BACKFILL DETAIL) OTHER BMP'S MAY BE REQUIRED AT LOCATIONS WHERE CONCENTRATED FLOW CARRIES SEDIMENT OVER THE CURB.

C. ADDITIONALLY, OTHER EROSION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) WILL BE INSTALLED AT LOCATIONS OF CONCENTRATED FLOW RESULTING IN SEDIMENT OVERRUNNING THE MAT.

D. SHOULD THE PROJECT PLANS SPECIFY THAT THE RIGHT-OF-WAY IS TO BE SODDED, THE EXCELSIOR MAT WILL NOT BE REQUIRED SO LONG AS THE SOD IS PLACED WITHIN 48 HOURS AFTER CURB BACKFILL REACHES A HEIGHT OF 3" OR LESS FROM TOP OF CURB. (SEE CURB BACKFILL DETAIL)

- LEGEND
- R-O-W LIMITS
 - DRAINAGE FLOW PATH
 - R/W LIMIT WITHIN CONSTRUCTION LIMIT
 - STORM WATER INLETS
 - INLET PROTECTION
 - SILT FENCE OR HAY BALE BARRIER
 - STREAM PROTECTION
 - STABILIZED CONSTRUCTION ENTRANCE
 - BACK OF CURB PROTECTION



CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

REVISION: JUNE 2015

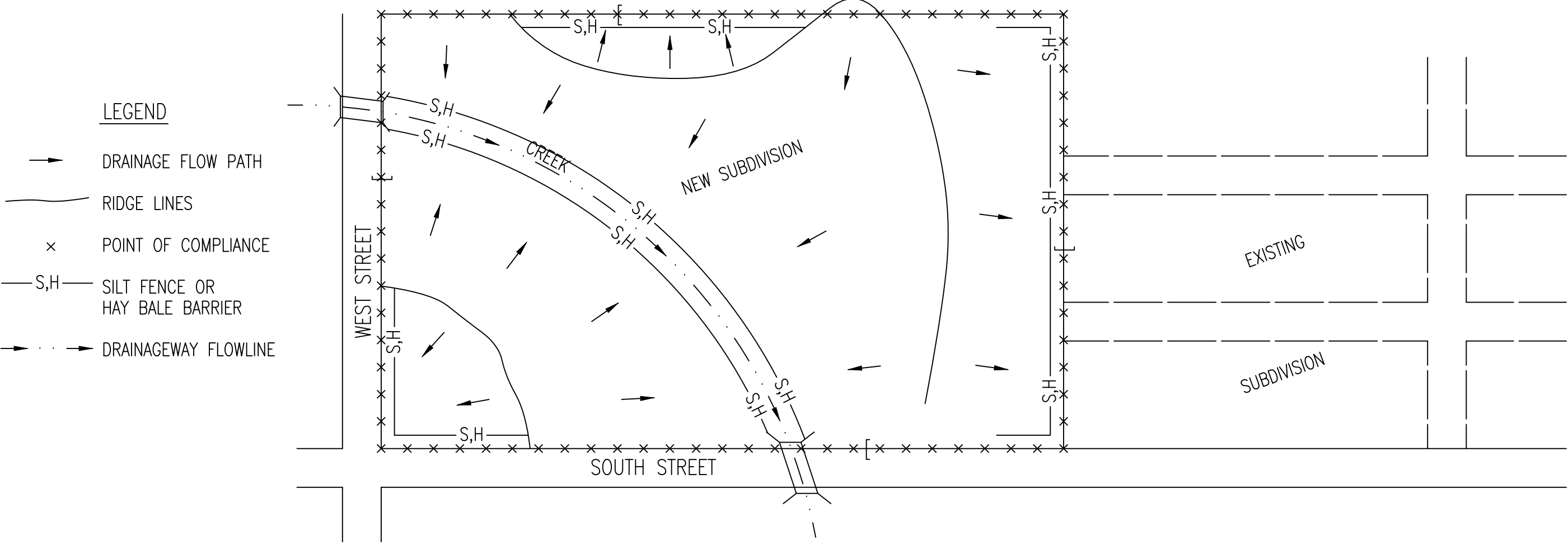
**STREET IMPROVEMENT
PROJECTS**

CITY ENGINEER
GARY JANZEN, P.E.

