

Contractor: Utility Plus  
 Inspector: Fred Smith, Baughman Co.  
 pdf by: KEK, 4/1/14

## GENERAL NOTES:

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

Kansas One-Call 687-2470

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

Cox Communications 262-4270  
 Kansas Gas Service 1-888-482-4950  
 Westar Energy 383-8650  
 Black Hills Energy 1-800-303-0357  
 AT&T 268-2245  
 City of Wichita Water Dept. 268-4563  
 City of Wichita Sewer Maint. 268-4024  
 City of Wichita Storm Sewer Maint. 268-4090  
 City of Wichita Traffic Maint. 268-4034  
 Conoco Phillips Pipeline Co. 1-877-287-2290  
 Southern Star Pipeline Co. 529-6600  
 Kinder-Morgan Pipeline Co. 1-888-844-5658

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

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

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

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

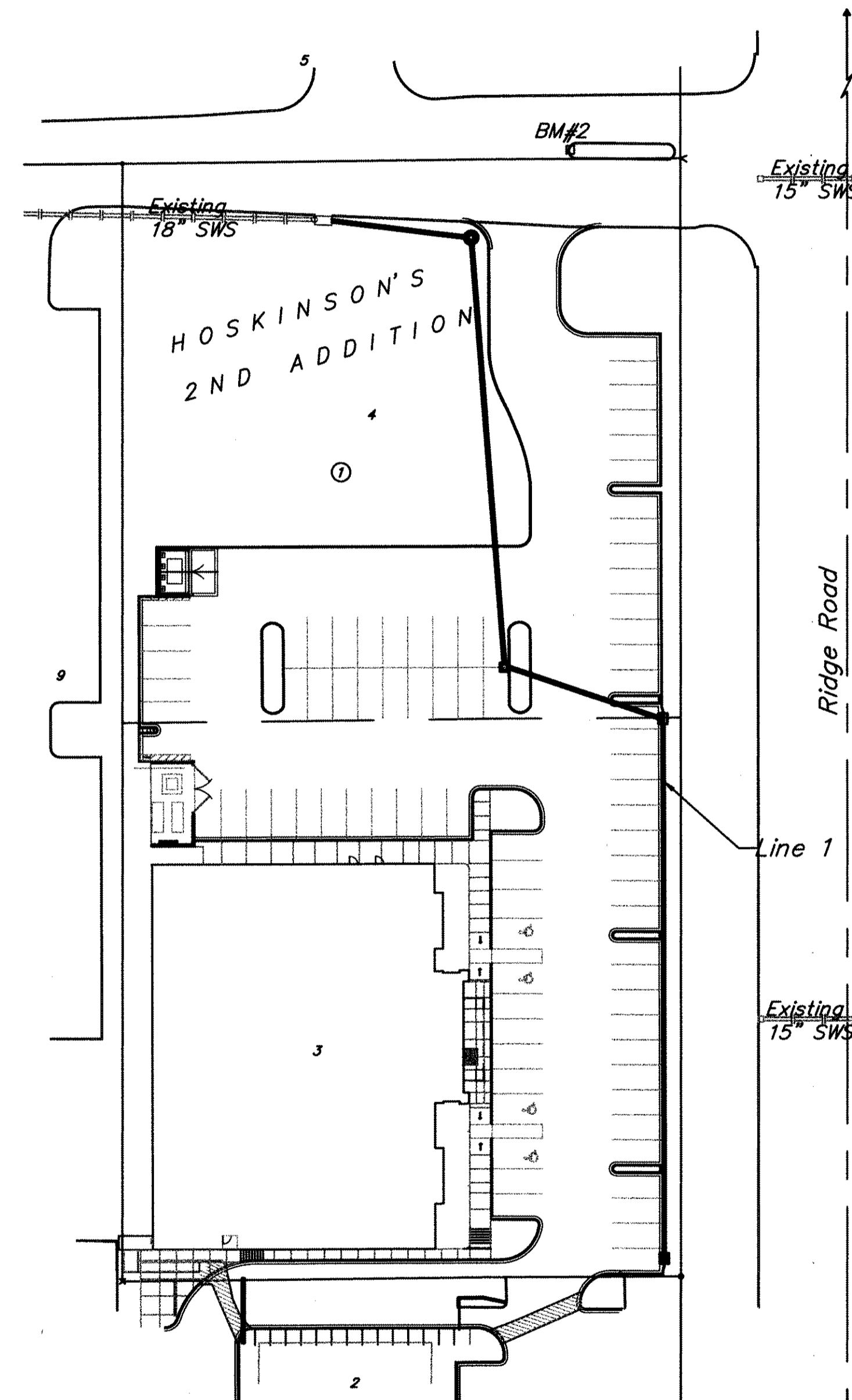
6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by his construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.

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

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

9. All areas disturbed during construction shall not be seeded with this project. Site will be seeded by site contractor.

10. This development complies with Section 16.32 of the The City Code and the Wichita/Sedgwick County Storm Water Manual.



STORM WATER INFORMATION:

Total Area:	±80,063 sq. ft. (1.84 acres)
Disturbed Area:	±80,063 sq. ft. (1.84 acres)
Pre Construction Impervious Area:	±4,218 sq. ft. (0.10 acres)
Post Construction Impervious Area:	±52,331 sq. ft. (1.10 acres)
Building Area:	20,999 sq. ft.
WQv	0.12 ac. ft.
CPv	N/A
Detention	N/A

# STORM WATER SEWER IMPROVEMENTS to serve **TIGER FINANCIAL HOSKINSON'S 2ND ADDITION** CITY OF WICHITA, KANSAS

Gary Janzen, P.E. City Engineer  
 Project Number  
 197 PP (607861)

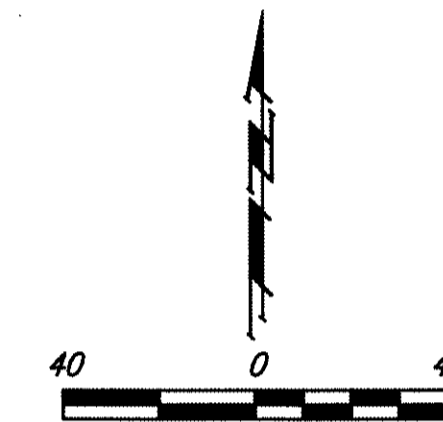
## Benchmark:

BM #1: County Benchmark, Chiseled Square on the South Hubguard RCBC, 73' West of Ridge Road on 37th Street North.  
 Elev. = 1331.52 NGVD29

BM #2: "□" cut in curb at west end of entrance median north of Lot 4, Block 1, Hoskinson's 2nd Addition.  
 Elev. = 1333.28 NGVD29

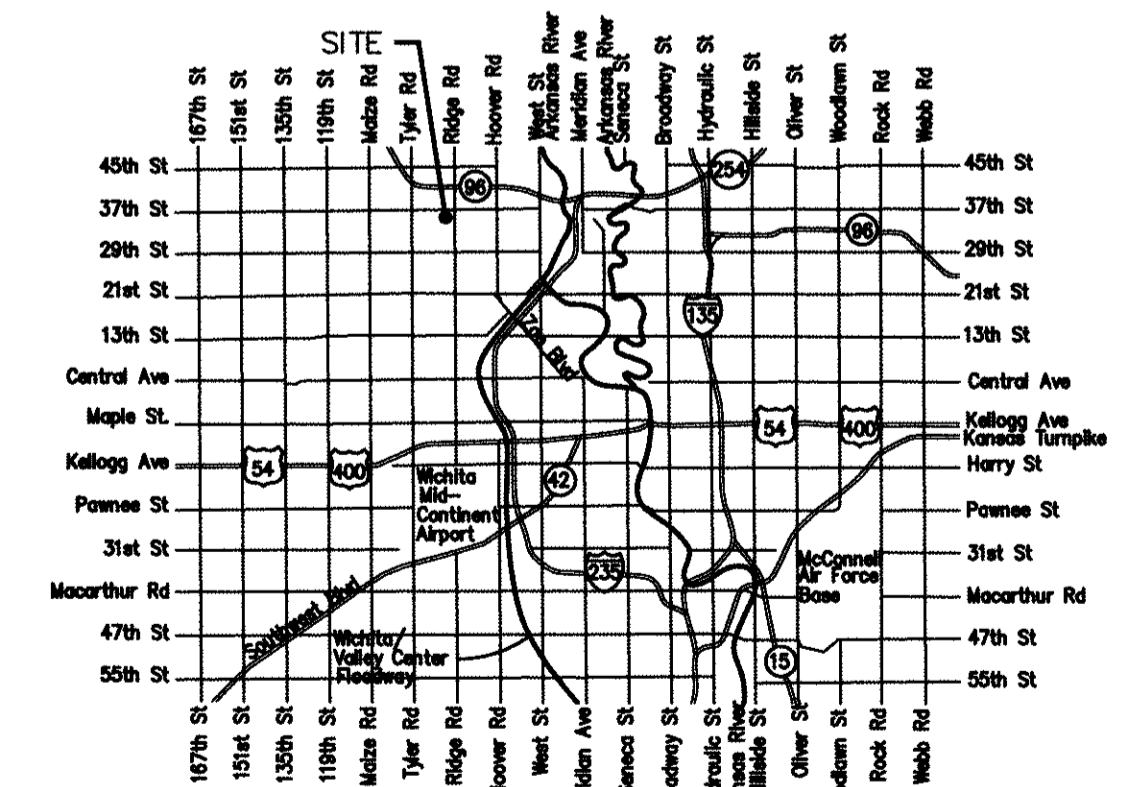
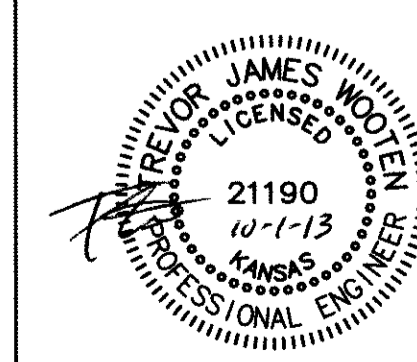
## Sheet Index

Title Sheet	1
Line 1	2
Standard Type 2 Curb Inlet	3
Standard Drop Inlet Detail	4
Hydroworks HG4 Detail	5
Copy of Plat	6



APPROVED AS NOTED  
 BY CITY ENGINEER OF WICHITA  
 Storm Sewers *[Signature]* 07/26/13

