

STORM WATER SEWER EXTENSIONS

PAWNEE MESA ADDITION - PHASE 3

PRIVATE PROJECT NUMBER: 606 PPS (607861)

GENERAL NOTES

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. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. 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 lines 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.

Pavement removal and/or replacement will be measured and paid for on the lineal foot basis as measured along the centerline of the water line, regardless of width, pavement type and/or pavement thickness. Minimum limits of such pavement removal and replacement shall be one foot beyond the limits of the excavation made for the water line or the structure, except when such saw cuts are within three (3) feet of an existing joint the limits of removal shall be extended to the existing joint. Removal and replacement of existing pavement shall conform to the applicable sections of the City of Wichita Standard Specifications.

All disturbed areas shall be seeded, mulched, and fertilized per City specifications.

Utility easements along the route of the sewer shall be graded to the elevation shown on the plan/profile sheets.

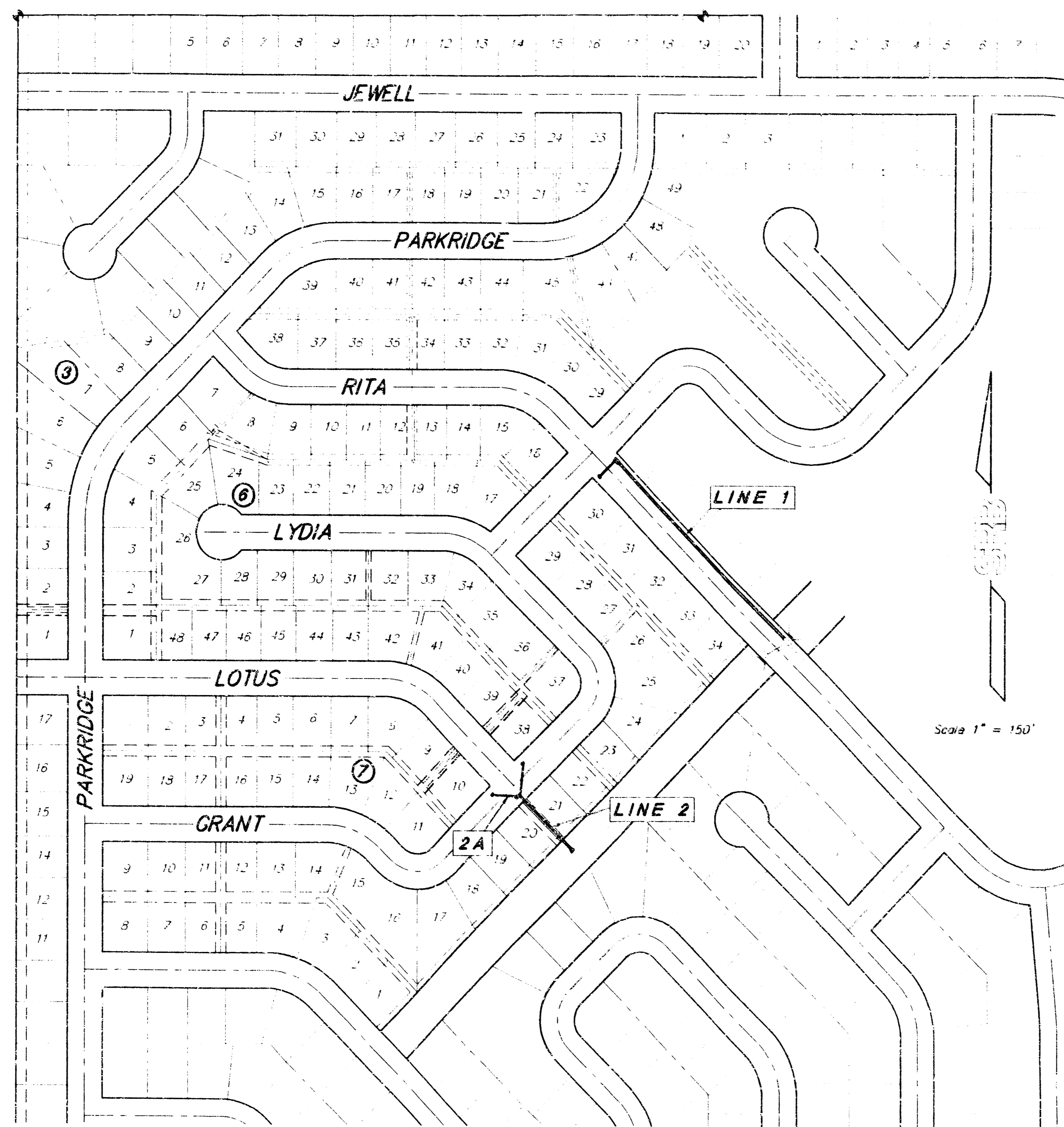
The Contractor shall contact Kansas One Call prior to construction to verify the location of all underground utility lines. Any arrangements for the relocation of underground utility lines shall be the responsibility of the Contractor.

The Contractor shall install 4" P.V.C. Stubs in each inlet to allow for future sub-grade drainage.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers VRH 1/23/96
Driveway Approaches _____
Water Mains _____
Paving _____

NOTE TO CONTRACTORS
Inspection and testing for this project are 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.

