

STORM WATER SEWER IMPROVEMENTS
TO SERVE
TOWNE PARC ADDITION - PHASE 3

Private Project Number
719 PPS (607861)

CITY OF WICHITA, KANSAS
Michael E. Lindebak, P.E. City Engineer

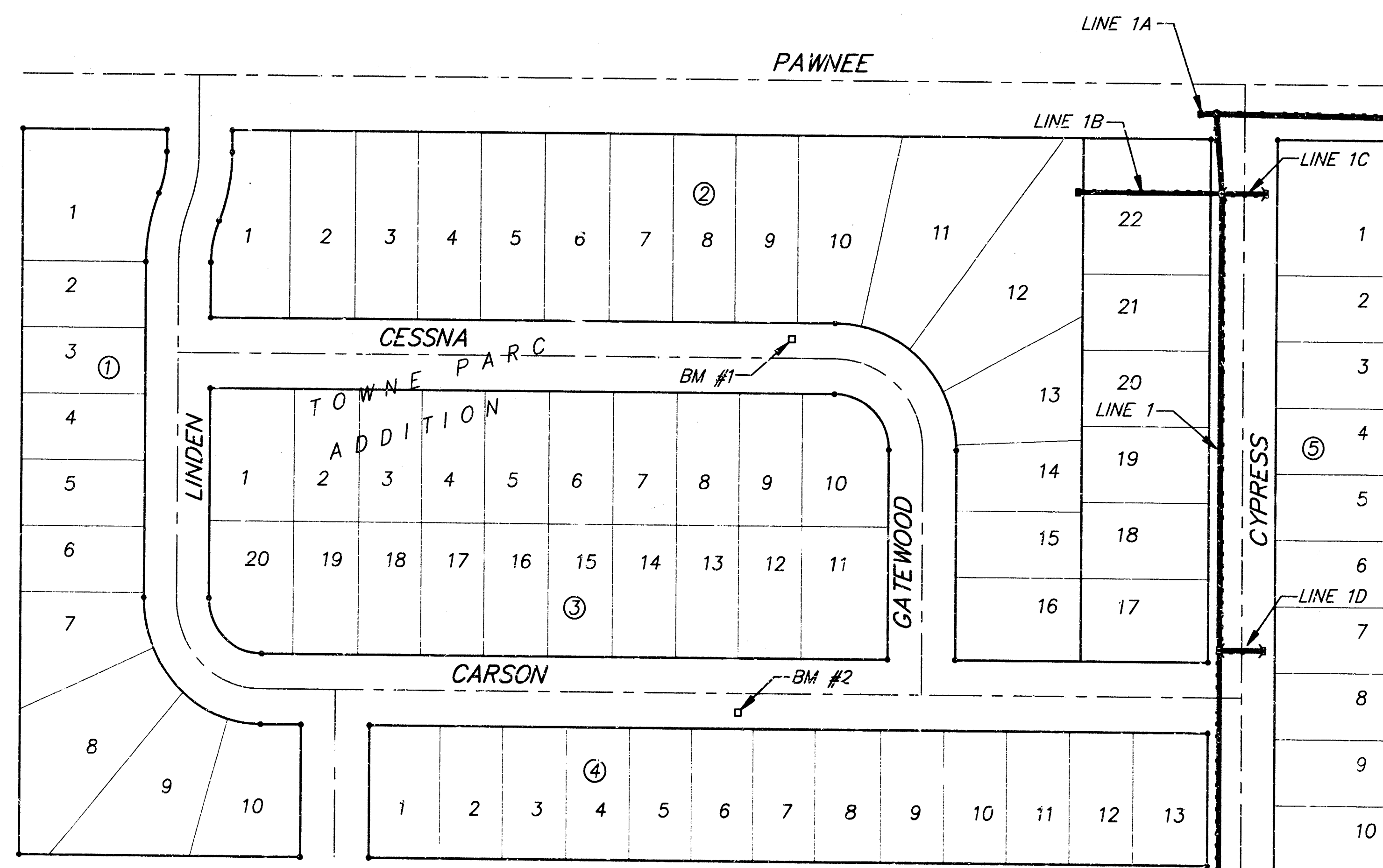
GENERAL NOTES:

- Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

Kansas One-Call	687-2470
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The Contractor must notify the following in case of an emergency:

Cablevision	262-4270
or	263-2061
K.P.L. Gas Service Company	263-7511
Kansas Gas & Electric Company	264-1141
Arkla Gas Company	942-8350
or	263-8161
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Maintenance	268-4071
- Underground utility service lines and overhead utility pole lines 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.
- 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.
- Contractor shall not start work on the project until the project inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.
- All areas disturbed by construction operations shall be seeded with rye grass at a rate of 300 lbs/acre immediately following construction in that area. Ground shall be prepared per City of Wichita specifications prior to seeding.
- The Contractor shall notify pipeline companies at least 24 hours in advance of any work being performed across and/or adjacent to pipelines.
- Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.
- The Contractor shall give all property owners and/or tenants of developed property abutting the construction of this project a minimum of ten (10) days advance notice prior to start of 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 that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.



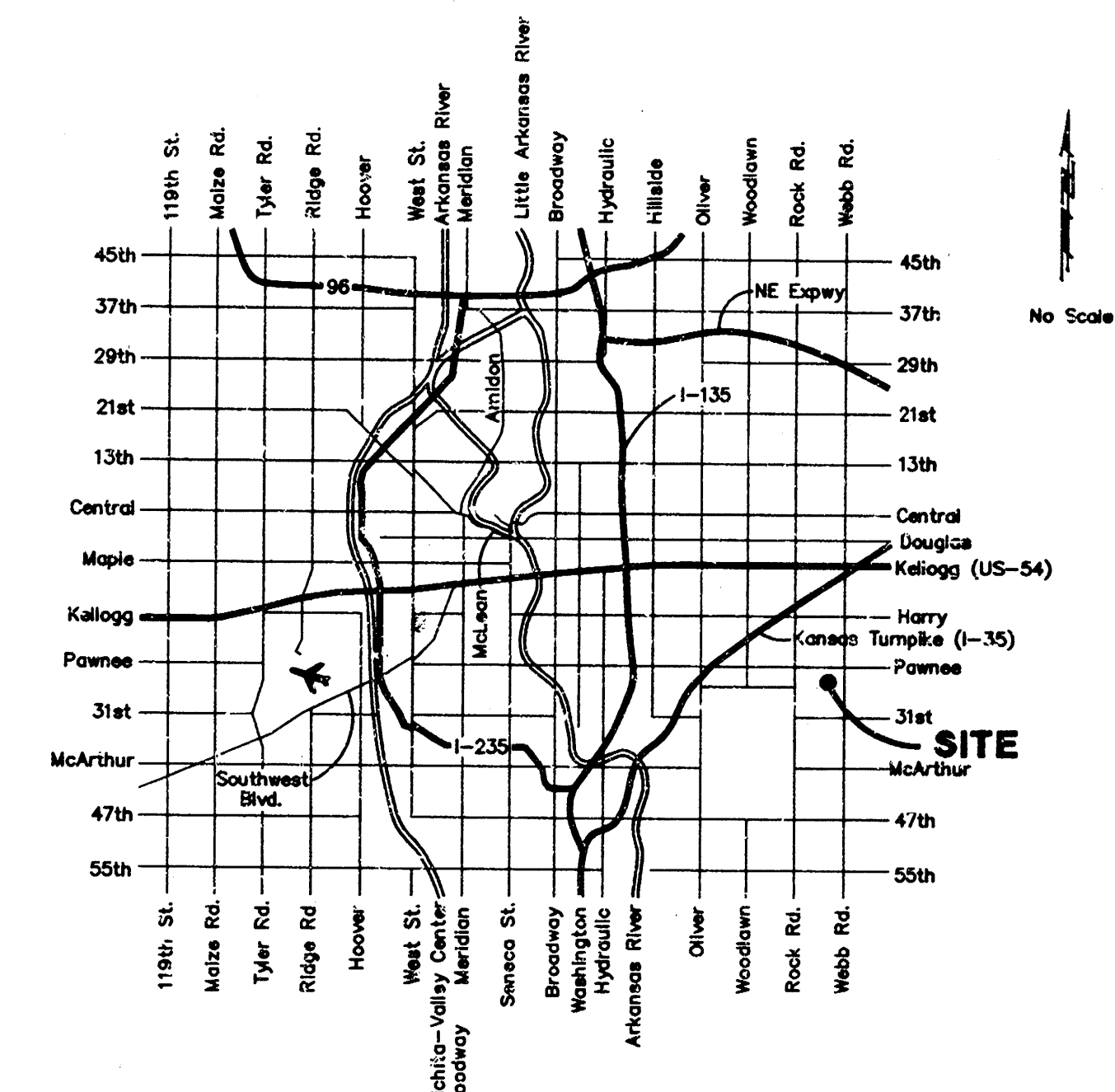
BENCHMARK:

BM #1 "C" Cut in Top of Curb
5.35' West and 14.59' South of
SE Corner of Lot 9, Block 2,
Towne Parc Addition,
Elev. = 200.40 (City Datum)

BM #2 "C" Cut in Top of Curb
14.95' West and 14.88' North of
NE Corner of Lot 6, Block 4,
Towne Parc Addition,
Elev. = 202.29 (City Datum)

INDEX:

- Title Sheet
- Storm Water Sewer Lines 1 & 1A
- Storm Water Sewer Line 1
- Storm Water Sewer Lines 1 & 1D
- Storm Water Sewer Lines 1B & 1C
- Shallow Manhole Detail
- Type 1A Inlet Detail
- Drop Inlet Detail
- Copy of Towne Parc Addition Plat



SCALE:
1" = 100'
• = Iron

BOOKED
2/26/98
MCG
D-381

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Storm Sewers VRH 6/2/97

NOTE TO CONTRACTORS

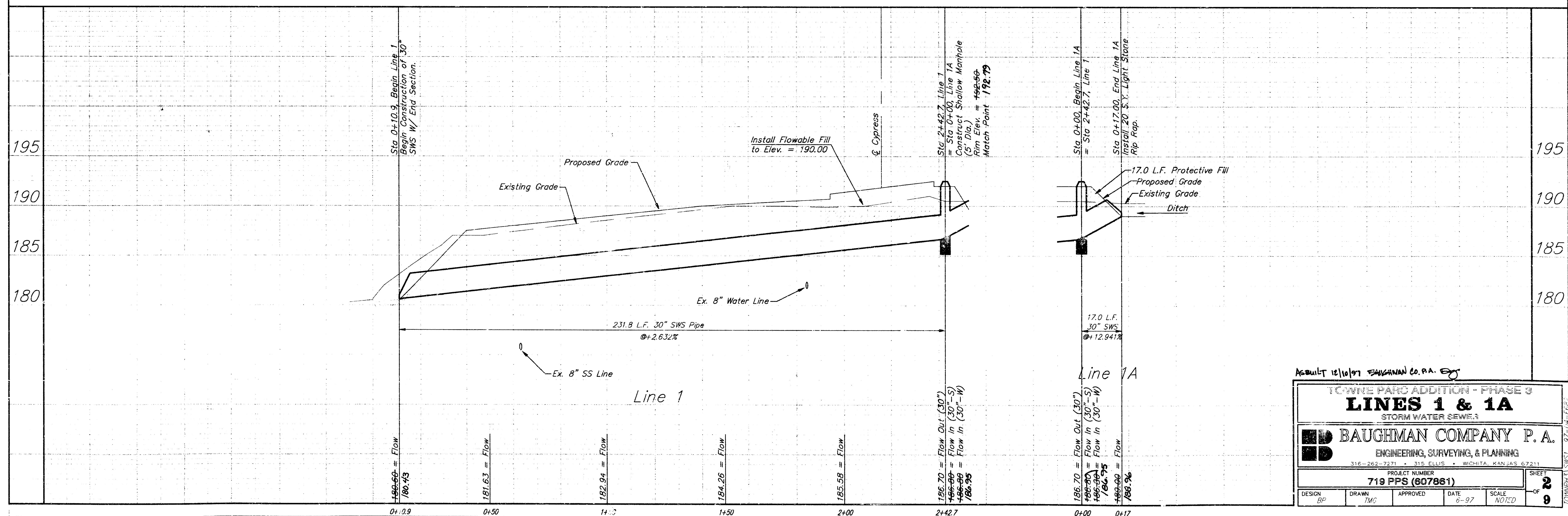
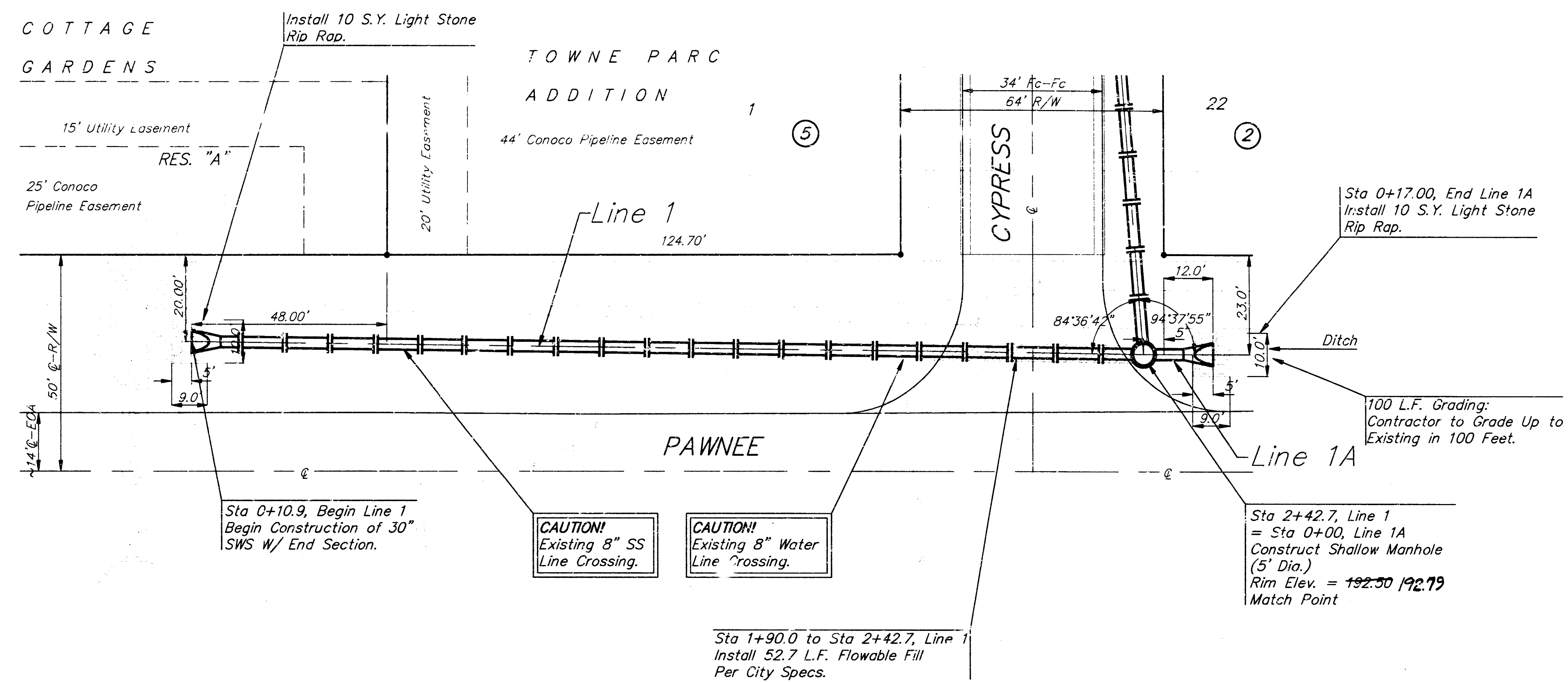
Inspection and testing for this project is to be provided by a Licensed Consulting Engineer, firm under contract with the Owner/Developer. Said inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work 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).

