

SANITARY SEWER MAIN IMPROVEMENTS

to serve

YELLOWSTONE ADDITION

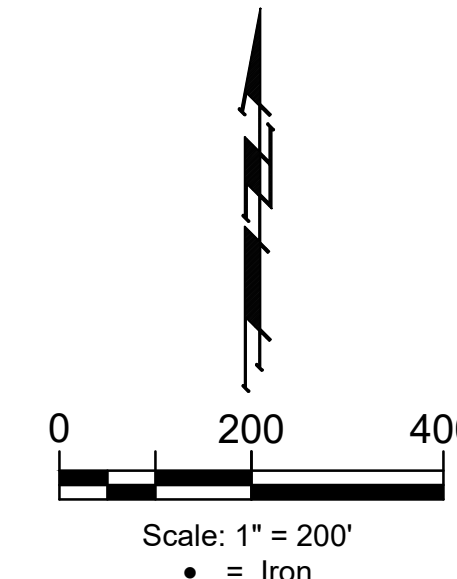
CITY OF WICHITA, KANSAS

Paul Gunzelman, P.E., City Engineer

Project Number: 468-2025-005438

Org. Code: 53200125

Munis #: S5006



SHEET INDEX

Title Sheet	1
Line 1	2-4
Erosion Control Plan	5
Erosion Control BMP Details	6-10
Precast Manhole Detail	11
Frame & Cover Detail	12
Coordinate Sheet	13
Copy of Plat	14-15

GENERAL NOTES:

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

Kansas One-Call	687-2470
-----------------	----------

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

Cox Communications	262-4270
Kansas Gas Service	1-888-482-4950
Eergy	383-8650
Black Hills Energy	1-800-303-0357
A/T&T	268-2245
City of Wichita Water Dept.	268-4563
City of Wichita Storm Sewer Maint.	268-4024
City of Wichita Traffic Maint.	268-4090
Conoco Phillips Pipeline Co.	268-4034
Southern Star Pipeline Co.	1-877-267-2290
Kinder-Morgan Pipeline Co.	529-6600
	1-888-844-5658
- Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
- 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.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
- The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
- All existing and proposed erosion control measures including silt fencing, erosion control mat, straw bales, inlet barriers, and const. entrance shall be maintained throughout construction by the contractor and until project is accepted by the City of Wichita. The on-site engineer shall complete weekly reports on the status of erosion control measures. The contractor shall be required to comply with maintenance and/or replacement of erosion control measures as determined by the on-site engineer until project is accepted by 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 disturbed by construction are to be seeded as follows:
Seed -- Rye grass; 5 lbs./1000 Sq. Ft.

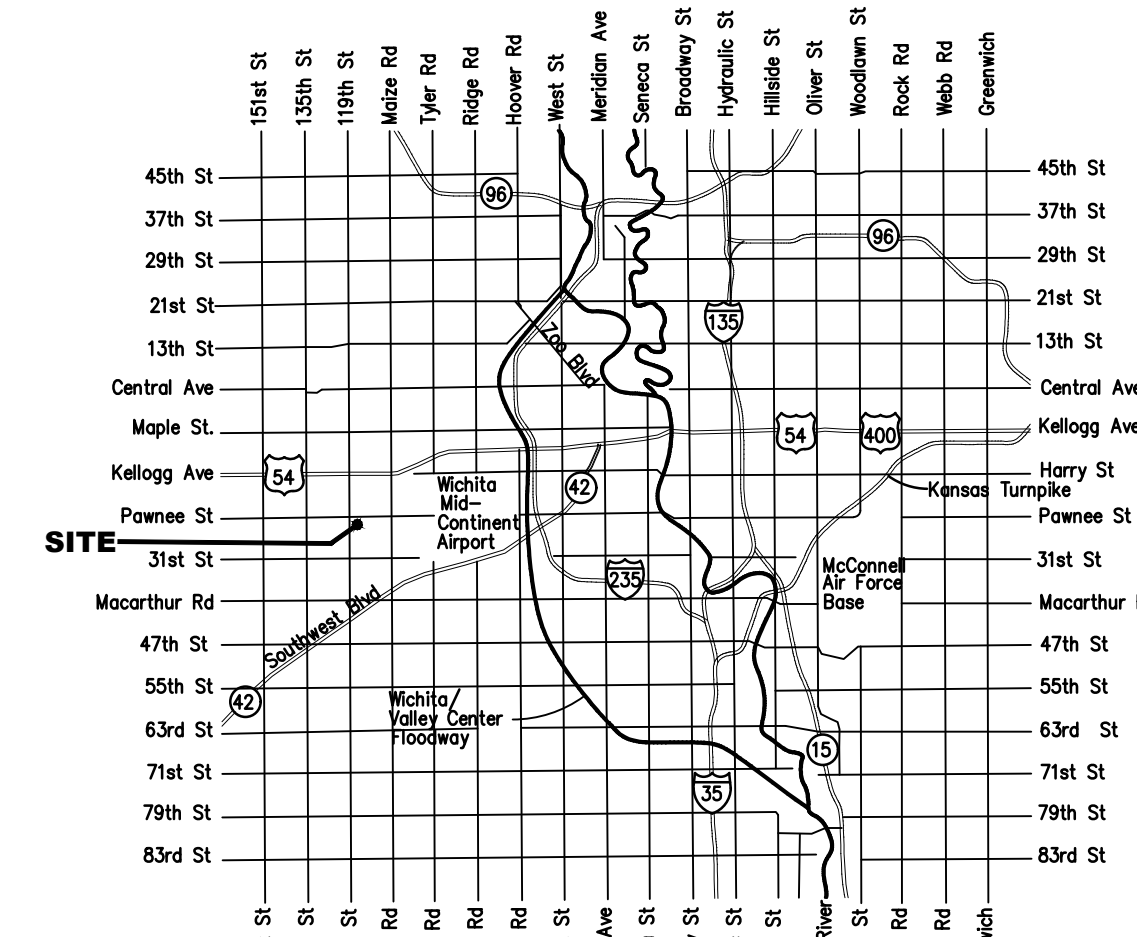
All costs associated with seeding including obilization, preparation of ground, seeding, fertilizing, mulching, etc. shall be included in the L.S. bid item "Seeding".
- Trees and shrubs in the work area which are in direct conflict with proposed new construction shall be removed by the Contractor only as necessary for construction. 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.

BENCHMARKS:

BM #1: Cross southwest corner of curb inlet, south side of Pawnee, 178± east of northeast corner of Lot 3, Block A
Elevation = 1331.25 NAVD88

BM #2: square cut northwest corner of curb inlet west side of 119th St W, 100± south of northwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
Elevation = 1338.39 NAVD88

BM #3: cross cut south end of RCP west side of 119th St W, 12± north of southwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
Elevation = 1334.57 NAVD88



VICINITY MAP



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

E:\Projects\Yellowstone Addition\Kelsey_25-09-P2025\Engineering\SS MAIN\SSMAIN.dwg

BENCHMARKS:
 BM #1: Cross southwest corner of curb inlet, south side of Pawnee, 178'± east of northeast corner of Lot 3, Block A
 Elevation = 1331.25 NAVD88

BM #2: square cut northwest corner of curb inlet west side of 119th St W, 100'± south of northwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1338.39 NAVD88

BM #3: cross cut south end of RCP west side of 119th St W, 12'± north of southwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1334.57 NAVD88

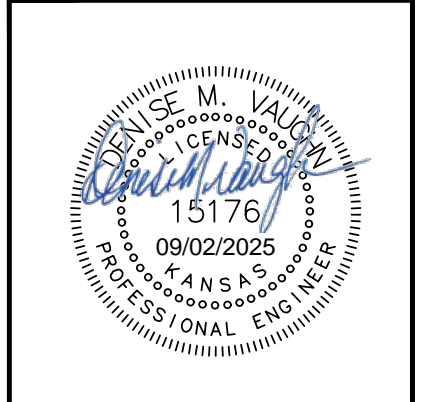
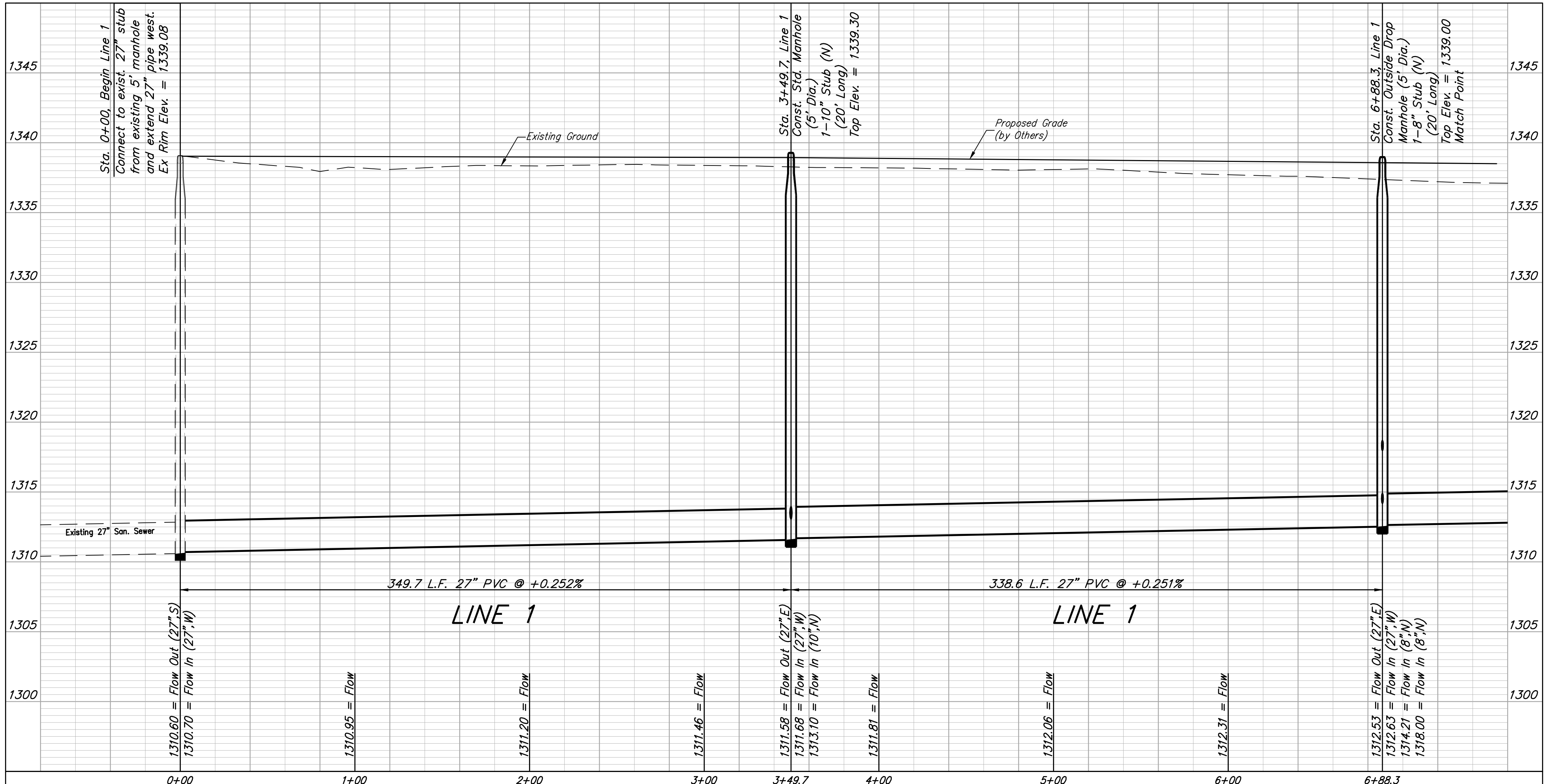
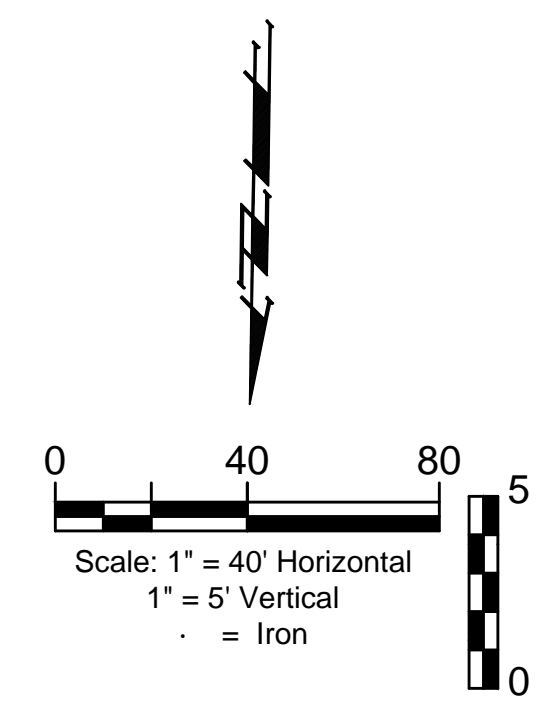
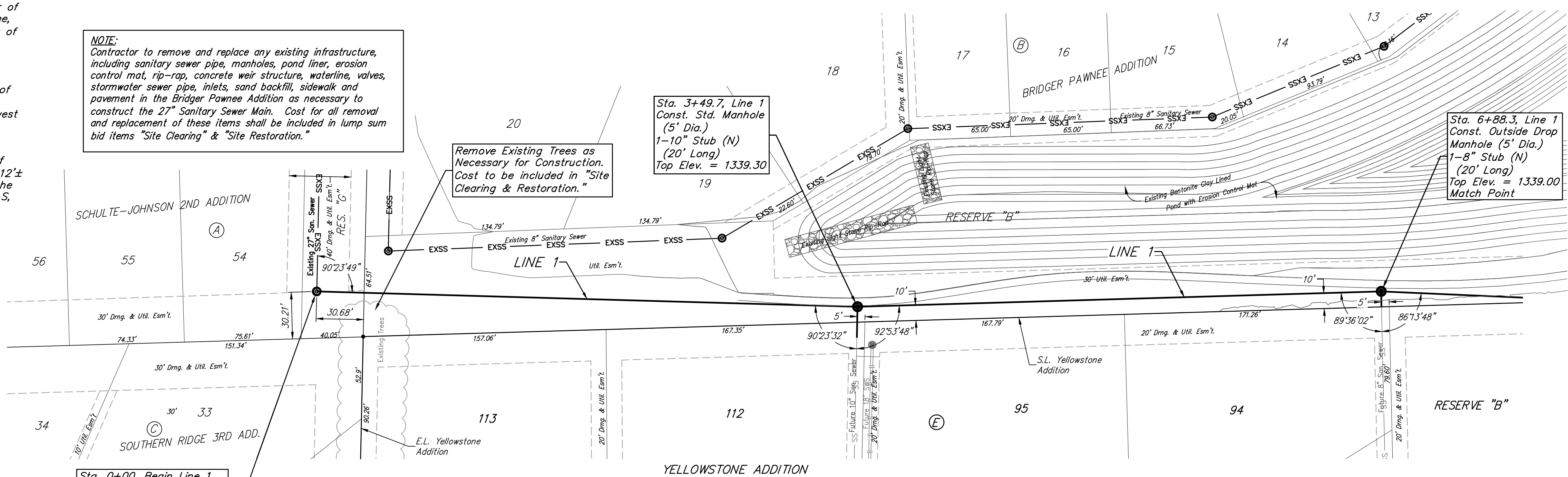
NOTE:
 Contractor to remove and replace any existing infrastructure, including sanitary sewer pipe, manholes, pond liner, erosion control mat, rip-rap, concrete weir structure, waterline, valves, stormwater sewer pipe, inlets, sand backfill, sidewalk and pavement in the Bridger Pawnee Addition as necessary to construct the 27" Sanitary Sewer Main. Cost for all removal and replacement of these items shall be included in lump sum bid items "Site Clearing" & "Site Restoration."

Remove Existing Trees as Necessary for Construction. Cost to be included in "Site Clearing & Restoration."

Sta. 3+49.7, Line 1
 Const. Std. Manhole (5' Dia.)
 1-10" Stub (N)
 (20' Long)
 Top Elev. = 1339.30

Sta. 6+88.3, Line 1
 Const. Outside Drop Manhole (5' Dia.)
 1-8" Stub (N)
 (20' Long)
 Top Elev. = 1339.00
 Match Point

Sta. 0+00, Begin Line 1
 Connect to exist. 27" stub from existing 5' manhole and extend 27" pipe west. Ex Rim Elev. = 1339.08
 Contractor to verify depth and location of existing stub prior to construction.