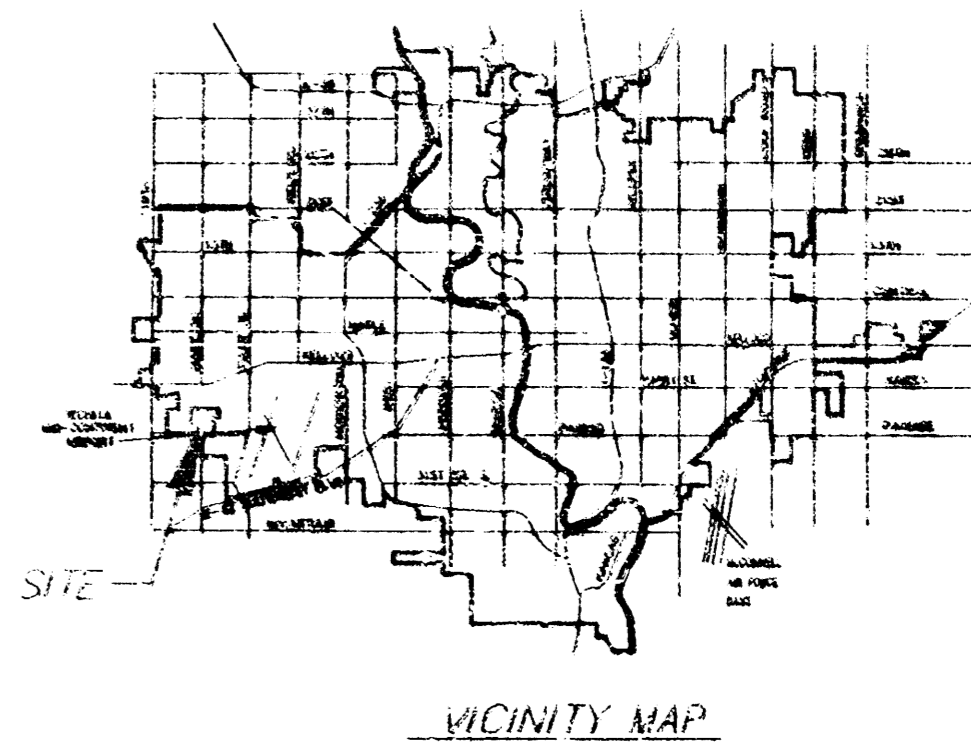


INDEX OF SHEETS

1. TITLE SHEET
2. LINE 1 AND LINE 2
3. STANDARD MANHOLE DETAIL (L = 50)
4. STANDARD MANHOLE DETAIL (L = 75)

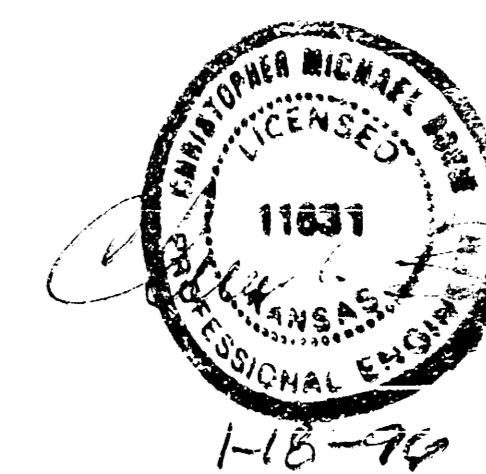
BENCH MARKS

BENCH MARK: SQUARE CUT IN TOP OF HUBBARD, SOUTHWEST CORNER OF ROBC UNDER JEWELL, BETWEEN PRESCOTT AND FELDCREST, ELEVATION = 140.23 CITY DATUM
BENCH MARK: SQUARE CUT IN TOP OF HUBBARD, NORTH SIDE OF RITA, LOCATED 300' SOUTHEAST (ALONG RITA) OF THE INTERSECTION OF RITA AND LODIS, ELEVATION = 144.22 CITY DATUM.



BOOKED
2-7-97
MCS
D-326

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK - CITY ENGINEER

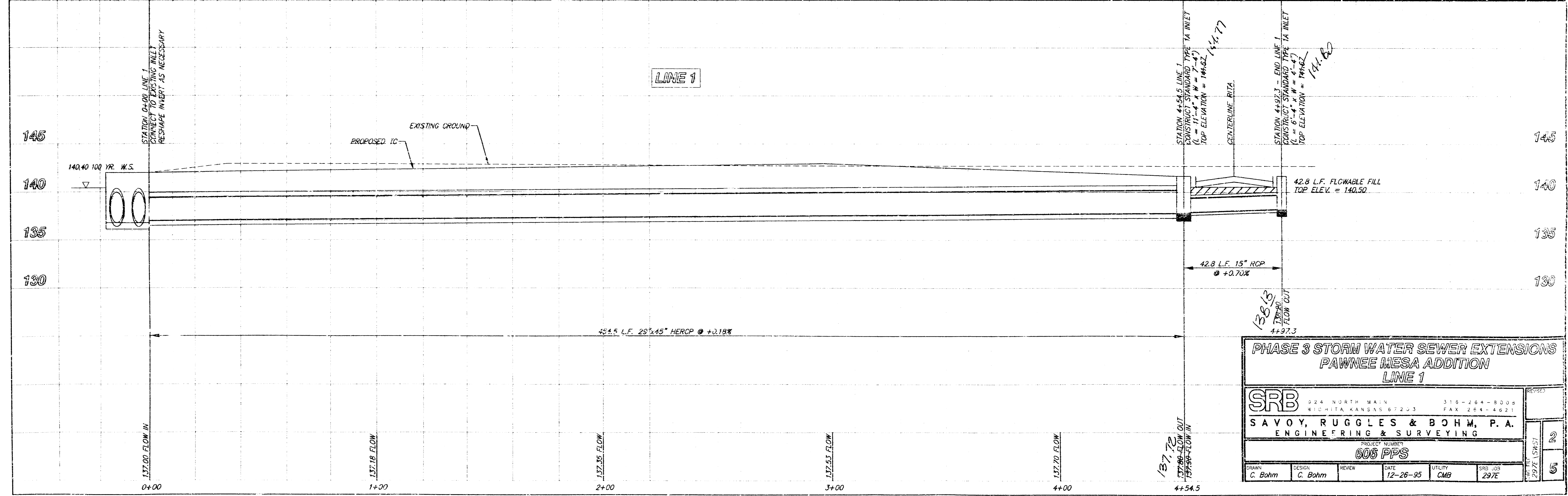
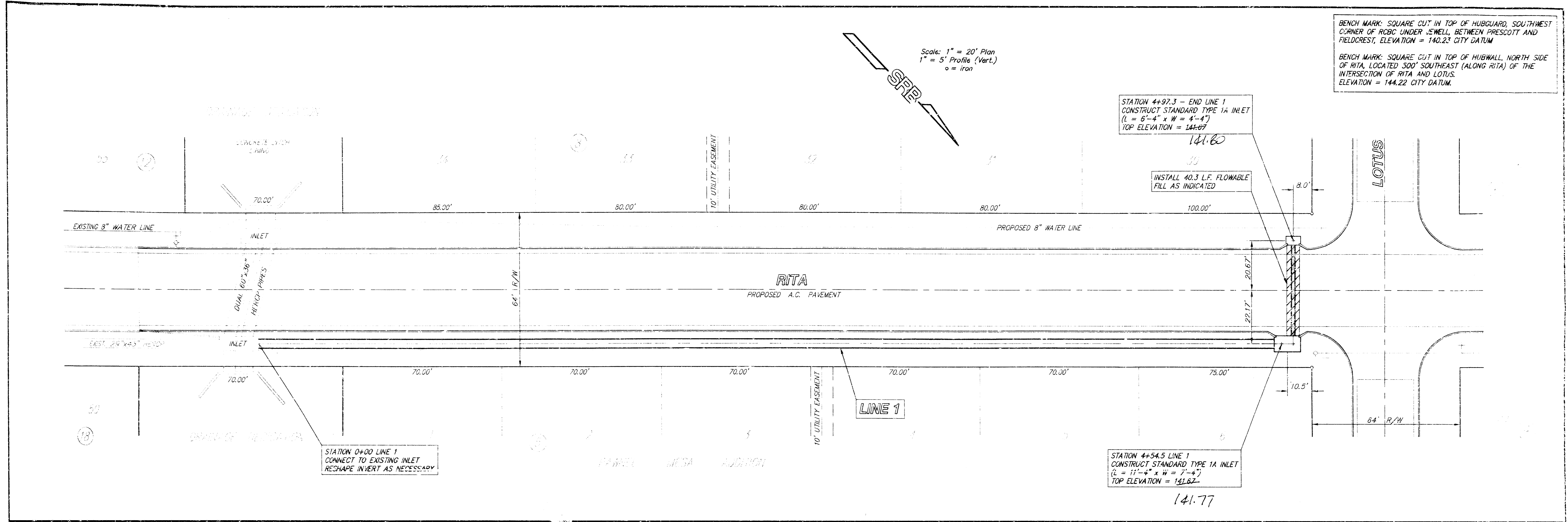