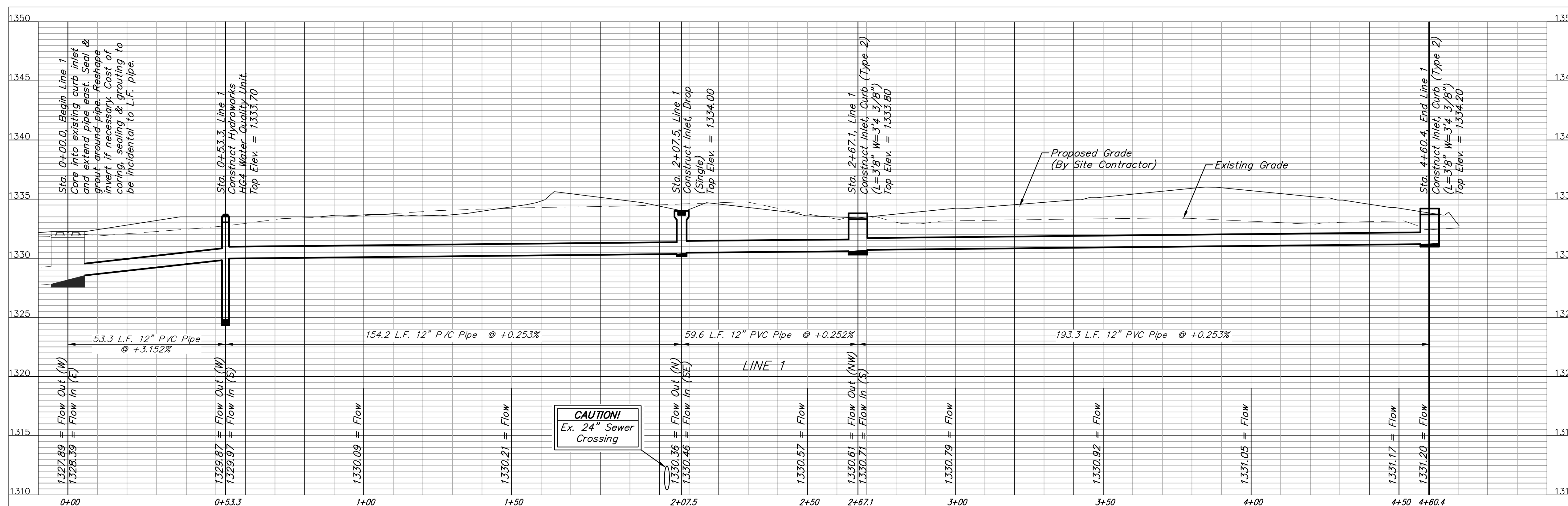
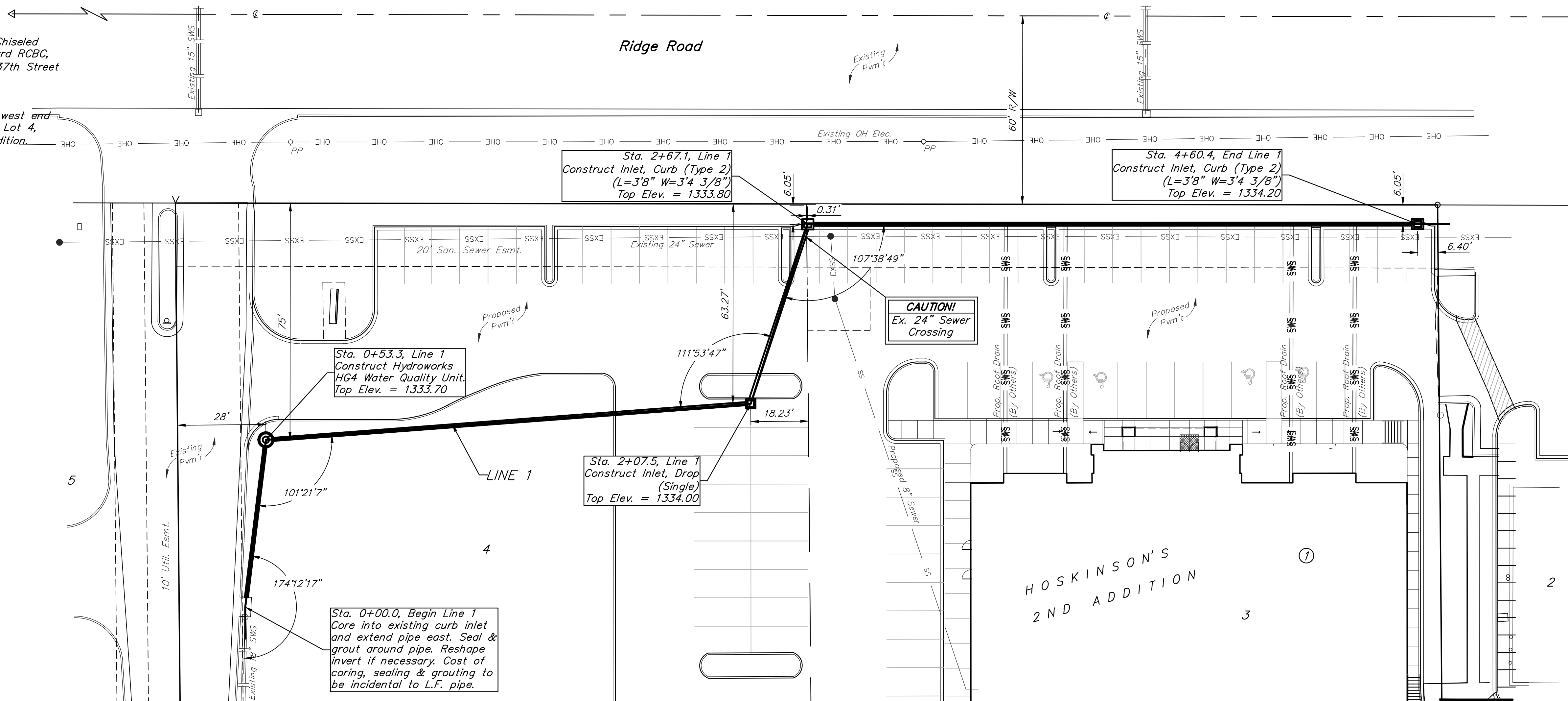
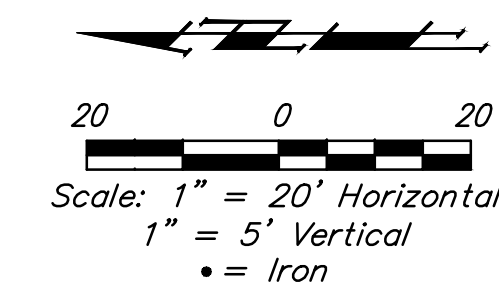
NOTE TO CONTRACTORS  
 Installation, inspection and testing for this project is to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).