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

YELLOWSTONE ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER: 468-2025-005438

DESIGN: DMV DRAWN: JAK

DATE: July 21, 2025

SHEET OF 2R 15

Revised 9/2/25 DMV Addition of Existing Bridger Pawnee Addition Infrastructure, Re-Alignment

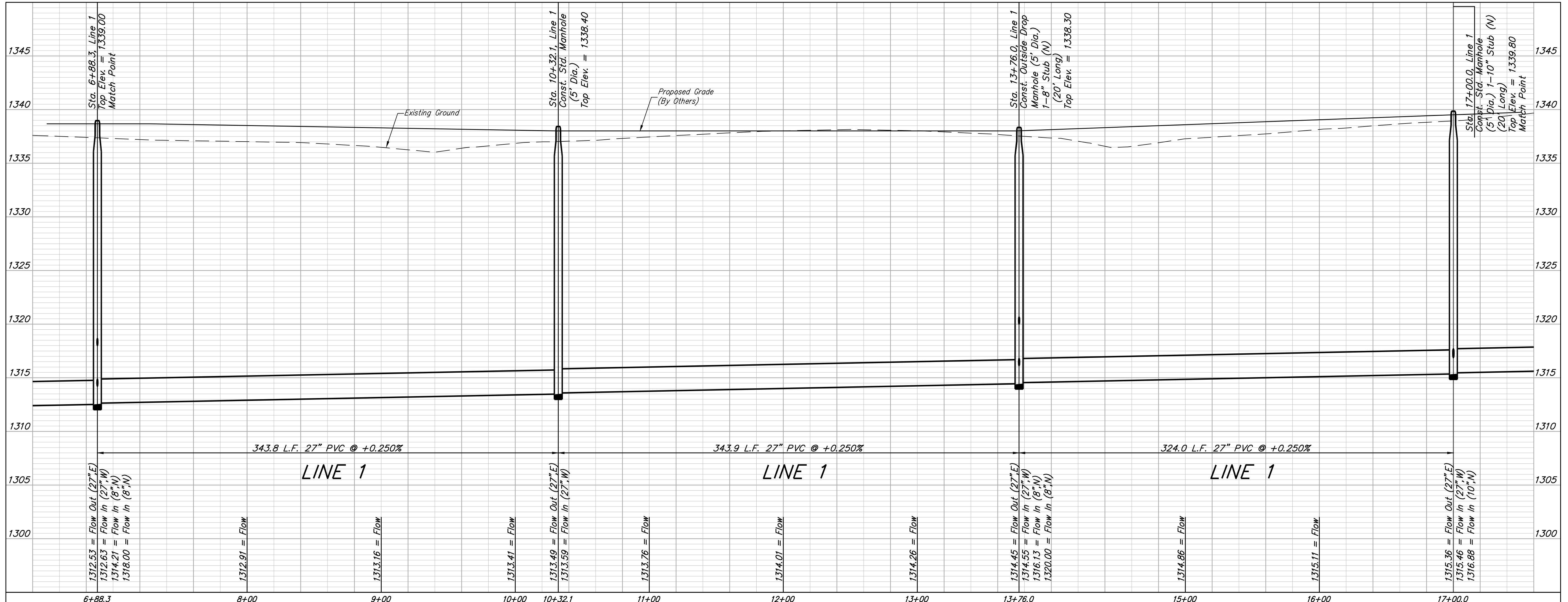
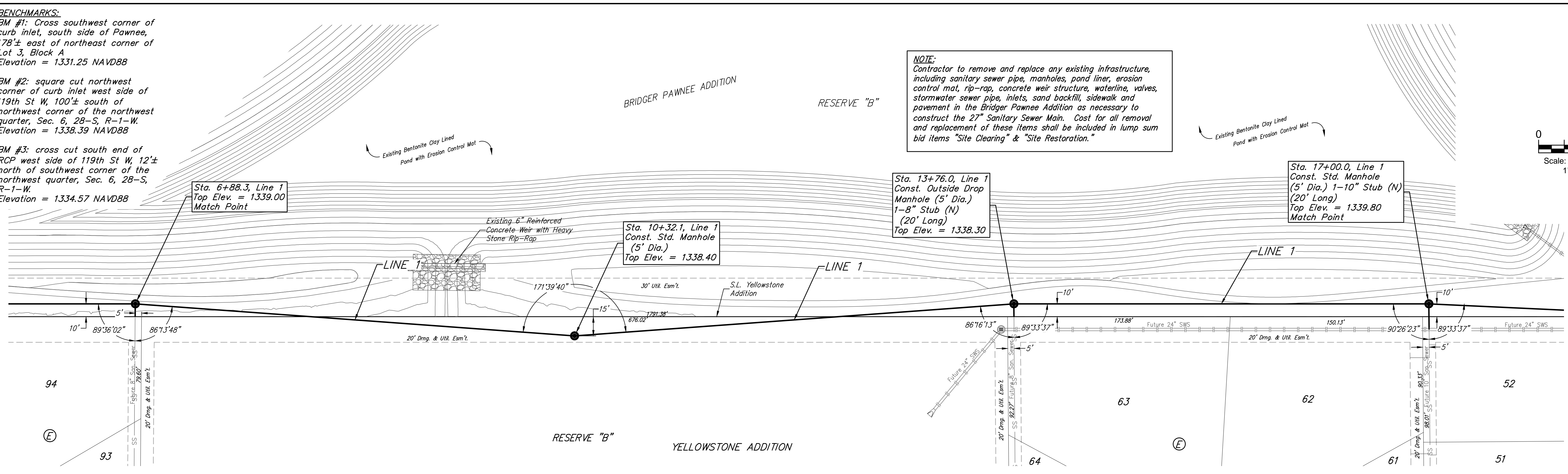
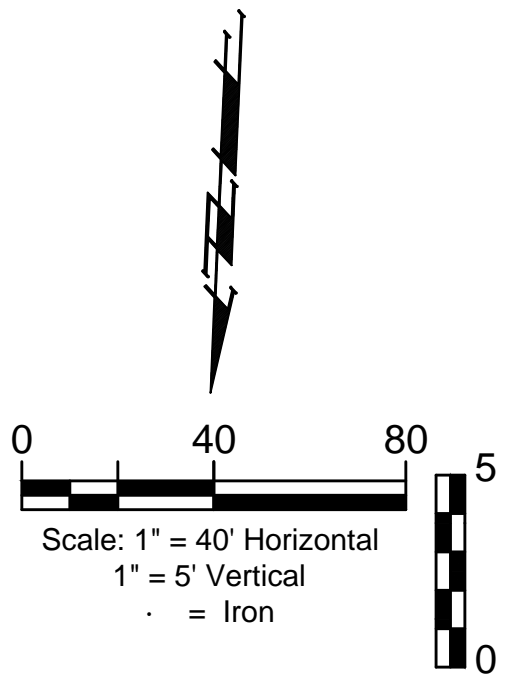
File: E:\Projects\Yellowstone Addition\Kelsey_23-09-P926\Engineering\SS MAIN\SSMAIN.dwg

BENCHMARKS:
 BM #1: Cross southwest corner of curb inlet, south side of Pawnee, 178'± east of northeast corner of Lot 3, Block A
 Elevation = 1331.25 NAVD88

BM #2: square cut northwest corner of curb inlet west side of 119th St W, 100'± south of northwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1338.39 NAVD88

BM #3: cross cut south end of RCP west side of 119th St W, 12'± north of southwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1334.57 NAVD88

NOTE:
 Contractor to remove and replace any existing infrastructure, including sanitary sewer pipe, manholes, pond liner, erosion control mat, rip-rap, concrete weir structure, waterline, valves, stormwater sewer pipe, inlets, sand backfill, sidewalk and pavement in the Bridger Pawnee Addition as necessary to construct the 27" Sanitary Sewer Main. Cost for all removal and replacement of these items shall be included in lump sum bid items "Site Clearing" & "Site Restoration."



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

YELLOWSTONE ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
468-2025-005438

DESIGN: DMV DRAWN: JAK

DATE: July 21, 2025

SHEET OF
3R 15

Revised 9/2/25 DMV Addition of Existing Bridger Pawnee Addition Infrastructure, Re-Alignment

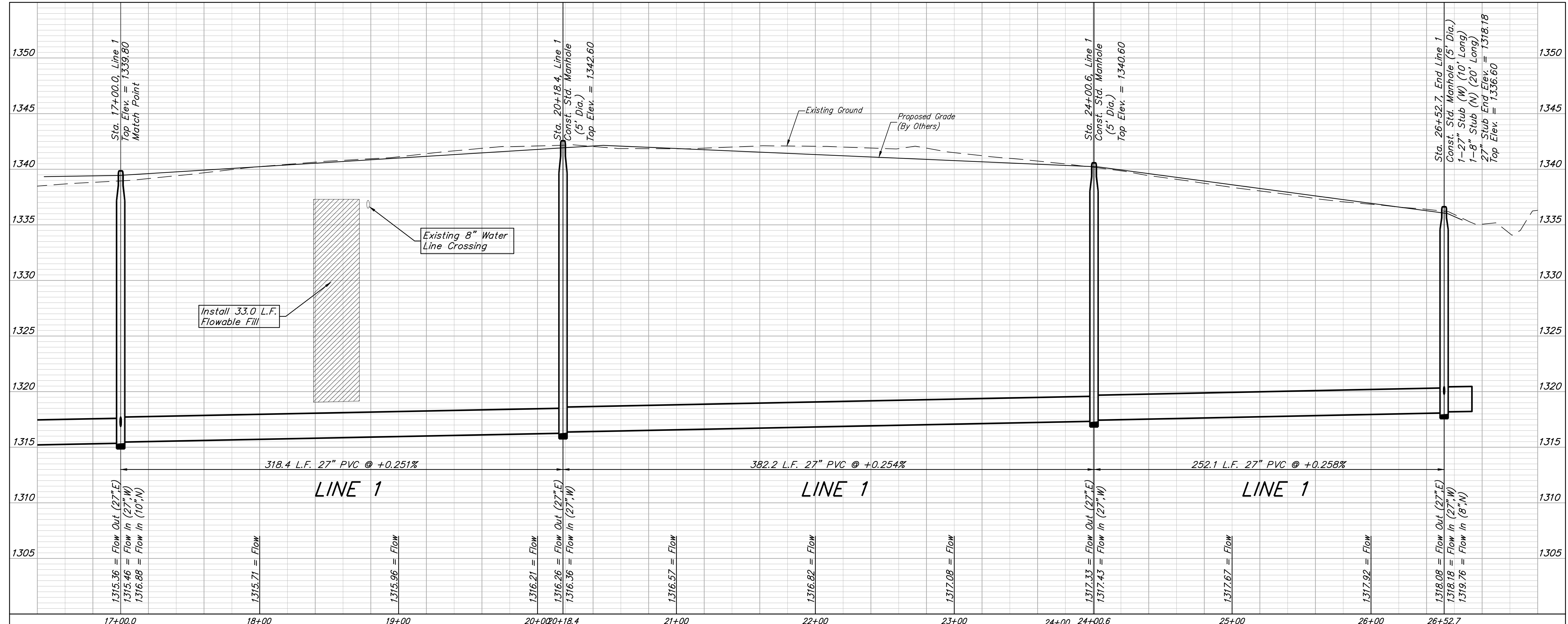
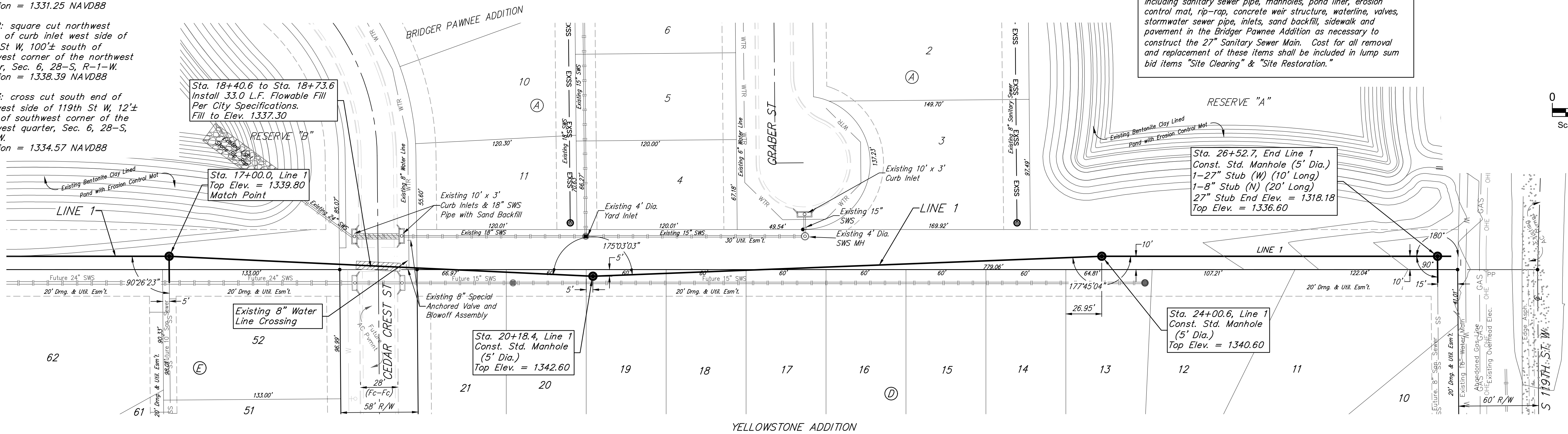
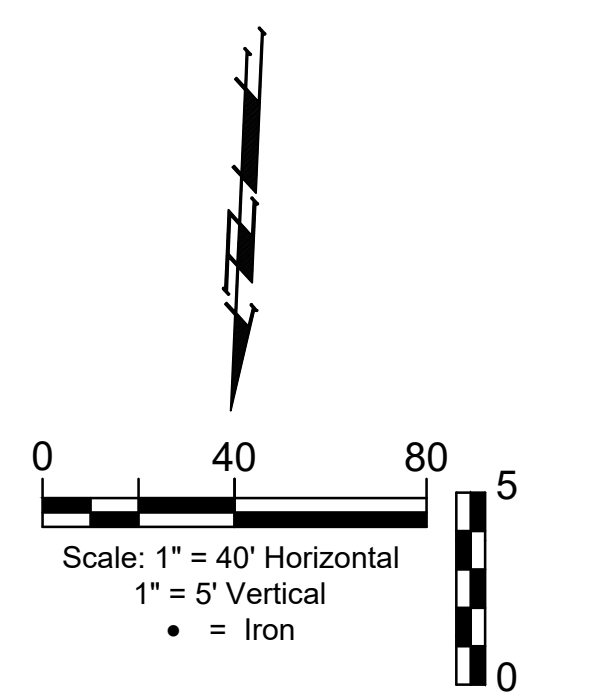
File: E:\Projects\Yellowstone Addition\Kelsey_23-09-P926\Engineering\SS MAIN\SSMAIN.dwg

BENCHMARKS:
 BM #1: Cross southwest corner of curb inlet, south side of Pawnee, 178± east of northeast corner of Lot 3, Block A
 Elevation = 1331.25 NAVD88

BM #2: square cut northwest corner of curb inlet west side of 119th St W, 100± south of northwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1338.39 NAVD88

BM #3: cross cut south end of RCP west side of 119th St W, 12± north of southwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1334.57 NAVD88

NOTE:
 Contractor to remove and replace any existing infrastructure, including sanitary sewer pipe, manholes, pond liner, erosion control mat, rip-rap, concrete weir structure, waterline, valves, stormwater sewer pipe, inlets, sand backfill, sidewalk and pavement in the Bridger Pawnee Addition as necessary to construct the 27" Sanitary Sewer Main. Cost for all removal and replacement of these items shall be included in lump sum bid items "Site Clearing" & "Site Restoration."



Revised 9/2/25 DMV Addition of Existing Bridger Pawnee Addition Infrastructure, Re-Alignment

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

YELLOWSTONE ADDITION

LINE 1

SANITARY SEWER IMPROVEMENTS

PROJECT NUMBER:
468-2025-005438

DESIGN: DMV DRAWN: JAK
 DATE: July 21, 2025

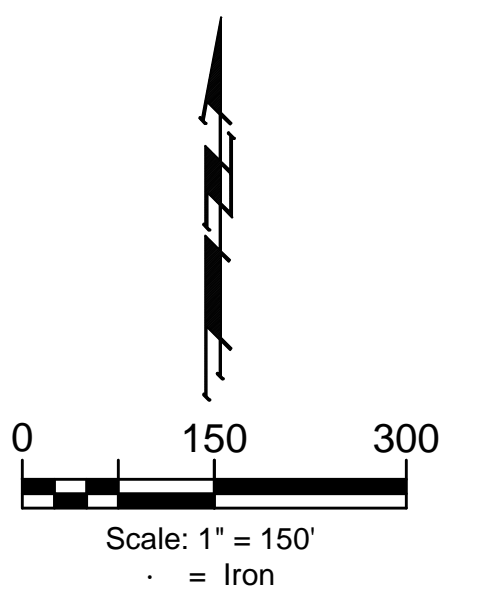
SHEET OF
4R 15

File: E:\Projects\Yellowstone Addition\Keelley_23-09-P928\Engineering\SS MAIN\SSMAIN.dwg

BENCHMARKS:
 BM #1: Cross southwest corner of curb inlet, south side of Pawnee, 178'± east of northeast corner of Lot 3, Block A
 Elevation = 1331.25 NAVD88

BM #2: square cut northwest corner of curb inlet west side of 119th St W, 100'± south of northwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1338.39 NAVD88

BM #3: cross cut south end of RCP west side of 119th St W, 12'± north of southwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1334.57 NAVD88



Existing Ground - - - - - 1364 - - - - -

EROSION CONTROL MEASURE	INSTALL	MAINTAIN
CONSTRUCTION ENTRANCE (EA)	1	0

* ALL EXISTING BMPs INCLUDING CONSTRUCTION ENTRANCE, SEDIMENT BARRIERS, SILT FENCE, CUT-OFF TRENCH, AND EROSION CONTROL MAT SHALL BE MAINTAINED AND REPAIRED IF NECESSARY.

- NOTES:**
- Contractor shall make sure all erosion control is in place before project is accepted. This plan represents the minimum standard. Any additional erosion control measures shall be installed by the Contractor as needed.
 - All areas disturbed during construction shall be seeded, mulched, and fertilized as per Cover Sheet General Notes.

Install 50'x12' Gravel Construction Entrance.