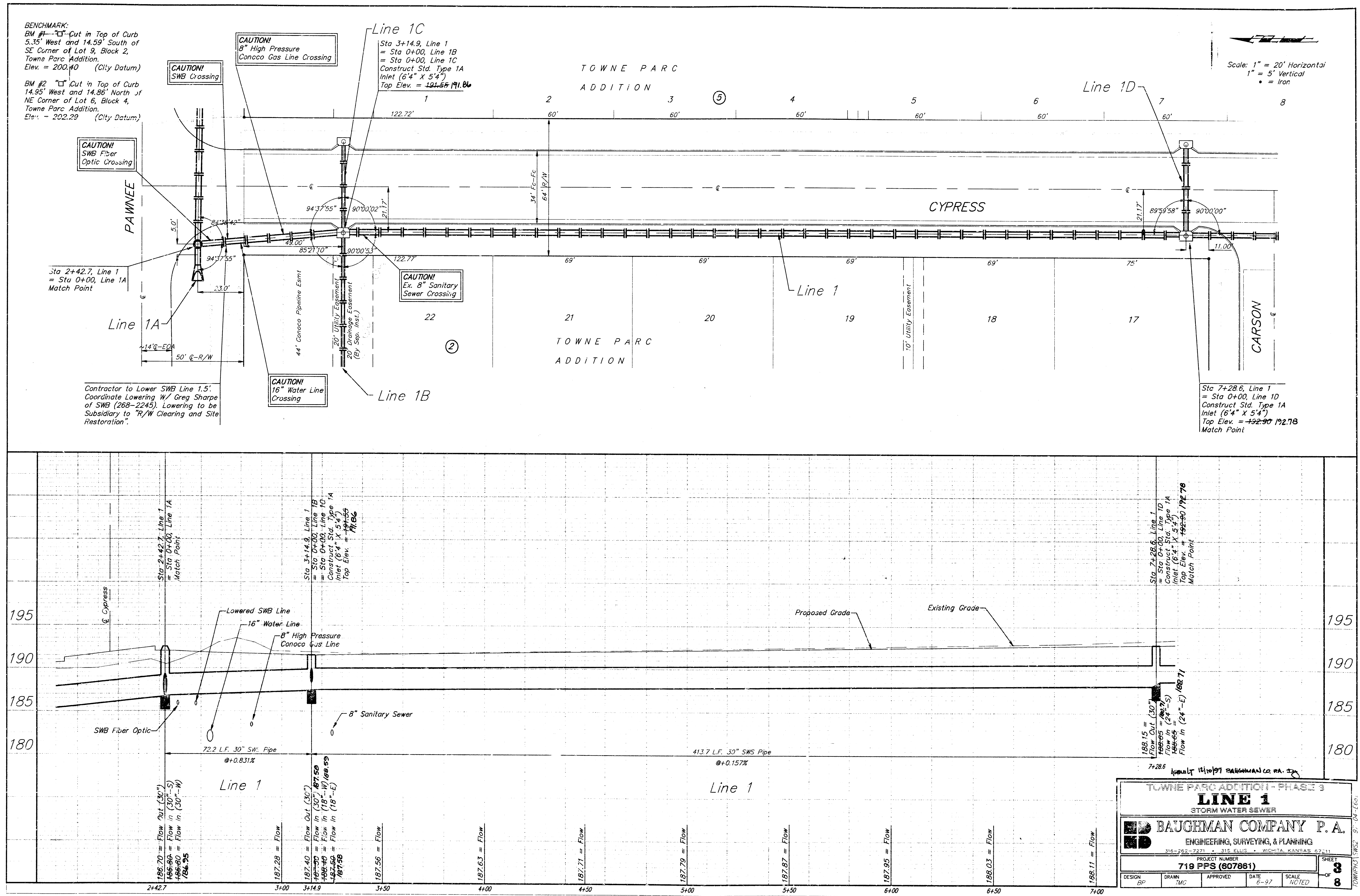
PROJECT INSPECTED BY BAUGHMAN CO., P.A.
ASBUILT 12/10/97

BAUGHMAN COMPANY P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

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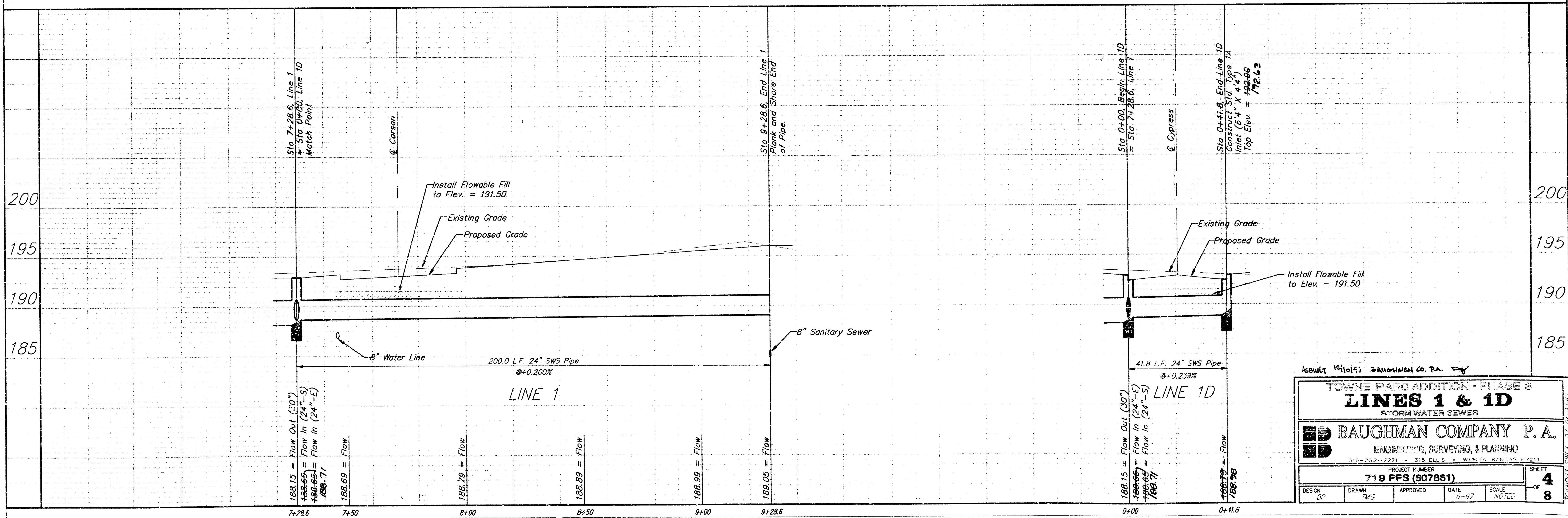
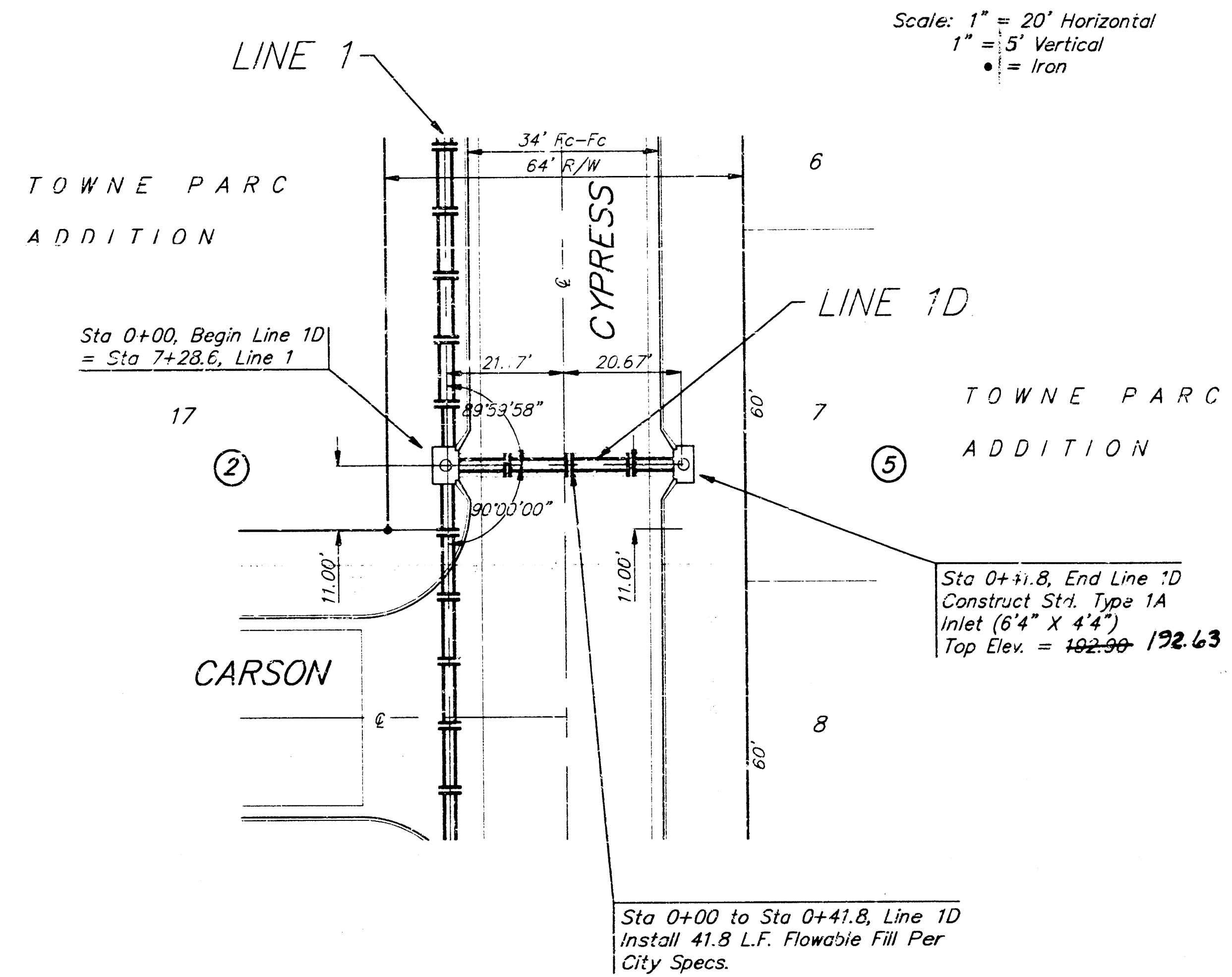
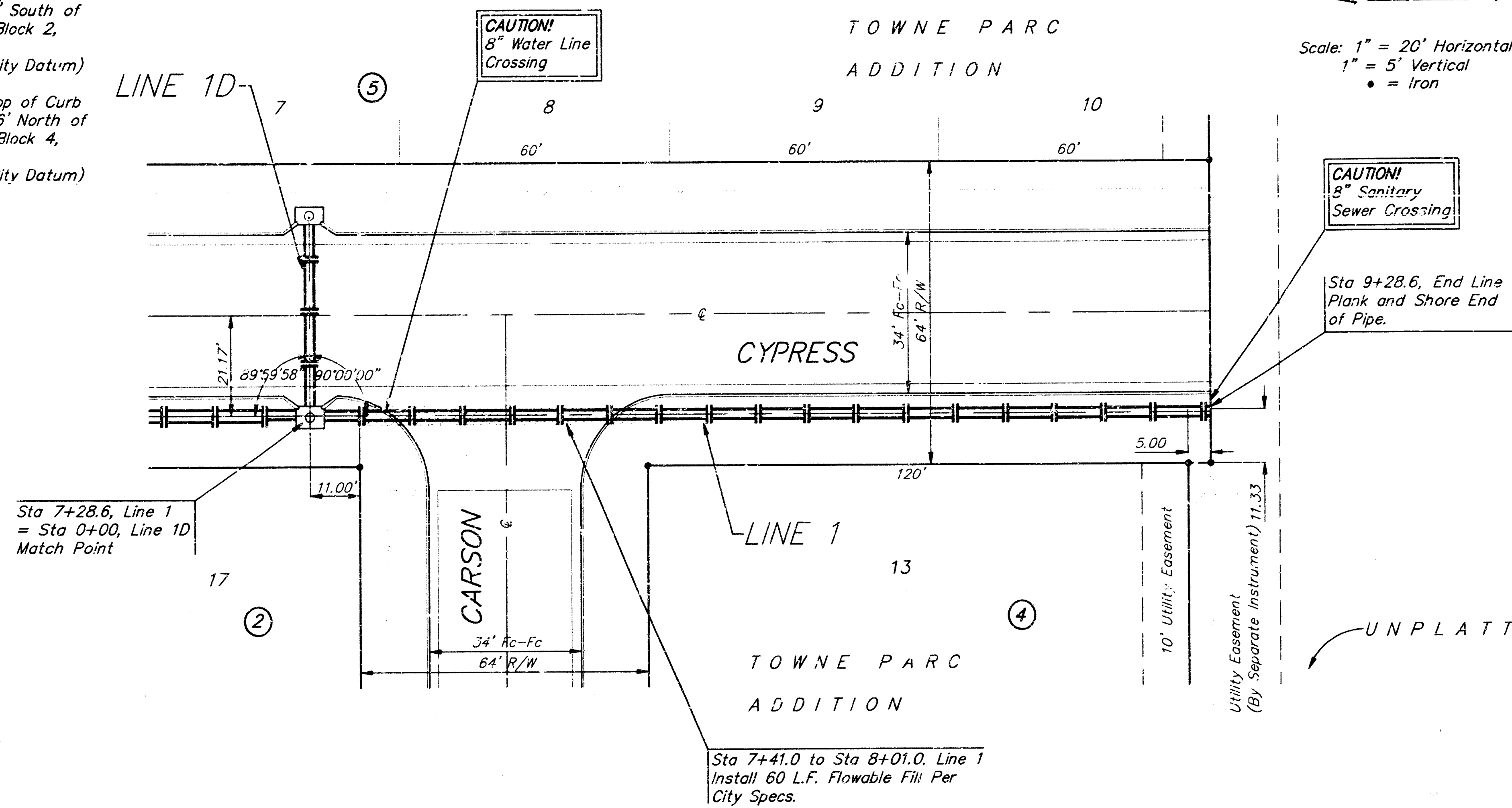
Am. Ent. Soc. Trans. 1907, vol. 32, p. 112, fig. 1.