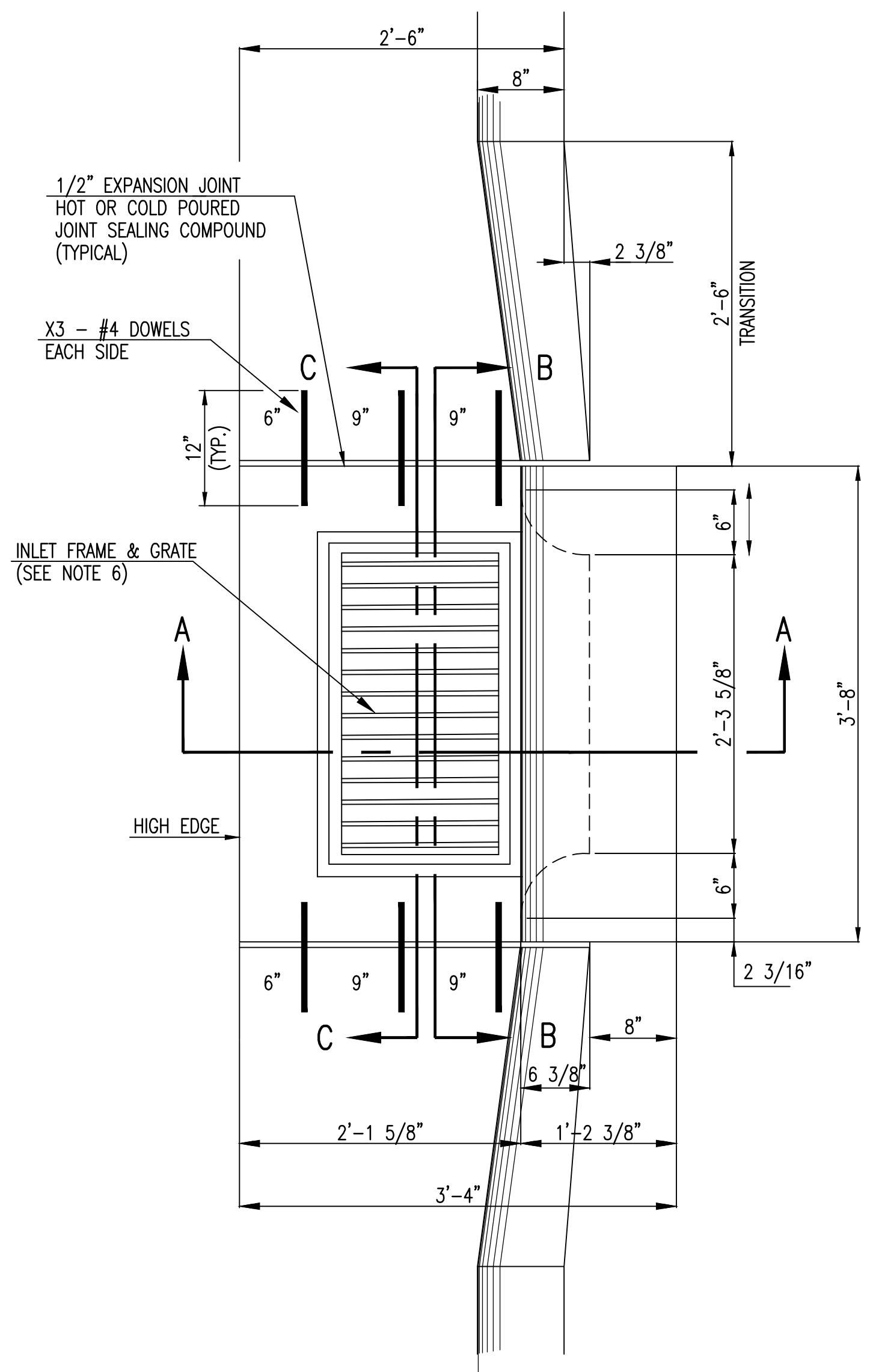
Vicinity Map

**BENCHMARK:**  
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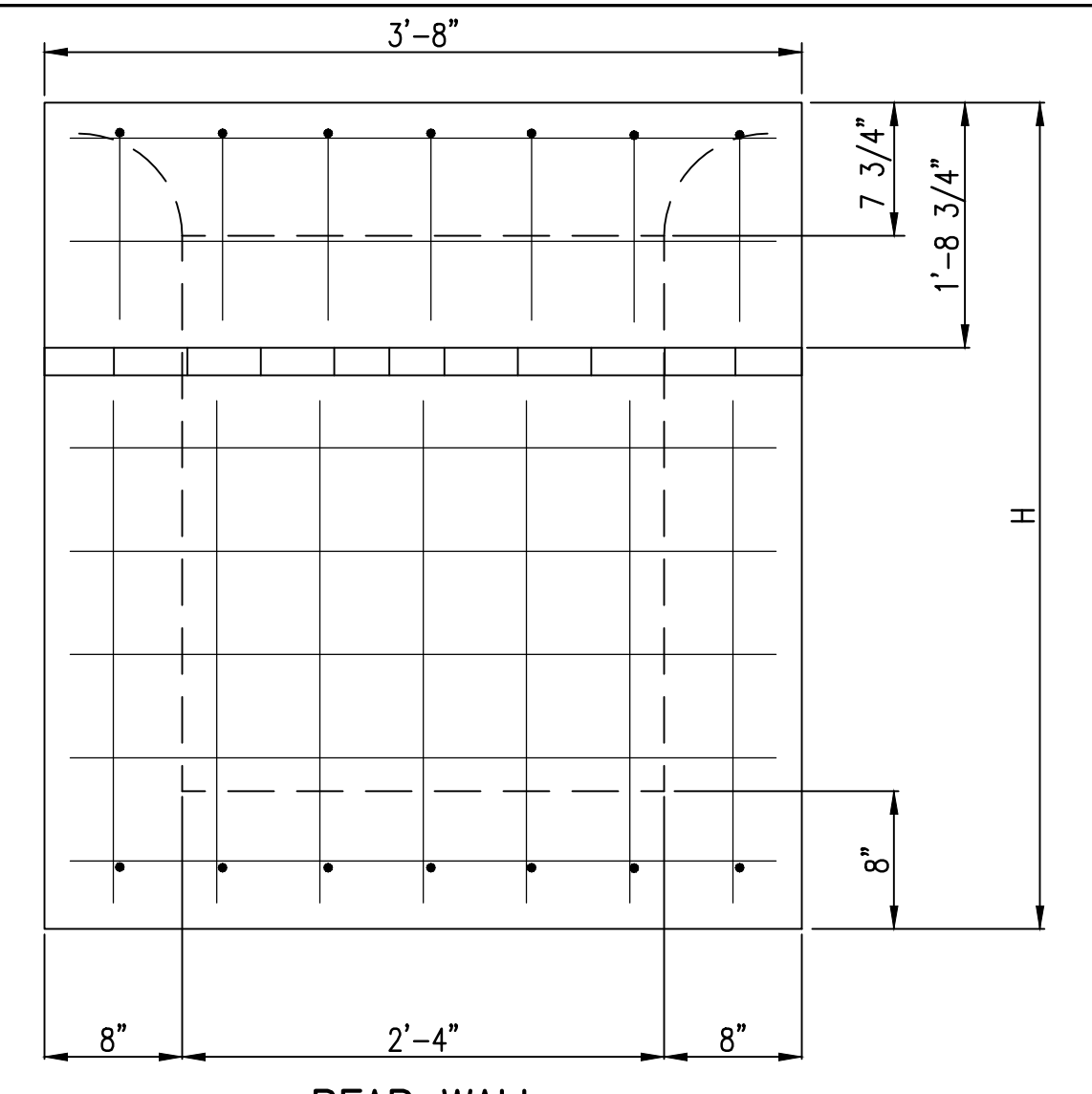
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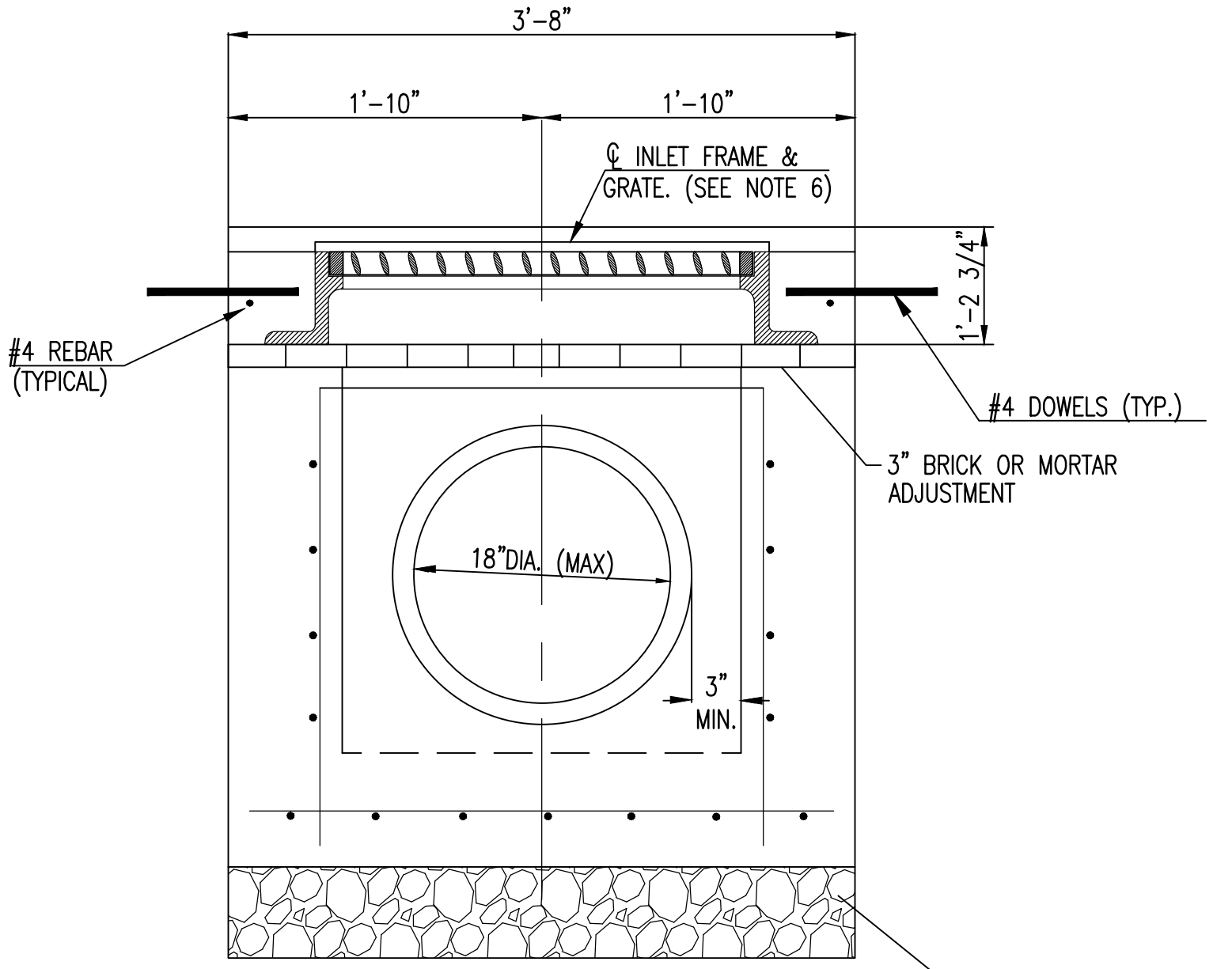
	<b>TIGER FINANCIAL</b> <b>LINE 1</b> STORM WATER SEWER IMPROVEMENTS	
	<small>Baughman Company, P.A. 315 Ellis St., Wichita, KS 67211 P 316-262-2771 F 316-262-0149          ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE</small>	
PROJECT NUMBER	DESIGN TJW	DRAWN TMS
REVISIONS:	APPROVED DATE 09/13	SCALE Noted SHEET
		<b>2 OF 6</b>