AS BUILT
7/25/96

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8000 FAX 316-264-4627
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

Scale: 1" = 20' Plan
 1" = 5' Profile (Vert.)
 ○ = Iron

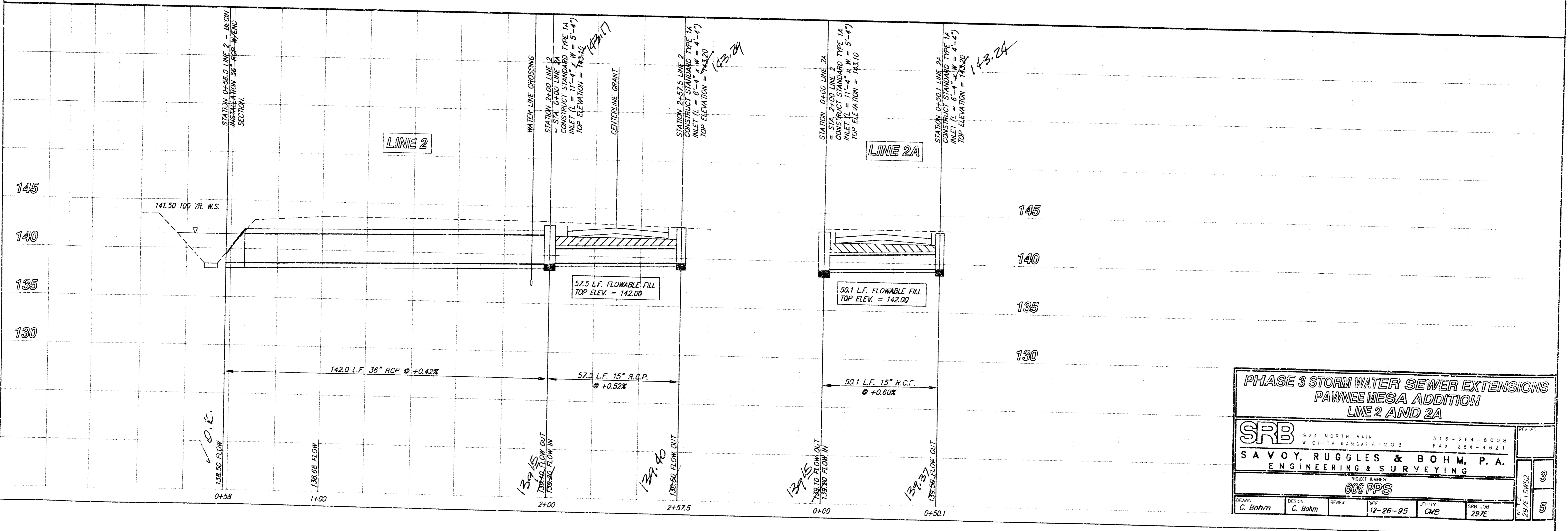
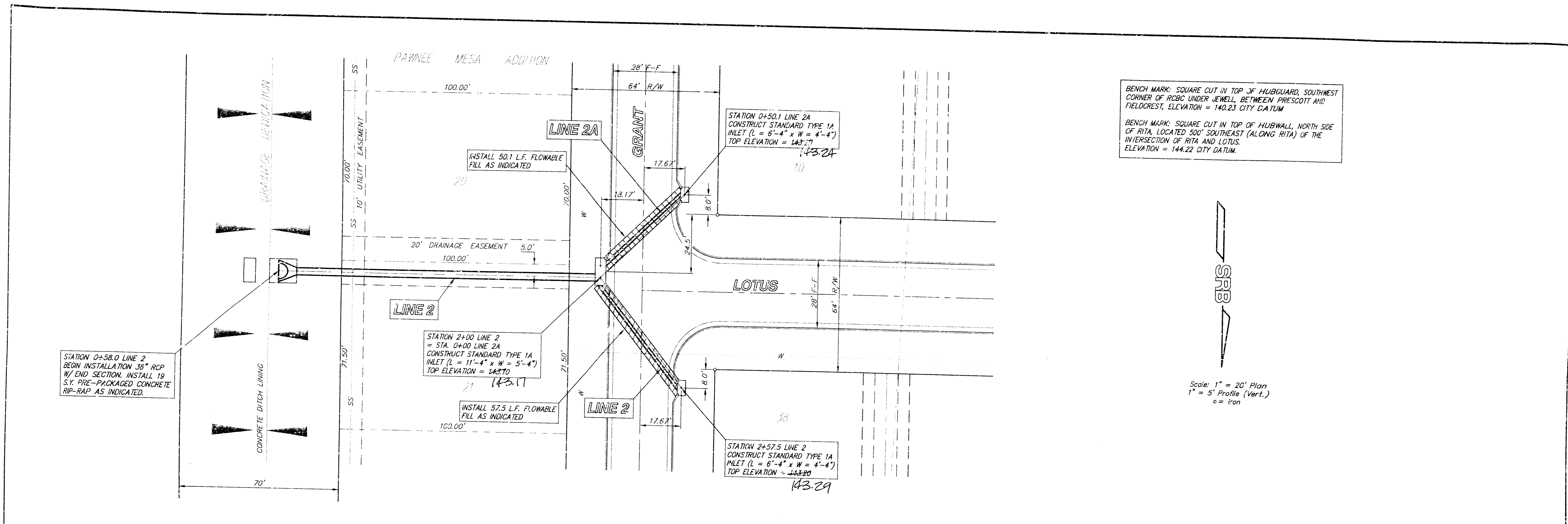
BENCH MARK: SQUARE CUT IN TOP OF HUBGUARD, SOUTHWEST CORNER OF RIBC UNDER S.WELL, BETWEEN PRESCOTT AND FIELDCREST, ELEVATION = 140.23 CITY DATUM
 BENCH MARK: SQUARE CUT IN TOP OF HUBWALL, NORTH SIDE OF RITA, LOCATED 300' SOUTHEAST (ALONG RITA) OF THE INTERSECTION OF RITA AND LOTUS, ELEVATION = 144.22 CITY DATUM