ALAN GIRRENS
 2659 S 119TH W
 WICHITA, KS 67215-9103





BAUGHMAN COMPANY

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

YELLOWSTONE ADDITION

EROSION CONTROL

SANITARY SEWER IMPROVEMENTS

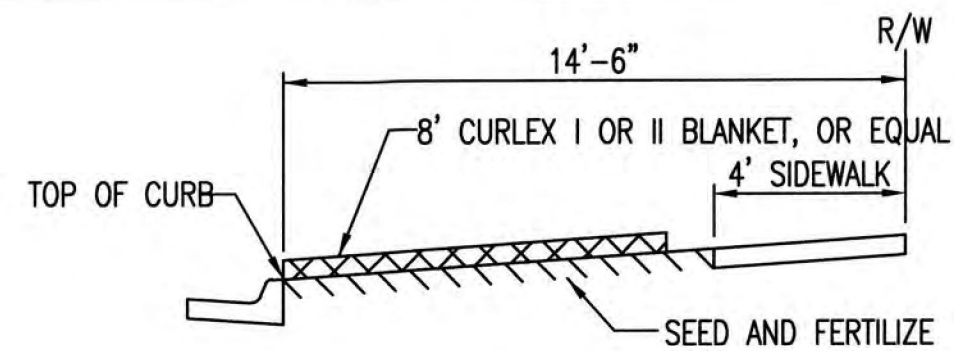
PROJECT NUMBER:
 468-2025-005438

DESIGN: DMV DRAWN: JAK

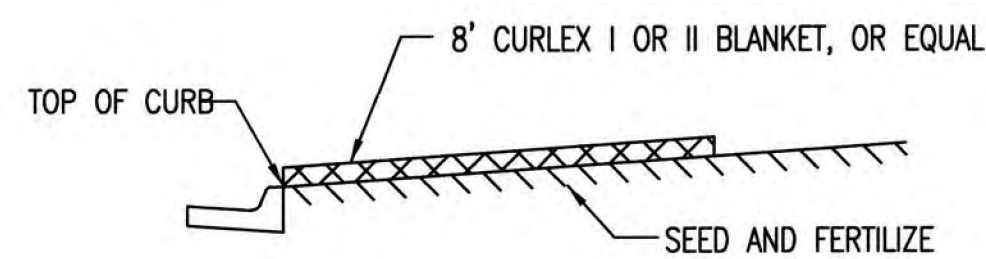
DATE: May 19, 2025

SHEET OF
 5 15

File: E:\Projects\Yellowstone Addition\Kelsey_23-09-P926\Engineering\SS MAIN\SSMAIN.dwg

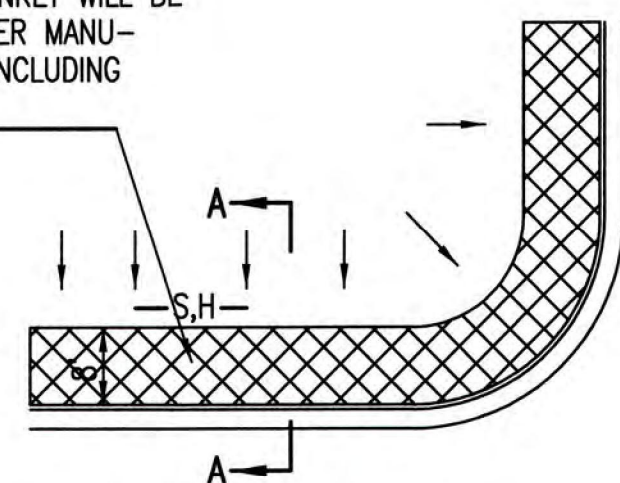


SECTION B-B

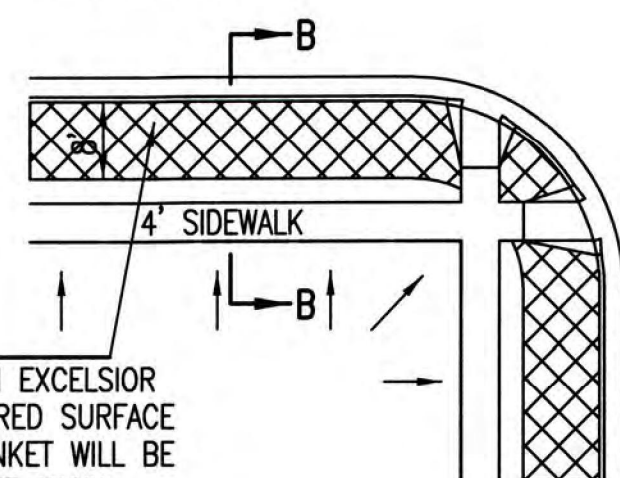


SECTION A-A

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

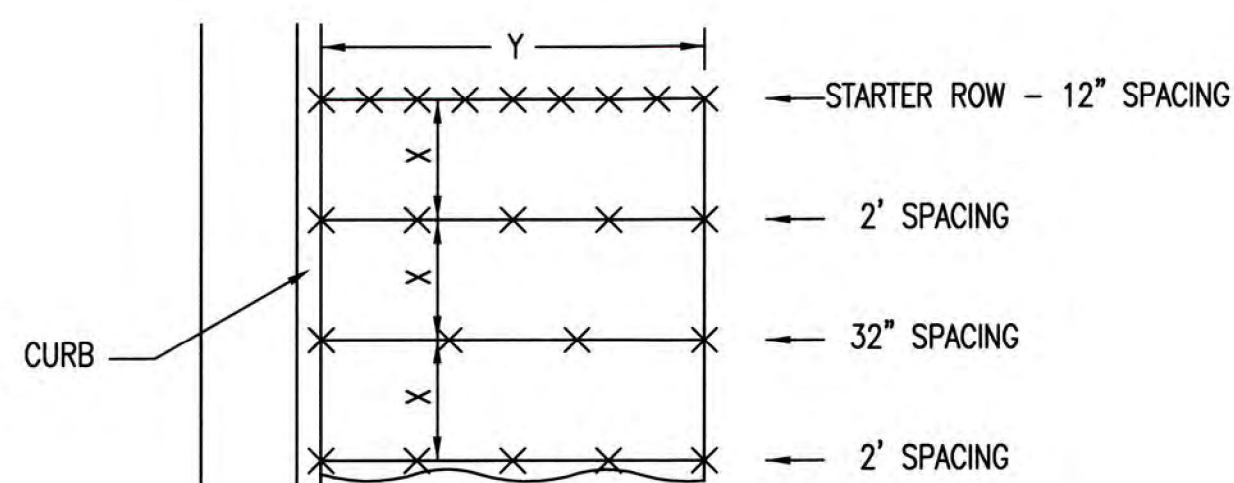


INSTALL 8' WIDE CURLEX I OR II EXCELSIOR BLANKET, OR EQUAL, ON PREPARED SURFACE BACK OF CURB. EDGE OF BLANKET WILL BE AT BACK OF CURB. INSTALL PER MANUFACTURERS RECOMMENDATION, INCLUDING STAPLES. (SEE DETAIL)

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.

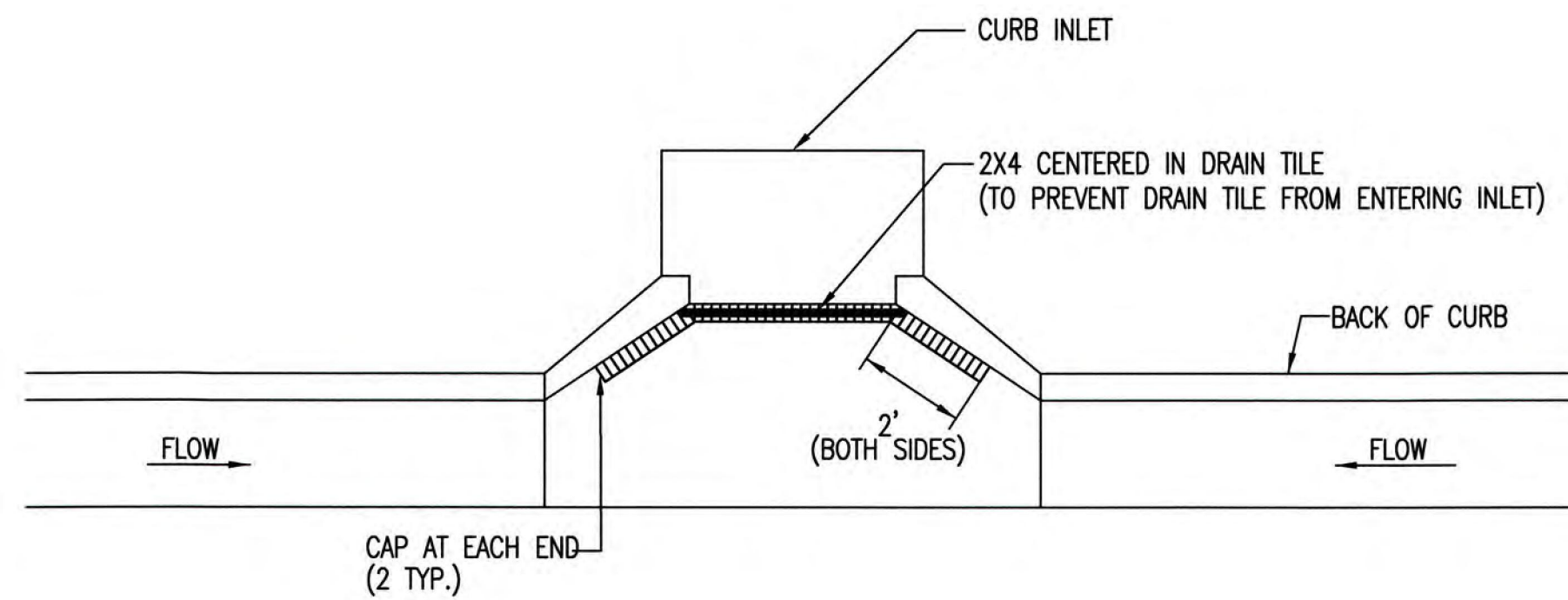
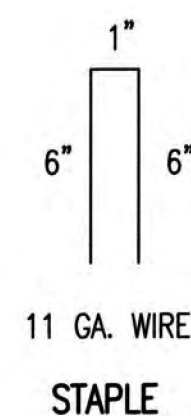
BACK OF CURB PROTECTION DETAIL



STAPLE PATTERN

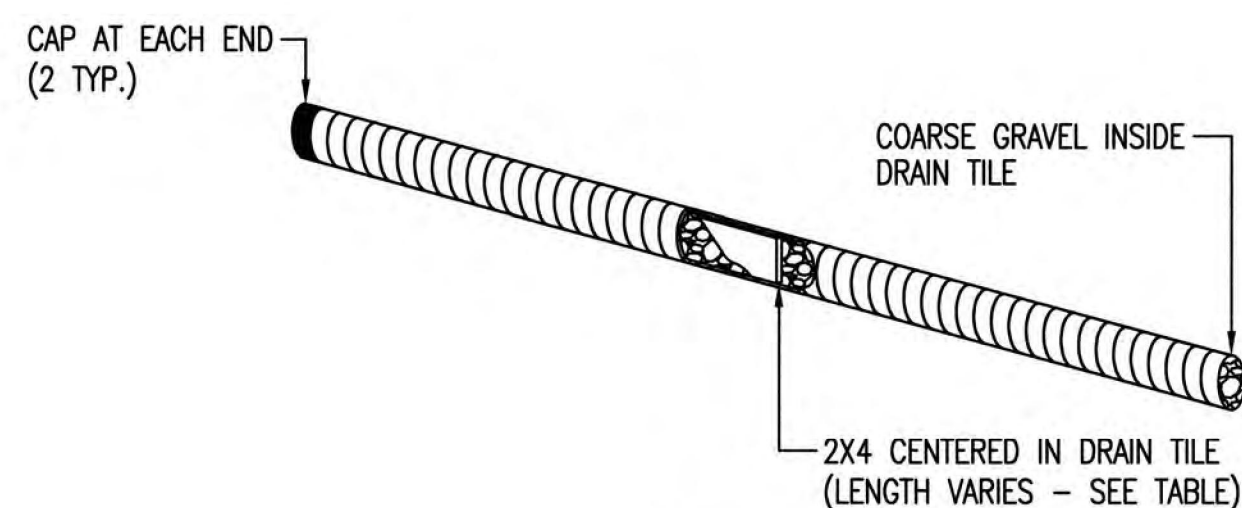
NOTES: USE 6" SEAM OVERLAP
(X & Y = RECOMMENDED BY MANUFACTURE)

DETAILS FOR APPROVED EROSION CONTROL MAT

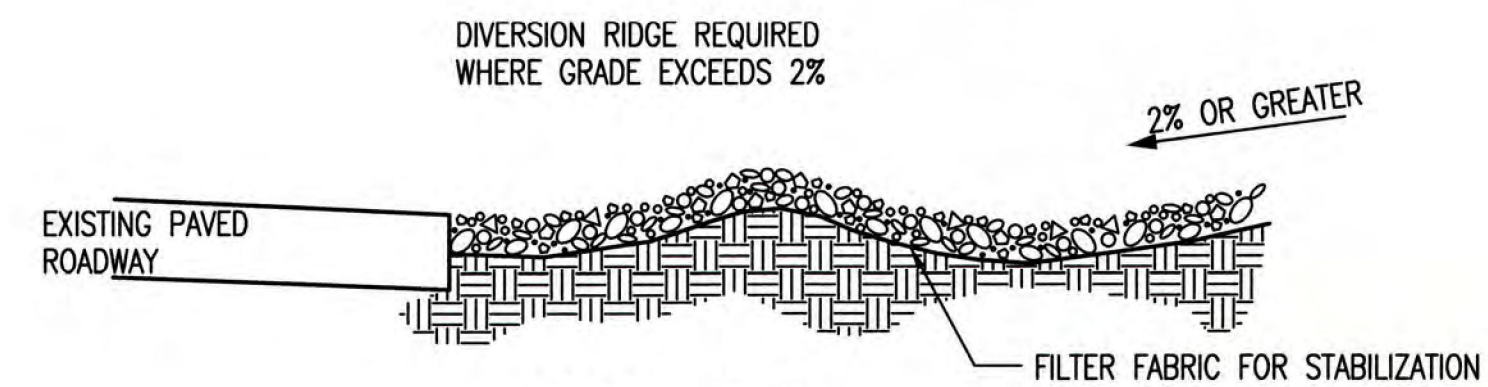


NOTE: PLACE 4" PERFORATED PVC PIPE, FILLED WITH 1/2"-1" DIA. GRAVEL, IN FRONT OF CURB INLET AS SHOWN.

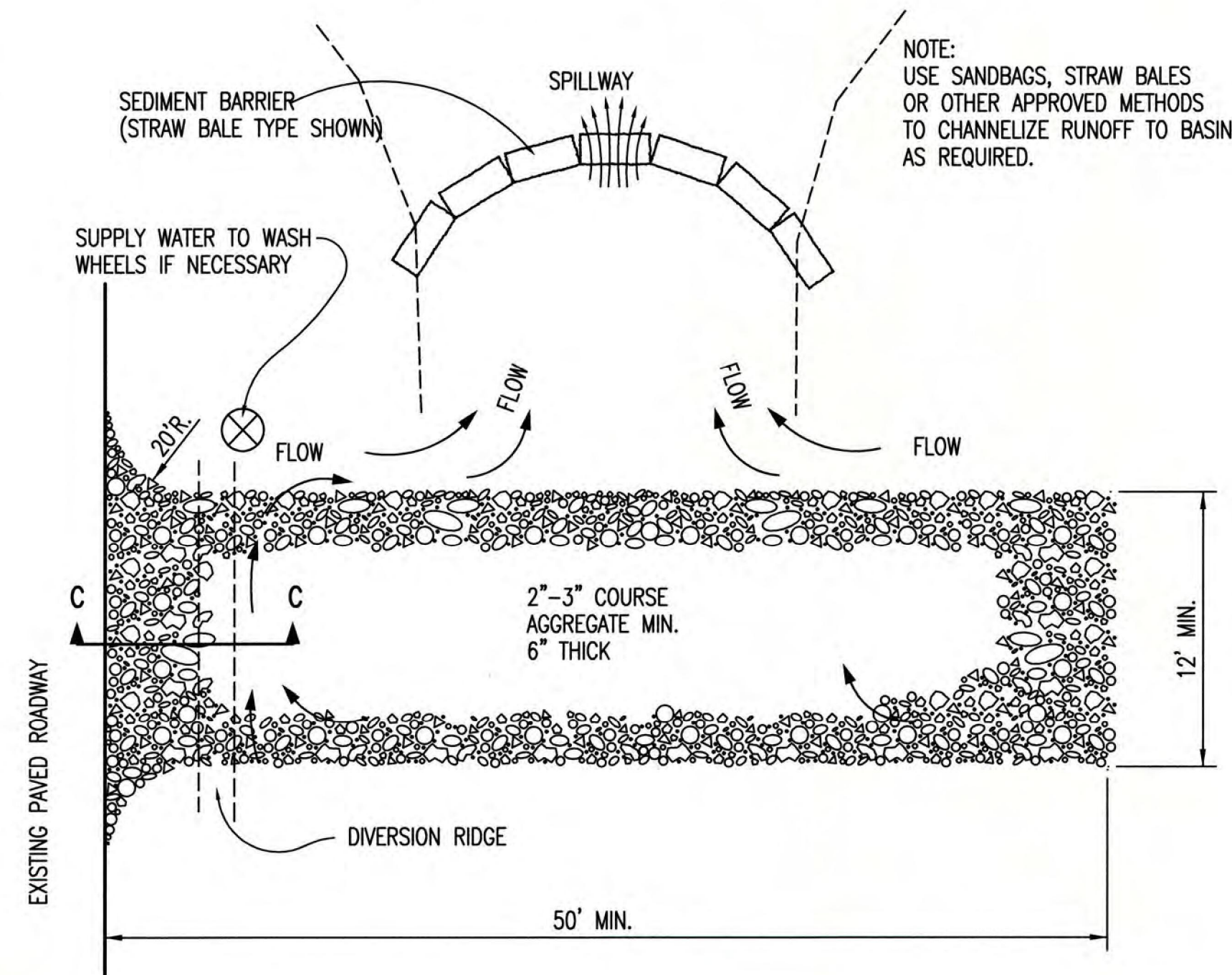
2X4 LENGTH	INLET TYPE	INLET OPENING
5'-6"	1-A	5'-0"
10'-6"	1-A	10'-0"
15'-6"	1-A	15'-0"