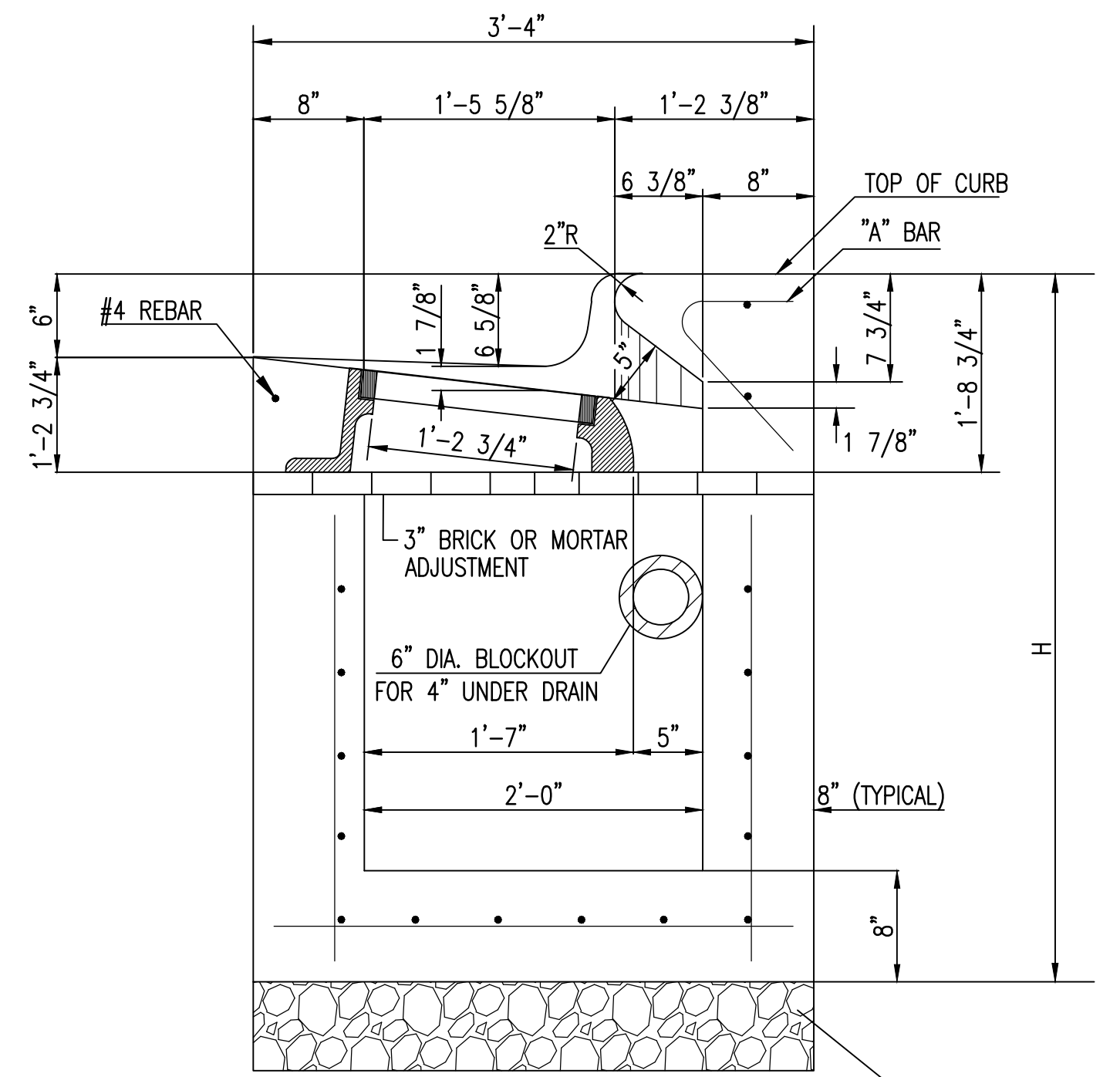
PLAN



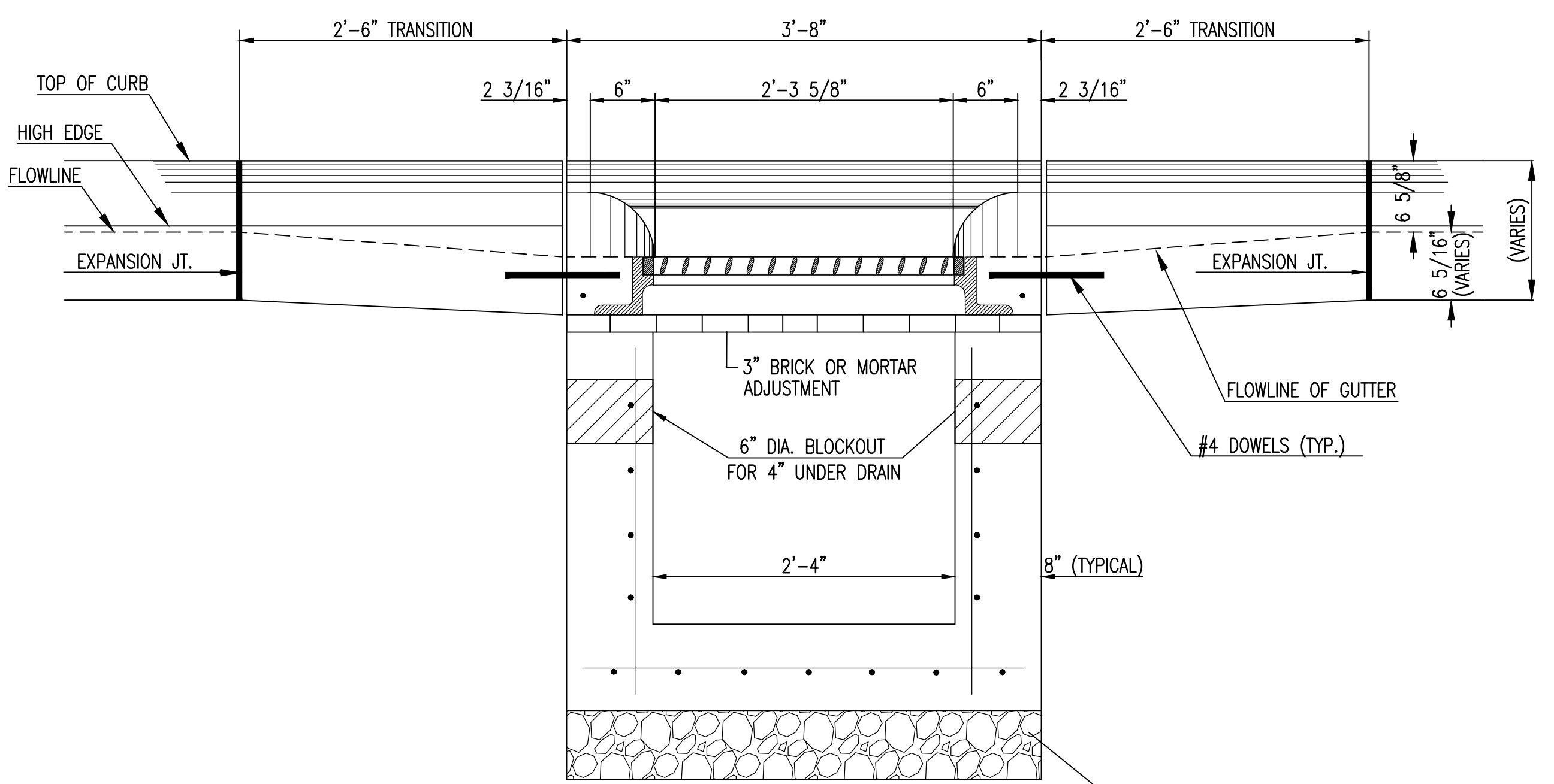
REAR WALL



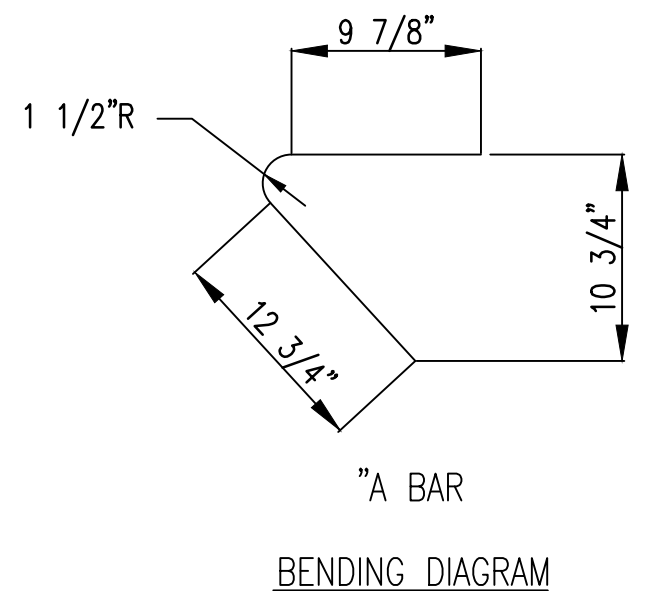
SECTION C-C



SECTION A-A



SECTION B-B



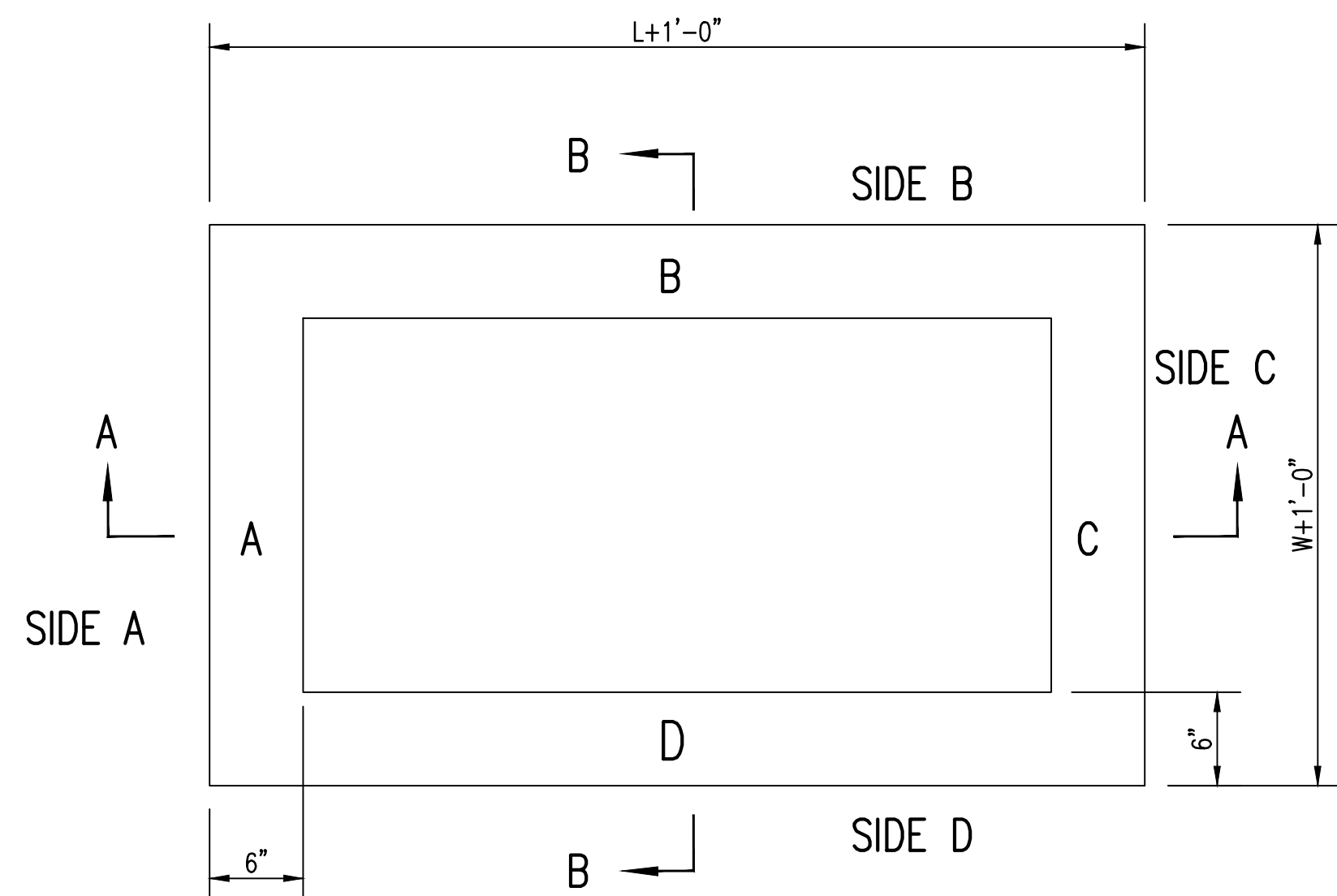
"A" BAR BENDING DIAGRAM

GENERAL NOTES

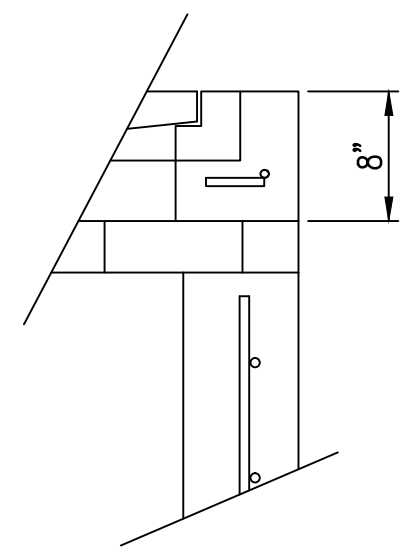
1. USE THE CONCRETE MIX SPECIFIED FOR THE CITY OF WICHITA CONCRETE PAVEMENT THROUGHOUT. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE BENT AROUND PIPE.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. ALL BARS ARE #4 WITH 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2 INCHES UNLESS OTHERWISE NOTED ON THE PLANS.
4. WHEN DIRECTED BY THE ENGINEER, A SMALL OPENING MAY BE REQUIRED IN THE BACK OF THE INLET IN ORDER TO DRAIN A LOW AREA. REINFORCING BARS WILL EXTEND THROUGH THE OPENINGS. NO DEDUCTIONS IN CONCRETE QUANTITIES WILL BE MADE FOR THESE OPENINGS.
5. NO DEDUCTIONS WILL BE MADE IN PAY LENGTH OF CURB, GUTTER, OR CURB AND GUTTER THROUGH THE INLET AREA.
6. USE DEETER FOUNDRY, INC. CASTING NO. 2442/43 OR EJIW 7600Z LEFT SIDE, 7600 RIGHT SIDE IN INLET FRAME AND GRATE WITH STYLE H GRATE. INLET FRAME TO BE PROOF LOAD TESTED TO 40,000 LBS. ON UNSUPPORTED SIDE.
7. REINFORCING BARS SHALL BE CUT OR BENT AROUND PIPES. NO DEDUCTION IN CONCRETE QUANTITIES SHALL BE MADE FOR PIPE OPENINGS.
8. THE VANES OF THE GRATE SHALL BE ORIENTED WITH RESPECT TO THE FLOW ARROWS SHOWN ON THE PLANS.
9. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