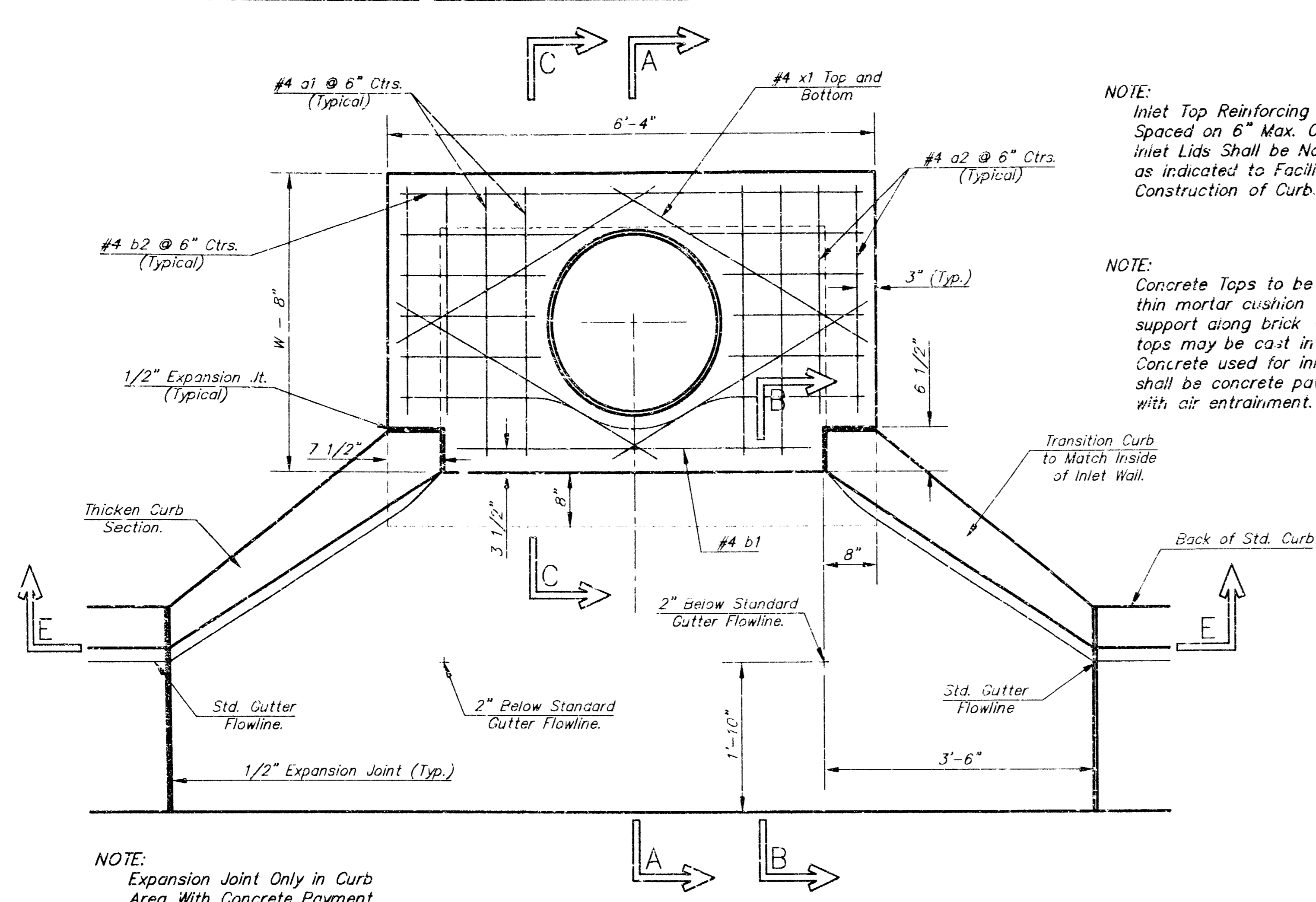


**PHASE 3 STORM WATER SEWER EXTENSIONS
 PAWNEE MESA ADDITION
 LINE 1**

SRB		924 NORTH MAIN WICHITA, KANSAS 67203	316-264-8008 FAX 264-4821
SAVOY, RUGGLES & BOHM, P.A. ENGINEERING & SURVEYING			
PROJECT NUMBER 606 PPS			
DRAWN C. Bohm	DESIGN C. Bohm	REVIEW	DATE 12-26-95
		UTILITY CMB	SRB JOB 297E