PROJECT NUMBER	OCA NUMBER	DATE
448-2023-038924		

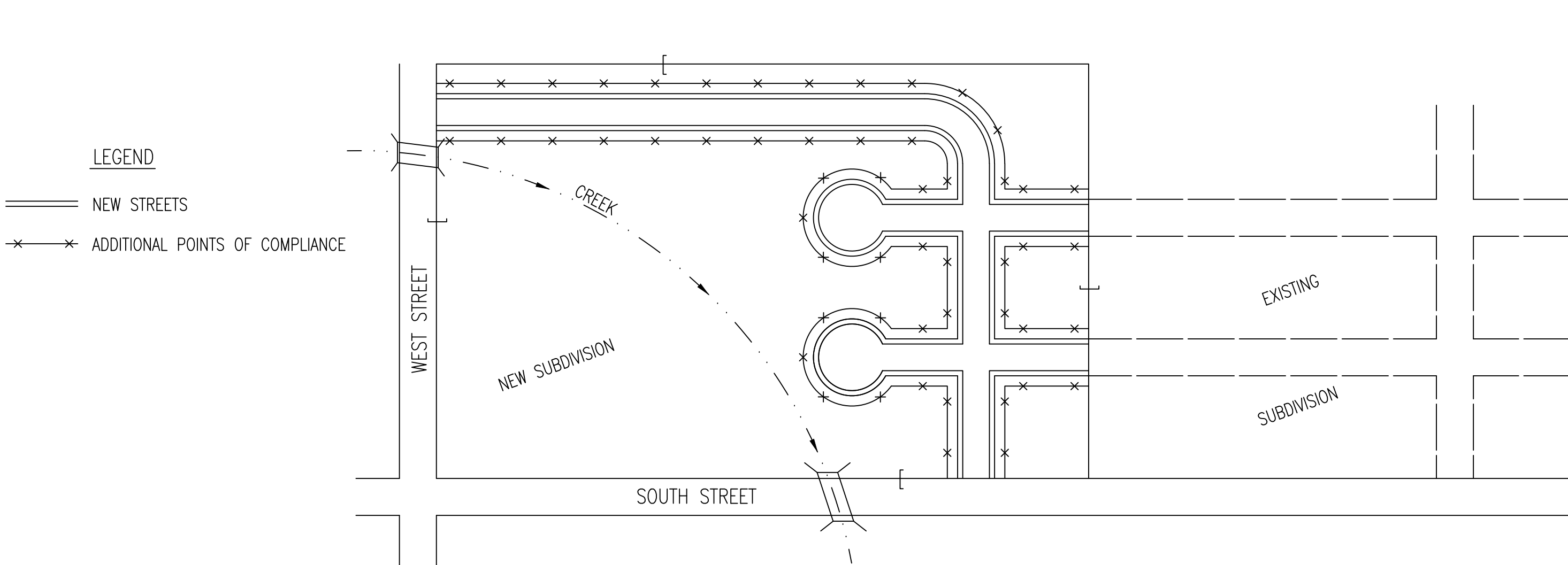
CITY ENGINEER'S OFFICE	SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501	16 / 19

PHASE 1 – INITIAL EARTHWORK AND UTILITIES (EXCEPT STORM SEWER)