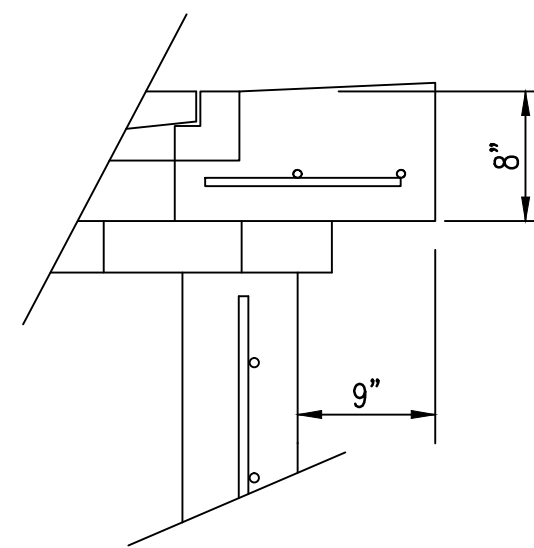
<b>STANDARD SINGLE TYPE II CURB INLET</b>		
CITY ENGINEER <b>GARY JANZEN, P.E.</b>		
PROJECT NUMBER	OCA NUMBER	DATE
		09/13
CITY ENGINEER'S OFFICE		SHEET
CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		3 of 6



TOP VIEW

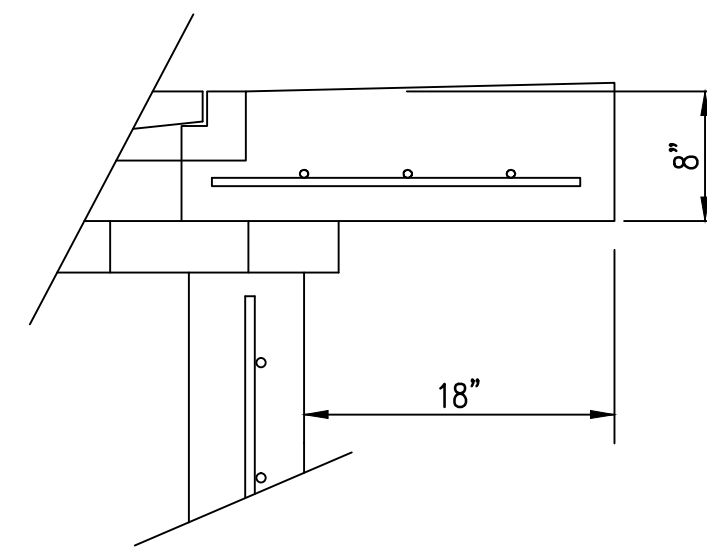


FLUSH STYLE TOP  
NO APRON



9" APRON

\* APRON TO EXTEND ON ALL 4 SIDES OF INLET.  
DESIGNER TO DESIGNATE APRON SIZE.



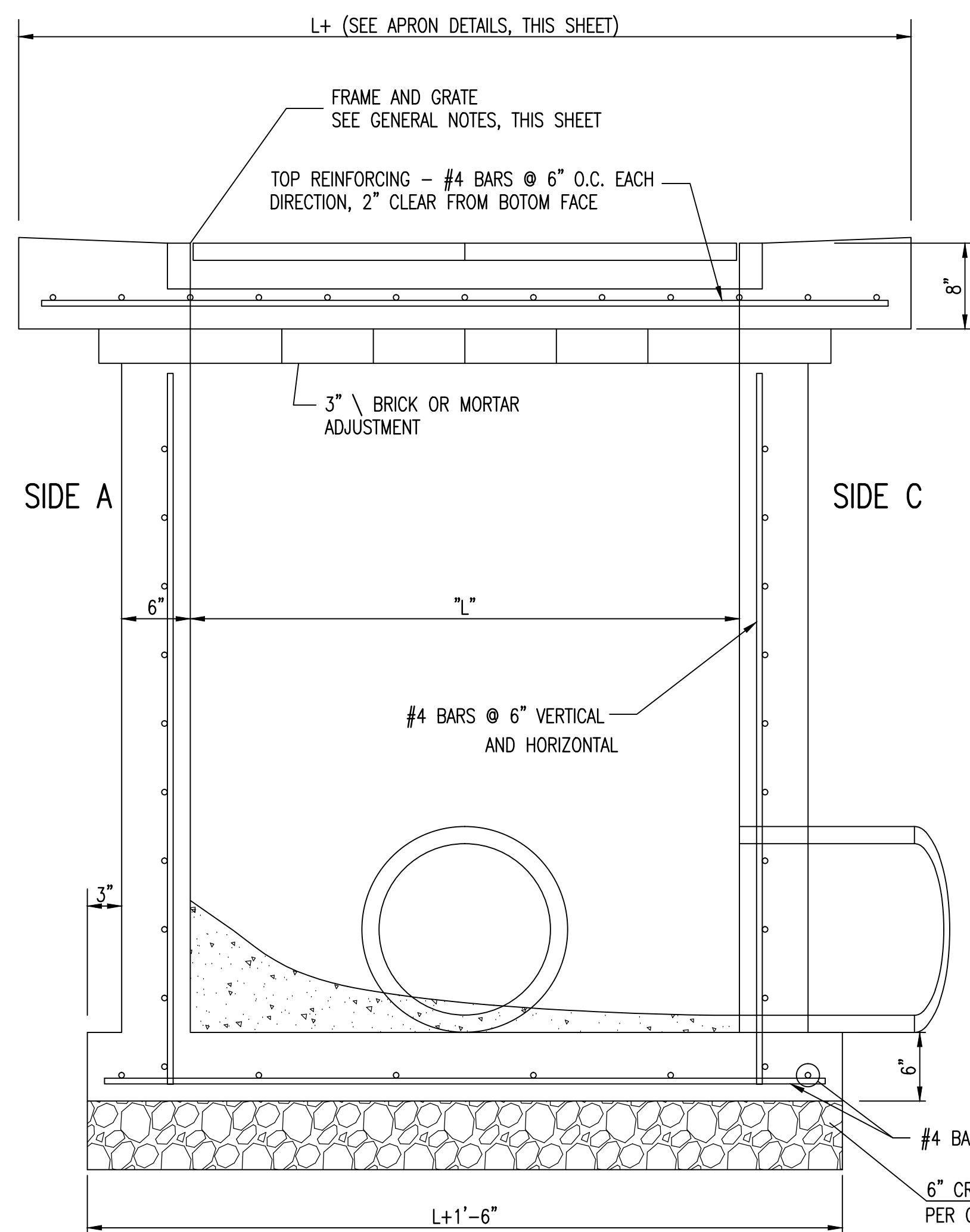
18" APRON

W=2' and L=2' for SINGLE DROP INLET  
W=2' and L=4' for DOUBLE DROP INLET

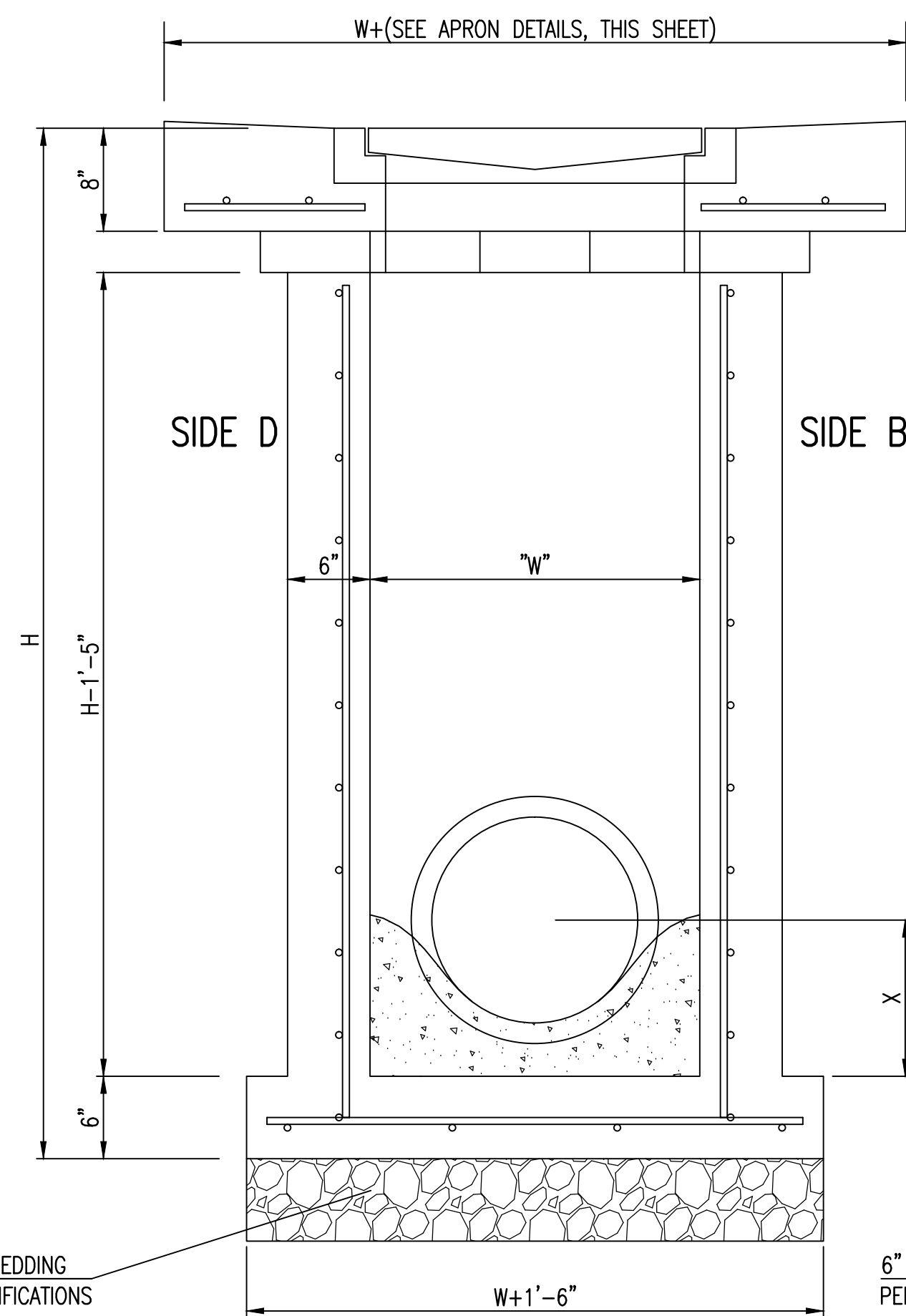
The structure(s) on this detail sheet are designed for HS-20 loading at these specific dimensions only. If larger dimensions are required, the ENGINEER shall provide a project specific structure design for approval by the City Engineer's office.