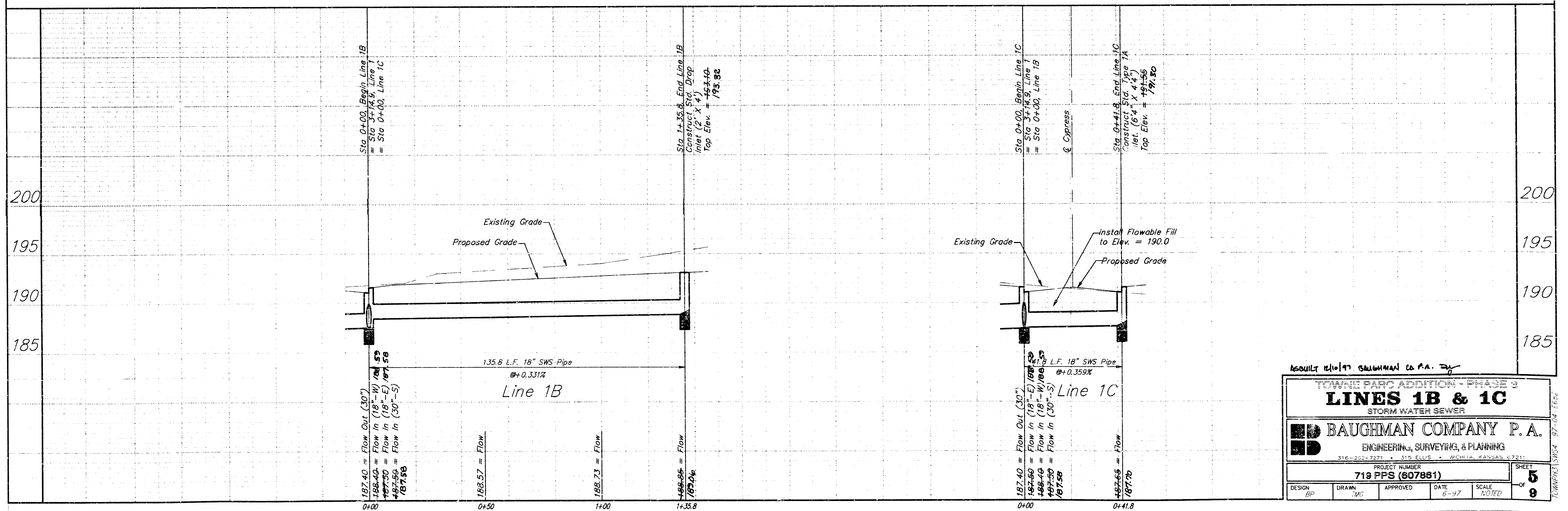
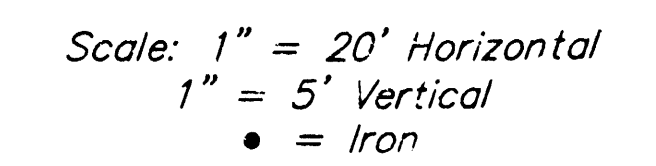
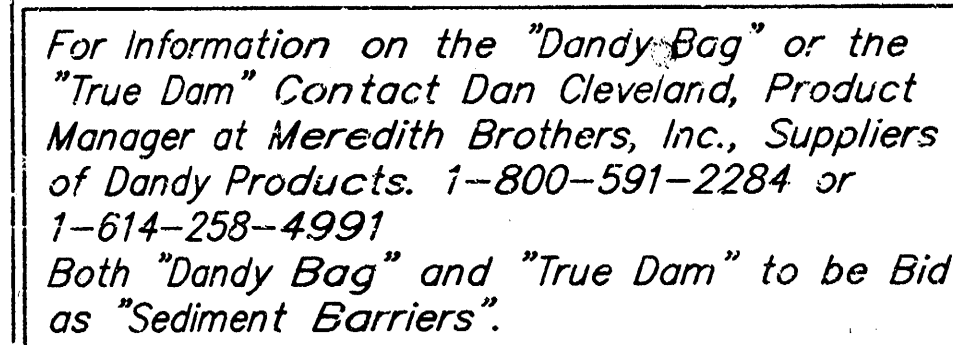


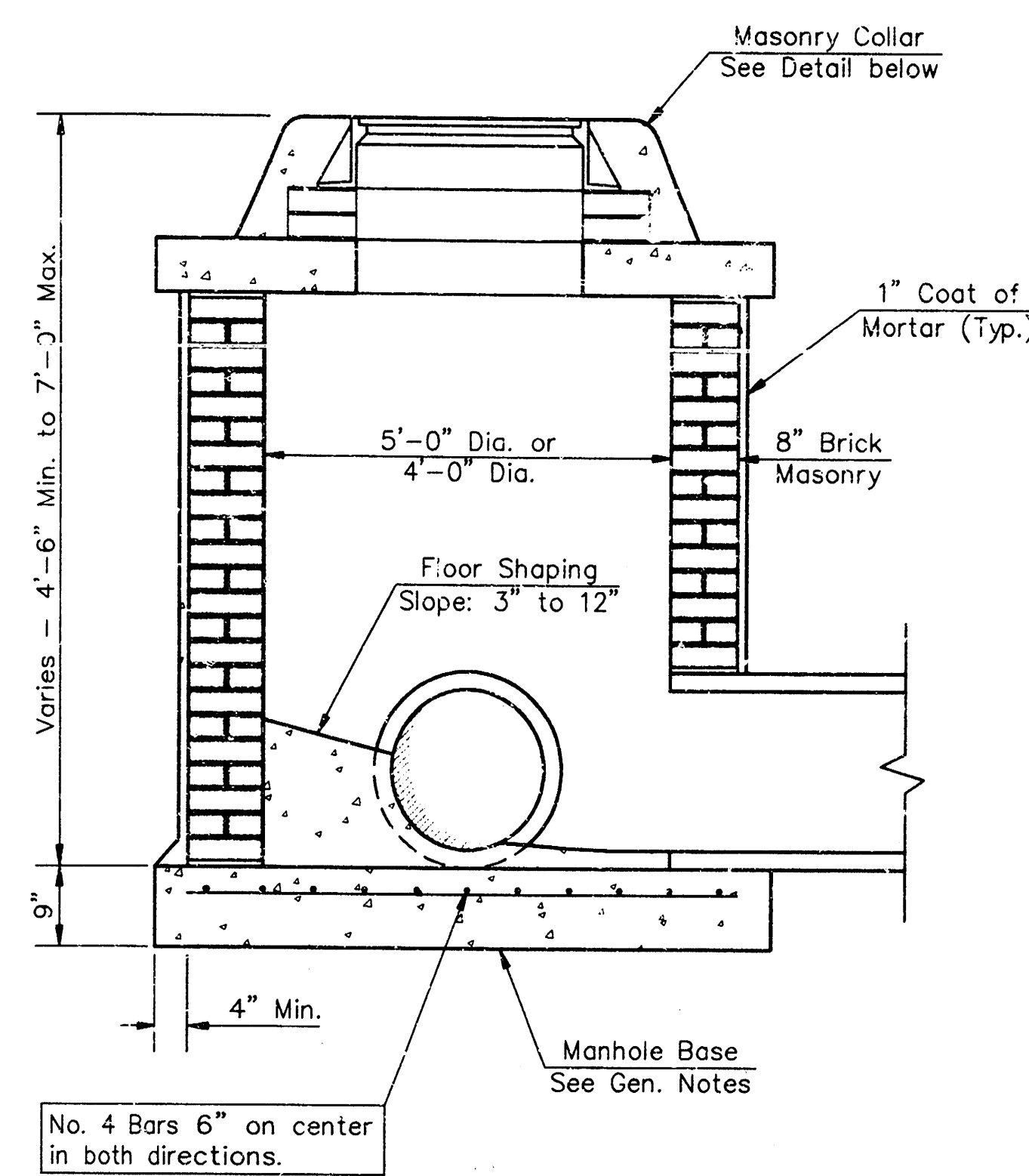
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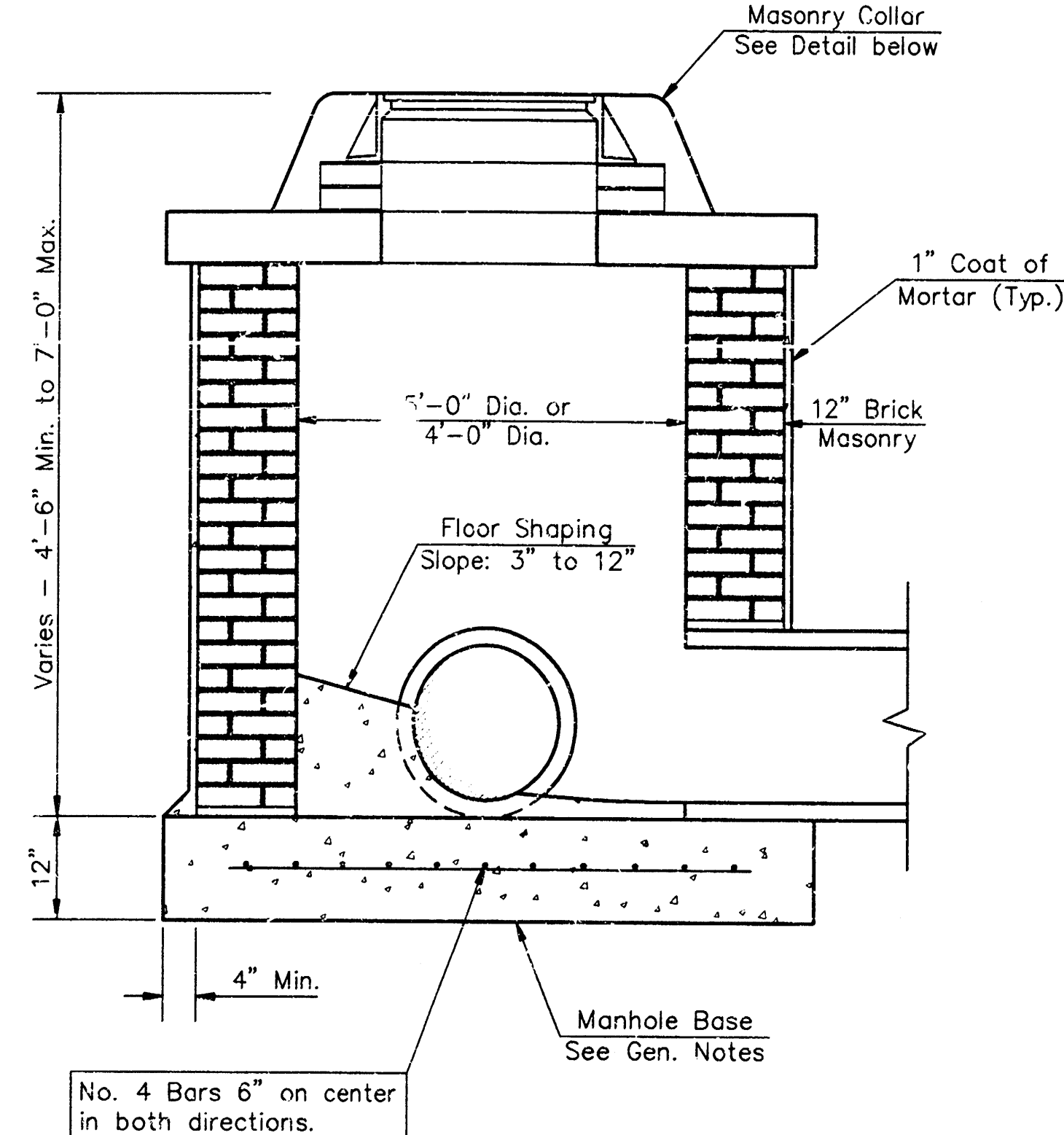


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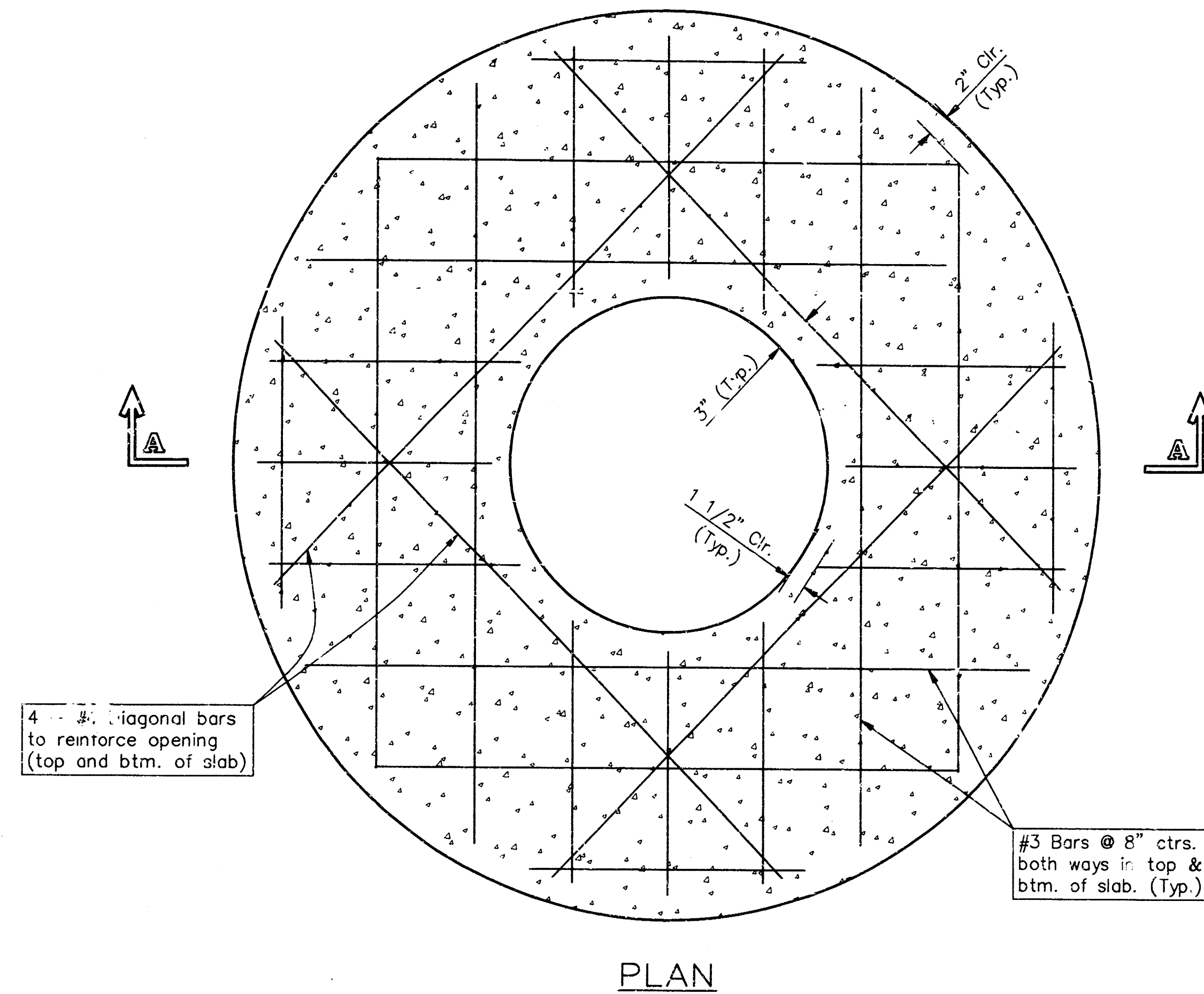