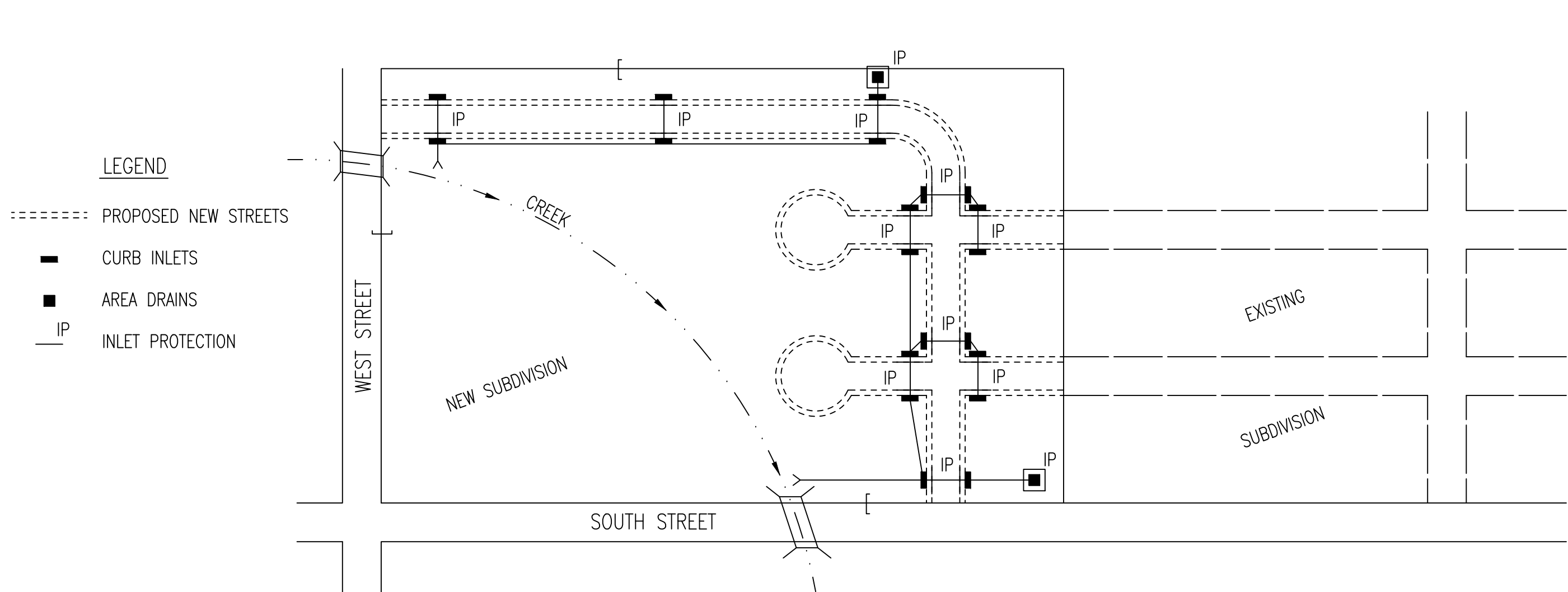
1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, THE POINTS OF COMPLIANCE ARE THE PERIMETER BOUNDARIES AND ANY DRAINAGE WAYS OR STORM SEWERS DRAINING THROUGH OR FROM THE SITE. SHOULD LAKES BE CONSTRUCTED WITHIN THE SUBDIVISION THAT WILL DISCHARGE DURING STORMS, THEY ARE ALSO A POINT OF COMPLIANCE.
2. HAY BALES OR SILT FENCE MUST BE CONSTRUCTED ALONG THE PROPERTY LINE WHERE ON SITE WATER CAN DRAIN OFF THE PROPERTY. THESE EROSION CONTROL DEVICES WILL ALSO BE INSTALLED ALONG ANY DRAINAGE DITCH OR LAKE THAT CAN DISCHARGE.
3. SHOULD SILT OR SEDIMENT ENTER THE DITCHES OR STREETS ON THE ADJACENT BOUNDARY STREETS, APPROPRIATE EROSION CONTROL DEVICES WILL BE PLACED WITHIN THE SUBDIVISION TO PREVENT THIS.
4. ANY MUD TRACKED ONTO ADJACENT STREETS WILL BE REMOVED WITHIN 48 HOURS OR BY FRIDAY AT 6:00 PM, WHICHEVER IS EARLIER.
5. CONTRACTORS WORKING WITHIN THE SITE WILL NOT BE REQUIRED TO USE INDIVIDUAL EROSION CONTROL DEVICES AS LONG AS THOSE SPECIFIED ABOVE ARE IN PLACE AND EFFECTIVE. CONTRACTORS WORKING ON THE BOUNDARY LINE STREETS OR ON ADJACENT PROPERTIES TO EXTEND UTILITIES ARE EXPECTED TO USE EROSION CONTROL DEVICES AT THEIR WORK LOCATIONS, AS NEEDED.
6. UTILIZE STABILIZED CONSTRUCTION ENTRANCE AT ENTRANCE AND EXIT ONTO ANY EXISTING PUBLIC STREETS.
7. IF THE INITIAL EARTH WORK AND UTILITIES ARE DONE AS PART OF A PUBLIC IMPROVEMENT PROJECT, THESE EROSION CONTROL DEVICES WILL BE INSTALLED BY THE CONTRACTOR AS SPECIFIED IN THE INDIVIDUAL PROJECT CONTRACTS. THE CONTRACTOR WILL MAINTAIN THE DEVICES UNTIL COMPLETION OF THE CONTRACT, AT WHICH TIME THE DEVELOPER WILL ASSUME MAINTENANCE RESPONSIBILITIES. IF THESE CONTRACTS ARE NOT PUBLIC IMPROVEMENT PROJECTS, THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THESE DEVICES.
8. WITHIN 14 DAYS OF COMPLETION OF EARTHWORK ACTIVITIES IN ANY GIVEN AREA, THAT AREA SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED.