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



BACK OF CURB PROTECTION,
CURB INLET PROTECTION AND
CONSTRUCTION ENTRANCE

CITY ENGINEER

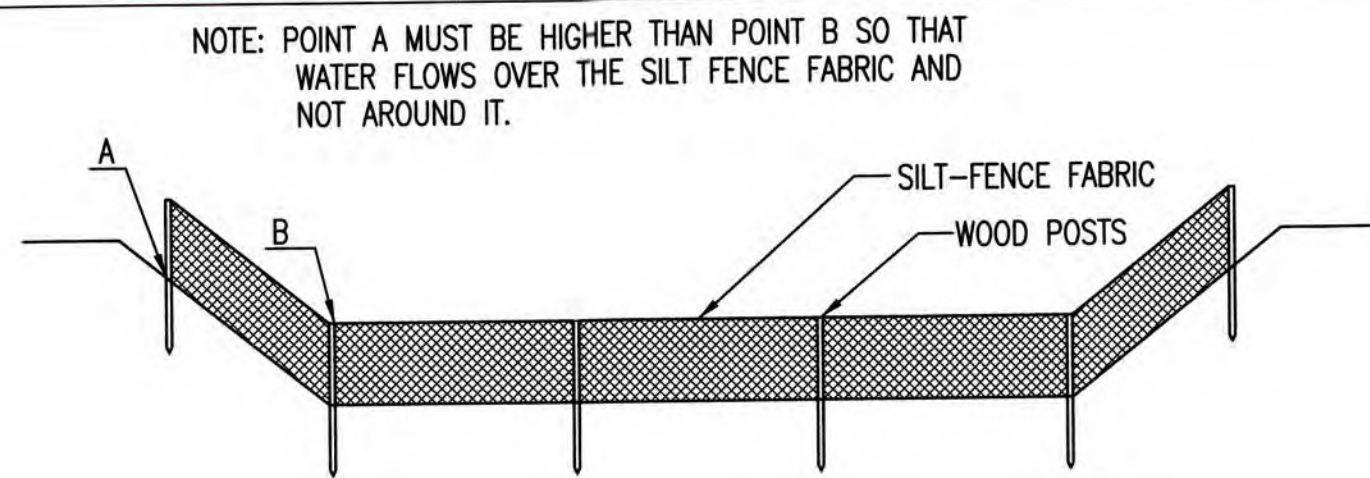
GARY JANZEN, P.E.

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

6 of 15



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 UPSTREAM 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 UPSTREAM SIDE OF THE TRENCH TO CLEAR AN AREA FOR DRIVING IN THE POSTS. JUST DOWNSTREAM 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.

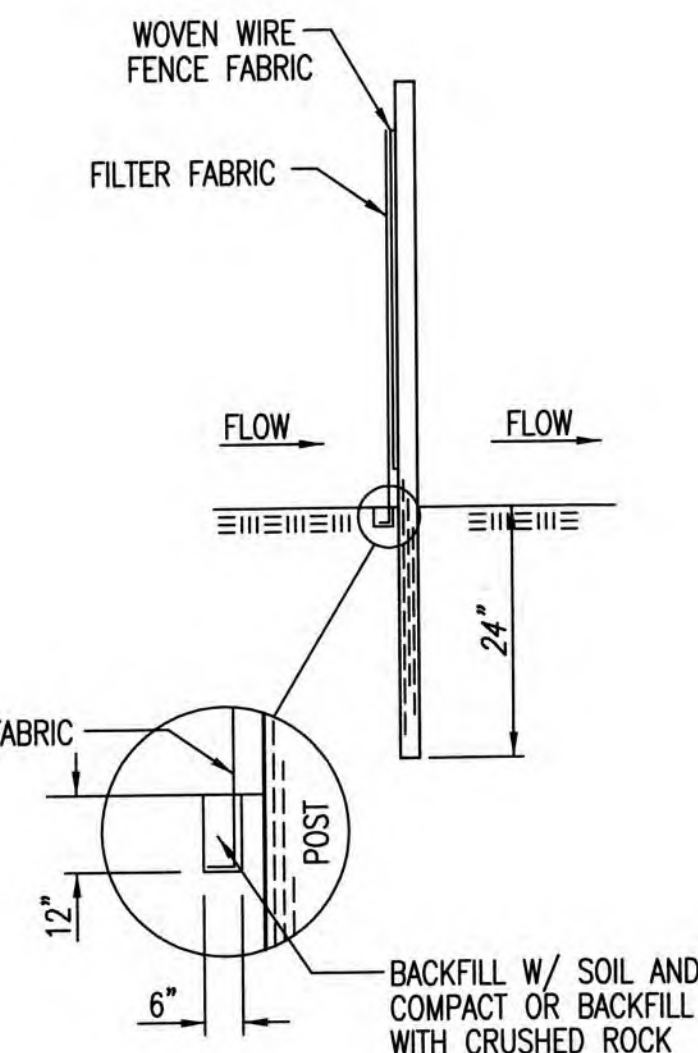
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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 UPSTREAM 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.

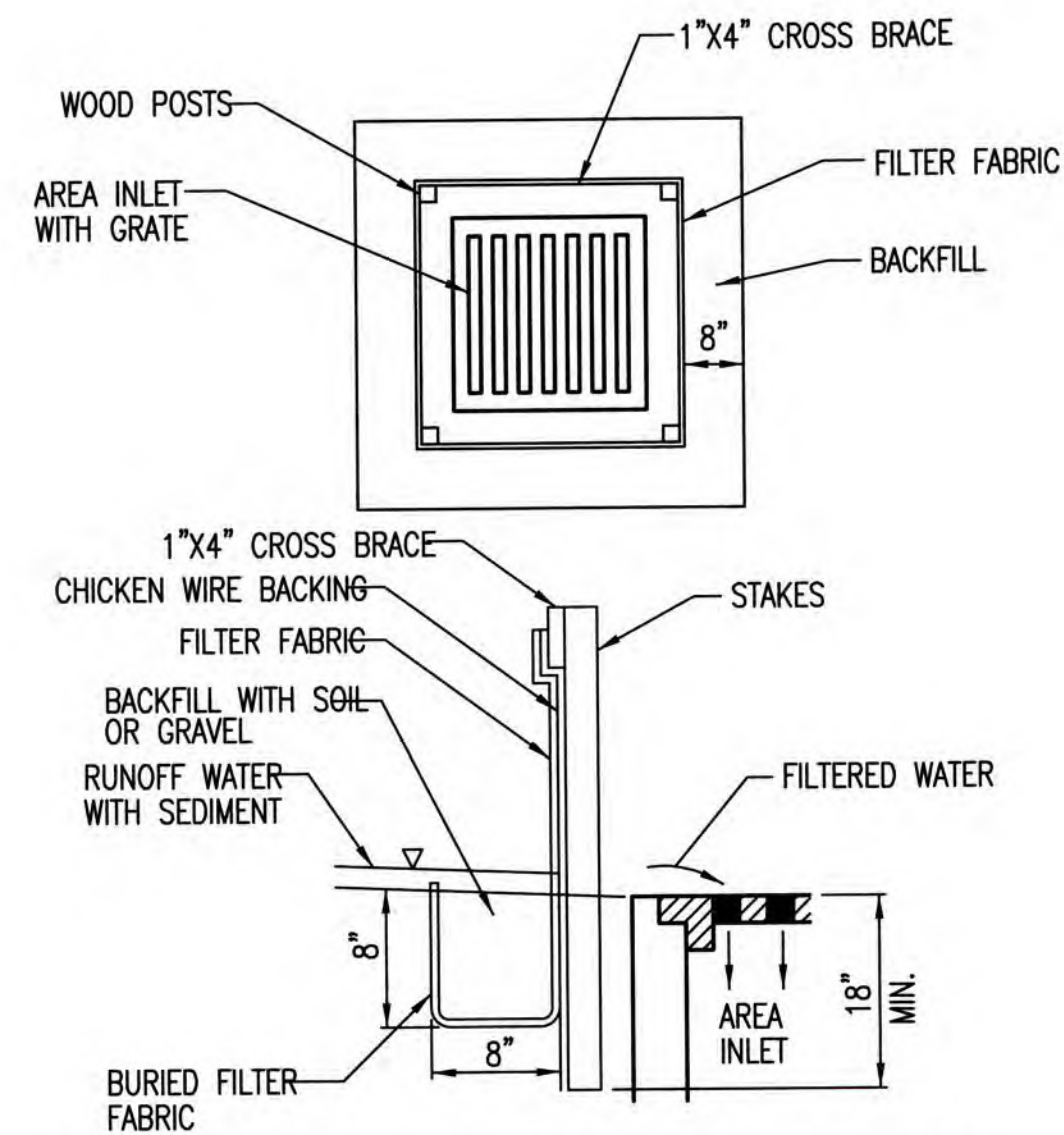
INSPECTION AND MAINTENANCE:

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.

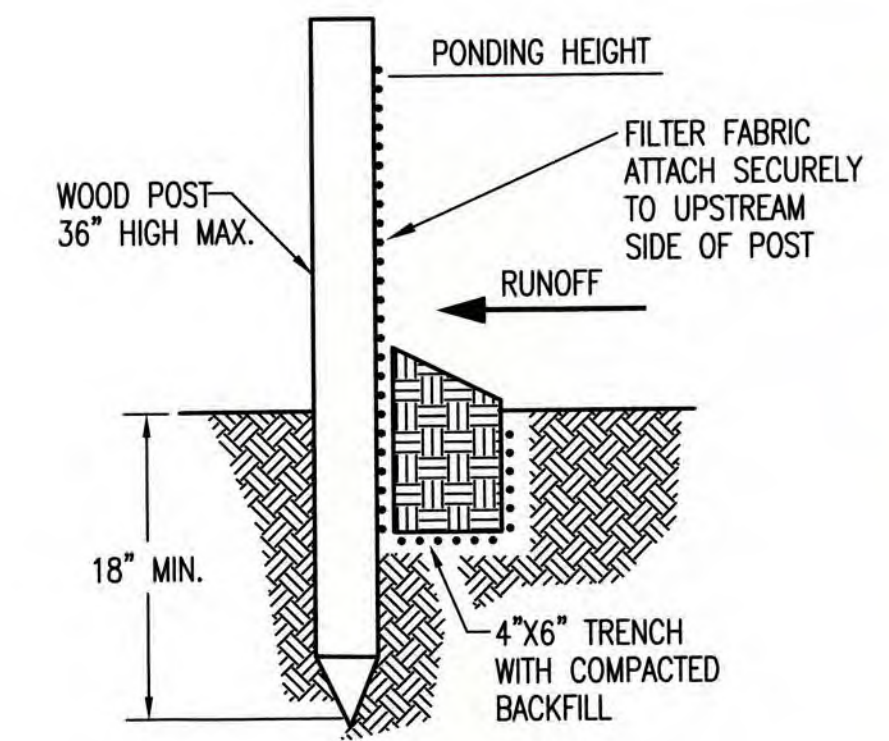
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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 RESTRICTED 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?

REVISION DATE: MAY 2013



SILT FENCE DITCH CHECK AND BARRIER DETAILS

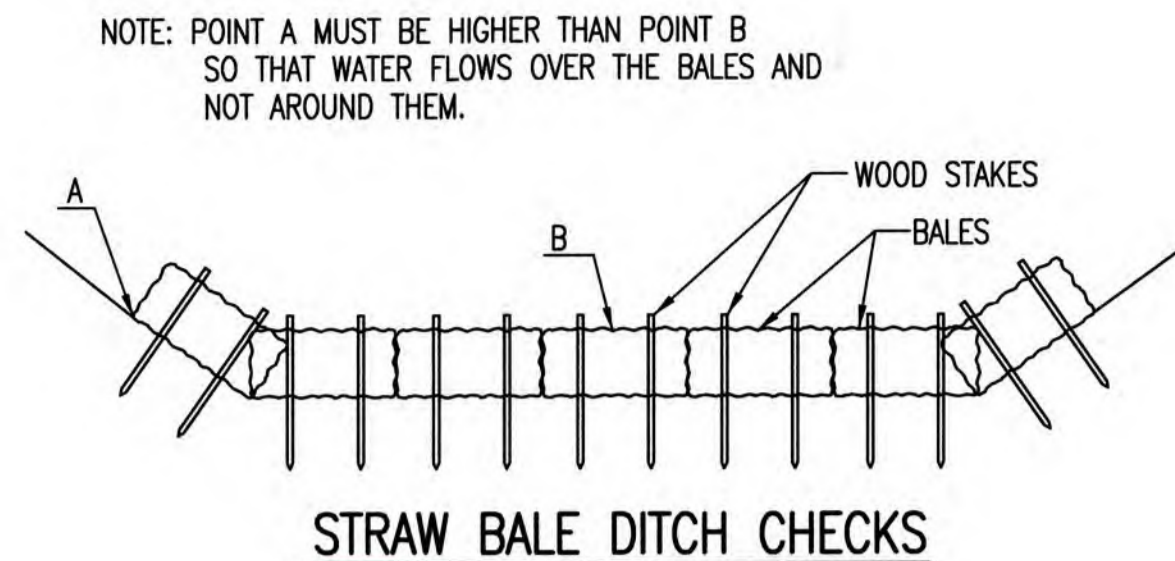
CITY ENGINEER
GARY JANZEN, P.E.

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

7 of 15



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".