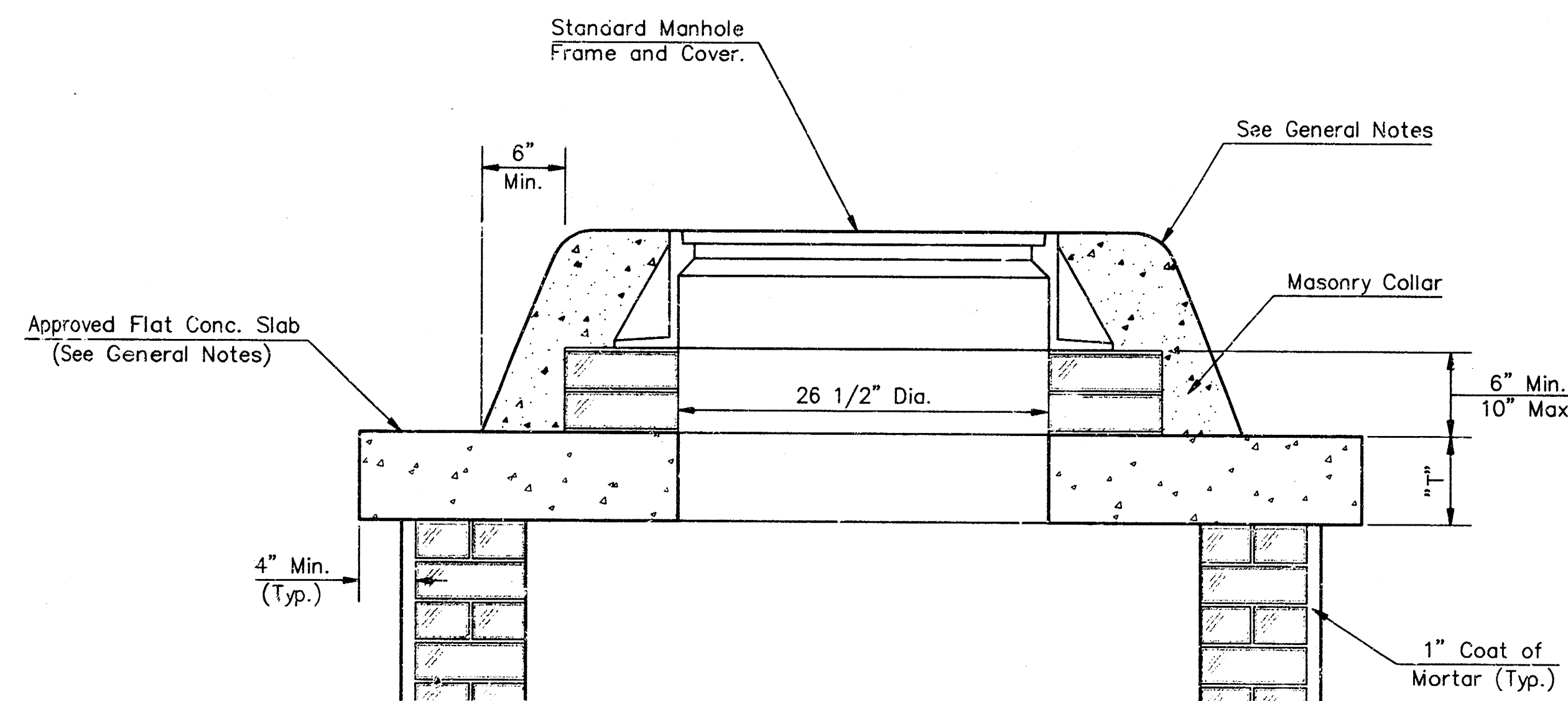
SHALLOW TYPE "A" MANHOLE



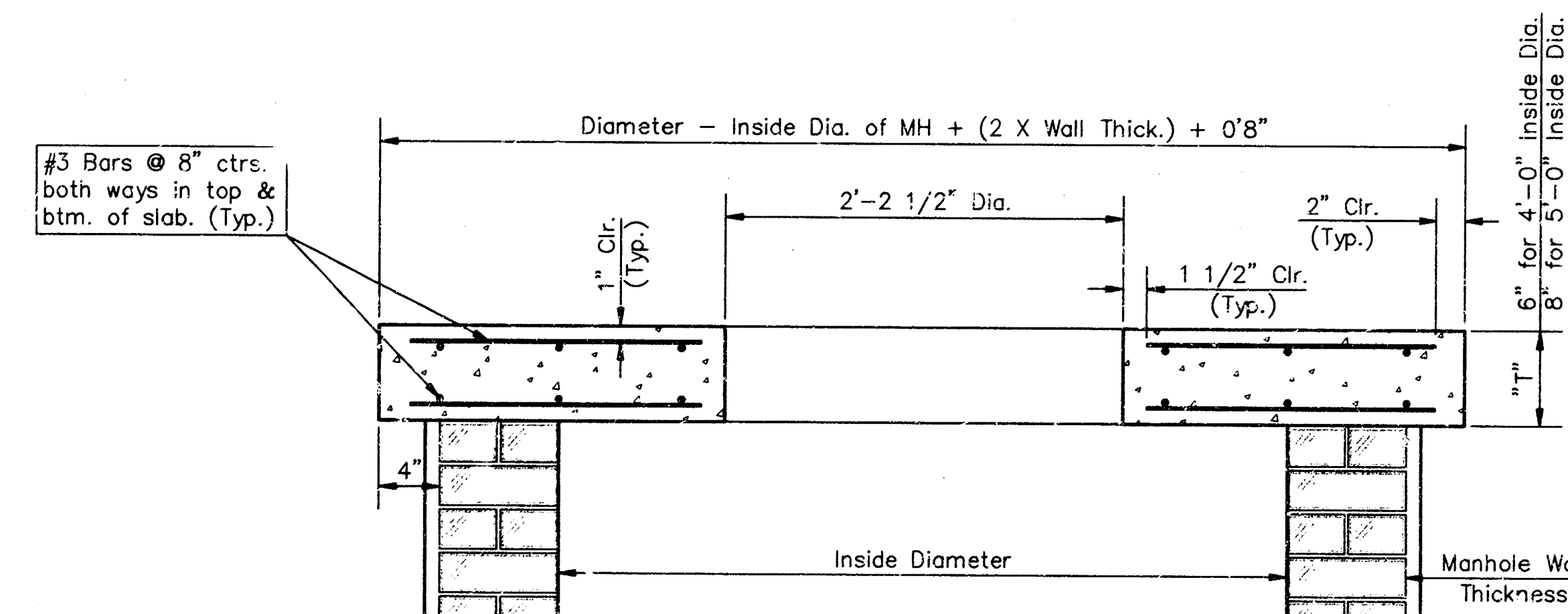
SHALLOW TYPE "B" MANHOLE



PLAN

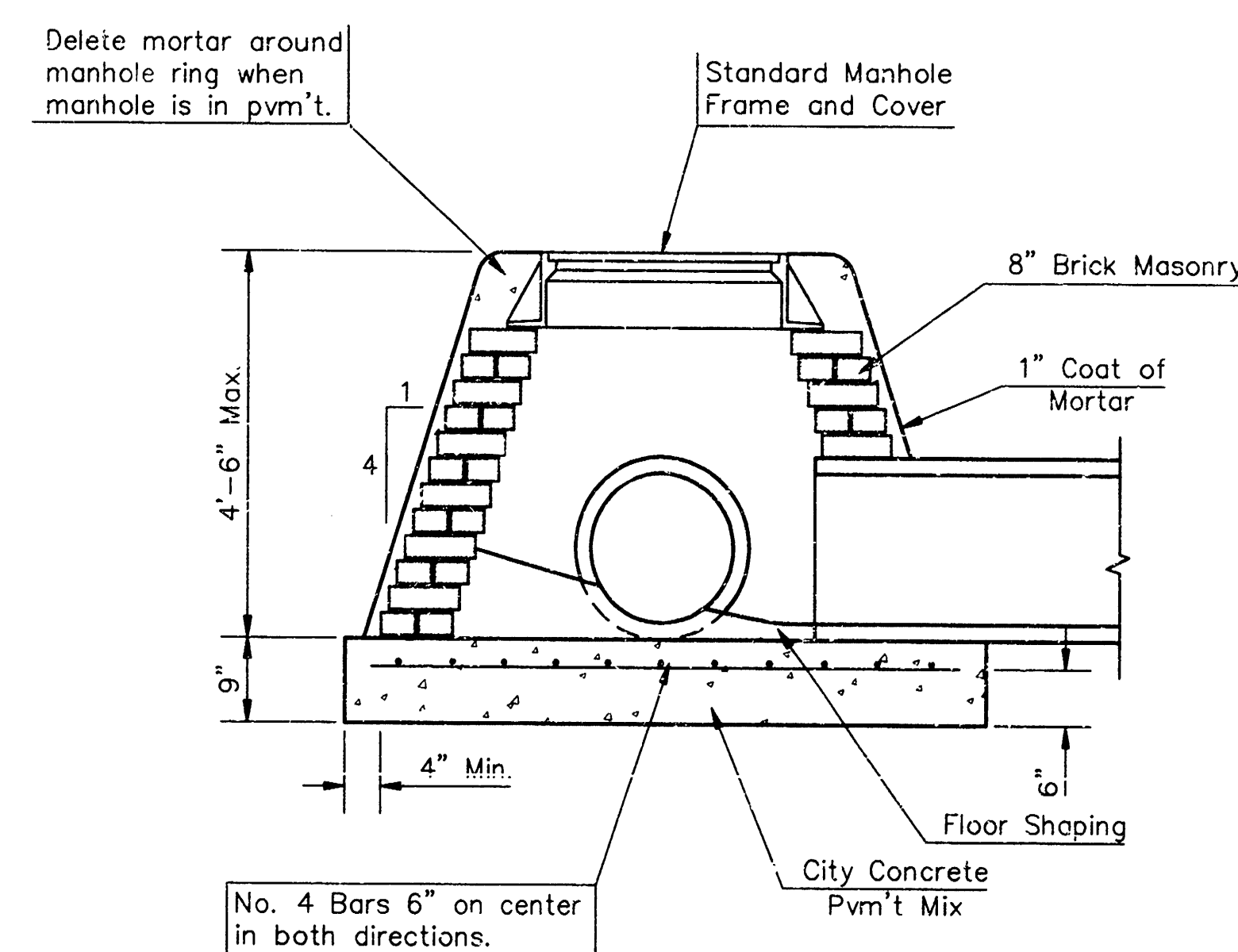


MASONRY COLLAR DETAIL

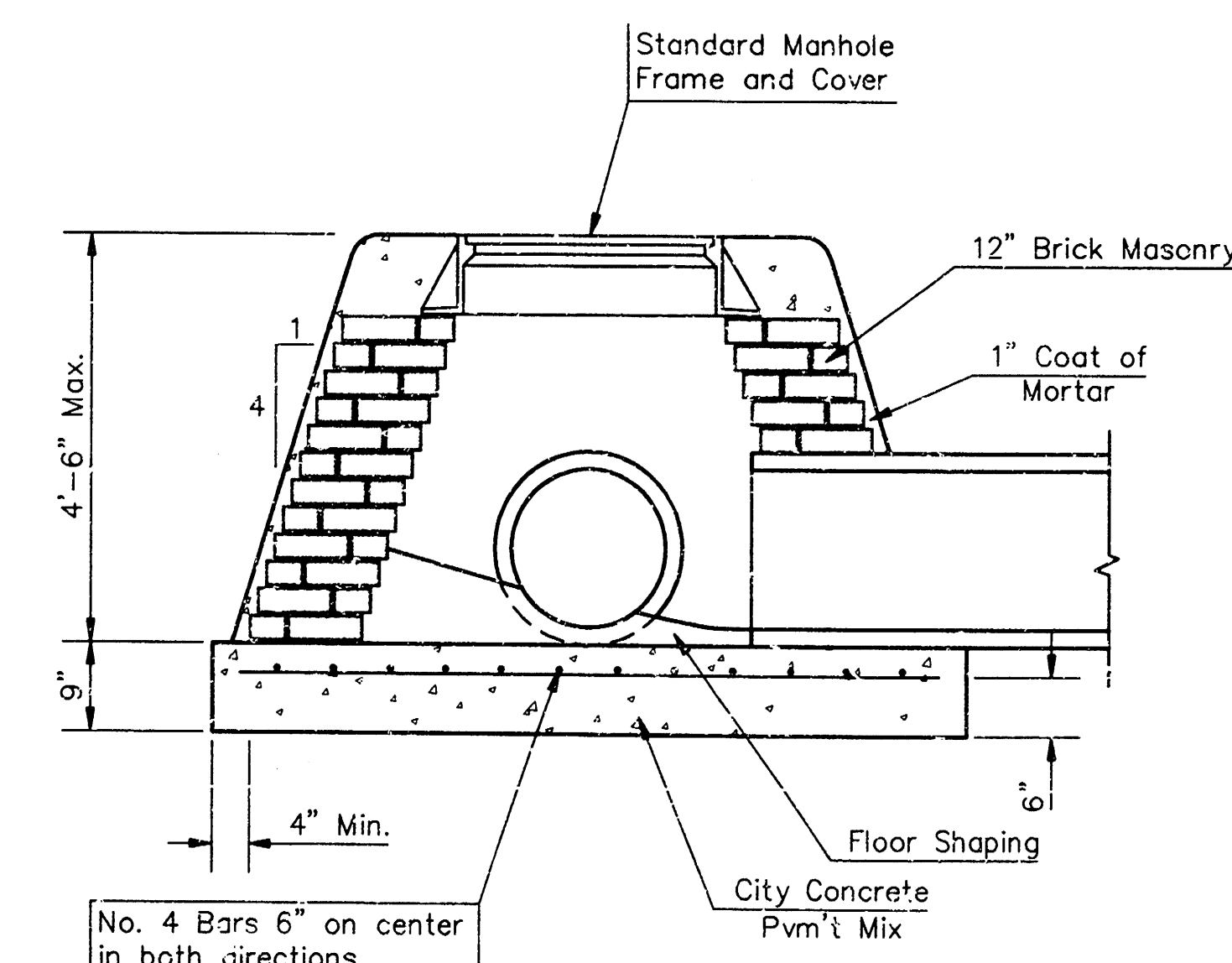


SECTION A-A

FLAT CONCRETE SLAB DETAILS



SPECIAL SHALLOW TYPE "A" MANHOLE

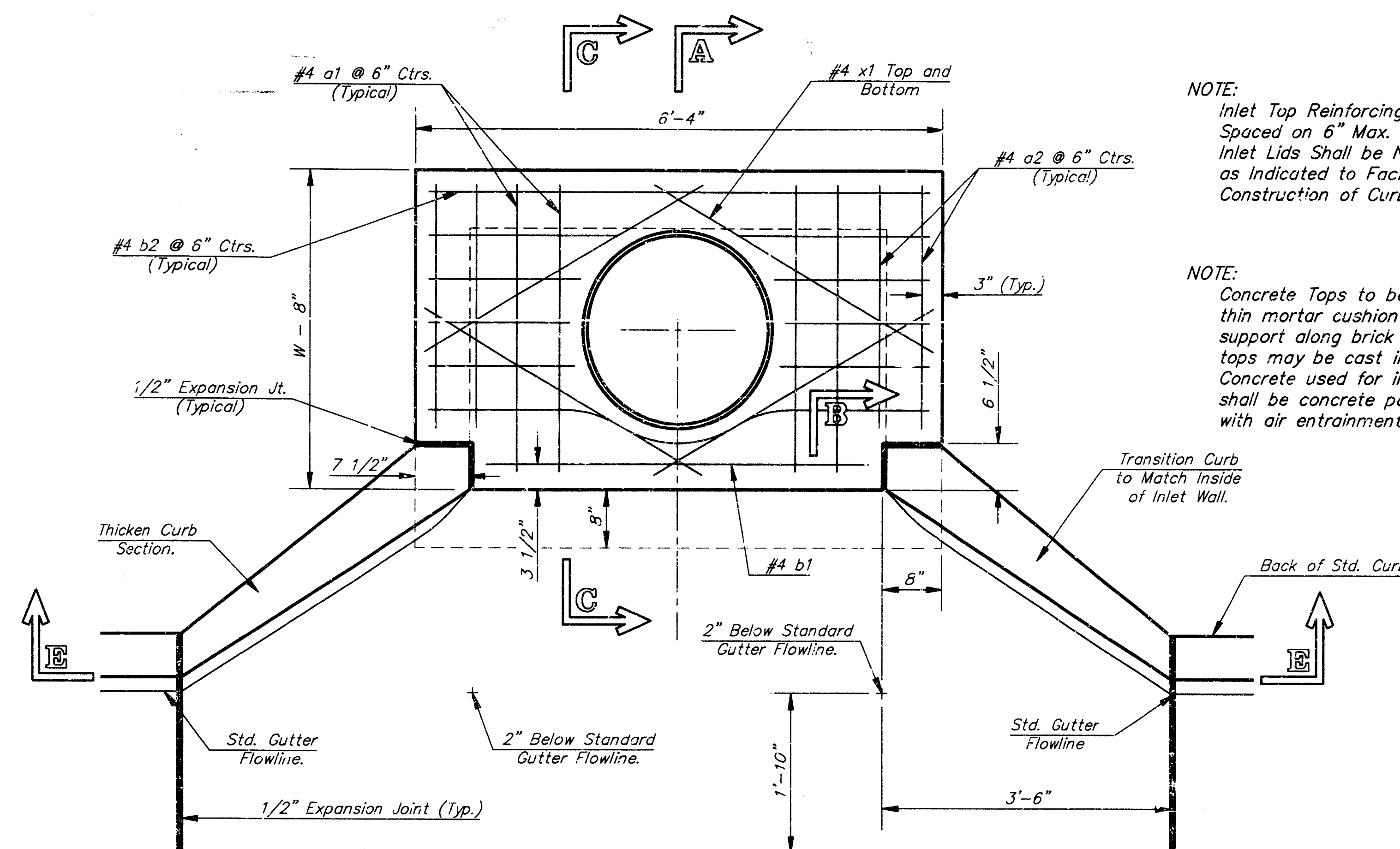


SPECIAL SHALLOW TYPE "B" MANHOLE

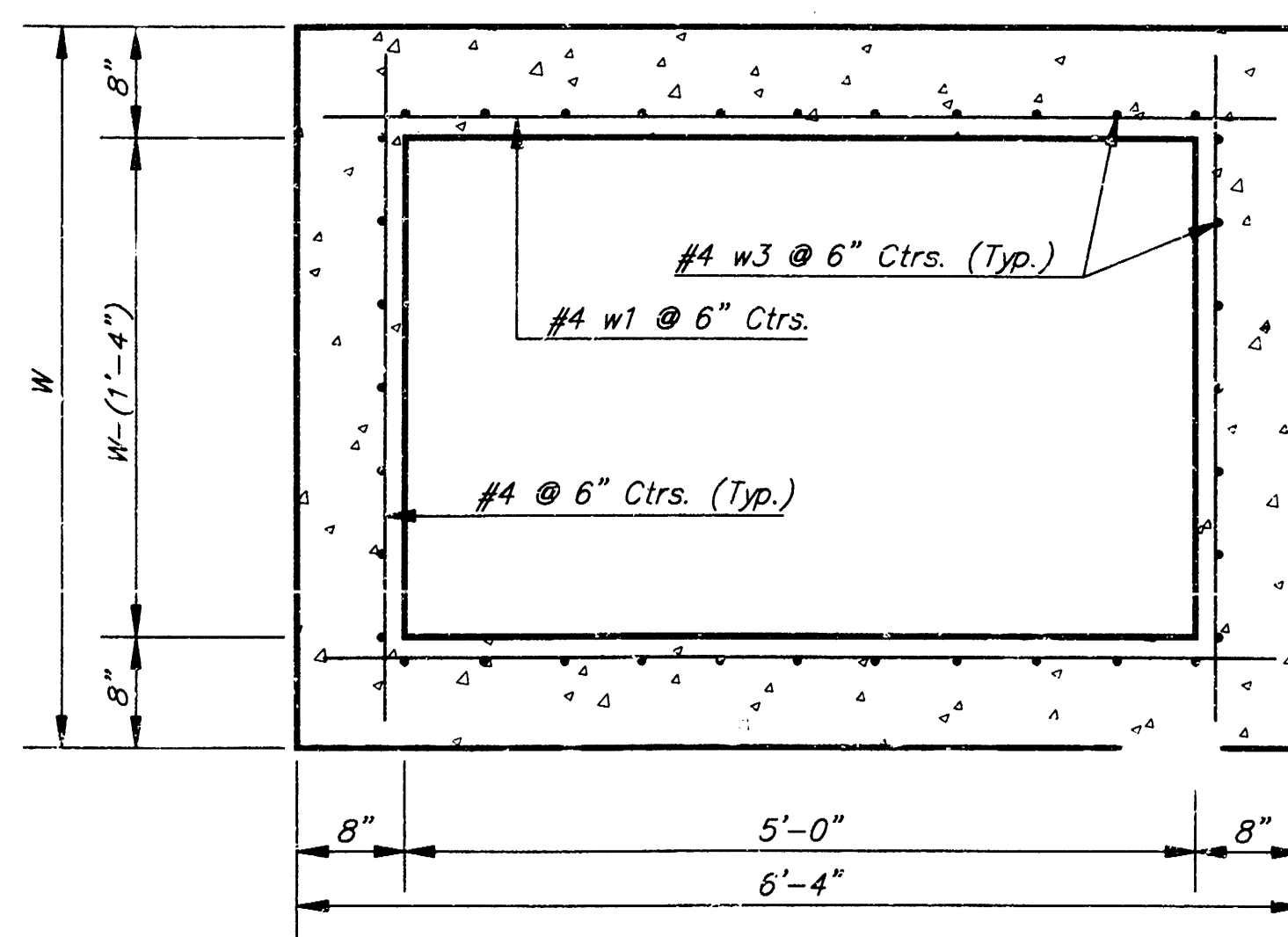
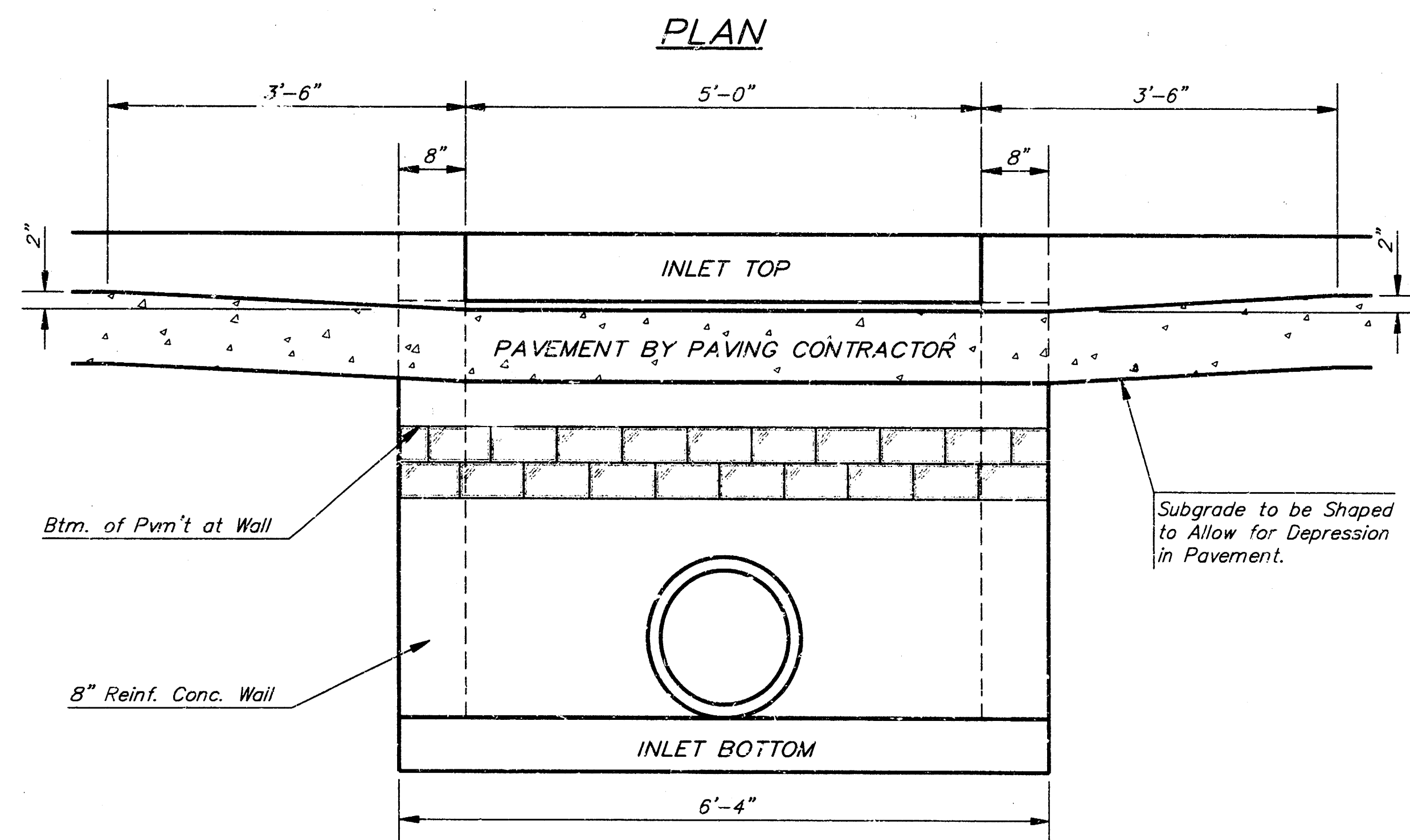
GENERAL NOTES

- Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Type "A" shallow manholes can be used on sewers when the manhole is not located within public street pavement. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4". Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5". Completed manhole shall be without leaks and water tight.
- Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.
- The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have slopes of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
- Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
- Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
- The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
- Standard shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type and diameter indicated. Standard special shallow manholes type "A" and "B" shall be paid for at the unit price bid per each for the type indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
- All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

CITY OF WICHITA, KANSAS			
STD. SHALLOW MANHOLES			
TYPE "A" AND TYPE "B"			
BAUGHMAN COMPANY P.A.			
ENGINEERING, SURVEYING, & PLANNING			
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211			
PROJECT NUMBER			
719 PPS (807861)			
DESIGN	DRAWN	DATE	SCALE
C.O.W.	Staff	8-97	NONE
APPROVED			SHEET
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			9



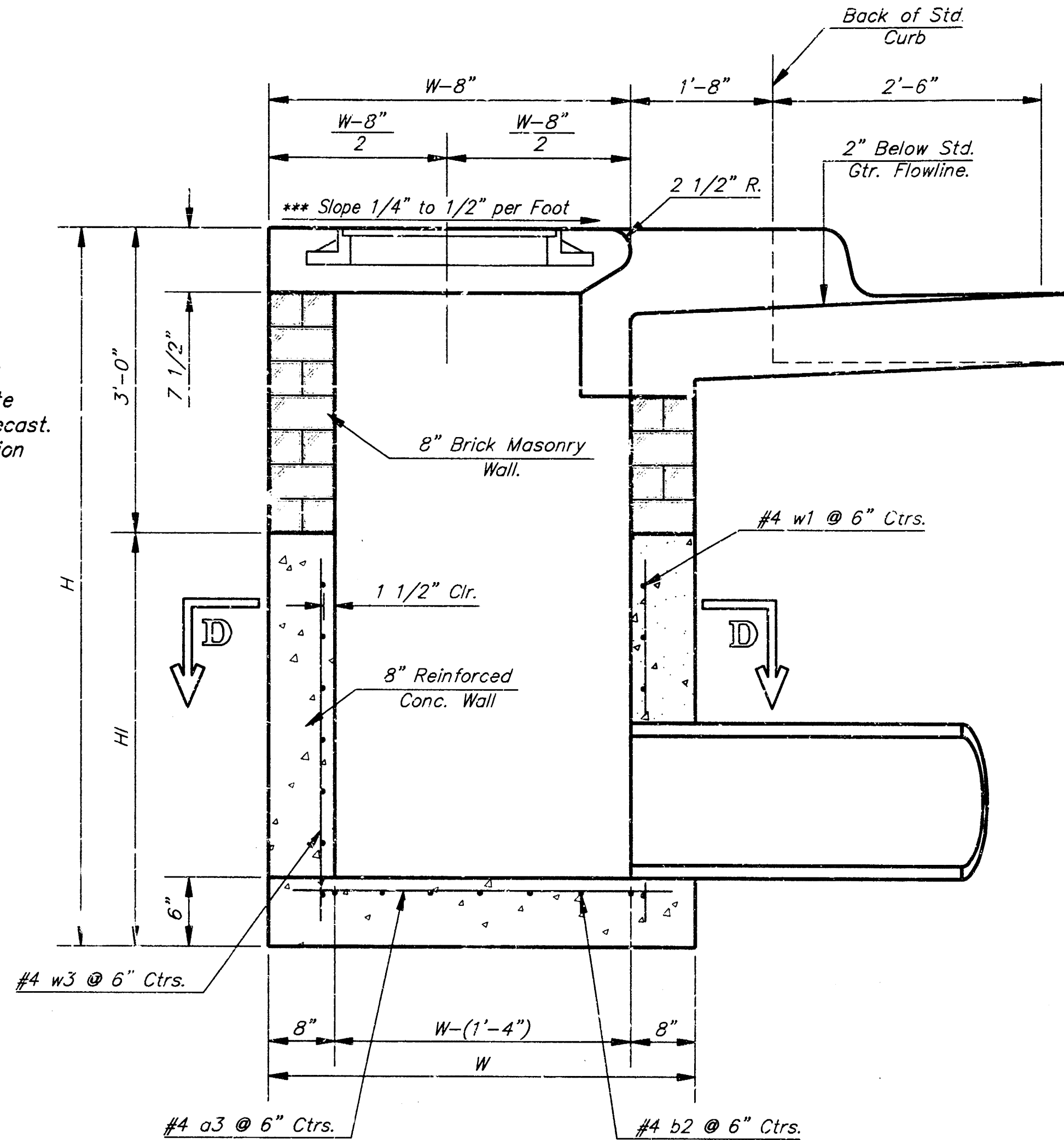
NOTE:
Expansion Joint Only in Curb
Area With Concrete Pavement.