PHASE 3 – STREET CONSTRUCTION



1. DURING THIS PHASE OF SUBDIVISION CONSTRUCTION, NEW STREETS ARE INSTALLED. ALL EROSION CONTROL DEVICES INSTALLED DURING PHASE 1 AND 2 MUST STILL BE MAINTAINED. THE POINT OF COMPLIANCE NOW SHIFTS TO THE BACK OF CURB ALONG EACH STREET.
2. CURB OPENING INLET PROTECTION:
A. SUMP AREAS – INLET PROTECTION SHALL BE PROVIDED WHEN STREET SUBGRADE WORK IS COMPLETED.
B. NON-SUMP LOCATIONS – PROVIDE INLET PROTECTION AS SOON AS BASE COURSE ASPHALT IS INSTALLED, BEFORE THE SURFACE COURSE LIFT.
3. EROSION CONTROL DEVICES WILL BE REQUIRED BACK OF CURB WHEREVER WATER CAN FLOW OVER THE CURB AND THE CURB HAS BEEN BACKFILLED TO WITHIN 3" OR LESS OF THE TOP OF CURB (SEE CURB BACKFILL DETAIL). FOR CURBS NOT YET ENTIRELY BACKFILLED (3" OR MORE BELOW TOP OF CURB), ADDITIONAL DEVICES WILL BE REQUIRED AT POINTS WHERE WATER BREAKS OVER CURB WHICH COULD RESULT IN THE PLACEMENT OF SEDIMENT IN THE GUTTER.
4. SEE DETAIL SHEET FOR BACK OF CURB PROTECTION.
5. THE BACK OF CURB PROTECTION SPECIFIED ON THIS PLAN MAY HAVE TO BE SUPPLEMENTED WITH HAY BALE OR SILT FENCE EROSION CONTROL DEVICES AT LOCATIONS WHERE CONCENTRATED FLOW RESULTS IN SEDIMENT BEING CARRIED OVER THE EXCELSIOR MATS.
6. THE STREET CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING BACK OF CURB EROSION CONTROL DEVICES.
7. THE INDIVIDUAL LOT OWNERS WILL BE RESPONSIBLE FOR MAINTAINING THE BACK OF CURB EROSION CONTROL DEVICES IN FRONT OF THEIR LOTS UNTIL SUCH TIME AS ADJACENT DISTURBED EARTH IS STABILIZED WITH GRASS OR SOD.

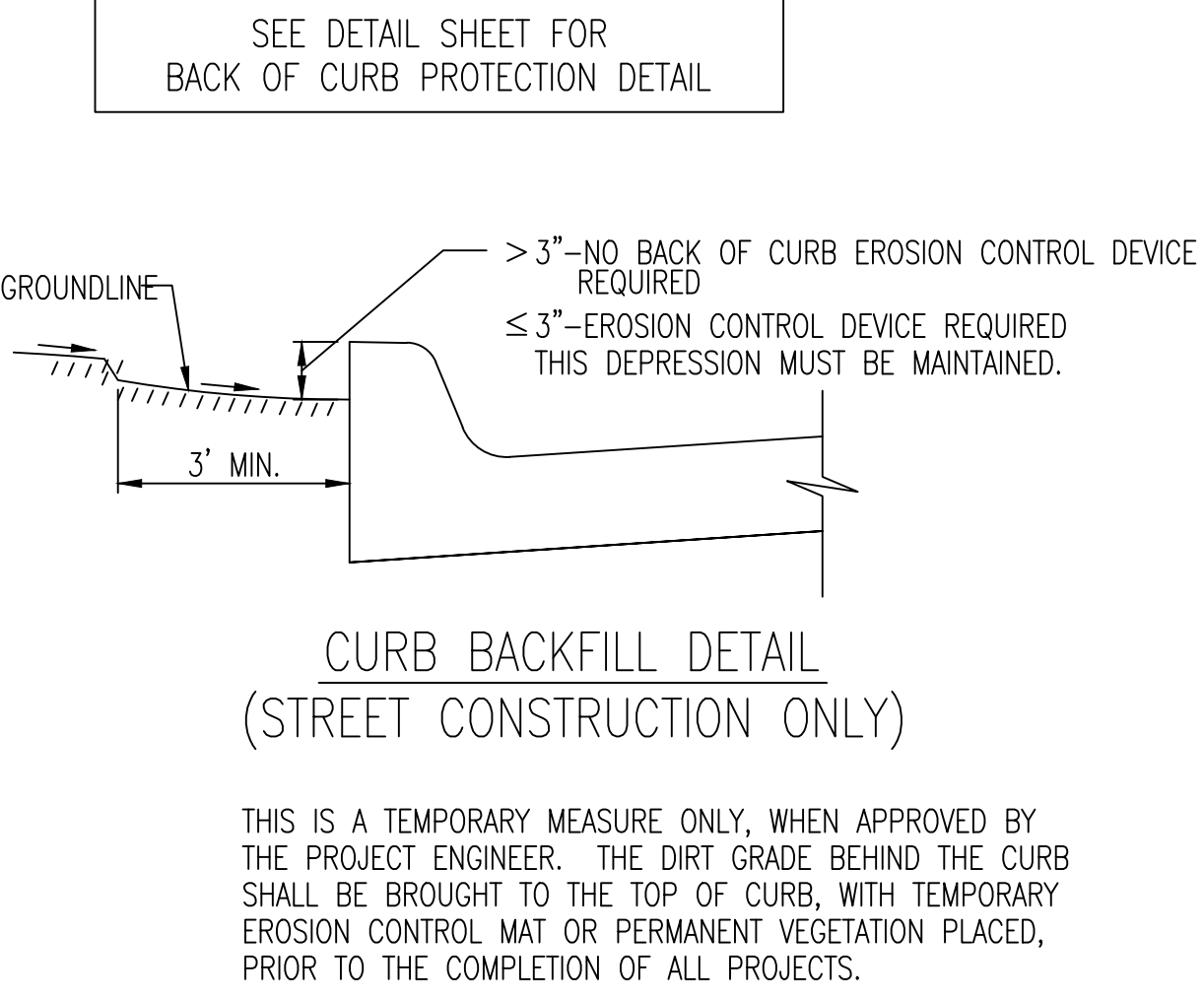
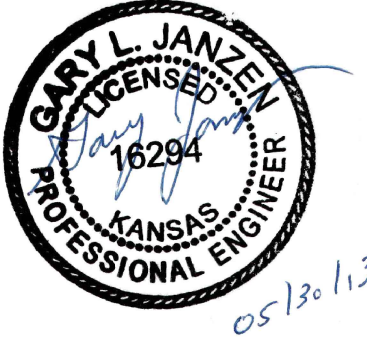
PHASE 2 – INSTALLATION OF STORM SEWER