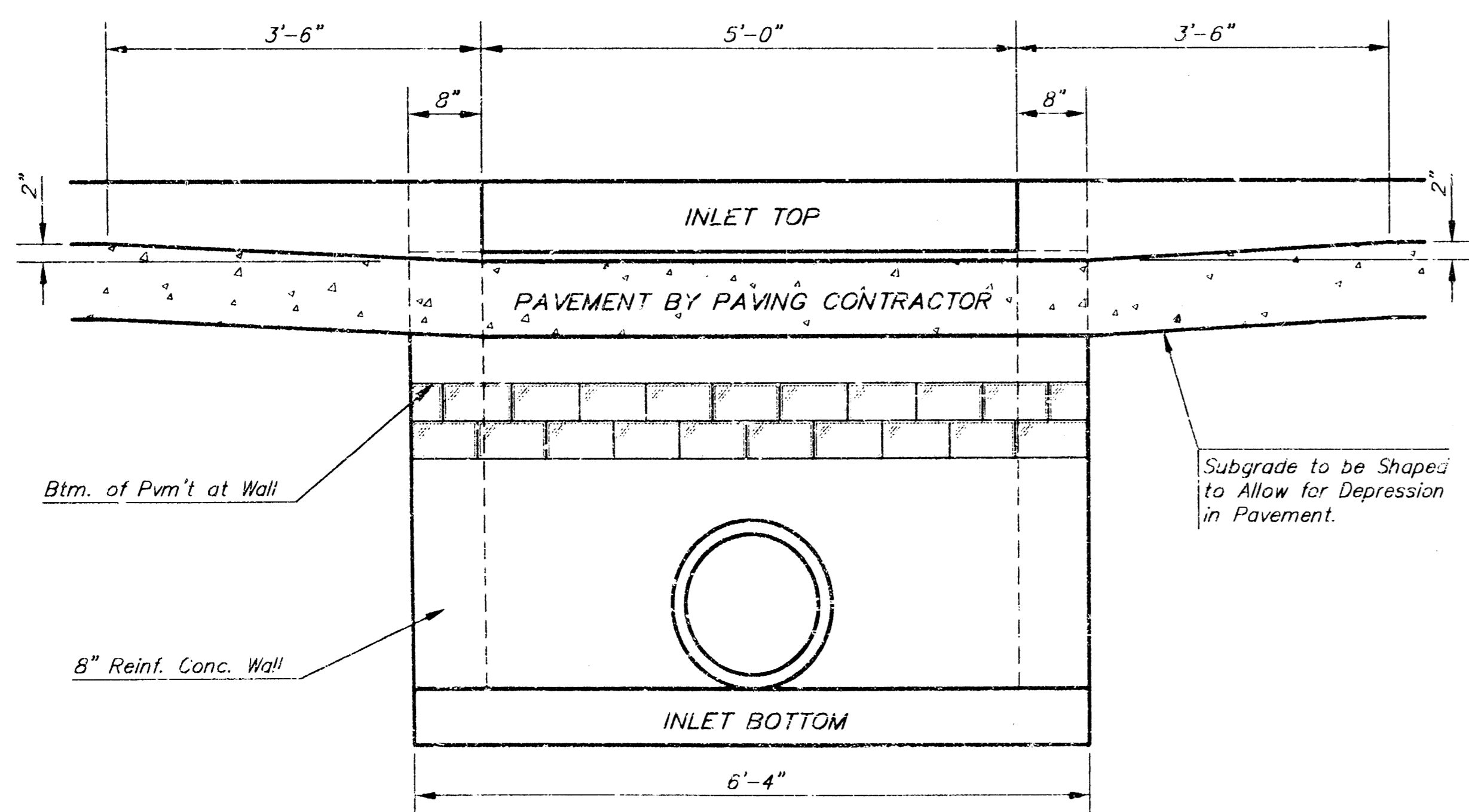
REVISIONS
 2
 5



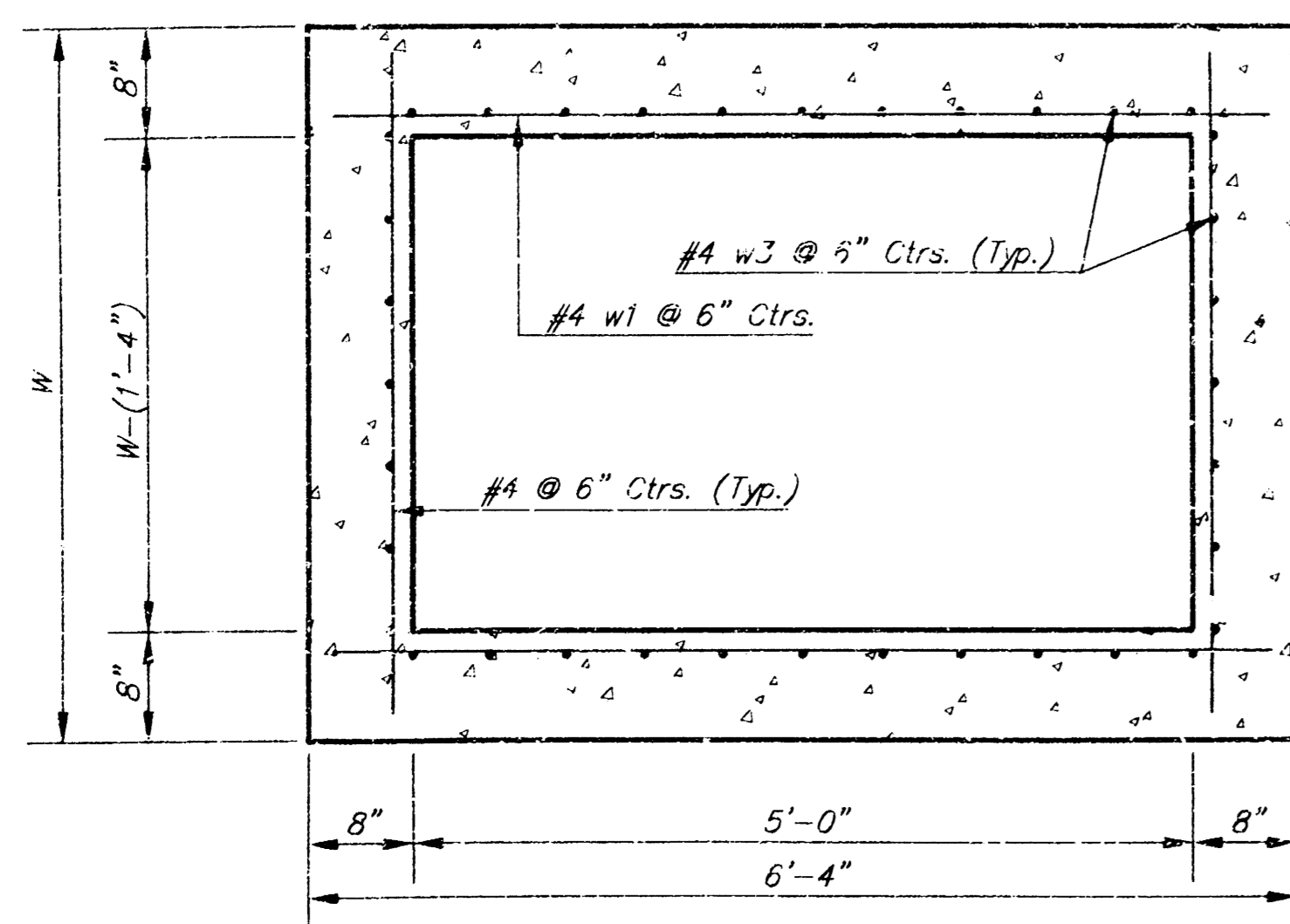


NOTE: Expansion Joint Only in Curb Area With Concrete Pavment.