SECTION D-D

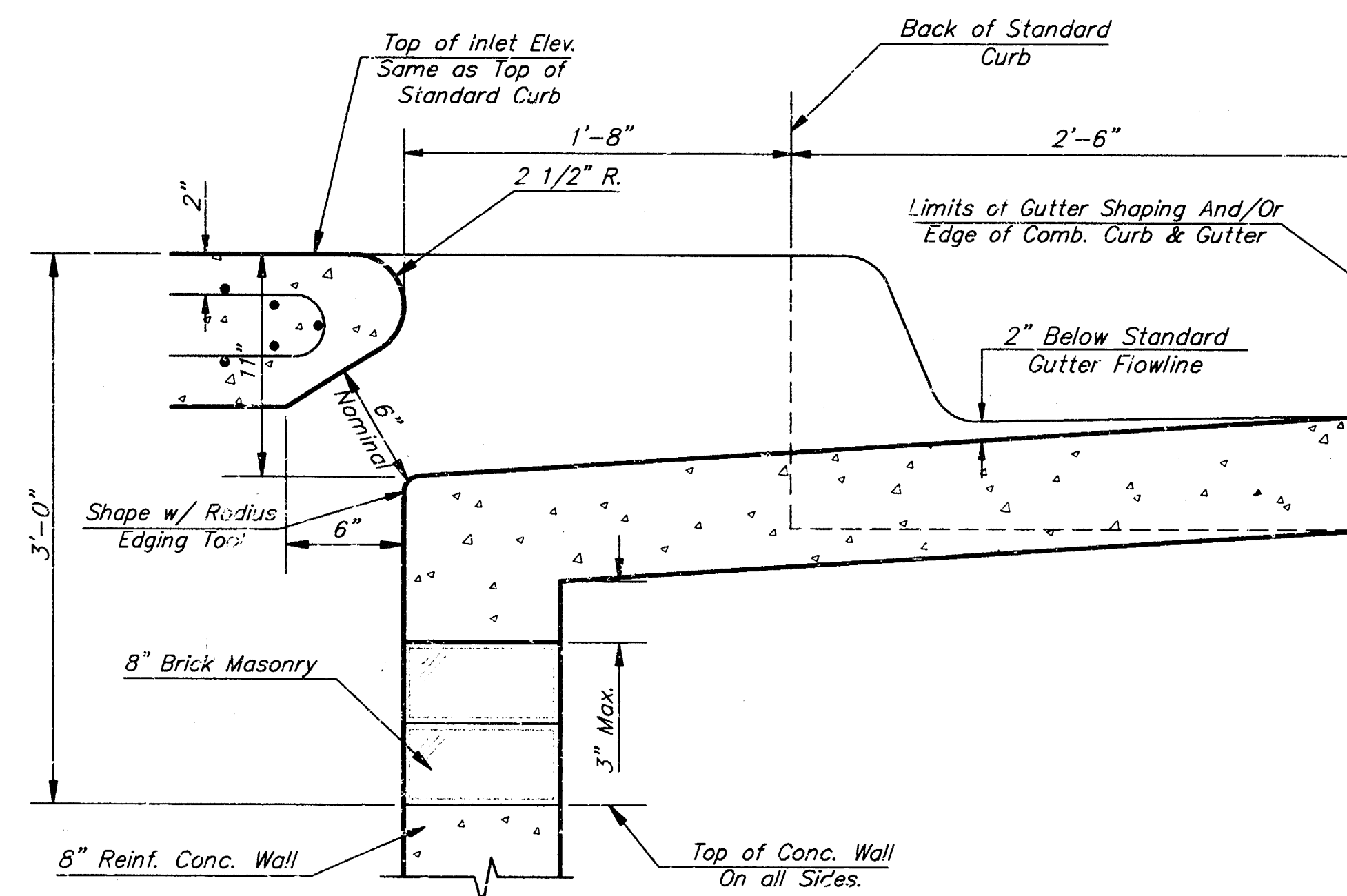
NOTE:
Inlet Top Reinforcing shall be
Spaced on 6" Max. Centers.
Inlet Lids Shall be Notched Out
as Indicated to Facilitate
Construction of Curb.

NOTE:
Concrete Tops to be installed on
thin mortar cushion to insure full
support along brick walls. Concrete
tops may be cast in place or precast.
Concrete used for inlet construction
shall be concrete pavement mix
with air entrainment.



SECTION A-A

***NOTE: Slope of Inlet tops to Match
Sidewalk or Parking Slopes within
Limits Indicated.



SECTION B-B

NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

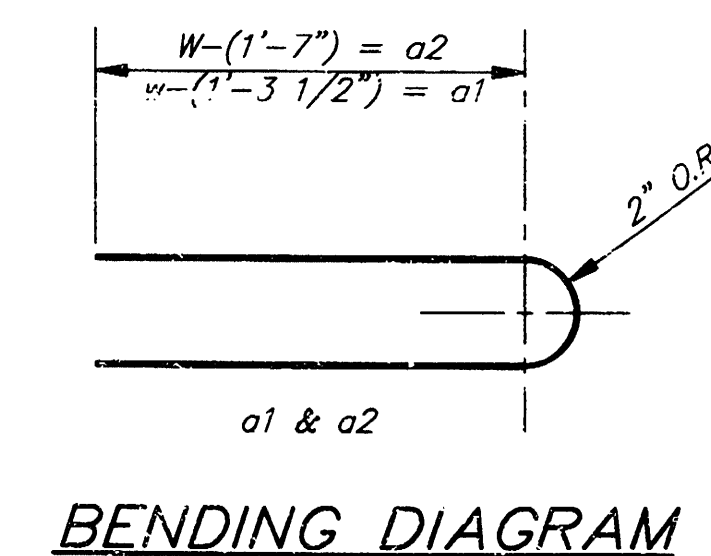
Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

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.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

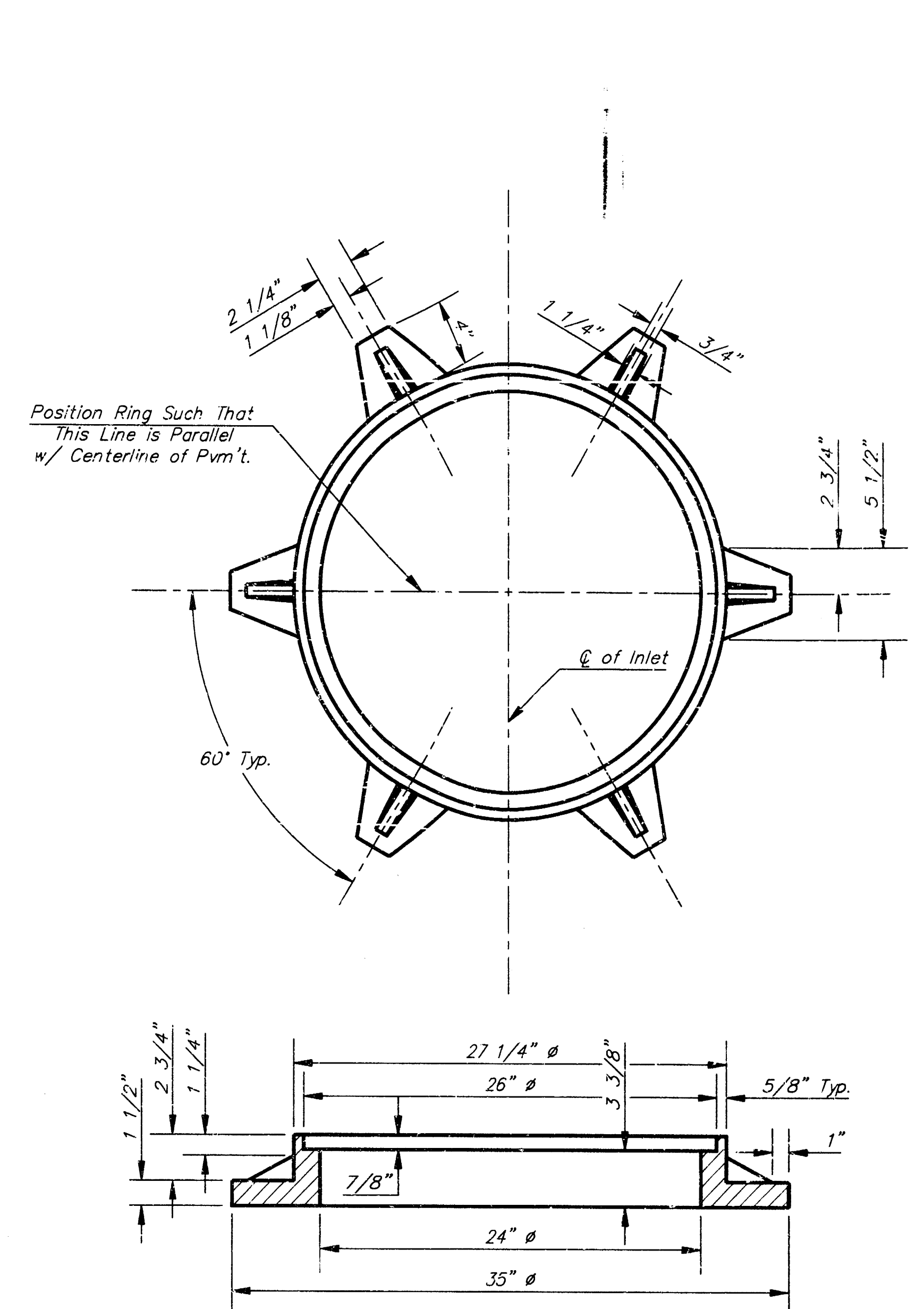
PRECAST SLAB AND FLOOR REINFORCING											
W = 4'-4"			W = 5'-4"			W = 6'-4"			W = 7'-4"		
MARK	SIZE	NO.	MARK	SIZE	NO.	MARK	SIZE	NO.	MARK	SIZE	NO.
a1	#4	6	a1	#4	6	a1	#4	6	a1	#4	6
a2	#4	4	a2	#4	4	a2	#4	4	a2	#4	4
a3	#4	13	a3	#4	13	a3	#4	13	a3	#4	13
b1	#4	1	b1	#4	1	b1	#4	1	b1	#4	1
b2	#4	23	b2	#4	29	b2	#4	35	b2	#4	41
x1	#4	8	x1	#4	8	x1	#4	8	x1	#4	8

* Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (H1 - 12") (H1 - 21") Rounded down to nearest 0.5"
② H1 - 3"



BENDING DIAGRAM

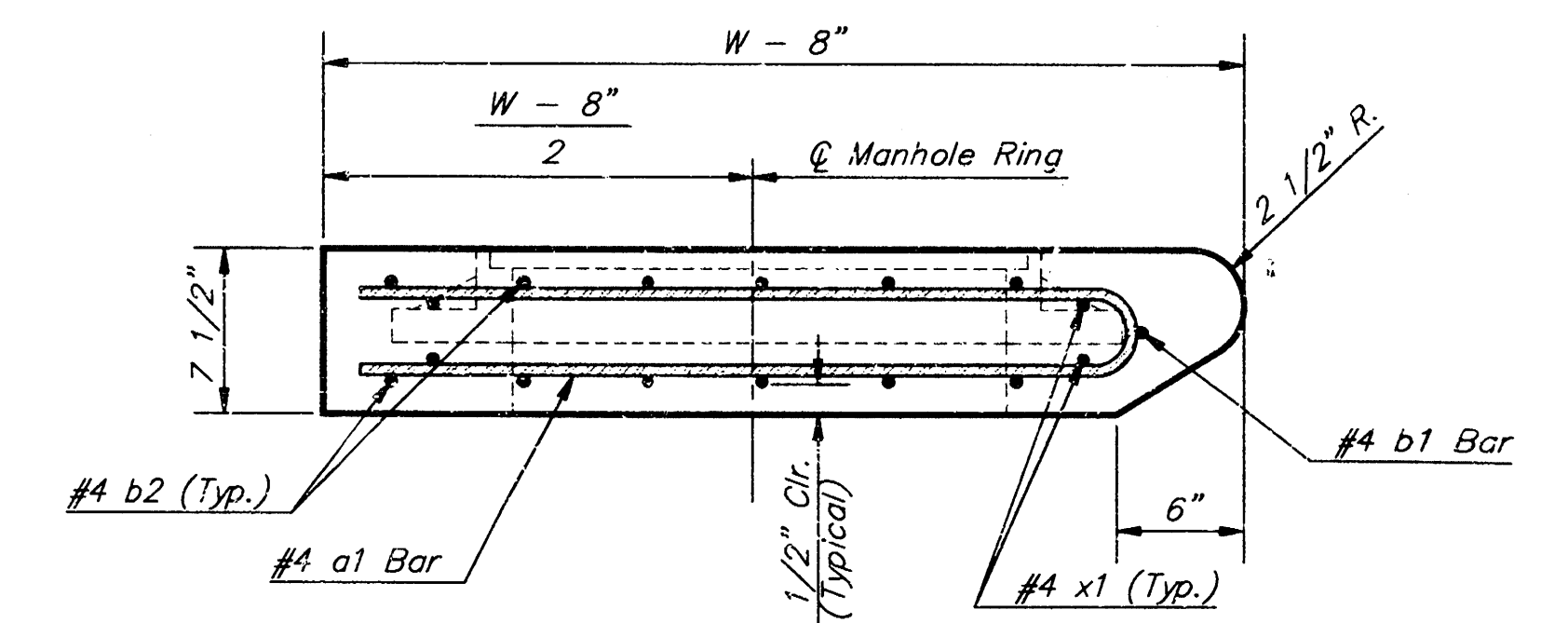
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.90±



MANHOLE RING AND COVER

Weight = 180 Lbs.