1. DURING THIS PHASE OF SUBDIVISION DEVELOPMENT, ALL EROSION CONTROL DEVICES REQUIRED IN PHASE 1 SHALL REMAIN IN PLACE AND BE MAINTAINED.
2. AS NEW STORM SEWERS, WITH INLETS, ARE INSTALLED, THE STORM SEWERS MUST NOW BE PROTECTED SO ALL NEW INLETS BECOME POINTS OF COMPLIANCE.
3. AREA DRAINS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, HAY BALE OR SILT FENCE PROTECTION WILL BE INSTALLED AROUND THEM.
4. CURB OPENING INLETS – AS SOON AS WATER CAN FLOW INTO THESE DRAINS, INLET PROTECTION DEVICES MUST BE INSTALLED. IF WATER CANNOT FLOW INTO CURB INLETS UNTIL STREET CONSTRUCTION IS COMPLETE, THEN STREET CONTRACTOR WILL INSTALL INLET PROTECTION. SEE PHASE 3 – STREET CONSTRUCTION.
5. THE STORM SEWER CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING THESE DEVICES.
6. THE SUBDIVISION DEVELOPER WILL MAINTAIN THESE EROSION CONTROL DEVICES ONCE INSTALLED.
7. ALL DISTURBED GROUND WILL BE FINAL GRADED AND TEMPORARILY OR PERMANENTLY SEEDED WITHIN 14 DAYS IF COMPLETION OF WORK IN ANY GIVEN PART OF THE SUBDIVISION.
8. ONCE ALL DISTURBED GROUND DRAINING TO AN INLET HAS BEEN RESTABILIZED WITH GRASS OR SOD, THE SUBDIVISION DEVELOPER WILL BE RESPONSIBLE FOR PERMANENTLY REMOVING THE INLET PROTECTION.

GENERAL NOTES

1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO PREVENT ERODED SOIL FROM ENTERING DITCHES, STORM SEWERS, LAKES, STREETS OR ANY OTHER OTHER DRAINAGE FEATURE.
2. THIS SHEET IS INTENDED TO PROVIDE GUIDELINES AS TO WHAT TYPE OF EROSION CONTROL DEVICES WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS. CONTRACTORS ARE EXPECTED TO BID PROJECTS ACCORDINGLY.
3. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS TO REMAIN EFFECTIVE. MAINTENANCE SHALL BE AS INDICATED ON SOIL EROSION BMP'S DETAIL SHEETS.
4. PERSONS DESTROYING EROSION CONTROL DEVICES SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING THEM OR INSTALLING SUITABLE REPLACEMENT DEVICES.
5. THE DEVELOPMENT OF ANY SUBDIVISION THAT DISTURBS 1 ACRE OR MORE WILL REQUIRE A FEDERAL/STATE NPDES STORMWATER PERMIT. THE PREPARATION OF A STORMWATER POLLUTION PREVENTION PLAN IS REQUIRED. EROSION CONTROL DEVICES ARE REQUIRED. THE DETAILS SHOWN ON THIS SHEET ARE THE MINIMUM STANDARDS TO BE SHOWN ON POLLUTION PREVENTION PLANS.
6. FOR SUBDIVISIONS SMALLER THAN 1 ACRE, SOIL EROSION DEVICES ARE REQUIRED. ALSO, DEVELOPERS AND CONTRACTORS ARE ENCOURAGED TO DEVELOP POLLUTION PREVENTION PLANS FOR EACH PROJECT PRIOR TO CONSTRUCTION.
7. FAILURE TO USE AND MAINTAIN SOIL EROSION DEVICES IS A VIOLATION OF SECTION 16.32 OF THE CITY CODE AND WILL SUBJECT THE SUBDIVISION DEVELOPER AND CONTRACTORS TO THE PENALTIES PROVIDED THEREIN.
8. THE APPLICATION OF EROSION CONTROL DEVICES SHOWN ON THIS SHEET IS FOR SITUATIONS NORMALLY ENCOUNTERED. FROM TIME TO TIME, SITUATIONS WILL ARISE THAT MAY REQUIRE DEVICES OTHER THAN THAT SHOWN. EROSION CONTROL DEVICES, OTHER THAN THOSE SHOWN, MAY BE UTILIZED SO LONG AS THEY ARE EFFECTIVE AND MAINTAINED.
9. A STABILIZED EARTH SURFACE IS DEFINED AS ONE THAT IS HARD SURFACED WITH CONCRETE, ASPHALT, OR THE LIKE, OR ONE ON WHICH 70% OF THE GRASS HAS GERMINATED ON THE ENTIRE SURFACE.