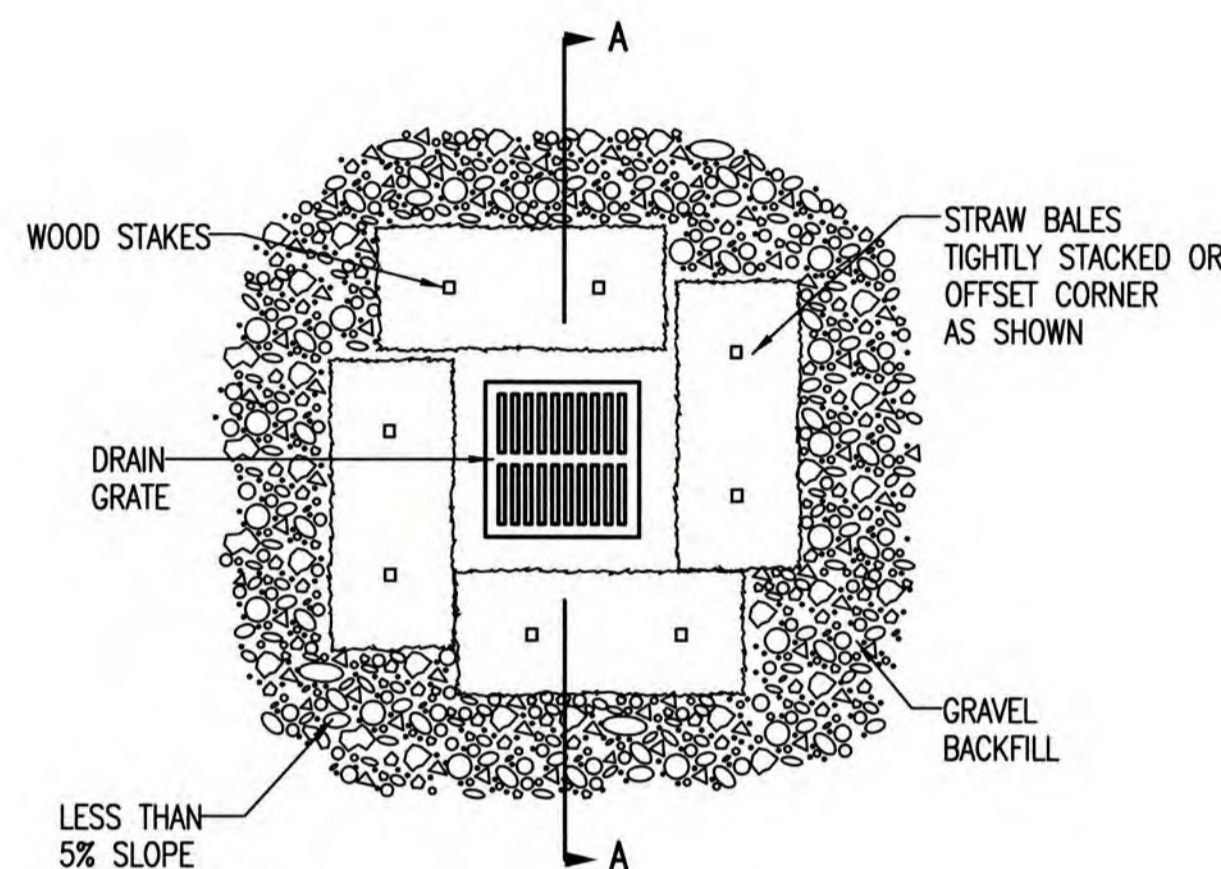
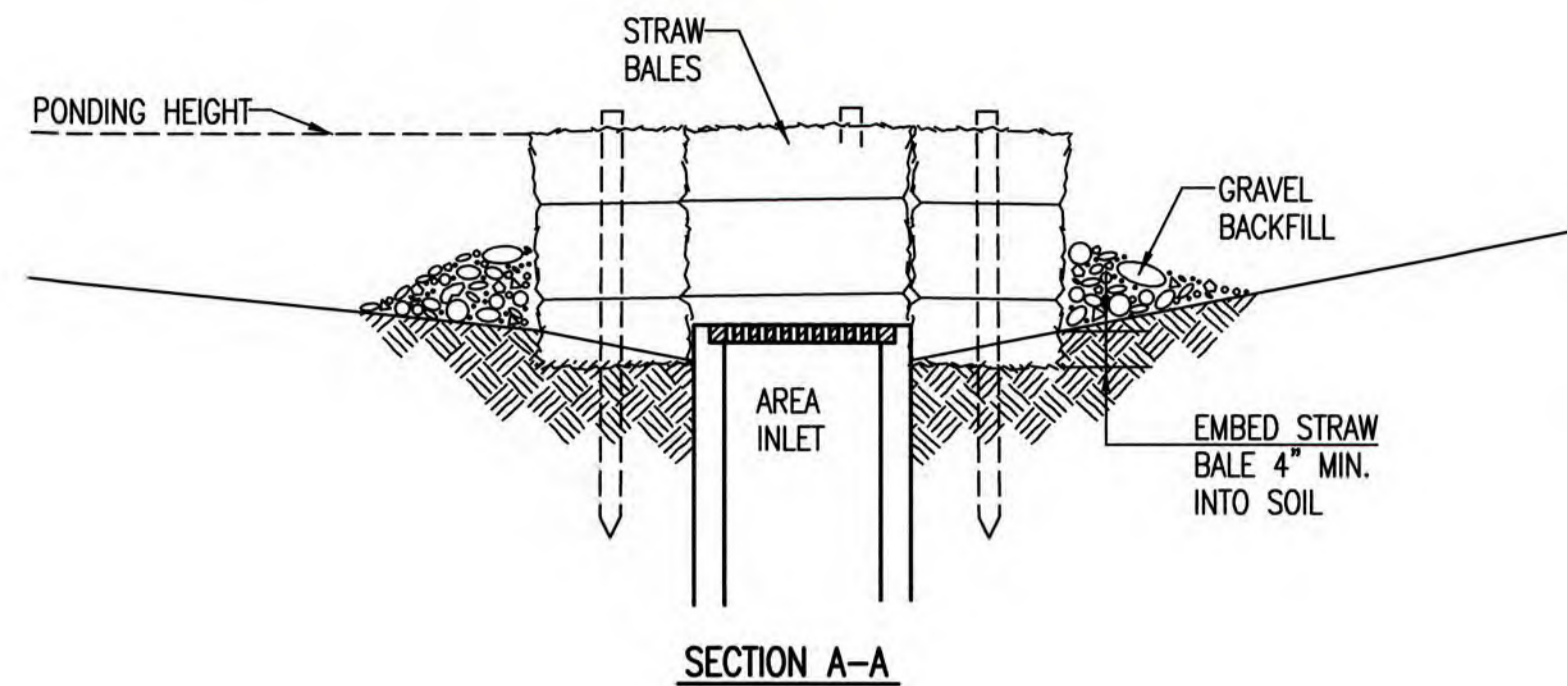
LIST OF COMMON PLACEMENT/INSTALLATION MISTAKES TO AVOID:

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?



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.

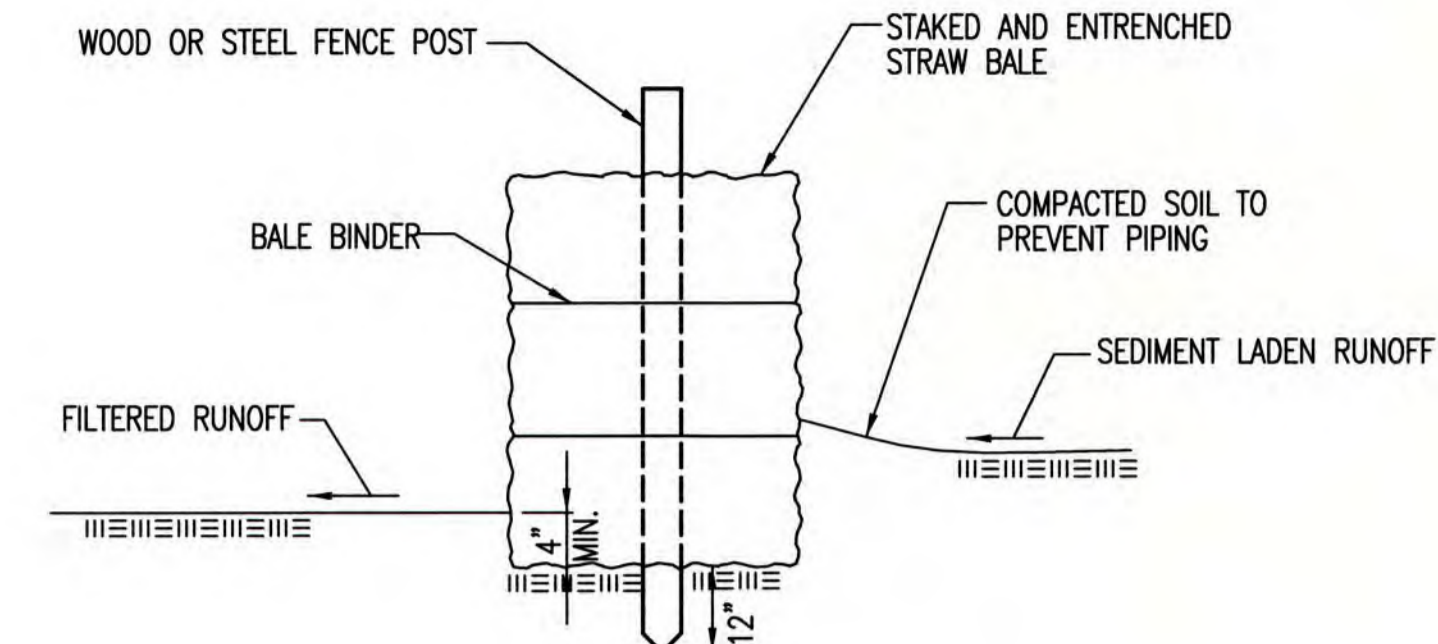
LIST OF COMMON PLACEMENT INSTALLATION MISTAKES TO AVOID:

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 OF 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?

REVISION DATE: MAY 2013





CITY OF WICHITA

PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STRAW BALE DITCH CHECK AND BARRIER DETAILS

CITY ENGINEER
GARY JANZEN, P.E.

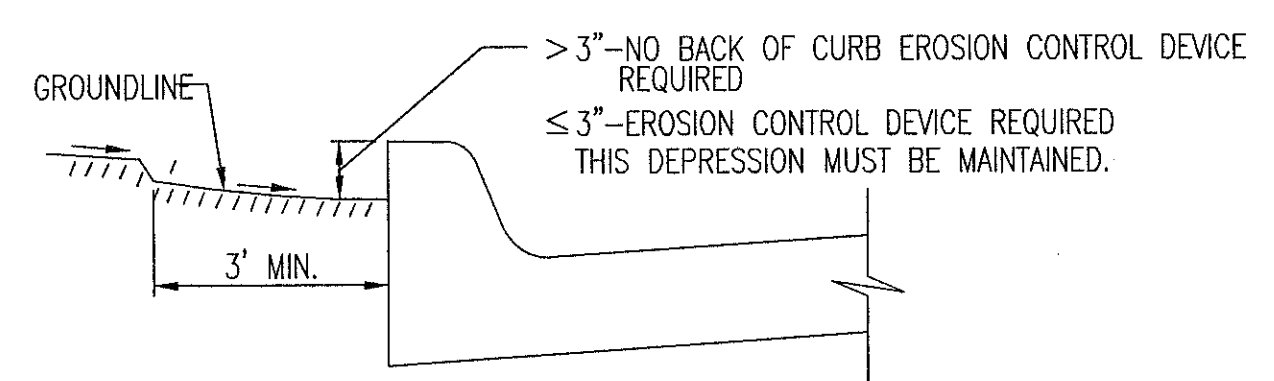
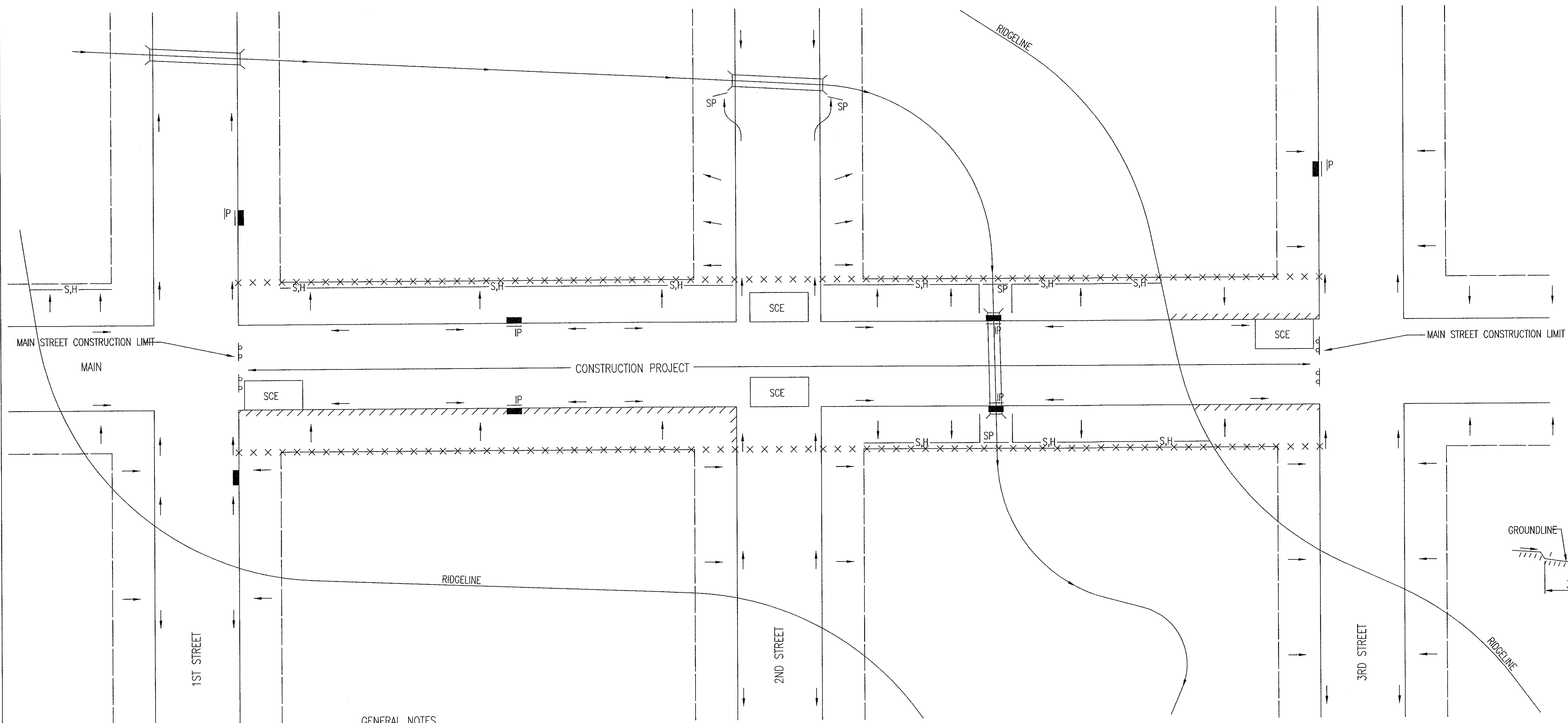
PROJECT NUMBER	OCA NUMBER	DATE

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

SHEET
8 of 15

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.



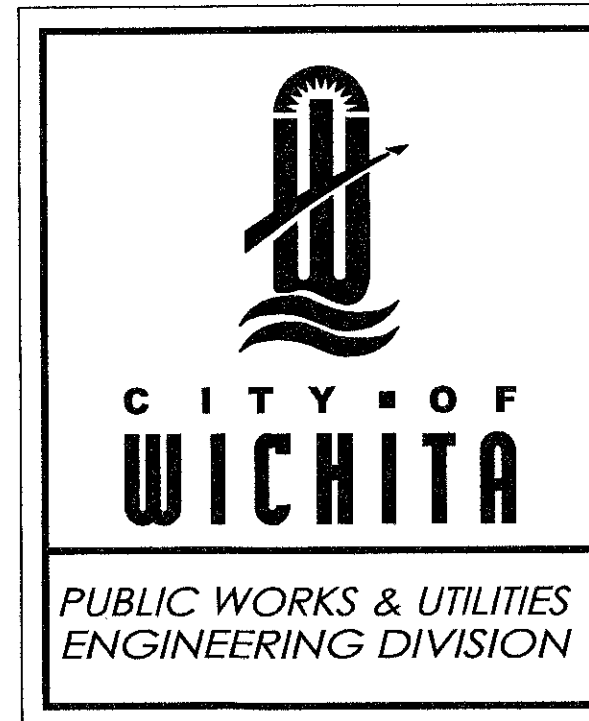
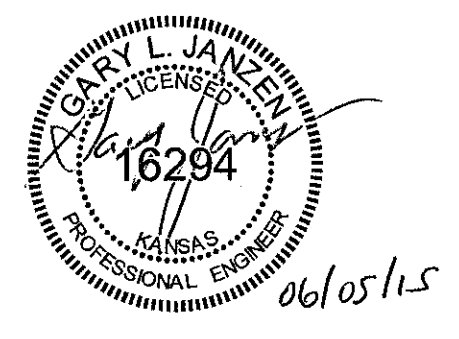
CURB BACKFILL DETAIL
 THIS IS A TEMPORARY MEASURE ONLY, WHEN APPROVED BY THE PROJECT ENGINEER. THE DIRT GRADE BEHIND THE CURB SHALL BE BROUGHT TO THE TOP OF CURB, WITH TEMPORARY EROSION CONTROL MAT OR PERMANENT VEGETATION PLACED, PRIOR TO THE COMPLETION OF ALL PROJECTS.