GENERAL NOTES

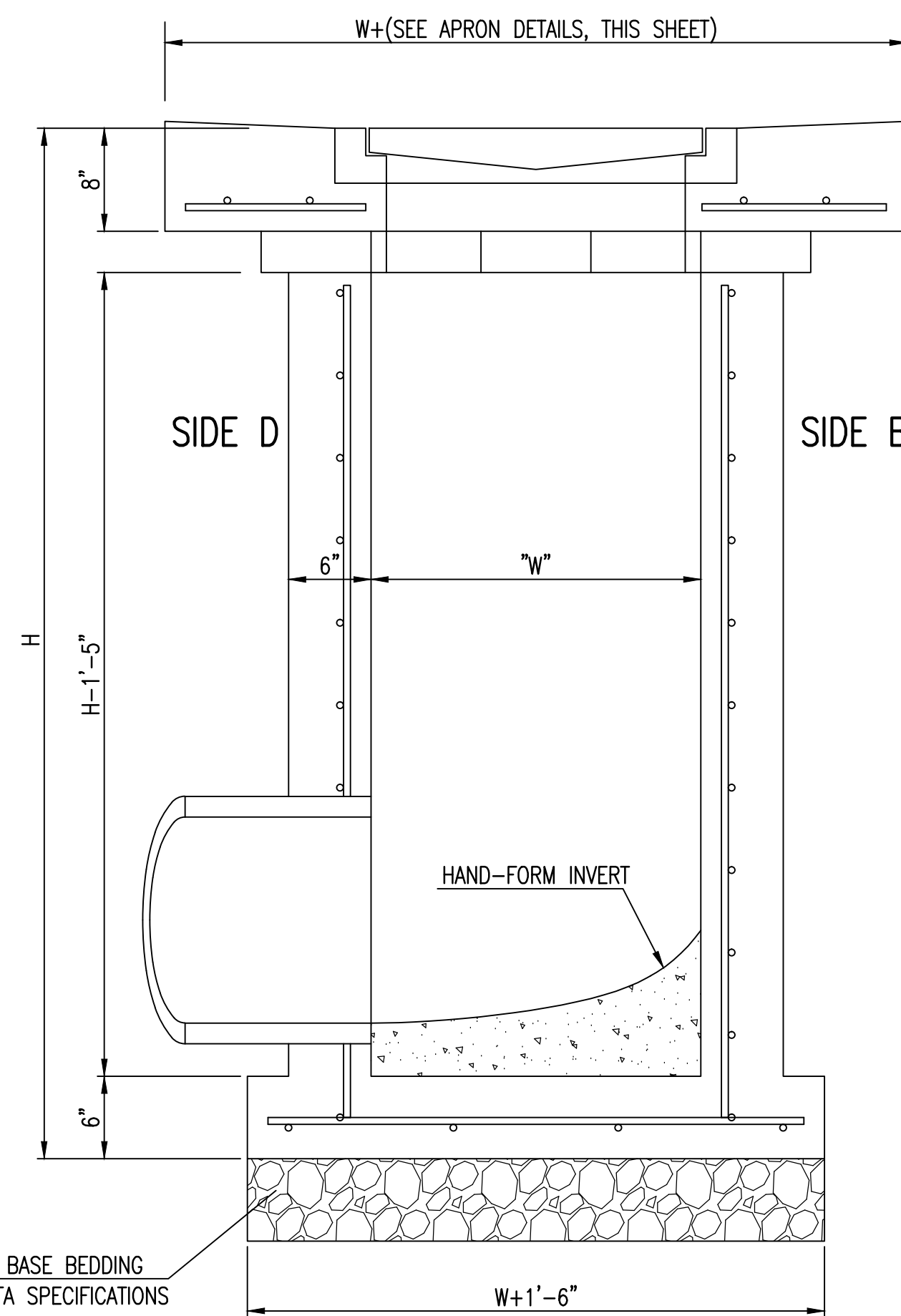
1. GRATE FRAME TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK. CONCRETE USED FOR INLET CONSTRUCTION SHALL CONFORM TO CITY OF WICHITA SPECIFICATIONS FOR CONCRETE PAVEMENT MIX.
2. INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.
4. INLET FRAME AND GRATE TO BE DEETER #2433, EJIW #5391-Z1 OR APPROVED EQUAL FOR 2'x2' SINGLE DROP INLET AND DEETER #2434, EJIW #5391 Z3 OR APPROVED EQUAL FOR 2'x4' DOUBLE DROP INLET.
5. CONTRACTOR SHALL REMOVE LIFTING HOOKS AFTER INSTALLATION. RECESSES IN INLET WALL SHALL BE GROUTED FLUSH TO THE INLET WALL WITH HYDRAULIC CEMENT AFTER THE INLET IS IN PLACE. LIFTING HOLES THRU THE INLET WALL WILL NOT BE ACCEPTED.



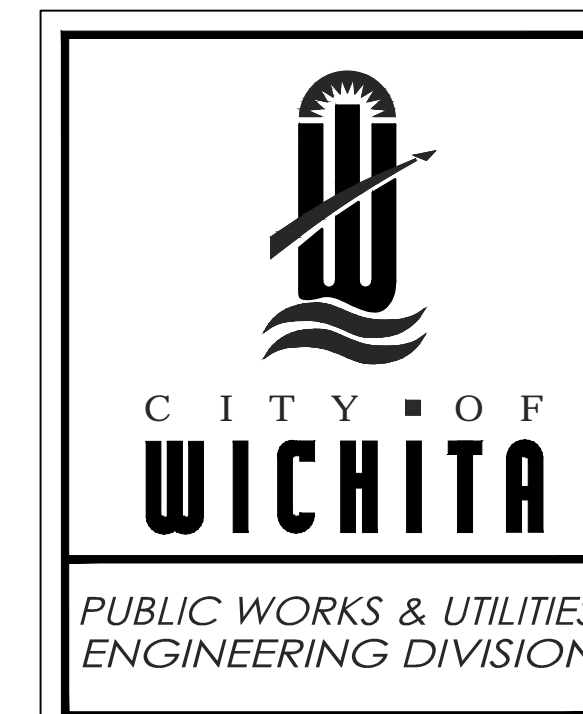
SECTION "A-A"