CURB BACKFILL DETAIL
(STREET CONSTRUCTION ONLY)

THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

 CITY OF WICHITA PUBLIC WORKS & UTILITIES ENGINEERING DIVISION	SUBDIVISION DEVELOPMENT PROCESS		
	CITY ENGINEER GARY JANZEN, P.E.		
	PROJECT NUMBER 448-2023-038924	OCA NUMBER .	DATE 08/2012
	CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		SHEET 15 19

CLEAR RIDGE 2ND ADDITION

Wichita, Sedgwick County, Kansas



Curve Table			
Curve #	Length	Radius	Chord Length
C1	52.05	146.77	20.32
C2	168.72	175.66	55.03
C3	197.16	181.93	62.09
C4	66.61	168.00	22.72
C5	151.48	650.00	13.35
C6	105.29	450.00	13.41
C7	71.94	250.00	16.49
C8	157.08	100.00	90.00
C9	62.78	364.15	9.88
C10	100.33	396.15	14.51
C11	16.71	332.15	2.71

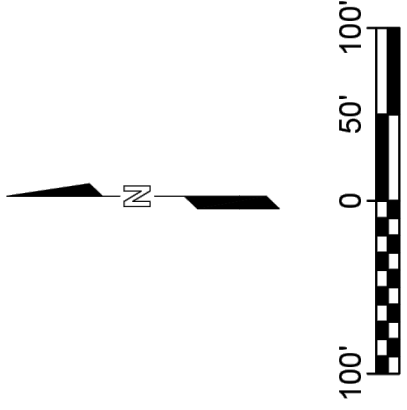
Parcel Line Table		
Line #	Length	Direction
L1	10.00	S1° 30' 06.72"E
L2	50.00	N18° 19' 55.67"E
L3	13.08	N82° 26' 24.09"W
L4	13.08	N82° 26' 24.09"W
L5	17.54	N54° 01' 36.01"W
L6	16.78	N25° 39' 50.35"E
L7	21.00	S17° 15' 35.46"W
L8	77.31	N89° 13' 42.41"W
L9	37.76	S72° 44' 24.54"E
L10	124.18	N86° 09' 45.29"W
L11	122.35	S72° 44' 24.54"E
L12	216.41	N17° 15' 35.46"E
L13	32.00	S55° 31' 05.20"W

MINIMUM BUILDING PAD OPENING INTO STRUCTURES		
BLOCK	LOT NO.	ELEVATION (NAVDB89)
B	6-11	1312.0
B	12	1312.5
B	13-19	1312.5
B	20-26	1317.0
B	27-29	1318.0
D	53-55	1320.0
D	56-58	1321.0
D	59-65	1322.0

BENCHMARKS
BENCHMARK #1: SQ CUT W/IDVOT NE CURB RETURN
CESSNA AND SPRING HOLLOW
ELEVATION = 1316.40 (NAVDB88, G12A)
BENCHMARK #2: SQ CUT W/IDVOT EAST TOP OF
CURB 170 FT ± NORTH OF INTERSECTION OF WILLOW
OAK AND SPRING HOLLOW.
ELEVATION = 1322.58 (NAVDB88, G12A)

- SURVEY MARKER LEGEND**
- 1/2" REBAR (FOUND - ORIGIN UNKNOWN)
 - ⊗ 1/2" REBAR W/SAVOY CAP (FOUND)
 - ⊗ 5/8" REBAR (FOUND - ORIGIN UNKNOWN)
 - ⊗ 5/8" REBAR W/UNREADABLE CAP (FOUND - ORIGIN UNKNOWN)
 - MONUMENT TO BE SET WITH STREET CONSTRUCTION PROJECT BY THE STREET DESIGNER
 - ✱ 1/2" REBAR W/ GARVER CAP (SET)
 - ⬤ BENCHMARK

PDF NOT TO SCALE
(BASIS) = Basis of Bearings = Kansas Coordinate System of 1983 South Zone Grid Bearing
N = Measured
D = Described
Unless otherwise shown, all dimensions are Platted