GENERAL NOTES

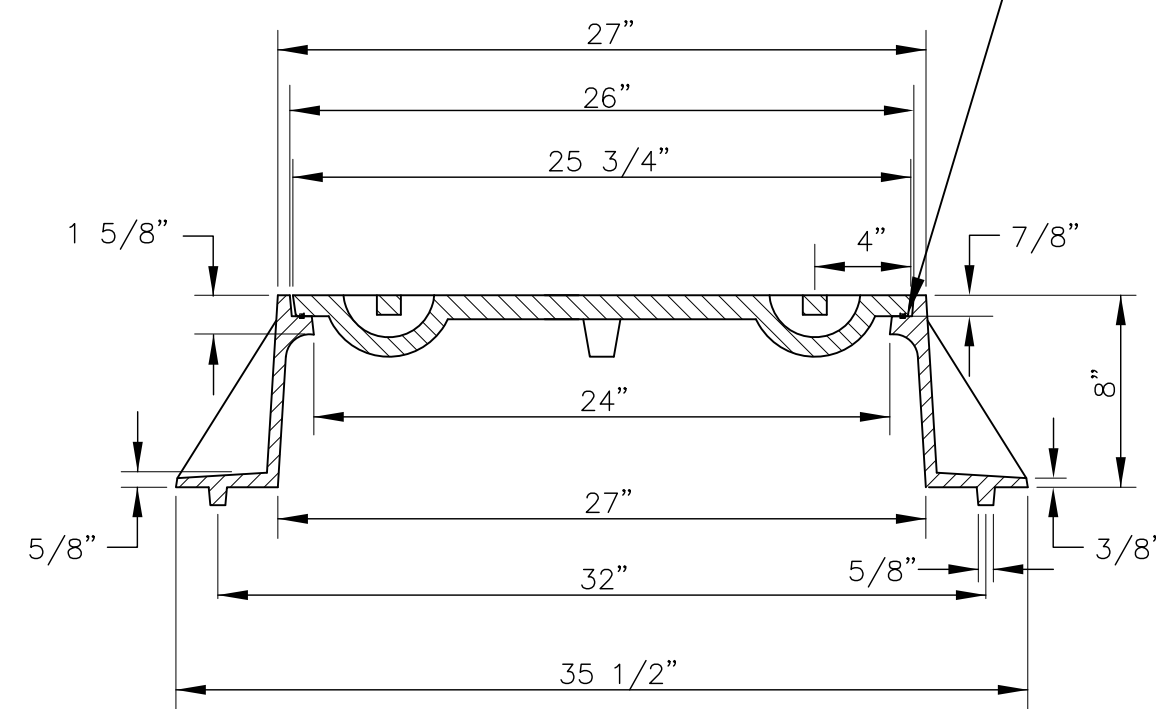
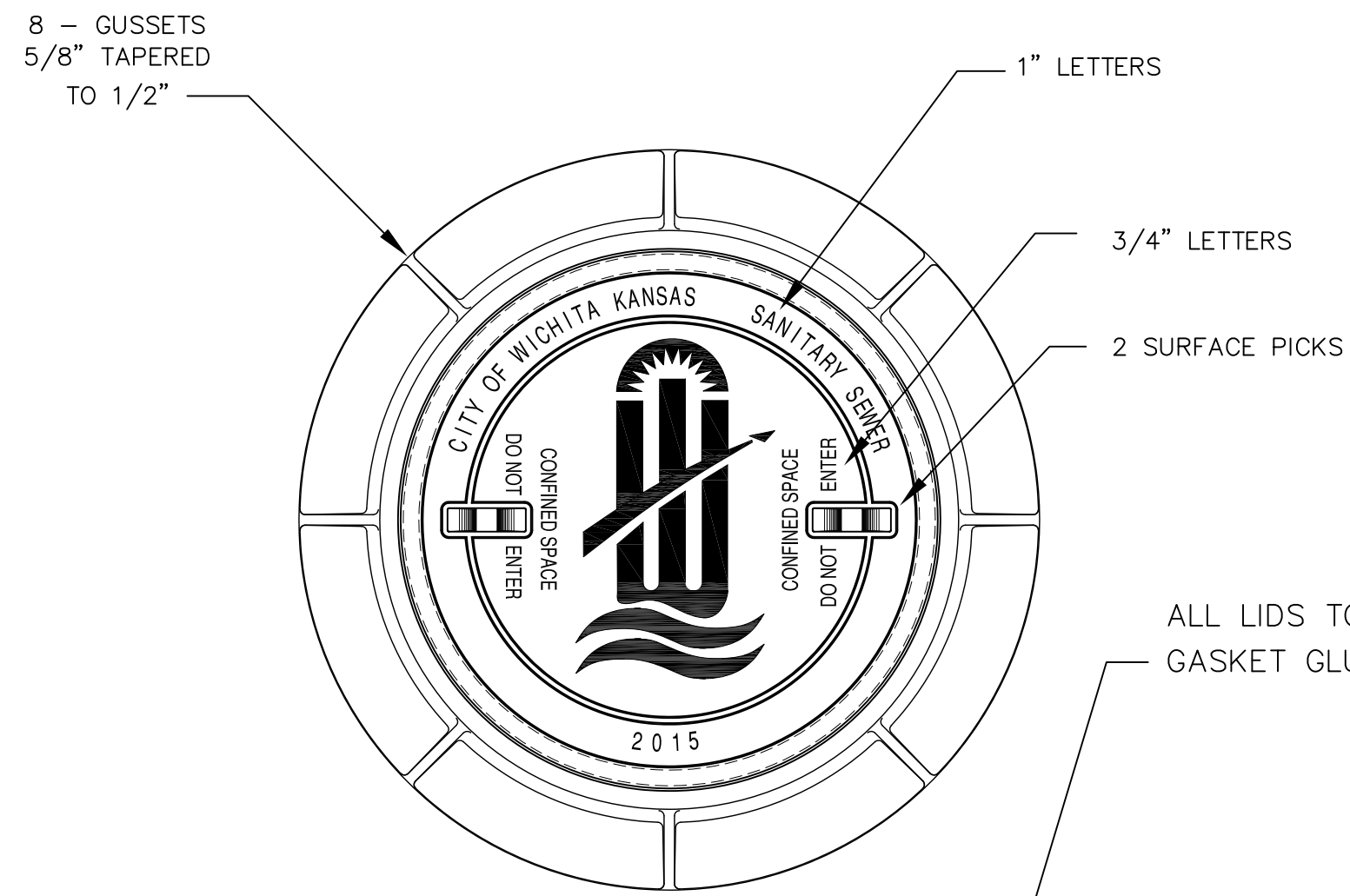
1. THE INTENT OF ALL EROSION CONTROL DEVICES IS TO KEEP ALL SEDIMENT CONFINED TO THE CONSTRUCTION SITE, AND OUT OF ALL UNDERGROUND PIPES, DITCHES, LAKES, AND OTHER DRAINAGE FACILITIES, AND OFF OF STREETS.
2. THE POINT OF COMPLIANCE IS GENERALLY THE RIGHT-OF-WAY LINES WITHIN THE LIMITS OF CONSTRUCTION.
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 CONTRACTOR WILL BE REQUIRED TO PLACE EROSION CONTROL DEVICES BACK OF CURB, WHENEVER WATER CAN DRAIN OVER CURB, TO KEEP ERODED SOIL OUT OF THE GUTTERLINES, 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-0-W LIMITS
- DRAINAGE FLOW PATH
- × × × × R/W LIMIT WITHIN CONSTRUCTION LIMIT
- STORM WATER INLETS
- IP INLET PROTECTION
- S,H SILT FENCE OR HAY BALE BARRIER
- SP STREAM PROTECTION
- SCE STABILIZED CONSTRUCTION ENTRANCE
- //// BACK OF CURB PROTECTION



REVISION: JUNE 2015		
STREET IMPROVEMENT PROJECTS		
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 9 of 15

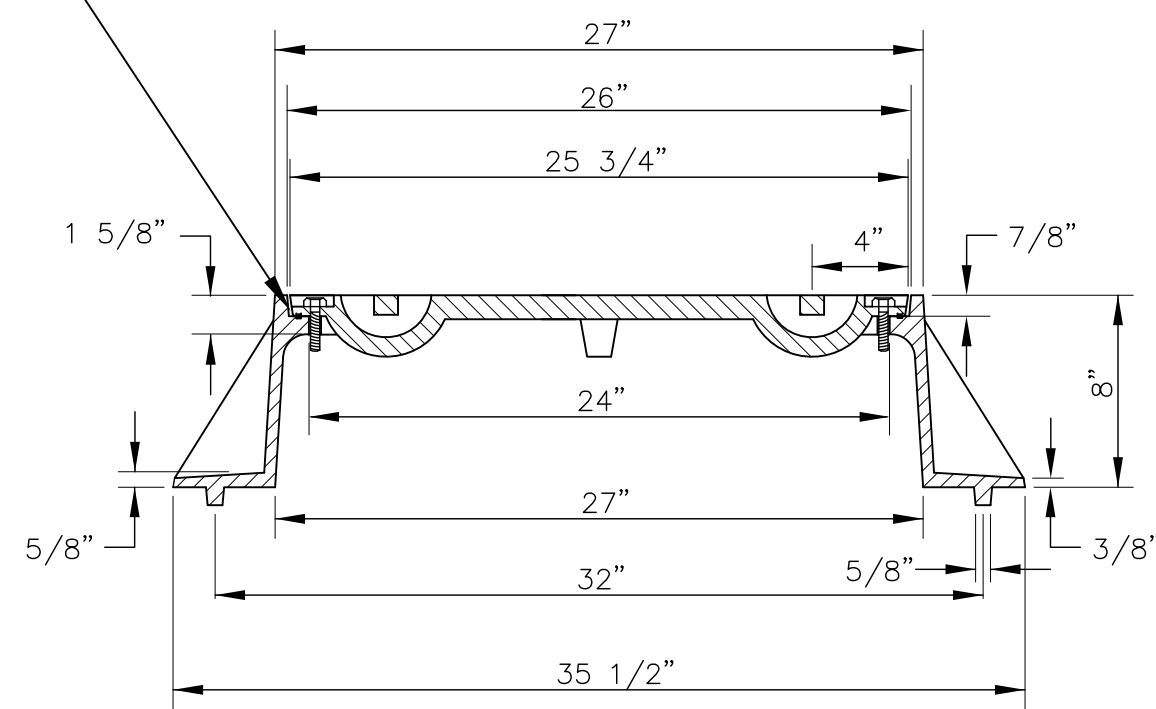
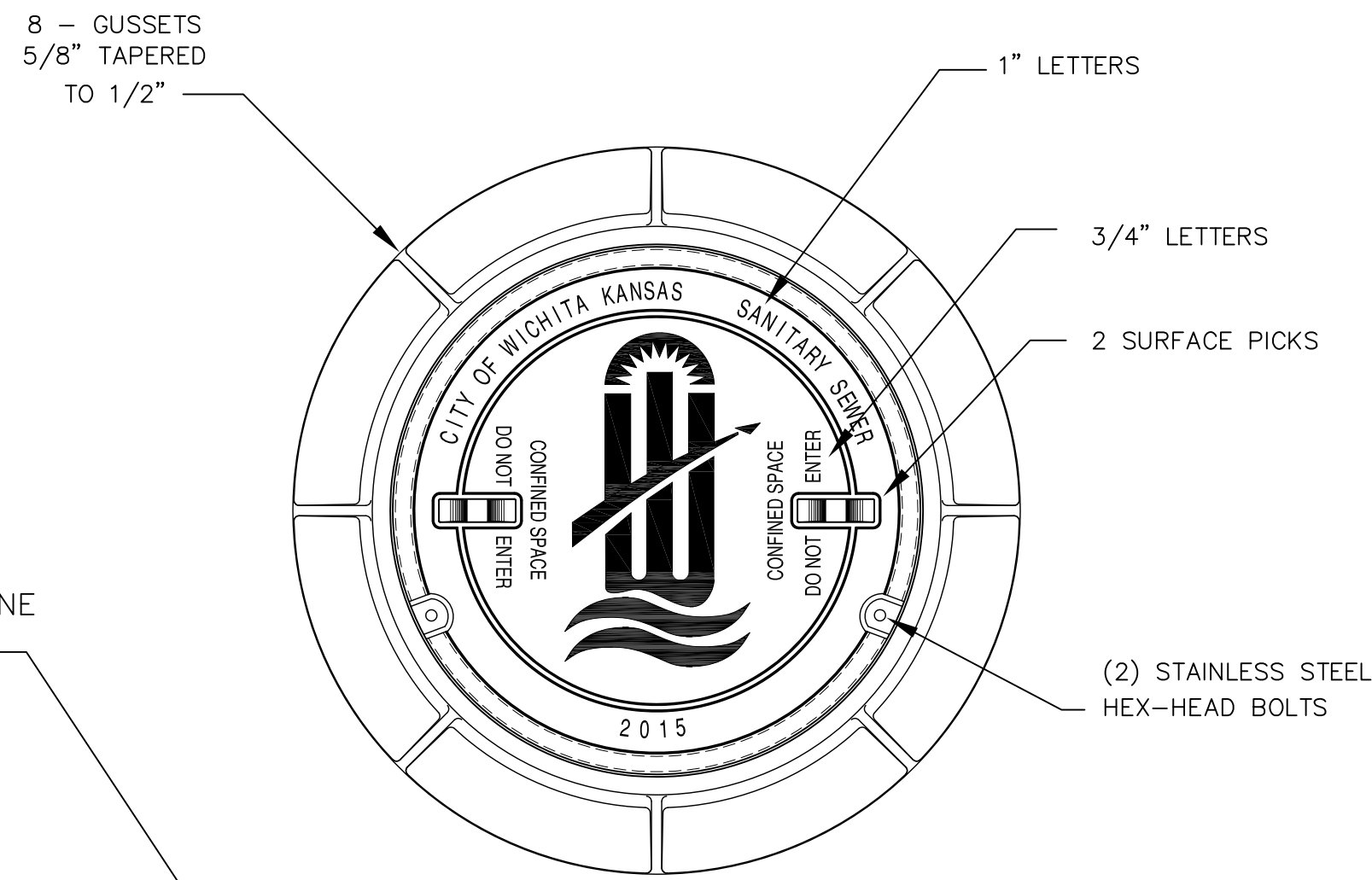


STANDARD MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:

1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.



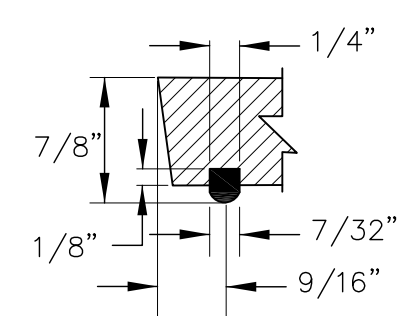
BOLT DOWN MANHOLE FRAME & COVER

DEETER #1261 OR EJIW #1936-Z1

NOTE:

1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.

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

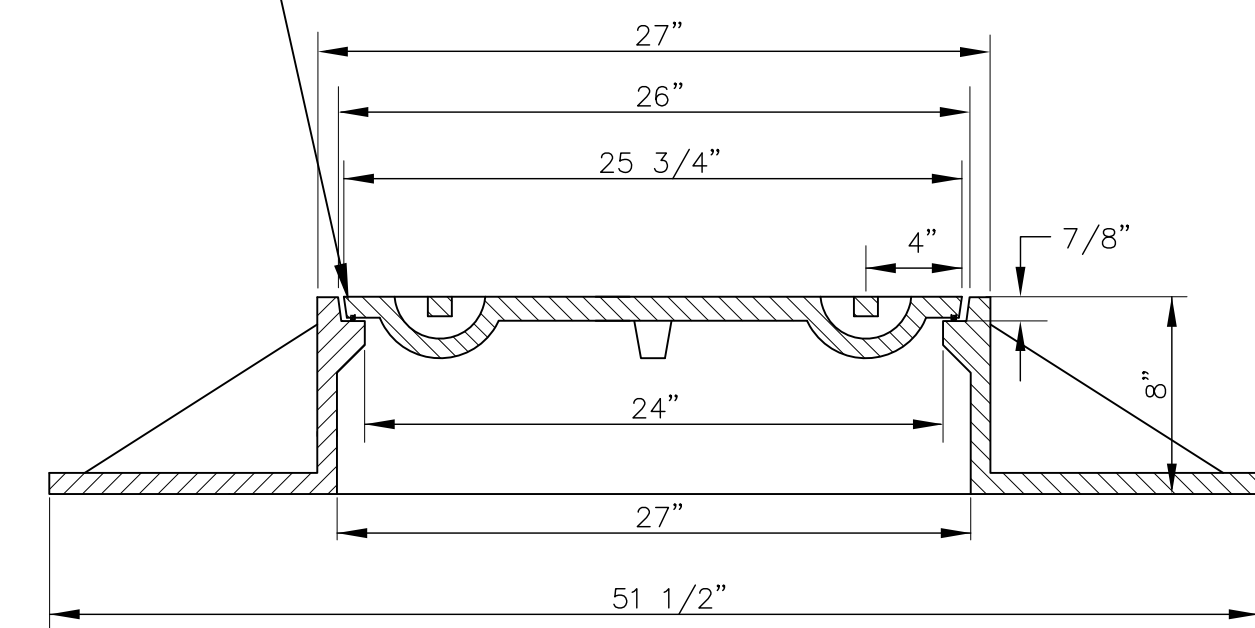
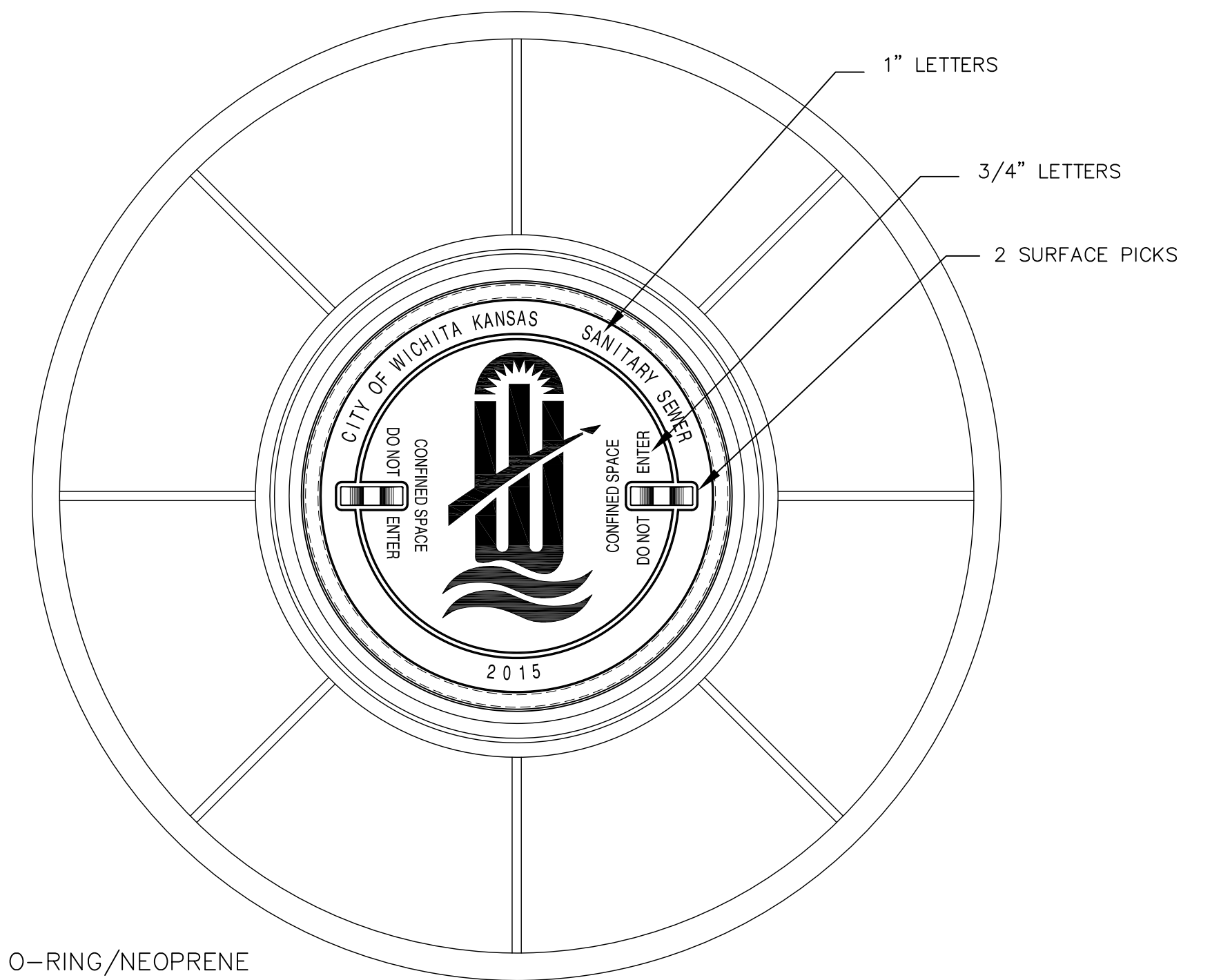


O-RING DETAIL

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.