PLAN



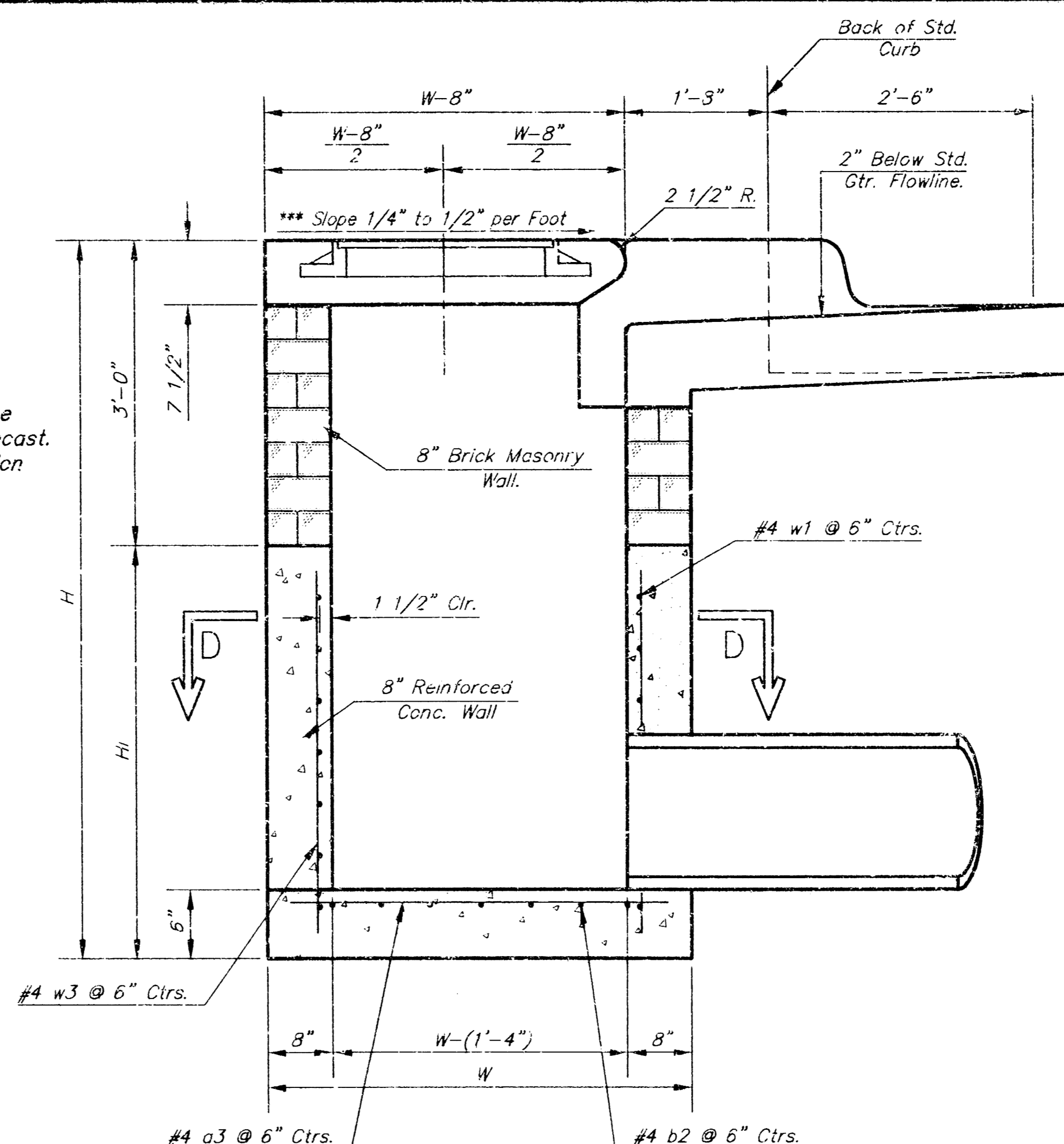
SECTION E-E



SECTION D-D

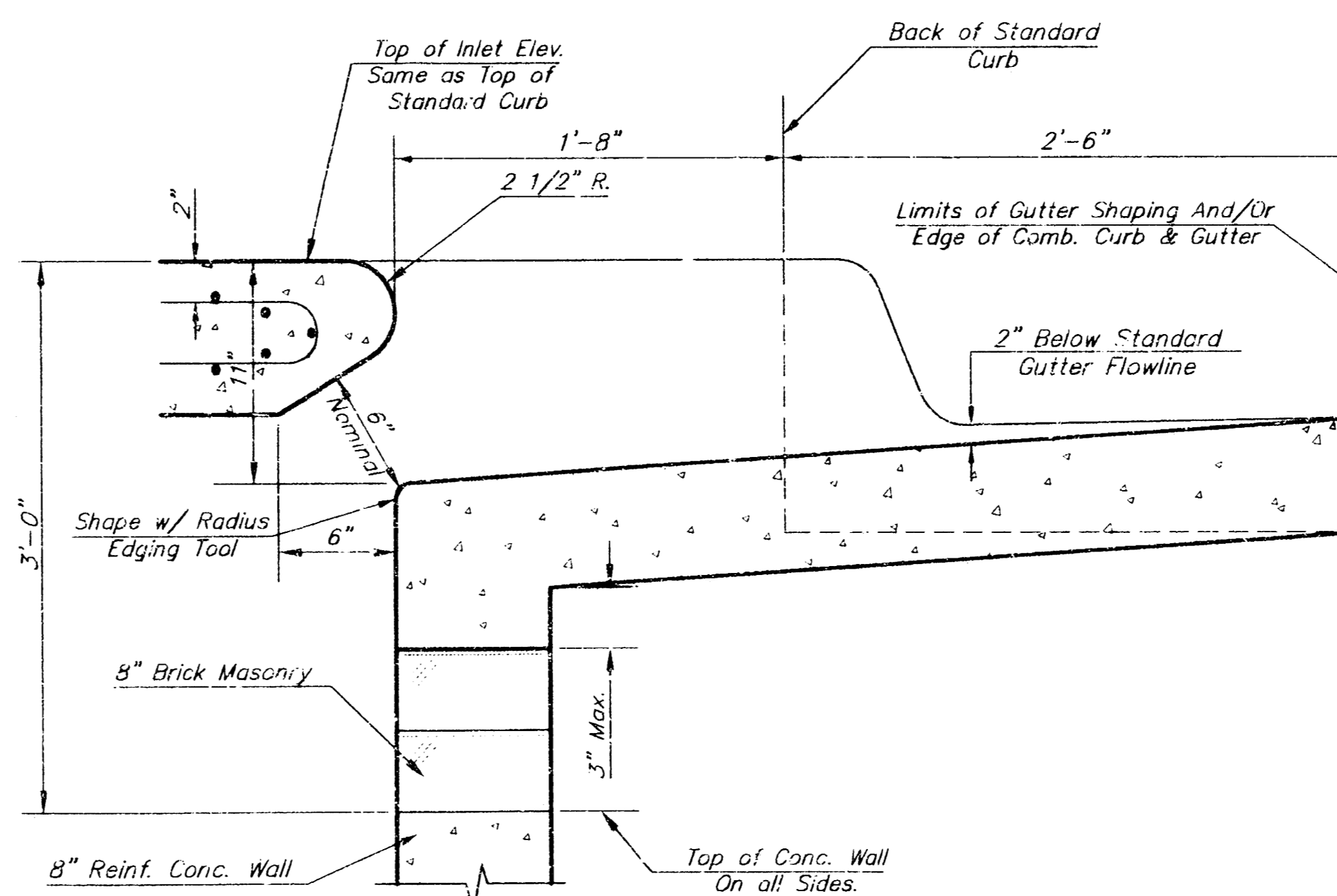
NOTE: Inlet Top Reinforcing shall be Spaced at 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