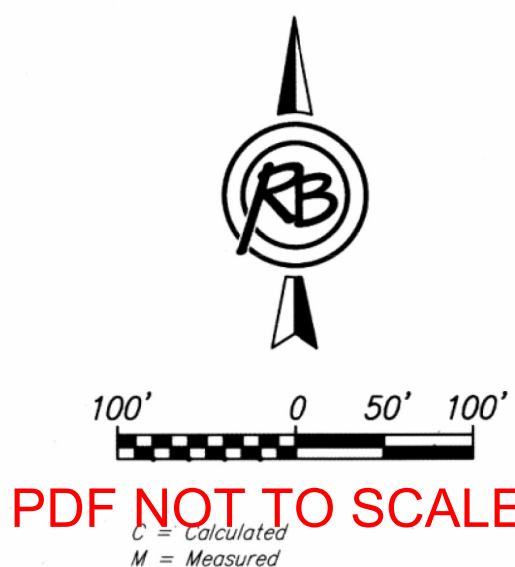
CLEAR RIDGE ADDITION

Wichita, Sedgwick County, Kansas



BENCHMARK: CHISELED SQUARE ON THE TOP OF CURB ON THE SOUTH END OF THE MEDIAN OF IRONSTONE, 55' N. OF THE CENTERLINE OF PAWNEE, SIERRA HILLS 2ND ADDITION, ELEVATION = 1320.03 (NAVD88, G12A)

ON-SITE BENCHMARK: SRB BRASS DISC 340' W. & 50' S. OF THE CENTERLINE INTERSECTION PAWNEE AVENUE & 143RD STREET EAST, ELEVATION = 1315.65 (NAVD88, G12A)



PDF NOT TO SCALE

- SURVEY MARKER LEGEND**
- 3/4" IRON PIPE (FOUND, ORIGIN UNKNOWN)
 - 1/2" REBAR W/L.D. HIGH CAP (FOUND)
 - 5/8" CAPPED REBAR (FOUND, ORIGIN UNKNOWN)
 - 5/8" REBAR W/RUGGLES & BOHM CAP (SET)
 - BM BENCHMARK

SHEET 1 OF 2

MINIMUM BUILDING PAD ELEVATION FOR LOWEST OPENING INTO STRUCTURES		
BLOCK	LOT NO.	ELEVATION (NAVD88)
4	13, 14, 15, 16, 17, 18	1317.7
	19, 20, 21, 22, 23	
	24, 25, 26, 27, 28	
6	1, 2, 3, 4, 5	1320.7
	21, 22, 23, 24, 25	
	26, 27, 28, 29	
6	6, 7, 8, 9, 10, 11	1324.7
	12, 13, 14, 15, 16	
	17, 18, 19, 20	
7	28, 29, 30	1319.7
7	33, 34, 35, 36, 37	1315.4
	38, 39, 40, 41, 42	
7	43, 44	1315.1

LOWEST PERMITTED FLOOR ELEVATION UNLESS THE LOT IN QUESTION HAS BEEN REMOVED FROM THE FLOOD PLAIN		
BLOCK	LOT NO.	ELEVATION (NAVD88)
4	3, 4, 5	1313.0
4	6, 7, 8, 9, 10, 11	1314.1
4	12, 13, 14	1315.0
4	31, 32, 33	1317.10
4	34, 35, 36	1318.0
6	1, 24, 25, 26, 27, 28, 29	1319.1
6	34, 35, 36	1318.0
7	34, 35, 36	1315.0

State of Kansas)
Sedgwick County) SS

We, Ruggles & Bohm, P.A., Land Surveyors in aforesaid county and state, do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "CLEAR RIDGE ADDITION", Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows:

The Northeast Quarter of Section 2, Township 28 South, Range 2 East of the Sixth Principal Meridian, Sedgwick County, Kansas, EXCEPT the east half of the east half of the east half of said quarter, AND EXCEPT that part described as beginning at the Northwest corner of said Northeast Quarter; thence N89°17'54"E along the north line of said Northeast Quarter, 1228.84 feet; thence S00°42'06"E, 60.00'; thence S09°13'52"W, 46.82 feet; thence S60°01'28"E, 221.92 feet; thence S22°10'57"W, 332.65 feet; thence S38°41'55"W, 234.78 feet; thence N86°24'07"W, 688.34 feet; thence S32°19'24"W, 147.73 feet; thence S63°58'56"W, 226.31 feet; thence S14°29'46"W, 151.88 feet; thence S55°03'36"W, 181.23 feet to the west line of said Northeast Quarter; thence N00°43'06"E along said west line, 1125.13 feet to the place of beginning.

All public easements and dedications are hereby vacated by virtue of K.S.A. 12-512b, as amended.

Ruggles & Bohm, P.A.