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.

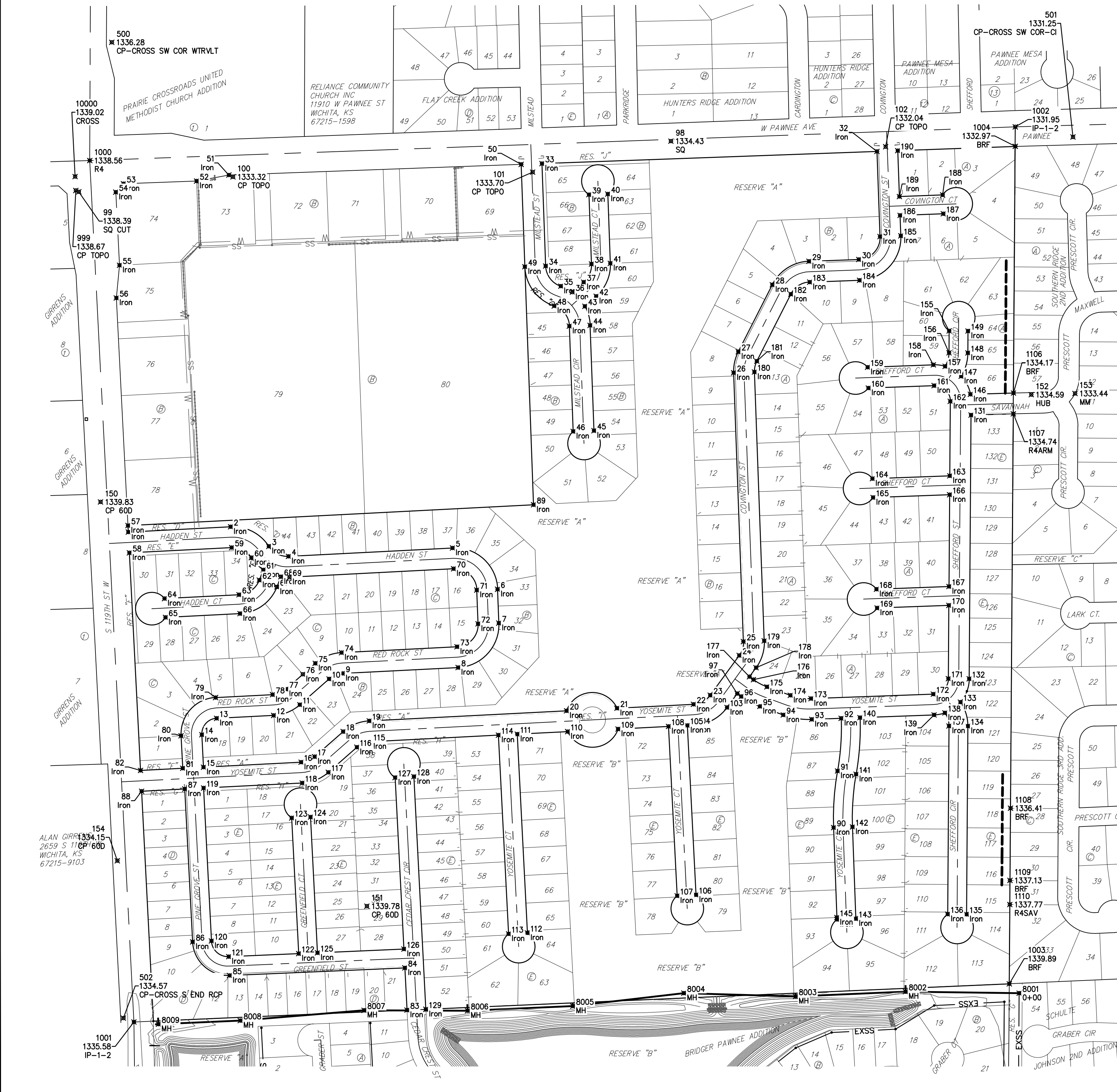
REVISED: MARCH 2016

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 12 of 15

BENCHMARKS:
 BM #1: Cross southwest corner of curb inlet, south side of Pawnee, 178± east of northeast corner of Lot 3, Block A
 Elevation = 1331.25 NAVD88

BM #2: square cut northwest corner of curb inlet west side of 119th St W, 100± south of northwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1338.39 NAVD88

BM #3: cross cut south end of RCP west side of 119th St W, 12± north of southwest corner of the northwest quarter, Sec. 6, 28-S, R-1-W.
 Elevation = 1334.57 NAVD88



Point	Northing	Easting	Desc
1	1,670,854.57	1,607,497.46	Iron
2	1,670,870.70	1,607,812.05	Iron
3	1,670,810.64	1,607,929.60	Iron
4	1,670,779.70	1,607,990.15	Iron
5	1,670,805.58	1,608,494.75	Iron
6	1,670,678.55	1,608,633.42	Iron
7	1,670,574.61	1,608,637.20	Iron
8	1,670,437.99	1,608,512.05	Iron
9	1,670,419.76	1,608,156.56	Iron
10	1,670,402.88	1,608,115.10	Iron
11	1,670,323.49	1,608,024.95	Iron
12	1,670,290.72	1,607,944.47	Iron
13	1,670,281.73	1,607,769.16	Iron
14	1,670,231.34	1,607,723.68	Iron
15	1,670,131.47	1,607,728.80	Iron
16	1,670,146.87	1,608,029.06	Iron
17	1,670,163.74	1,608,070.52	Iron
18	1,670,241.01	1,608,158.26	Iron
19	1,670,273.77	1,608,238.73	Iron
20	1,670,304.90	1,608,845.72	Iron
21	1,670,312.86	1,609,000.85	Iron
22	1,670,324.93	1,609,236.18	Iron
23	1,670,352.81	1,609,287.66	Iron
24	1,670,475.18	1,609,376.78	Iron
25	1,670,517.68	1,609,389.77	Iron
26	1,671,344.34	1,609,359.72	Iron
27	1,671,408.90	1,609,373.93	Iron
28	1,671,614.91	1,609,478.53	Iron
29	1,671,687.07	1,609,591.43	Iron
30	1,671,692.63	1,609,744.52	Iron
31	1,671,763.06	1,609,810.00	Iron
32	1,672,024.89	1,609,800.48	Iron
33	1,671,987.42	1,608,769.96	Iron
34	1,671,672.63	1,608,781.41	Iron
35	1,671,610.58	1,608,827.89	Iron
36	1,671,592.28	1,608,863.59	Iron
37	1,671,622.91	1,608,898.30	Iron
38	1,671,678.72	1,608,922.28	Iron
39	1,671,891.88	1,608,914.53	Iron
40	1,671,893.99	1,608,972.49	Iron
41	1,671,680.83	1,608,980.24	Iron
42	1,671,579.41	1,608,936.67	Iron
43	1,671,548.79	1,608,901.96	Iron
44	1,671,490.13	1,608,918.13	Iron
45	1,671,166.26	1,608,929.90	Iron
46	1,671,163.94	1,608,865.94	Iron
47	1,671,487.80	1,608,854.17	Iron
48	1,671,549.85	1,608,807.69	Iron
49	1,671,670.31	1,608,717.45	Iron
50	1,671,985.10	1,608,706.01	Iron
51	1,671,952.41	1,607,806.83	Iron
52	1,671,933.79	1,607,707.44	Iron
53	1,671,925.61	1,607,482.59	Iron
54	1,671,899.74	1,607,458.88	Iron
55	1,671,675.03	1,607,470.41	Iron
56	1,671,574.40	1,607,460.55	Iron
57	1,670,874.54	1,607,496.44	Iron
58	1,670,790.65	1,607,500.74	Iron
59	1,670,806.79	1,607,815.33	Iron
60	1,670,775.85	1,607,875.88	Iron
61	1,670,738.21	1,607,912.81	Iron
62	1,670,706.84	1,607,900.56	Iron
63	1,670,661.76	1,607,838.06	Iron
64	1,670,650.00	1,607,808.82	Iron
65	1,670,592.08	1,607,611.79	Iron
66	1,670,603.84	1,607,841.03	Iron
67	1,670,685.74	1,607,954.58	Iron
68	1,670,717.11	1,607,966.84	Iron
69	1,670,715.79	1,607,993.43	Iron
70	1,670,741.67	1,608,498.03	Iron
71	1,670,676.23	1,608,569.47	Iron
72	1,670,572.28	1,608,573.24	Iron
73	1,670,501.90	1,608,508.77	Iron
74	1,670,483.67	1,608,153.28	Iron
75	1,670,450.91	1,608,072.80	Iron
76	1,670,417.16	1,608,034.48	Iron
77	1,670,371.52	1,607,982.65	Iron

Point	Northing	Easting	Desc
78	1,670,354.64	1,607,941.19	Iron
79	1,670,345.65	1,607,765.88	Iron
80	1,670,228.06	1,607,659.77	Iron
81	1,670,128.19	1,607,664.89	Iron
82	1,670,121.53	1,607,535.06	Iron
83	1,669,384.62	1,608,354.88	Iron
84	1,669,514.45	1,608,348.22	Iron
85	1,669,490.94	1,607,808.88	Iron
86	1,669,594.26	1,607,695.27	Iron
87	1,670,064.43	1,607,671.16	Iron
88	1,670,057.62	1,607,538.34	Iron
89	1,670,938.53	1,608,744.05	Iron
90	1,669,945.81	1,609,667.23	Iron
91	1,670,119.97	1,609,679.25	Iron
92	1,670,281.74	1,609,690.43	Iron
93	1,670,278.45	1,609,600.01	Iron
94	1,670,292.27	1,609,512.27	Iron
95	1,670,318.47	1,609,440.24	Iron
96	1,670,348.96	1,609,382.97	Iron
97	1,670,357.97	1,609,370.60	Iron
103	1,670,315.13	1,609,339.40	Iron
104	1,670,261.01	1,609,239.45	Iron
105	1,670,259.87	1,609,217.18	Iron
106	1,669,738.82	1,609,243.90	Iron
107	1,669,735.85	1,609,185.98	Iron
108	1,670,256.90	1,609,159.26	Iron
109	1,670,248.94	1,609,004.13	Iron
110	1,670,240.99	1,608,849.00	Iron
111	1,670,233.03	1,608,693.87	Iron
112	1,669,621.93	1,608,725.21	Iron
113	1,669,618.96	1,608,667.28	Iron
114	1,670,230.06	1,608,635.94	Iron
115	1,670,209.86	1,608,242.01	Iron
116	1,670,192.98	1,608,200.55	Iron
117	1,670,115.71	1,608,112.81	Iron
118	1,670,082.95	1,608,032.34	Iron
119	1,670,067.40	1,607,729.08	Iron
120	1,669,597.23	1,607,753.20	Iron
121	1,669,548.89	1,607,806.35	Iron
122	1,669,558.27	1,608,021.55	Iron
123	1,669,975.43	1,608,000.15	Iron
124	1,669,978.40	1,608,058.08	Iron
125	1,669,560.79	1,608,079.49	Iron
1000	1,671,996.89	1,607,378.80	1338.56 R4
126	1,669,572.38	1,608,345.25	Iron
127	1,670,099.50	1,608,318.21	Iron
128	1,670,102.47	1,608,376.14	Iron
129	1,669,387.15	1,608,412.82	Iron
131	1,671,214.21	1,610,089.84	Iron
132	1,670,403.27	1,610,084.17	Iron
133	1,670,331.48	1,610,057.47	Iron
134	1,670,257.76	1,610,080.15	Iron
135	1,669,679.08	1,610,076.11	Iron
136	1,669,679.48	1,610,018.11	Iron
137	1,670,258.17	1,610,022.15	Iron
138	1,670,298.54	1,610,009.73	Iron
139	1,670,292.13	1,609,976.24	Iron
140	1,670,283.84	1,609,748.39	Iron
141	1,670,109.90	1,609,736.37	Iron
142	1,669,947.93	1,609,725.19	Iron
143	1,669,665.55	1,609,735.53	Iron
144	1,669,663.43	1,609,677.57	Iron
145	1,669,669.21	1,609,677.36	Iron
146	1,671,278.18	1,610,088.08	Iron
147	1,671,333.69	1,610,059.60	Iron
148	1,671,405.31	1,610,080.17	Iron
149	1,671,472.75	1,610,080.64	Iron
155	1,671,473.16	1,610,022.64	Iron
156	1,671,405.71	1,610,022.17	Iron
157	1,671,364.14	1,610,010.23	Iron
158	1,671,368.76	1,609,974.06	Iron
159	1,671,361.41	1,609,771.79	Iron
160	1,671,297.45	1,609,774.11	Iron
161	1,671,304.80	1,609,976.39	Iron
162	1,671,256.50	1,610,026.13	Iron
163	1,671,027.37	1,610,024.53	Iron
164	1,671,018.72	1,609,786.56	Iron
165	1,670,960.75	1,609,788.67	Iron

Point	Northing	Easting	Desc
166	1,670,969.31	1,610,024.12	Iron
167	1,670,687.06	1,610,022.15	Iron
168	1,670,678.94	1,609,798.91	Iron
169	1,670,620.98	1,609,801.02	Iron
170	1,670,629.00	1,610,021.74	Iron
171	1,670,403.72	1,610,020.17	Iron
172	1,670,356.09	1,609,973.91	Iron
173	1,670,342.41	1,609,597.68	Iron
174	1,670,352.42	1,609,534.15	Iron
175	1,670,378.62	1,609,462.12	Iron
176	1,670,400.69	1,609,420.65	Iron
177	1,670,409.71	1,609,408.27	Iron
178	1,670,437.50	1,609,428.52	Iron
179	1,670,520.01	1,609,453.73	Iron
180	1,671,346.67	1,609,423.67	Iron
181	1,671,379.92	1,609,431.00	Iron
182	1,671,585.94	1,609,535.60	Iron
183	1,671,623.11	1,609,593.76	Iron
184	1,671,628.68	1,609,746.84	Iron
185	1,671,765.38	1,609,873.96	Iron
186	1,671,828.34	1,609,871.67	Iron
187	1,671,833.18	1,610,004.72	Iron
188	1,671,891.14	1,610,002.62	Iron
189	1,671,886.30	1,609,869.56	Iron
190	1,672,027.21	1,609,864.44	Iron

Point	Northing	Easting	Elevation	Desc
98	1,672,056.60	1,609,166.63	1334.43	SQ
99	1,671,900.70	1,607,345.14	1338.39	SQ CUT
100	1,671,946.74	1,607,819.41	1333.32	CP TOPO
101	1,671,961.23	1,608,741.24	1333.70	CP TOPO
102	1,672,039.37	1,609,827.31	1332.04	CP TOPO
150	1,670,947.09	1,607,411.93	1339.83	CP 60D
151	1,669,704.33	1,608,231.36	1339.78	CP 60D
152	1,671,277.07	1,610,275.20	1334.59	HUB
153	1,671,280.69	1,610,409.80	1333.44	MM
154	1,669,843.83	1,607,463.60	1334.15	CP 60D
500	1,672,360.53	1,610,446.54	1336.28	CP-CROSS SW COR WTRVLT
501	1,672,069.37	1,610,403.56	1331.25	CP-CROSS SW COR-CI
502	1,669,359.94	1,607,482.26	1334.57	CP-CROSS S END RCP
999	1,671,904.83	1,607,335.89	1338.67	CP TOPO
1000	1,671,996.89	1,607,378.80	1338.56	R4
1001	1,669,347.99	1,607,514.65	1335.58	IP-1-2
1002	1,672,100.40	1,610,226.03	1331.95	IP-1-2
1003	1,669,465.29	1,610,207.68	1339.89	BRF
1004	1,672,040.63	1,610,226.12	1332.97	BRF
1106	1,671,282.09	1,610,220.55	1334.17	BRF
1107	1,671,217.98	1,610,220.08	1334.74	R4ARM
1108	1,670,005.40	1,610,211.47	1336.41	BRF
1109	1,669,783.42	1,610,209.69	1337.13	BRF
1110	1,669,709.20	1,610,209.21	1337.77	R4SAV
10000	1,671,947.63	1,607,333.74	1339.02	CROSS

Point	Northing	Easting	Desc
8001	1,669,436.63	1,610,238.06	0+00
8002	1,669,441.47	1,609,888.44	MH
8003	1,669,426.72	1,609,550.14	MH
8004	1,669,436.76	1,609,206.44	MH
8005	1,669,396.85	1,608,864.92	MH
8006	1,669,382.74	1,608,541.22	MH
8007	1,669,383.87	1	

YELLOWSTONE ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

State of Kansas) SS
 Sedgwick County) We, Baughman Company, P.A., Surveyors in
 aforesaid county and state do hereby certify that we have surveyed and
 platted "YELLOWSTONE ADDITION", Wichita, Sedgwick County, Kansas and
 that the accompanying plat is a true and correct exhibit of the property
 surveyed, described as the Northwest Quarter of Section 6, Township 28
 South, Range 1 West of the 6th P.M., Sedgwick County, Kansas, EXCEPT
 that portion described as follows: beginning at the northwest corner of
 said Northwest Quarter; thence N87°55'05"E, coincident with the north line
 of said Northwest Quarter, 1325.90 feet; thence S02°04'55"E, 1107.26 feet;
 thence S87°03'51"W, perpendicular to the west line of said Northwest
 Quarter, 1309.25 feet; thence N02°56'09"W, coincident with the west line
 of said Northwest Quarter, 1126.90 feet to the point of beginning.