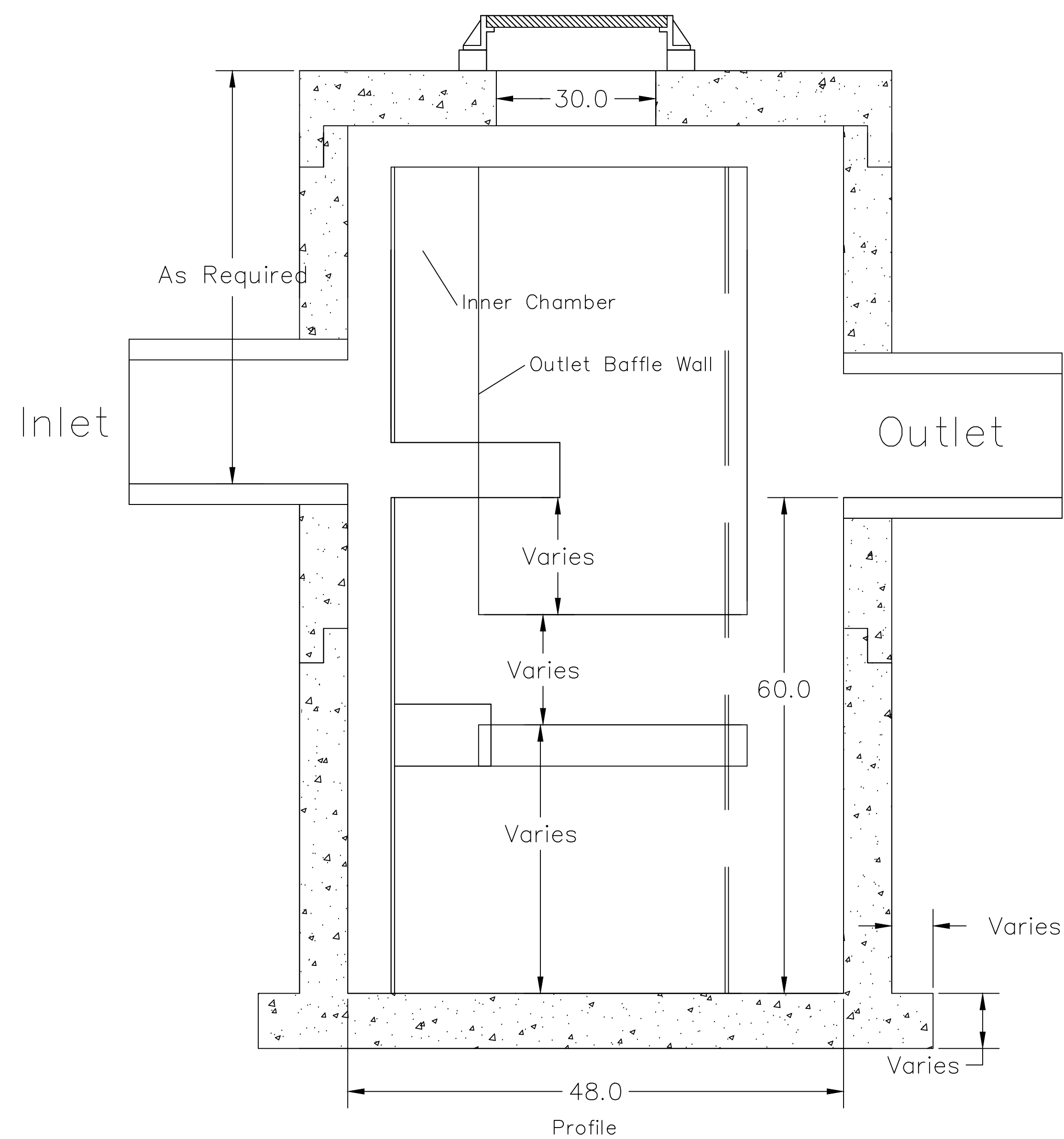
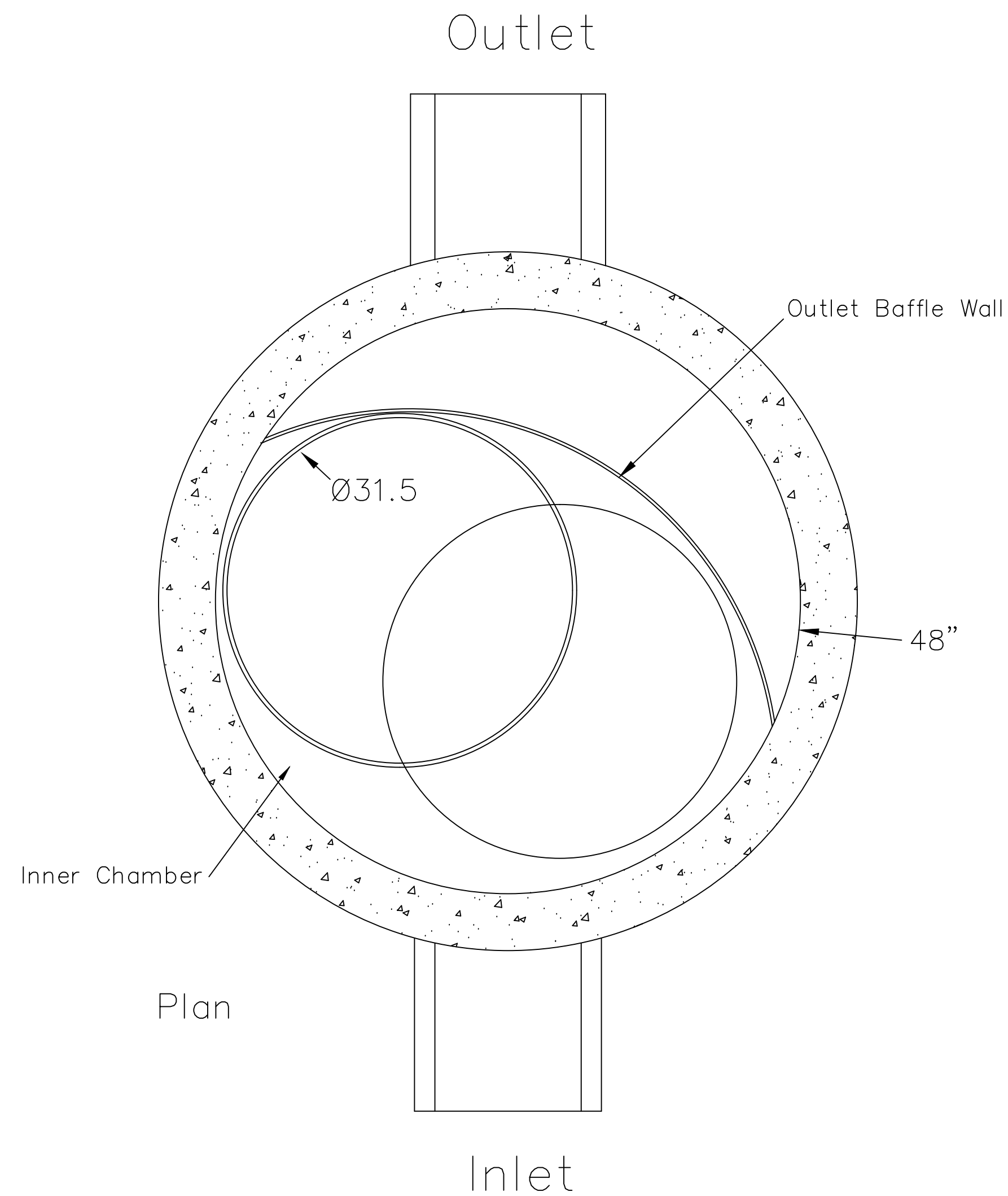
SECTION "B-B"  
END OUTLET



SECTION "B-B"  
SIDE OUTLET



REvised 05/10/2011 - GJ		
<b>SINGLE/DOUBLE DROP INLET</b>		
CITY ENGINEER <b>Gary Janzen, P.E.</b> City Engineer		
PROJECT NUMBER	OCA NUMBER	DATE 09/13
CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202-1620 (316) 268-4501		DESIGN Staff DRAWN Staff SHEET 4 of 6



U.S. Patent No. 6,951,619

Dimensions in inches  
 Permanent Pool Volume = 450 US gallons  
 The Hydroguard must be cleaned after the construction period if it is used as a sediment and erosion control measure  
 The Hydroguard should be inspected once per year for stabilized sites  
 Inspection will determine the maintenance frequency (annual maintenance or once every two years typical for stabilized sites)  
 Sites with unstable conditions (exposed soil or materials storage) will require more frequent inspection and maintenance

Hydroworks, LLC  
 50 S. 21st St., Kenilworth, NJ 07033  
 Phone: 888-290-7900 Fax: 888-783-7271  
 Web: www.hydroworks.com


### Hydroworks HG4 (48" $\phi$ )

PROJECT:

LOCATION:

REVISION DATE: 02/10/2011

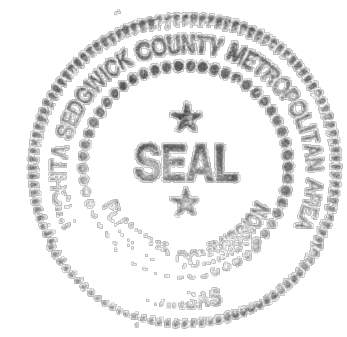


	<b>4' DIA. HYDROWORKS WATER QUALITY UNIT</b> STORM WATER SEWER IMPROVEMENTS	
	<small>Baughman Company, P.A. 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149          ENGINEERING   SURVEYING   PLANNING   LANDSCAPE ARCHITECTURE</small>	
PROJECT NUMBER	DESIGN	DRAWN
REVISIONS:	APPROVED	DATE
	Noted	09/13
	SHEET	5 OF 6

**HOSKINSON 2ND ADDITION  
SEDGWICK COUNTY, KANSAS**

State of Kansas )  
Sedgwick County ) ss  
I, the undersigned licensed land surveyor in aforesaid county and state, do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "HOSKINSON 2ND ADDITION", Sedgwick County, Kansas and that the accompanying plat is a true and correct exhibit of the property surveyed, described as follows:

State of Kansas )  
Sedgwick County ) ss  
This plat of "HOSKINSON 2ND ADDITION", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.  
Dated this 13<sup>th</sup> day of January, 2000.  
Wichita-Sedgwick County Metropolitan Area Planning Commission.



*James S. Garafalo*, Chair  
Francis S. Garafalo  
*Marvin S. Kroat*, Secretary  
Marvin S. Kroat

A tract of land in the East 1/4 of the Northeast 1/4 of Section 33, Township 26 South, Range 1 West of the 6<sup>th</sup> P.M. being more particularly described as follows:  
Beginning at a 1" iron pipe that is 75 feet west and 75 feet south of the Northeast corner of the Northeast 1/4 of said Section 33;  
Thence S 00°07'35" W (assumed) parallel with and 75 feet west of the east line of said Northeast 1/4, for a distance of 174.16 feet;  
Thence S 08°24'16" E for a distance of 101.12 feet;  
Thence S 00°07'35" W parallel with and 60 feet west of the east line of said Northeast 1/4 for a distance of 1500.00 feet;  
Thence S 89°31'53" W for a distance of 120.00 feet;  
Thence N 08°13'33" W for a distance of 141.85 feet;  
Thence N 24°27'58" W for a distance of 139.62 feet;  
Thence N 43°08'57" W for a distance of 68.62 feet;  
Thence N 18°44'14" W for a distance of 713.11 feet;  
Thence N 08°16'47" W for a distance of 68.73 feet;  
Thence N 00°04'46" W for a distance of 220.00 feet;  
Thence N 03°39'56" W for a distance of 275.60 feet;  
Thence N 36°34'54" W for a distance of 41.90 feet;  
Thence S 89°29'08" W for a distance of 294.00 feet;  
Thence N 00°07'35" E for a distance of 206.00 feet;  
Thence N 89°29'08" E parallel with and 60' south of the north line of said Northeast 1/4 for a distance of 535.00 feet;  
Thence S 76°28'41" E for a distance of 103.08 feet;  
Thence N 89°29'08" E parallel with and 75 feet south of the north line of said Northeast 1/4 for a distance of 174.16 feet to the Point of Beginning.

State of Kansas )  
City of Wichita ) ss  
This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 28<sup>th</sup> day of March, 2000.

*Bob Knight*, Mayor  
Bob Knight  
*Pat Burnett*, City Clerk  
Pat Burnett

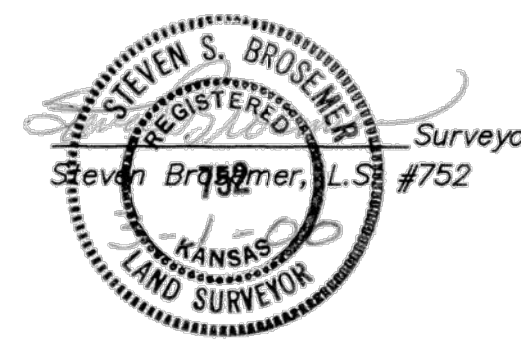
State of Kansas )  
Sedgwick County ) ss  
The dedications shown on this plat, if any, are hereby accepted by the Board of County Commissioners, Sedgwick County, Kansas on April 19<sup>th</sup>, 2000.