Land Surveyor
William K. Clevenger

Know all men by these presents that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into Lots, Blocks, Reserves and Streets, to be known as "CLEAR RIDGE ADDITION", Wichita, Sedgwick County, Kansas. Access Controls as indicated are hereby granted to the appropriate governing body. The streets are hereby dedicated to and for the use of the public. Utility Easements are hereby granted for the construction and maintenance of all public utilities. Drainage Easements are hereby granted to the public as indicated for drainage purposes. Reserves "A" and "B" are hereby reserved for irrigation, and entry features. Reserves "C" and "D" are hereby reserved for irrigation, walls, walks, lighting, signage, landscaping, berms, drainage, and utilities confined to easements. Reserves "I" and "J" are hereby reserved for irrigation, walls, walks, lighting berms, drainage, and utilities confined to easements. Reserves "E", "F", "G" and "H" are hereby reserved for irrigation, walls, gazebos, playground structures, picnic areas/ tables with canopies, walks, lighting, landscaping, berms, lakes, drainage, drainage structures, and utilities confined to easements. Reserve "K" is hereby reserved for walks, lighting, landscaping, drainage, drainage structures and utilities. The Reserves are to be owned and maintained by the Home Owners Association for the addition. The temporary turnaround easements on Spring Hollow and Wassall are hereby granted for the use of the public, and will expire upon extension of the street beyond the limits of this plat. A drainage plan has been developed for this plat; the property shall remain at established grades, or as modified with the approval of the City Engineer, and unobstructed to allow for the conveyance of storm water.

Stephen G. Miller
Sally E. Miller

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this 4th day of August, 2017, by Stephen G. Miller and Sally E. Miller.

Notary Public

My appointment expires 11-28-2019



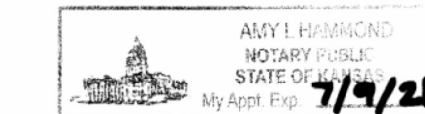
We the undersigned, holders of a mortgage on a portion of the above described property, do hereby consent to this plat of "CLEAR RIDGE ADDITION" Wichita, Sedgwick County, Kansas.

Garden Plain State Bank

Patrick F. Walden
President

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me this 4th day of August, 2017, by Patrick F. Walden, President of Garden Plain State Bank on behalf of the Bank.



Amy X. Hammond
Notary Public
My appointment expires 7/9/21

This plat of "CLEAR RIDGE ADDITION", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 23rd day of October, 2008.

Wichita-Sedgwick County Metropolitan Area Planning Commission
Chairman
David W. Foster
Secretary
Dale Miller

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 22 day of August, 2017.

At the Direction of the City Council
Jeff Longwell
Mayor
Karen Sublett
City Clerk

Reviewed in accordance with K.S.A. 58-2005 on this 9th day of August, 2017.

Deputy County Surveyor
Sedgwick County Kansas
Robella, PS #1246

Entered on transfer record this 8th day of January, 2018.
Kelly B. Arnold
Clerk

State of Kansas)
Sedgwick County) SS

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this 23rd day of January, 2017, at 2:02:55 o'clock P. M., and is duly recorded.

Tonya Buckingham
Register of Deeds

Judy J. Paget
Deputy

Register of Deeds - Tonya Buckingham
Doc #/Fil#-Pg: 23745904
Recording Fee: \$64.00
Date Recorded: 01/23/2018 02:02:55 PM

FOR INFORMATION ONLY

RUGGLES
BOHM

DWG FILE: 3018P SURVEY BASE
PROJECT NO. 3018P
AUGUST 3, 2017
ENGINEERING | SURVEYING | LANDSCAPE ARCHITECTURE | GOVERNMENT
924 NORTH MAIN WICHITA, KANSAS 67203 P (316) 264-8008 F (316) 264-4621
WWW.RBKANSAS.COM

PC 267-10A

CLEAR RIDGE ADDITION

Wichita, Sedgwick County, Kansas



PDF NOT TO SCALE

C = Calculated
M = Measured

SURVEY MARKER LEGEND

- ⊙ 3/4" IRON PIPE (FOUND, ORIGIN UNKNOWN)
- ⊗ 1/2" REBAR W/L.D. HIGH CAP (FOUND)
- ⊙ 5/8" CAPPED REBAR (FOUND, ORIGIN UNKNOWN)
- ⊙ 5/8" REBAR W/RUGGLES & BOHM CAP (SET)
- ⊙ BENCHMARK

BENCHMARK: CHISELED SQUARE ON THE TOP OF CURB ON THE SOUTH END OF THE MEDIAN OF IRONSTONE, 55' N. OF THE CENTERLINE OF PAWNEE, SIERRA HILLS 2ND ADDITION, ELEVATION = 1320.03 (NAVD88, G12A)

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7	33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44	1315.4
7	45, 46, 47, 48, 49, 50	1315.1

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4	34, 35, 36	1318.0
6	1, 24, 25, 26, 27, 28, 29	1319.1
6	34, 35, 36	1318.0
7	34, 35, 36	1315.0

FOR INFORMATION ONLY



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