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

Dated this _____ day of _____, 2024.
 Wichita-Sedgwick County Metropolitan Area Planning Commission

_____, Chair
 Bryan K. Frye
 _____, Secretary
 Scott A. Wadle

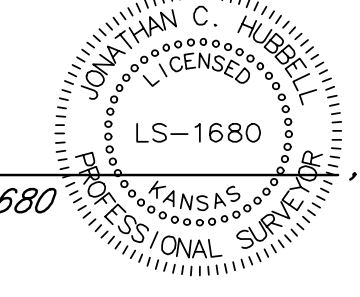
This plat approved and all dedications
 shown hereon accepted by the City Council of the City of Wichita,
 Kansas, this _____ day of _____, 202____.

_____, Mayor
 Lily Wu
 _____, Deputy City Clerk
 Shinita Rice

Existing public easements and dedications
 being vacated by virtue of K.S.A. 12-512b, as amended.

All being situated in the Northwest Quarter of Section
 6, Township 28 South, Range 1 West of the Sixth
 Principal Meridian, Sedgwick County, Kansas.

Baughman Company, P.A.



Jonathan C. Hubbell, P.S. #1680

Reviewed in accordance with K.S.A. 58-2005
 on this _____ day of _____, 202____.

_____, Deputy County Surveyor
 Tricia L. Robello, P.S. #1246
 Sedgwick County, Kansas

Entered on transfer record this _____ day
 of _____, 202____.

_____, County Clerk
 Kelly B. Arnold

State of Kansas) SS
 Sedgwick County) This is to certify that this plat has been
 filed for record in the office of the Register of Deeds, this _____ day
 of _____, 202____ at _____ o'clock _____ M.; and is duly recorded.

_____, Register of Deeds
 Tonya Buckingham

_____, Deputy
 Kenly Zehring

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

Legacy Bank
 _____ (Title)

State of Kansas) SS
 Sedgwick County) The foregoing instrument acknowledged before
 me, this _____ day of _____, 202____, by _____,
 _____ of Legacy Bank, on behalf of the bank.
 _____ (Title)

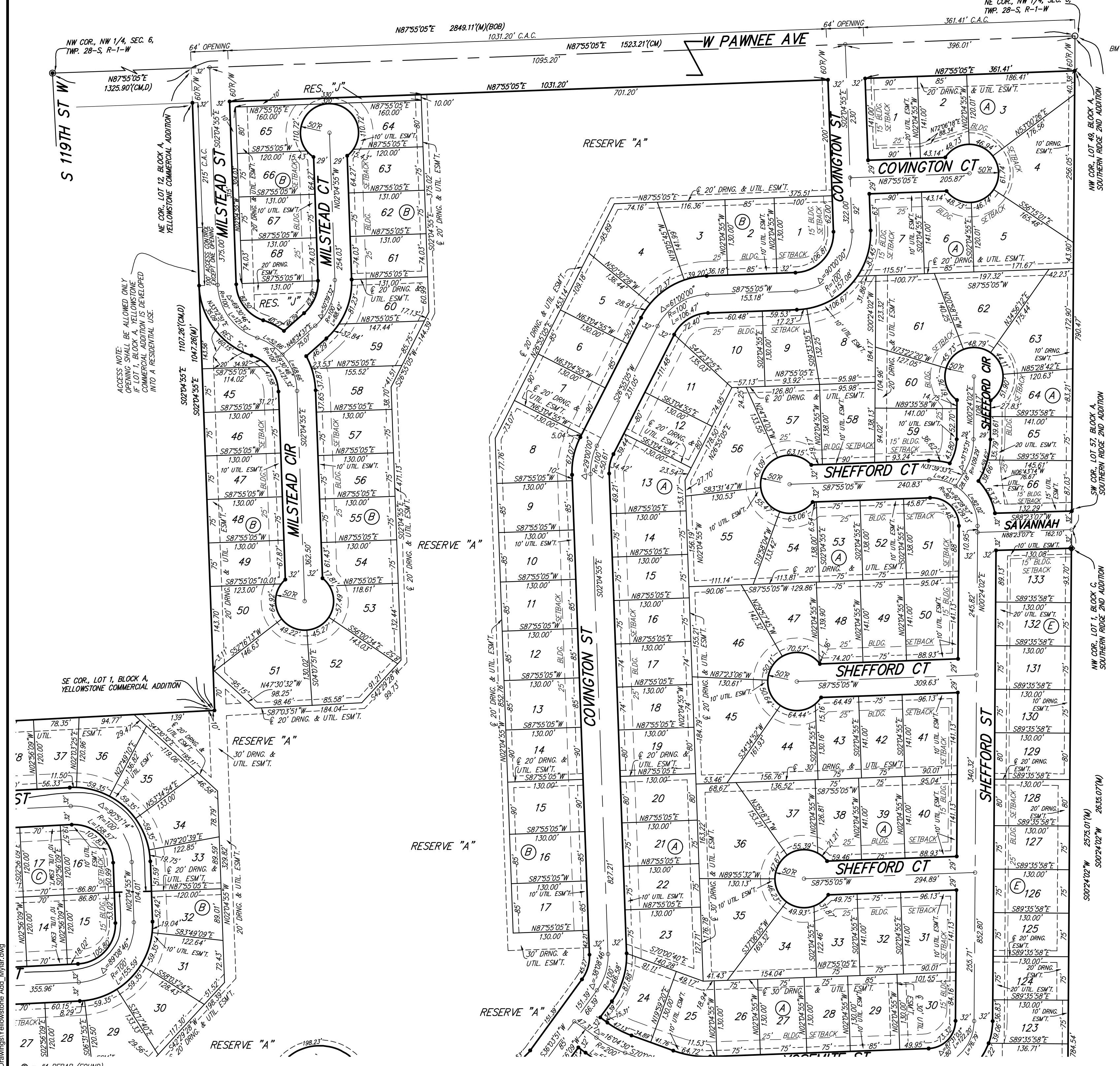
Kick "N" Development Corp.,
 a Kansas corporation
 _____, President
 Paul E. Kelsey

State of Kansas) SS
 Sedgwick County) The foregoing instrument acknowledged before
 me, this _____ day of _____, 2024, by Paul E. Kelsey, President of
 Kick "N" Development Corp., a Kansas corporation, on behalf of the
 corporation.

_____, Notary Public

My App't. Exp. _____

_____, Notary Public
 My App't. Exp. _____



ACCESS NOTE:
 OPENING SHALL BE ALLOWED ONLY
 INTO A RESIDENTIAL USE.

RESERVE "A"
 RESERVE "B"
 RESERVE "C"
 RESERVE "D"
 RESERVE "E"

LEGEND:
 ● = #4 REBAR (FOUND)
 ○ = #4 REBAR W/ "BAUGHMAN" CAP (SET)
 * = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
 ○ = 1/2" IRON (FOUND)
 ○ = #4 REBAR W/ "ARMSTRONG" CAP (FOUND)
 ✱ = BENCHMARK

(D) = DESCRIBED
 (CM) = CALCULATED PER MEASURED
 (M) = MEASURED
 (P) = PLATTED
 (BOB) = BASIS OF BEARINGS (KANSAS GRID SOUTH MAG.3)
 C.A.C. = COMPLETE ACCESS CONTROL

BENCHMARKS:
 BM #1: CROSS SOUTHWEST CORNER OF CURB
 INLET, SOUTH SIDE OF PAWNEE, 178'± EAST OF
 NORTHEAST CORNER OF LOT 3, BLOCK A
 ELEVATION = 1331.25 NAVD88

BM #2: SQUARE CUT NORTHWEST CORNER OF
 CURB INLET WEST SIDE OF 119TH ST W, 100'±
 SOUTH OF NORTHWEST CORNER OF THE
 NORTHWEST QUARTER, SEC. 6, 28-S, R-1-W.
 ELEVATION = 1338.39 NAVD88

BM #3: CROSS CUT SOUTH END OF RCP WEST
 SIDE OF 119TH ST W, 12'± NORTH OF SOUTHWEST
 CORNER OF THE NORTHWEST QUARTER, SEC. 6,
 28-S, R-1-W.
 ELEVATION = 1334.57 NAVD88

NOTE:
 No regrading within abutting rights-of-way
 shall be allowed with the construction of the
 berms allowed within Reserve "A". The berms
 cannot impact access to or bury manholes,
 water valves and/or water meters.

MINIMUM BUILDING PAD ELEVATIONS FOR
 LOWEST OPENING TO THE STRUCTURES

LOT	BLOCK	ELEVATION NAVD88
1-17, 29-36	B	1,333.0
51-64	B	1,333.0
63-94	E	1,335.0

DRAINAGE PLAN NOTE:
 A master drainage plan has been developed for this plat. All
 drainage easements, rights-of-way, and reserves shall remain at
 established grades (unless modified with the approval of the City
 Engineer) and shall be unobstructed to allow for the conveyance
 of stormwater in accordance with the Stormwater Manual. The
 maintenance of all drainageways and drainage facilities in
 backyard drainage easements and reserves shall be the
 responsibility of the property owner, and shall be enforced by the
 Homeowners' Association and be provided for in the
 Homeowners' Association covenants.

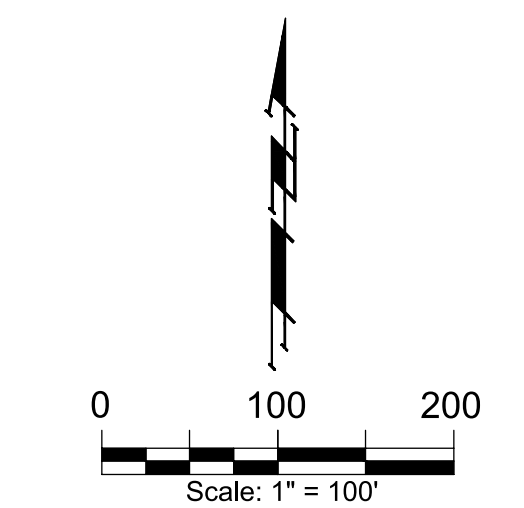
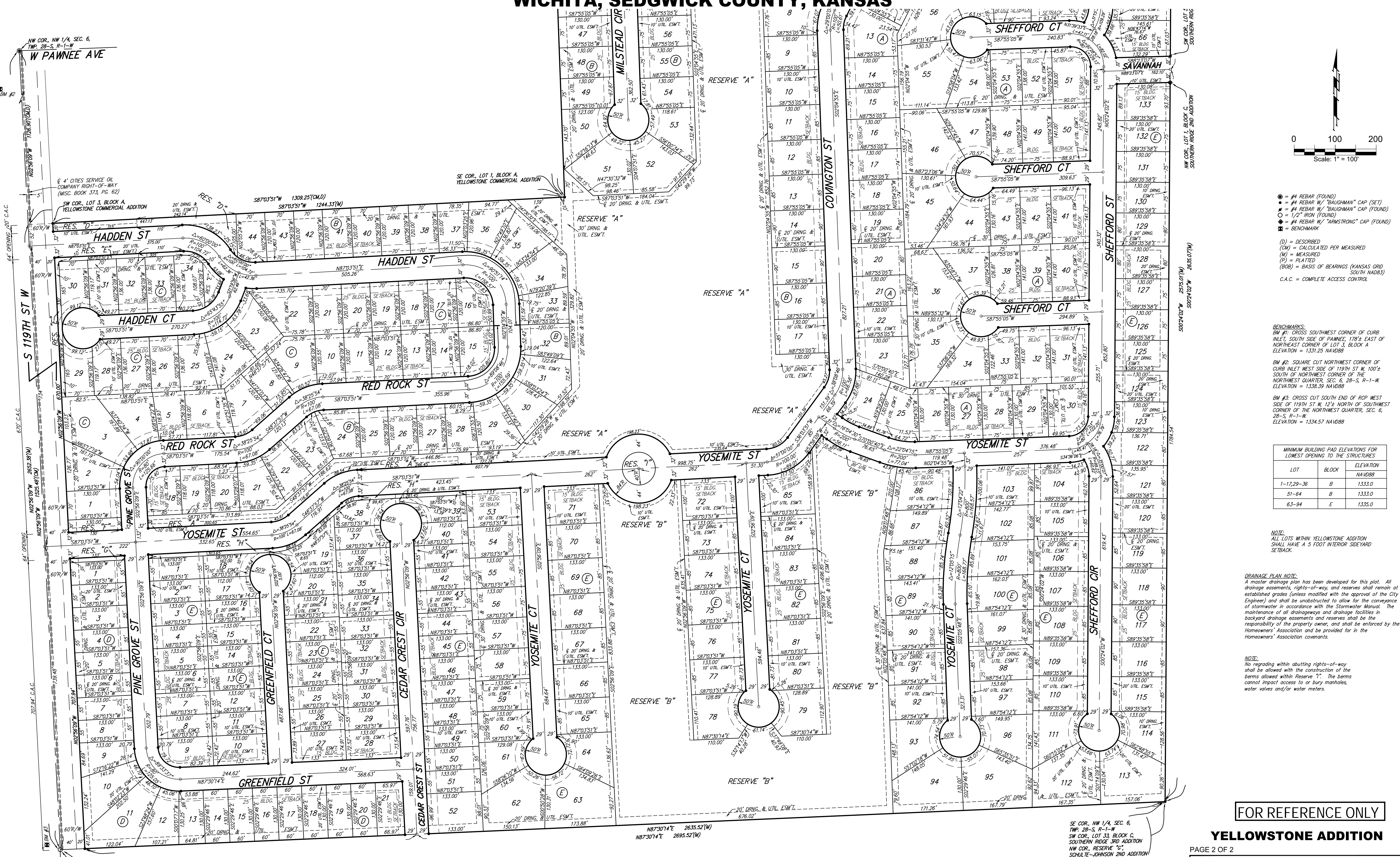
Scale: 1" = 100'

FOR REFERENCE ONLY

YELLOWSTONE ADDITION
 PAGE 1 OF 2

YELLOWSTONE ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



- = #4 REBAR (FOUND)
 - = #4 REBAR W/ "BAUGHMAN" CAP (SET)
 - = #4 REBAR W/ "BAUGHMAN" CAP (FOUND)
 - = 1/2" IRON (FOUND)
 - = #4 REBAR W/ "ARMSTRONG" CAP (FOUND)
 - ⊗ = BENCHMARK
- (D) = DESCRIBED
 (CM) = CALCULATED PER MEASURED
 (M) = MEASURED
 (P) = PLATTED
 (PB) = BASIS OF BEARINGS (KANSAS GRID SOUTH NAD83)
 C.A.C. = COMPLETE ACCESS CONTROL

- BENCHMARKS:**
- BM #1: CROSS SOUTHWEST CORNER OF CURB INLET, SOUTH SIDE OF PAWNEE, 178'± EAST OF NORTHEAST CORNER OF LOT 3, BLOCK A. ELEVATION = 1331.25 NAVD88
 - BM #2: SQUARE CUT NORTHWEST CORNER OF CURB INLET WEST SIDE OF 119TH ST W, 100'± SOUTH OF NORTHWEST CORNER OF THE NORTHWEST QUARTER, SEC. 6, 28-S, R-1-W. ELEVATION = 1338.59 NAVD88
 - BM #3: CROSS CUT SOUTH END OF RCP WEST SIDE OF 119TH ST W, 12'± NORTH OF SOUTHWEST CORNER OF THE NORTHWEST QUARTER, SEC. 6, 28-S, R-1-W. ELEVATION = 1334.57 NAVD88

LOT	BLOCK	ELEVATION NAVD88
1-17, 29-36	B	1333.0
51-64	B	1333.0
63-94	E	1335.0

NOTE:
 ALL LOTS WITHIN YELLOWSTONE ADDITION SHALL HAVE A 5 FOOT INTERIOR SIDEYARD SETBACK.

DRAINAGE PLAN NOTE:
 A master drainage plan has been developed for this plat. All drainage easements, rights-of-way, and reserves shall remain at established grades (unless modified with the approval of the City Engineer) and shall be unobstructed to allow for the conveyance of stormwater in accordance with the Stormwater Manual. The maintenance of all drainages and drainage facilities in backyard drainage easements and reserves shall be the responsibility of the property owner, and shall be enforced by the Homeowners' Association and be provided for in the Homeowners' Association covenants.

NOTE:
 No regrading within abutting rights-of-way shall be allowed with the construction of the berms allowed within Reserve "1". The berms cannot impact access to or bury manholes, water valves and/or water meters.

FOR REFERENCE ONLY

YELLOWSTONE ADDITION

PAGE 2 OF 2



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

SE COR., NW 1/4, SEC. 6,
 TWP. 28-S, R-1-W
 SW COR., LOT 33, BLOCK C,
 SOUTHERN RIDGE 3RD ADDITION
 NW COR., RESERVE "1"
 SCHULTE-JOHNSON 2ND ADDITION

E:\Projects\Yellowstone Addition\Kelsey\23-109-P208\PlanDrawings\Yellowstone Add_Mylar.dwg