*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



SECTION A-A

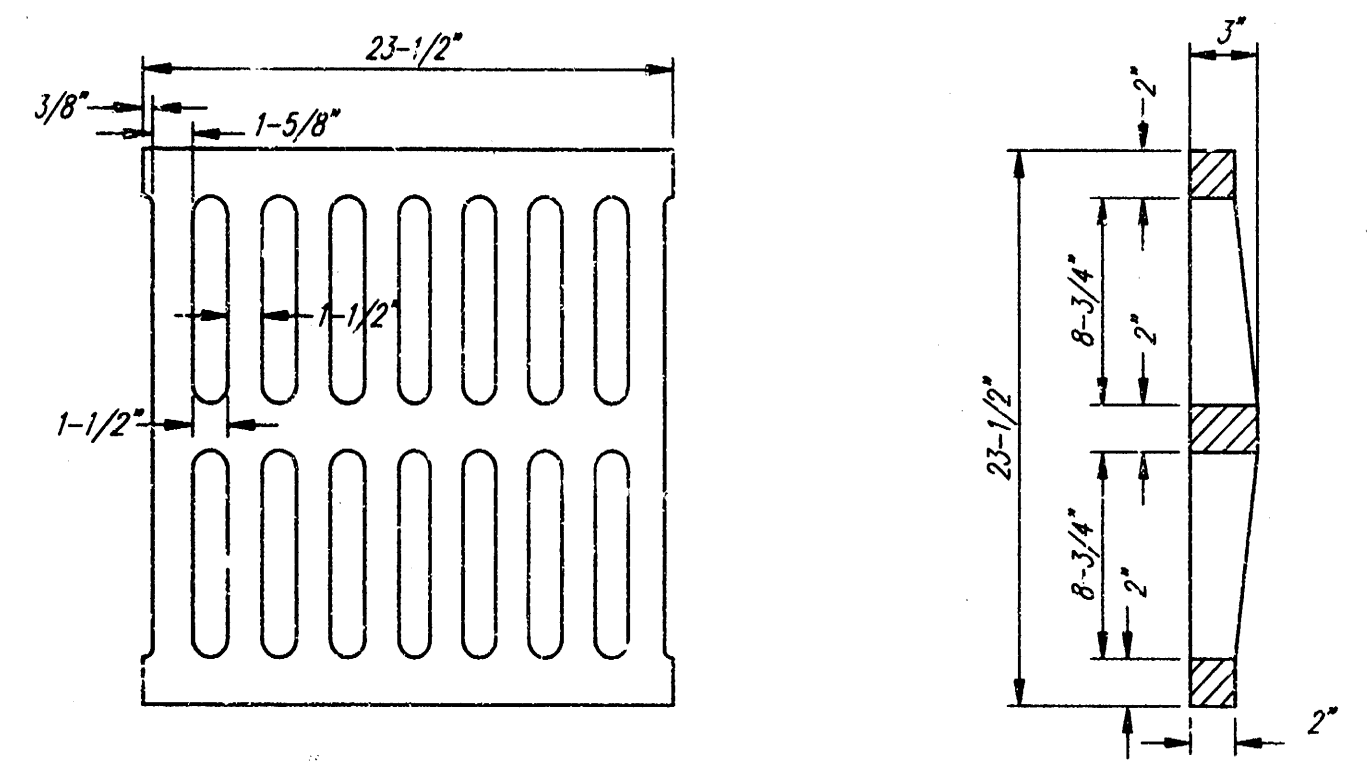
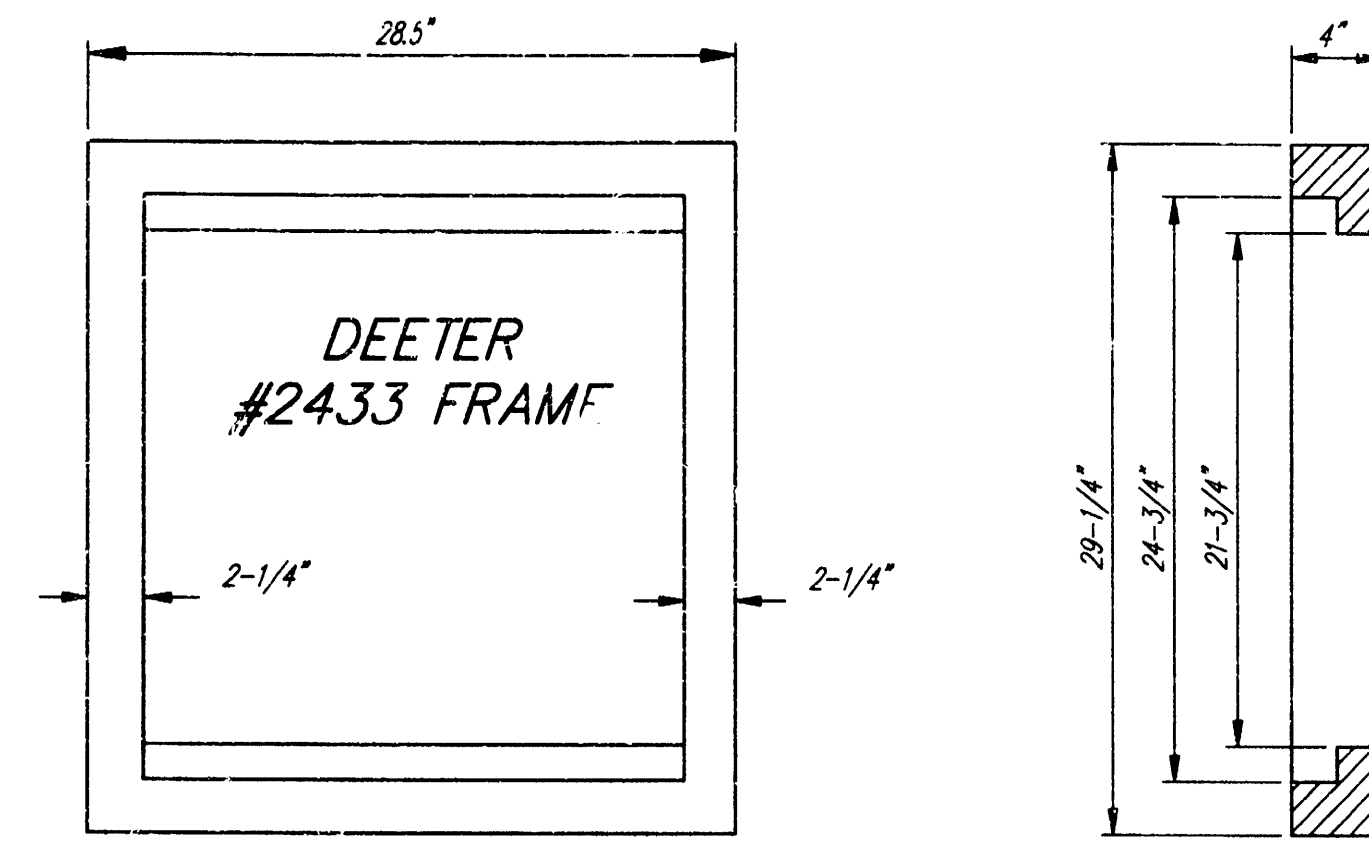
Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A
Curb Inlet Details
18" RT OPENING = 6" x 5'-0"

BAUGHMAN COMPANY P. A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7421 • 319 ELLIS • WICHITA, KANSAS 67211

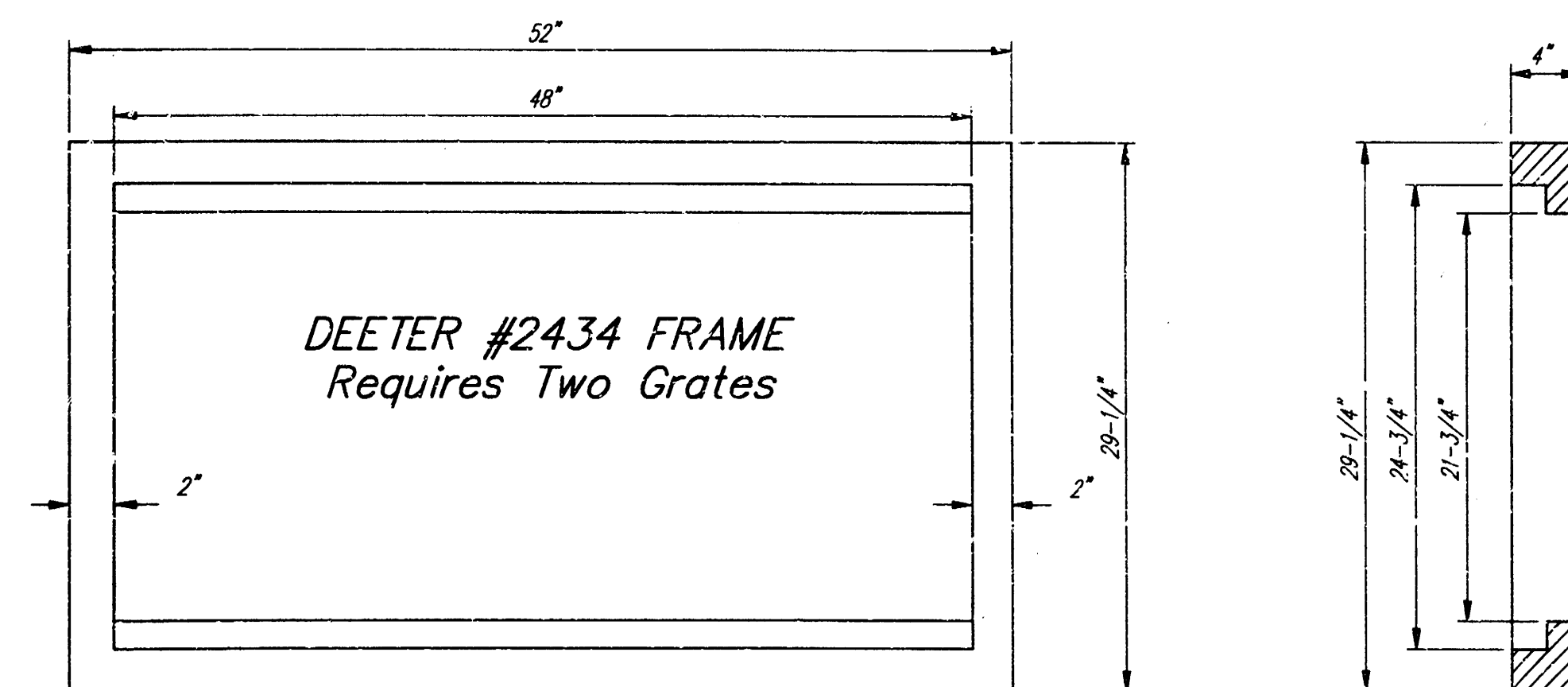
PROJECT NUMBER
719 PPS (607881)