*Thomas G. Winters*, Chairman  
Thomas G. Winters  
Attest: *James Alford*, County Clerk  
James Alford

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 20<sup>th</sup> day of April, 2000, at 10:13 o'clock AM; and is duly recorded.  
*Bill Meek*, Register of Deeds  
Bill Meek  
*Linda Kizzire*, Deputy  
Linda Kizzire

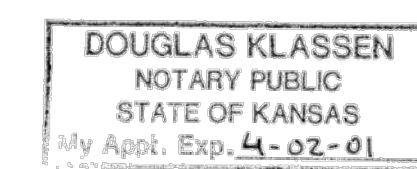
Entered on transfer record this 19<sup>th</sup> day of April, 2000.  
*James Alford*, County Clerk  
James Alford

Reviewed in accordance with K.S.A. 58-2005 on this 23<sup>rd</sup> day of March, 2000

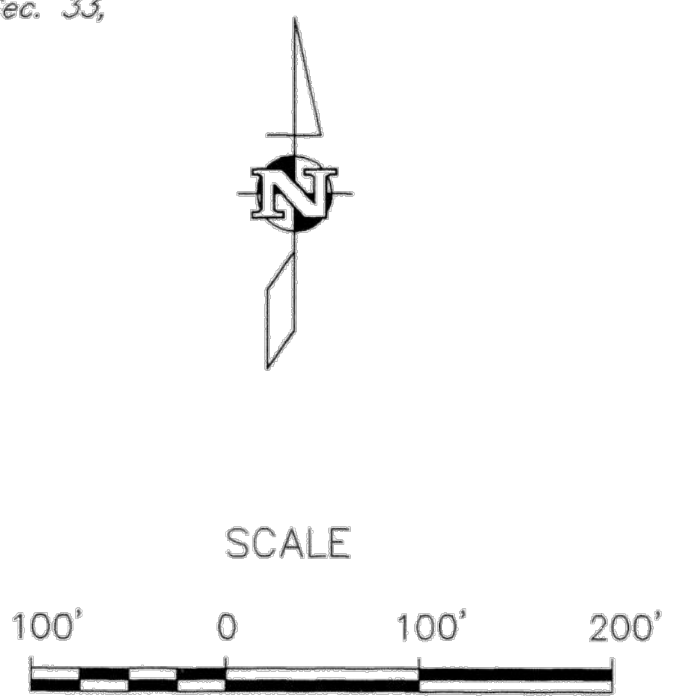
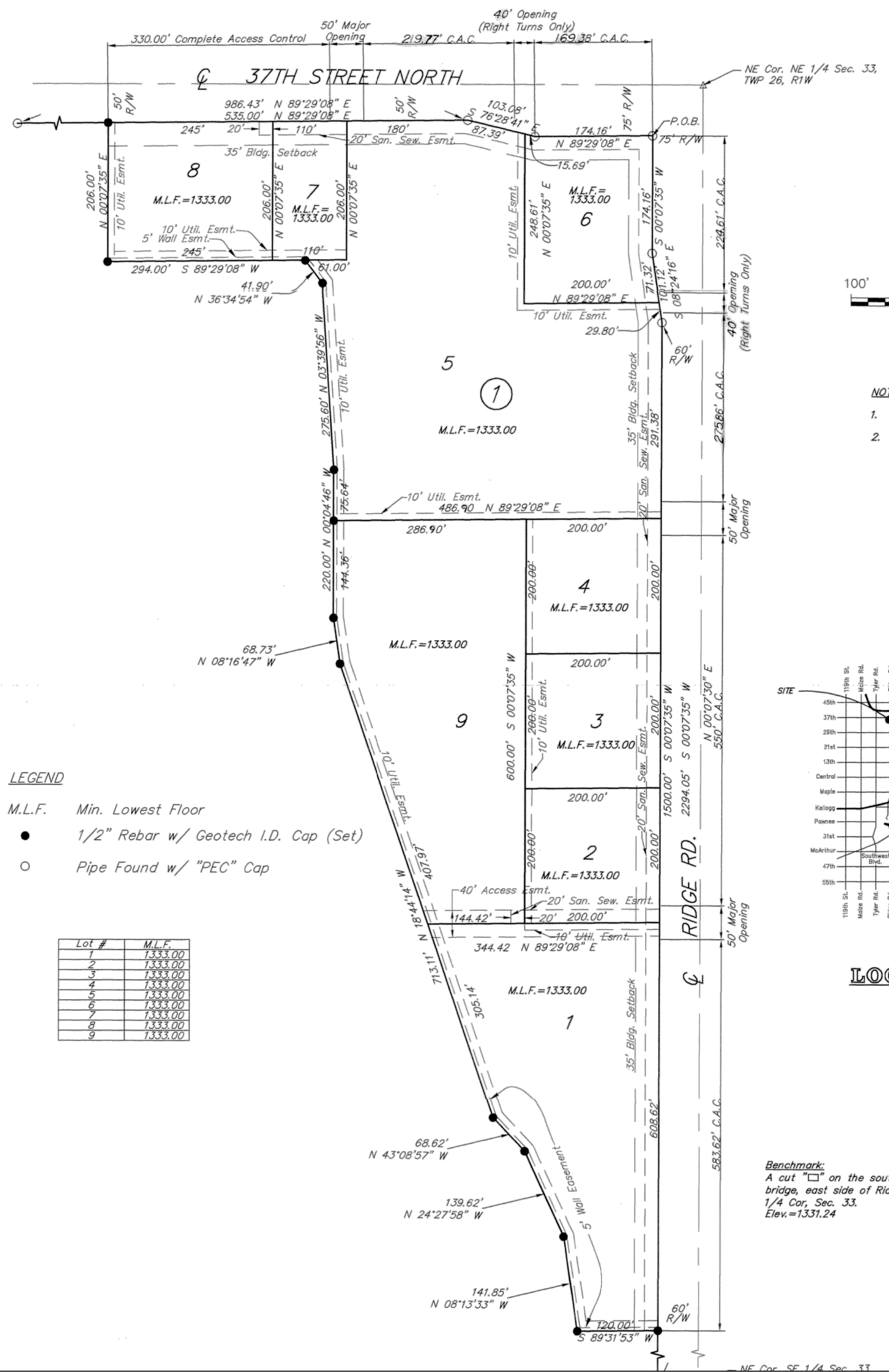


State of Kansas )  
Sedgwick County ) ss  
Know all men by these presents, that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into Lots and a Block to be known as "HOSKINSON 2ND ADDITION", Sedgwick County, Kansas. The utility easements are hereby granted as indicated for constructing, maintaining, operating, and repairing public improvements. The wall easements are hereby granted as indicated for constructing and maintaining screening walls. The access controls are hereby dedicated to the appropriate governing body as shown hereon. Minimum building floor elevations have been established for this property.  
A drainage plan has been developed for the plat. All drainage easements, rights-of-way, or reserves shall remain at established grades or as modified with the approval of the applicable City or County Engineer, and unobstructed to allow for the conveyance of stormwater.  
Date 3-30-00  
By: *Michael J. Boyd*  
Michael J. Boyd,  
Member, Box Development, L.L.C.

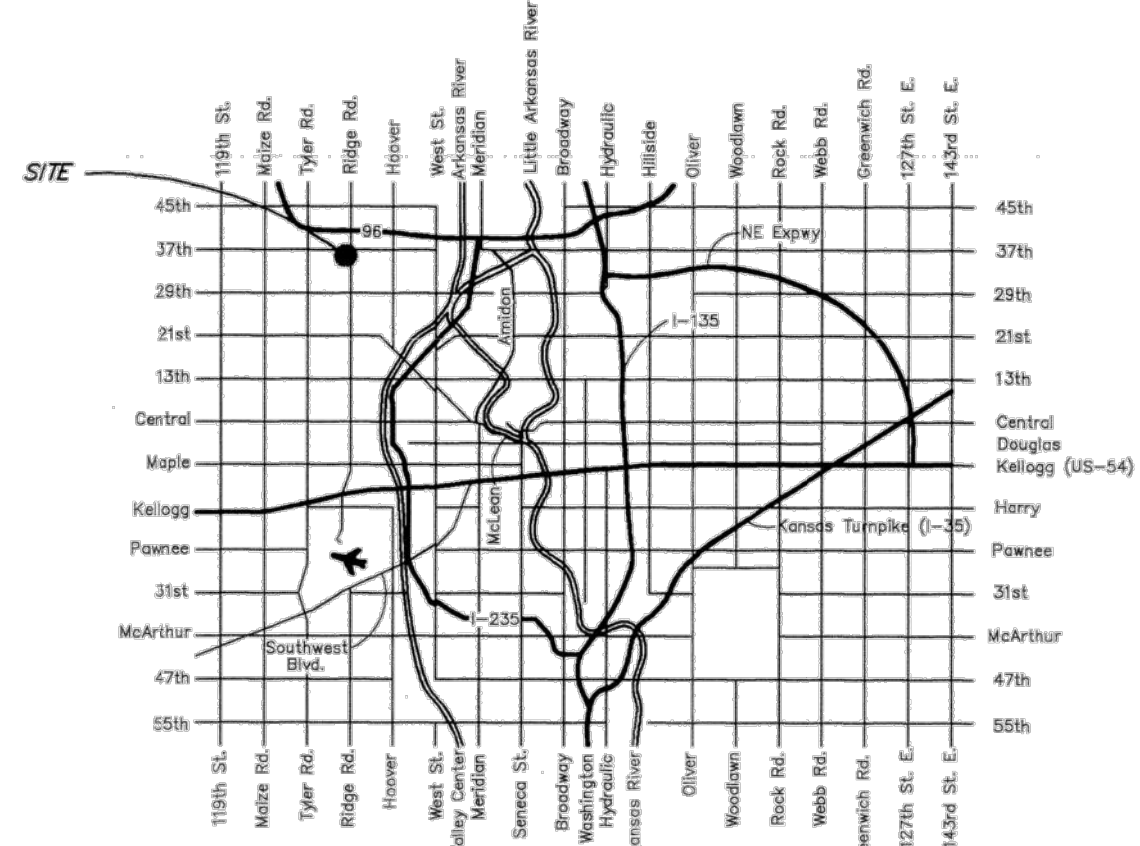
State of Kansas )  
Sedgwick County ) ss  
BE IT REMEMBERED, that on this 3<sup>rd</sup> day of March, 2000, before me, the undersigned, a notary public in and for the County and State aforesaid, came Michael J. Boyd, Member, BOX DEVELOPMENT, L.L.C., a Kansas limited liability company, for and on behalf of said limited liability company, to me personally known to be the same person who executed this instrument and such person duly acknowledged the execution of the same.  
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year first above written.  
*Douglas Klassen*  
Notary Public DOUGLAS KLASSEN  
My appointment expires: 4-02-01



*Tricia L. Robello*  
Tricia L. Robello, LS #1246  
Deputy County Surveyor  
Sedgwick County Kansas



**NOTES:**  
1. M.L.F. = Min. Lowest Floor  
2. This plat is subject to the conditions of DP-242.



**LOCATION MAP**

**Benchmark:**  
A cut "□" on the southeast hubguard, south end of bridge, east side of Ridge Road, 33.5' east of east 1/4 Cor., Sec. 33.  
Elev.=1331.24

1880215