DESIGN: C.G.W. DRAWN: Staff APPROVED: DATE: 6-97 SCALE: None SHEET: 7 OF 9

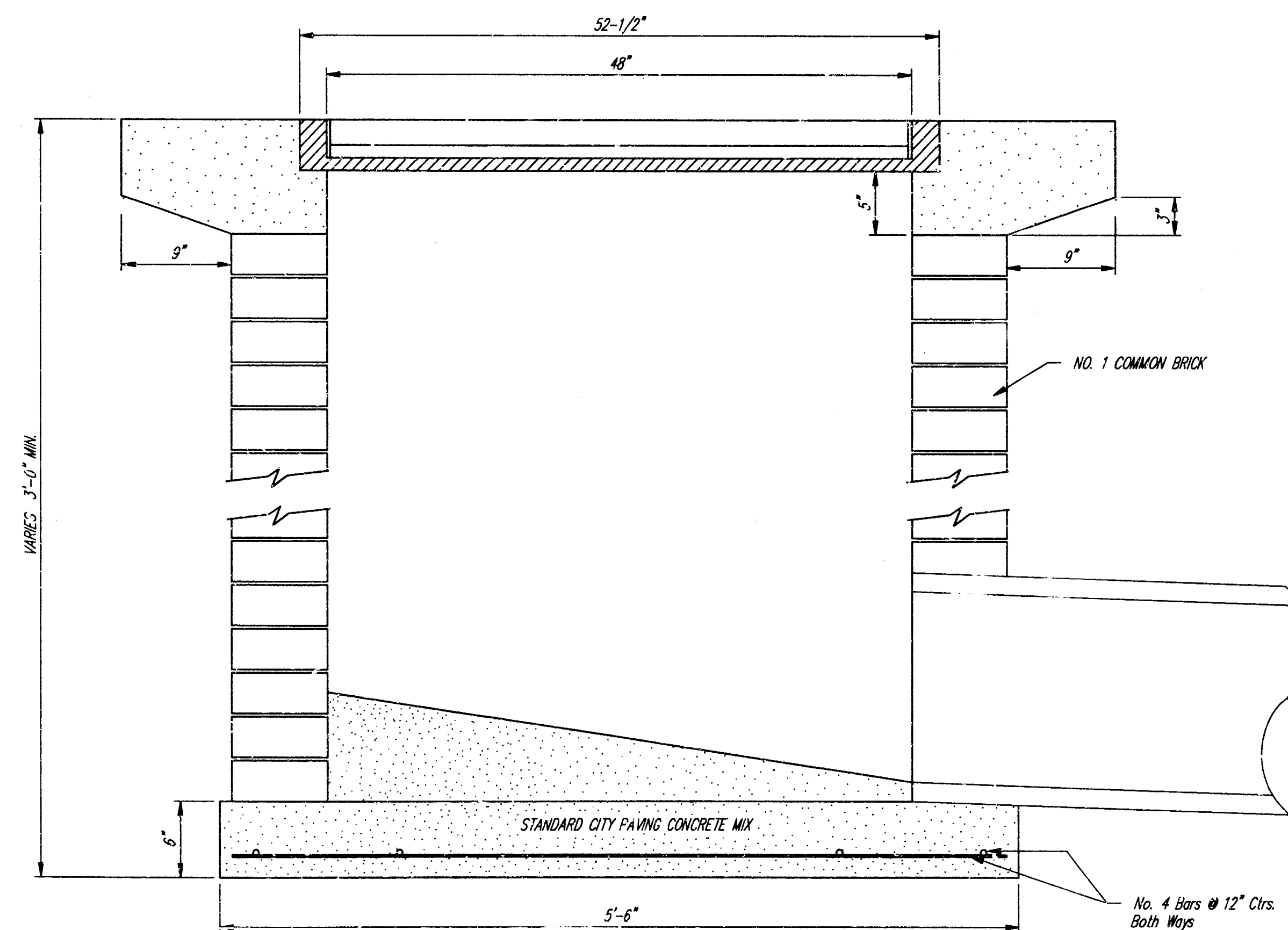
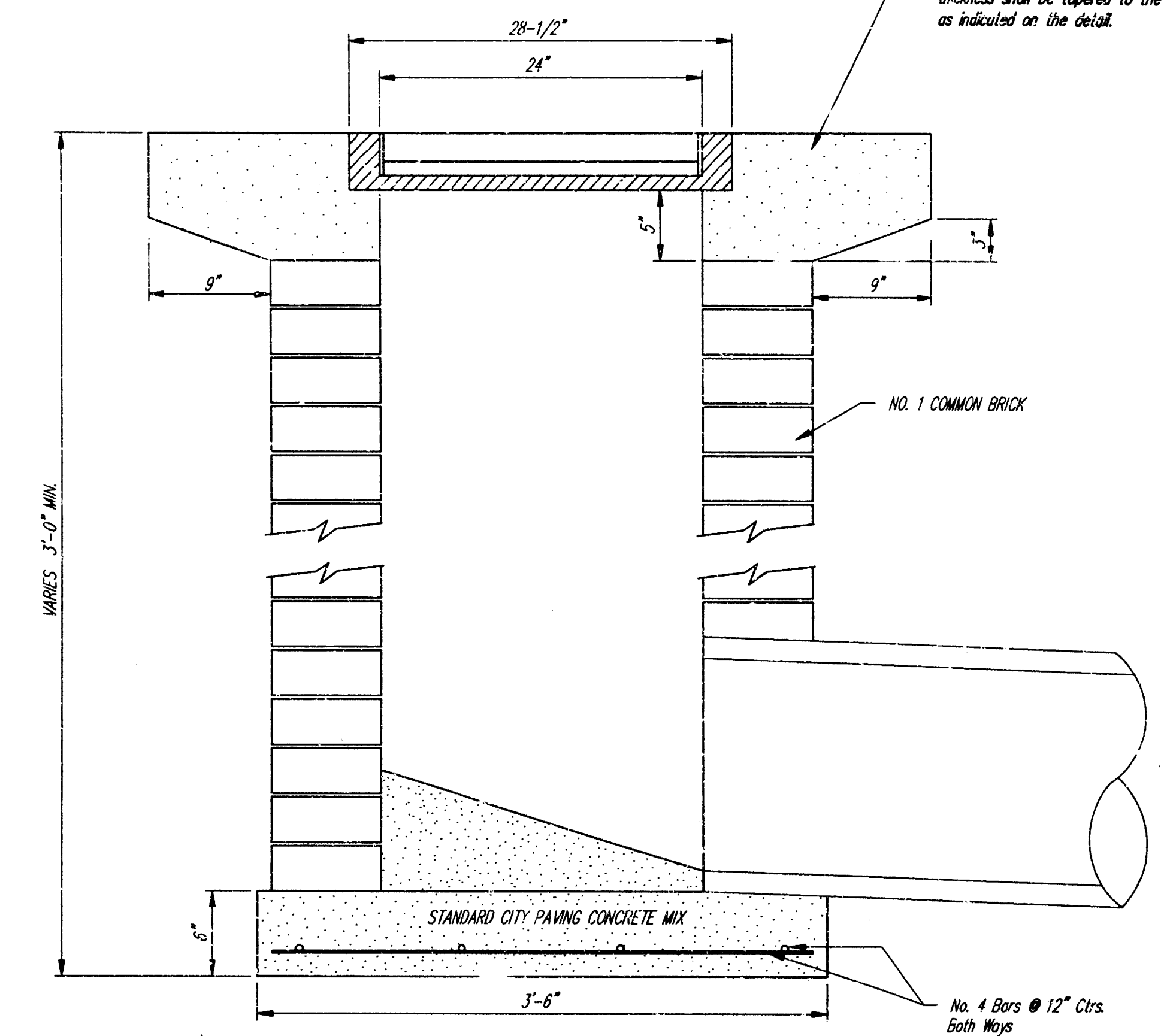
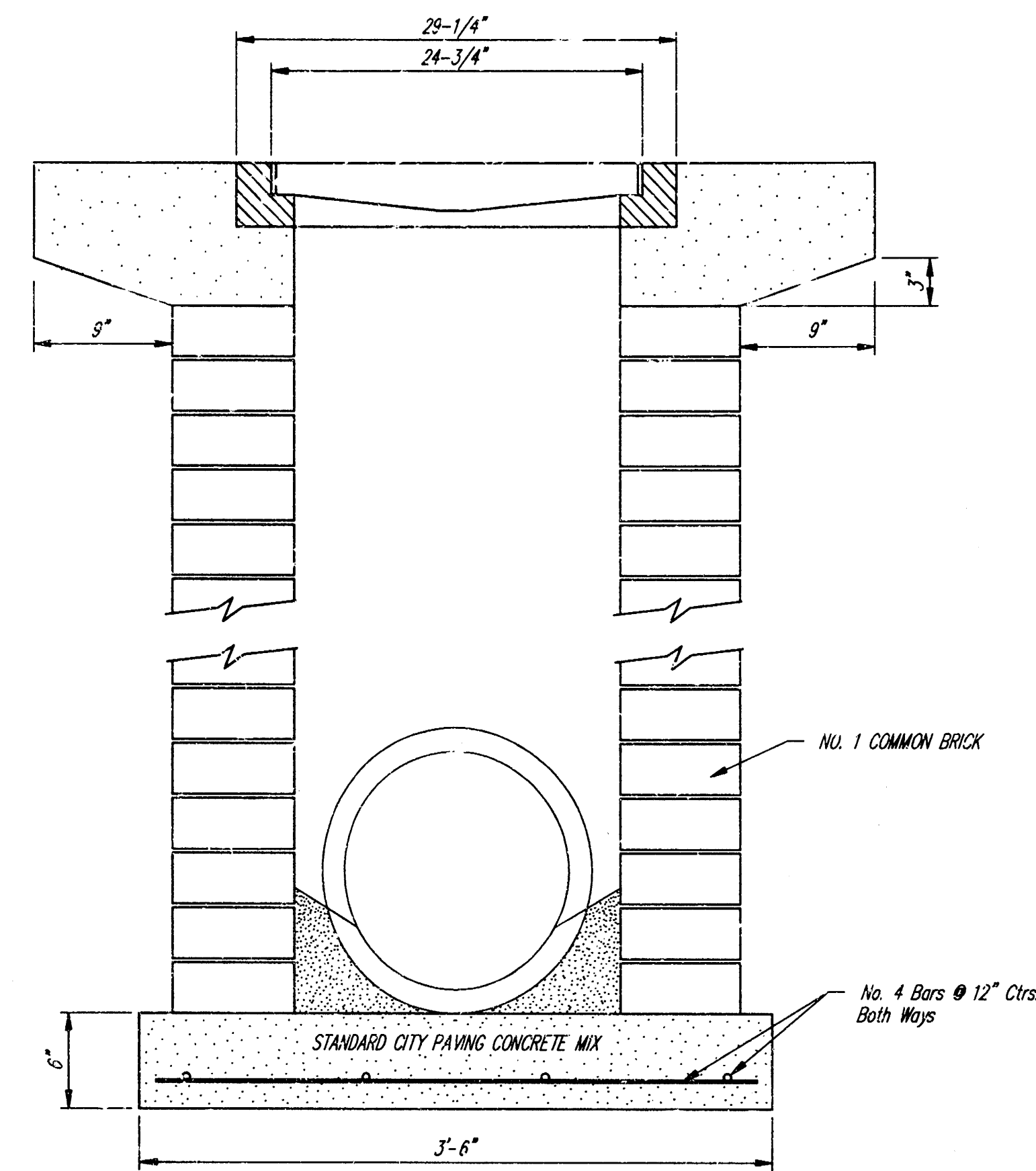


DEETER #2433 GRATE

24" x 24" Frame and Grate Detail



Double 24" x 24" Frame Detail

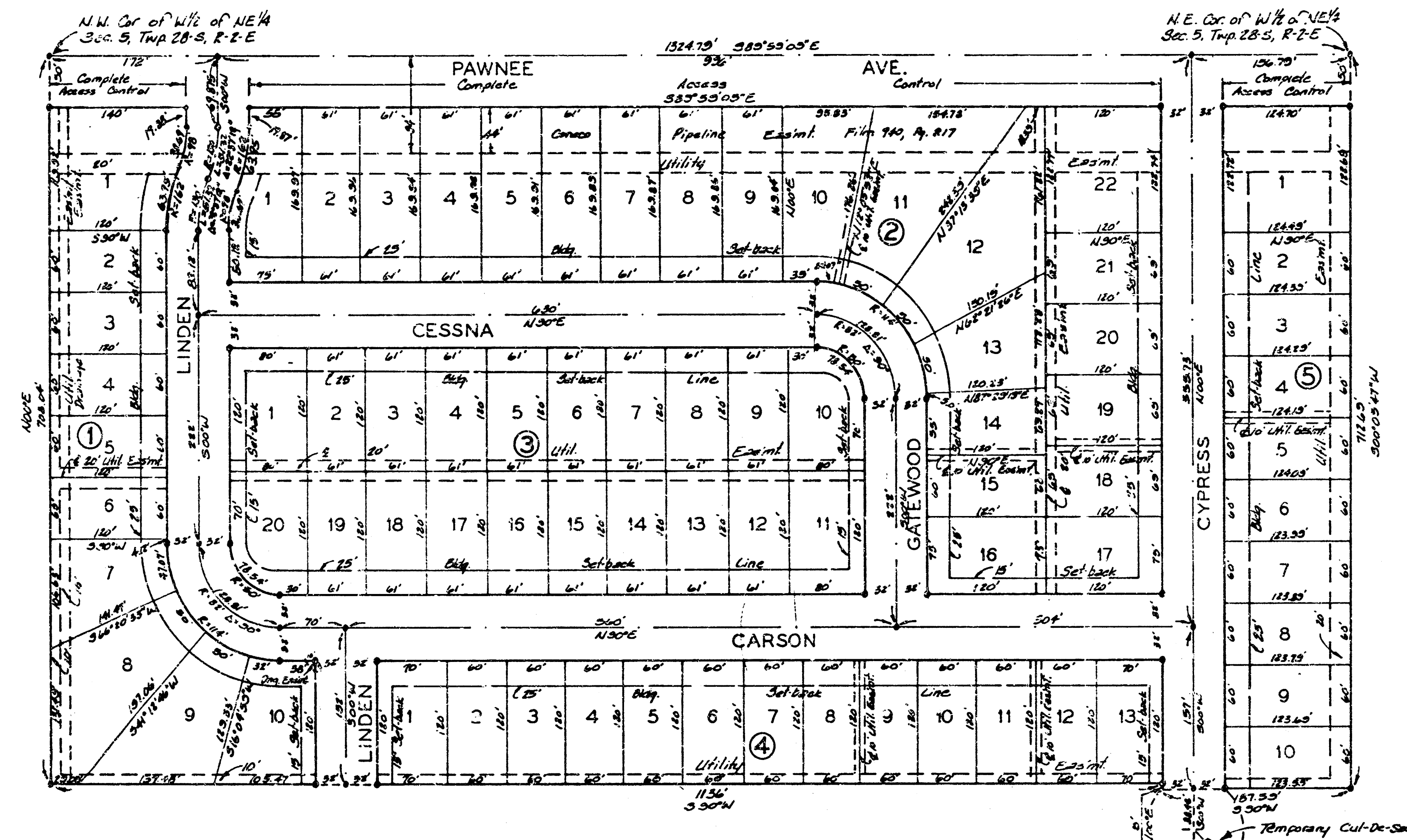


Note: Concrete apron shall be constructed around the inlet when inlet is located in an unimproved area. Where the inlet is adjacent to pavement, the pavement thickness shall be tapered to the inlet in 9 inches as indicated on the detail.

City of Wichita Standard					
Drop Inlet					
BAUGHMAN COMPANY P.A.					
ENGINEERING, SURVEYING, & PLANNING					
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211					
PROJECT NUMBER					
719 PPS (607861)					
DESIGN	DRAWN	APPROVED	DATE	SCALE	SHEET
C.O.W.	Staff		6-97		8

TOWNE PARC ADDITION

WICHITA, KANSAS



State of Kansas ss. We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "TOWNE PARC ADDITION", Wichita, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as that part of the W/2 of the NE/4 of Sec. 5, Twp. 28-S, R. 2-E of the 6th P.M., Sedgwick County, Kansas, described as beginning at the N.W. Corner of the W/2 of said NE/4; thence S. 89° 59' 05" E. along the north line of said NE/4 1324.79 feet to the N.E. Corner of the W/2 of said NE/4; thence S. 00° 05' 47" W. along the east line of the W/2 of said NE/4 712.49 feet; thence S. 90° W. 187.53 feet to a point 1136 feet east of the west line of the W/2 of said NE/4, as measured at right angles to said line; thence N. 00° E. 5 feet; thence S. 90° W. 1136 feet to the west line of the W/2 of said NE/4; thence N. 00° E. along the west line of the W/2 of said NE/4 708.04 feet to the place of beginning.

4 Nov 1987
Date

Baughman Company, P.A.
Mark A. Baughman
Surveyor

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into lots, blocks and streets to be known as "TOWNE PARC ADDITION", Wichita, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. All abutters rights of access to or from Pawnee Ave. over and across the north line of Lot 1, Block 1, Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 22, Block 2 and Lot 1, Block 5 are hereby granted to the City of Wichita, Kansas. The drainage easements are hereby granted for drainage purposes.

Bernard Novick
Betty Novick

I. T. J. Investments, Inc.
Irma N. Jacoby
President

This plat of "TOWNE PARC ADDITION", Wichita, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.
Dated this 3rd day of September 1987
Wichita-Sedgwick County Metropolitan Area Planning Commission

Chairman
Secretary

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 13th day of 1987.

Mayor
Deputy City Clerk

Entered on transfer record this 25th day of Jan 1988.

County Clerk
Ronald G. Miller, Chief Deputy

State of Kansas ss. This is to certify that this plat has been filed for record in the office of the Register of Deeds this 28th day of Jan 1988, at 11:50 A.M., and is duly recorded.

Register of Deeds
Deputy

State of Kansas ss. The foregoing instrument acknowledged before me this 25 day of November 1987 by Bernard Novick and Betty Novick, his wife.

My Appl. Exp. 12/15/88
Notary Public

State of Kansas ss. The foregoing instrument acknowledged before me this 25 day of November 1987 by Irma N. Jacoby, President of I.T.J. Investments, Inc. on behalf of the corporation.

My Appl. Exp. 12/15/88
Notary Public

928853