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.

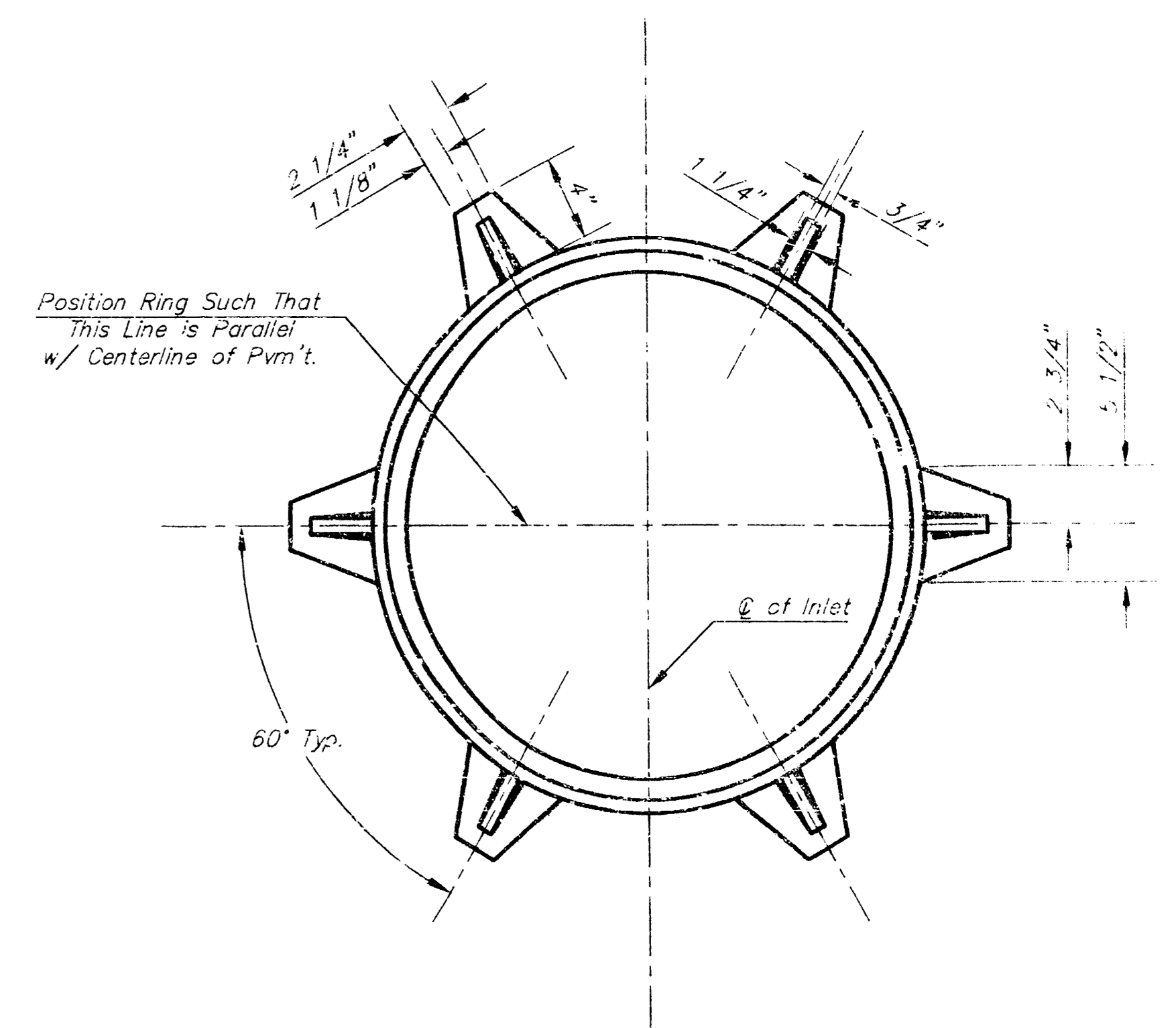


SECTION A-A

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



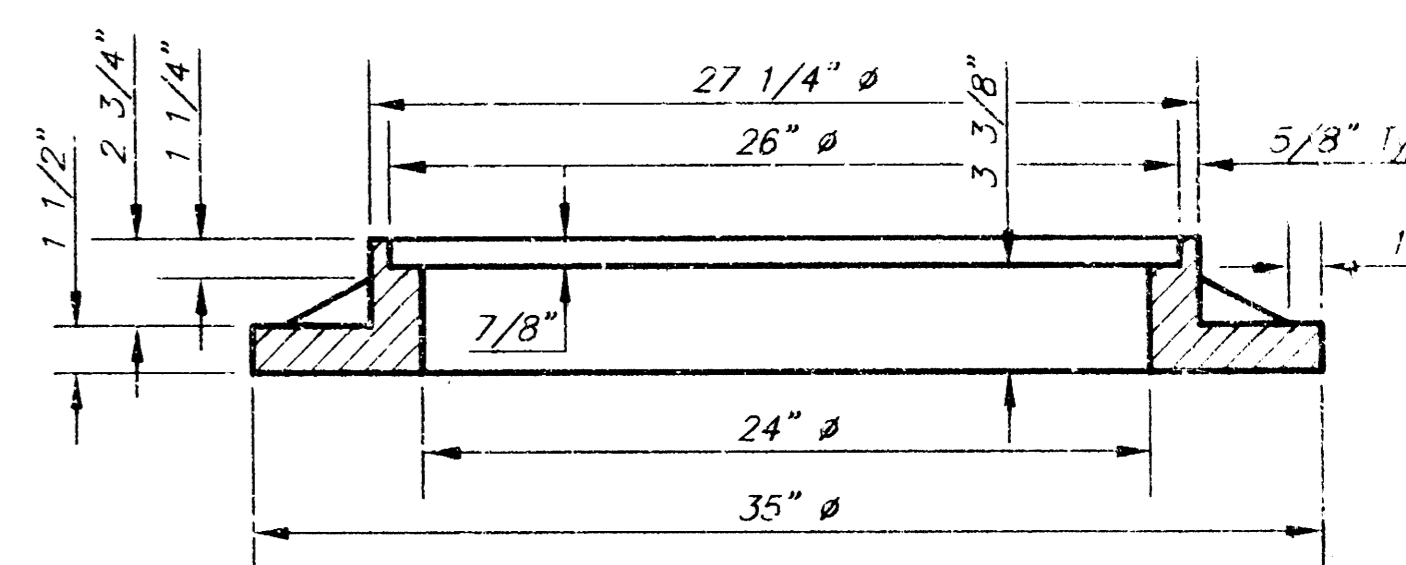
SECTION B-B



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 Frames.



SECTION A-A

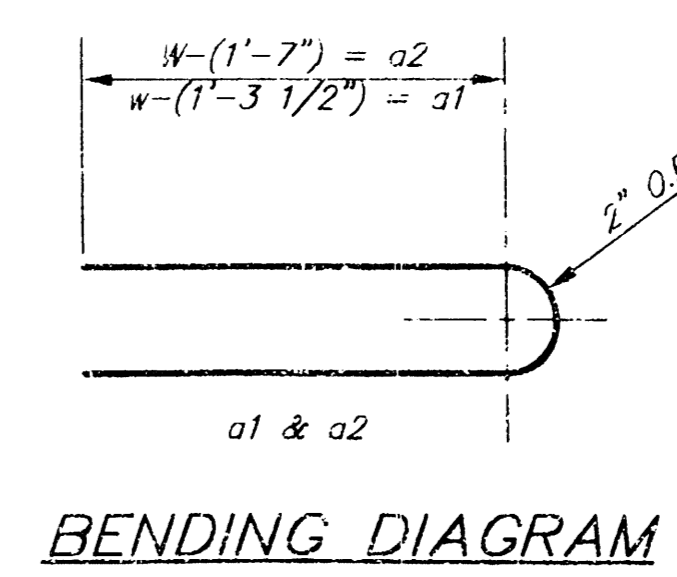
PRECAST SLAB AND FLOOR REINFORCING

MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
w1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

WALL REINFORCING

MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	32	②	40	②	44	②	48	②

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



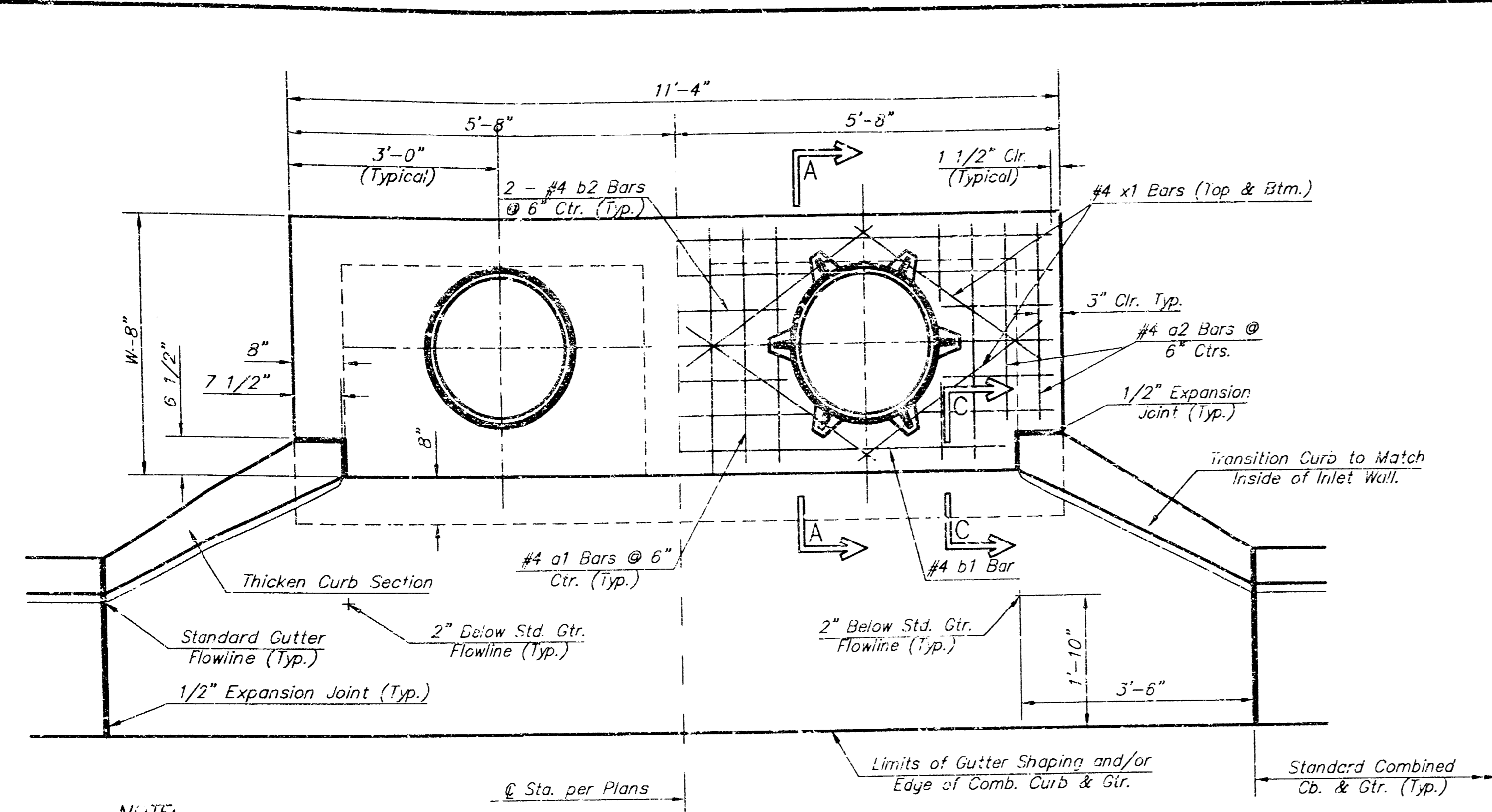
BENDING DIAGRAM

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"	0.92±

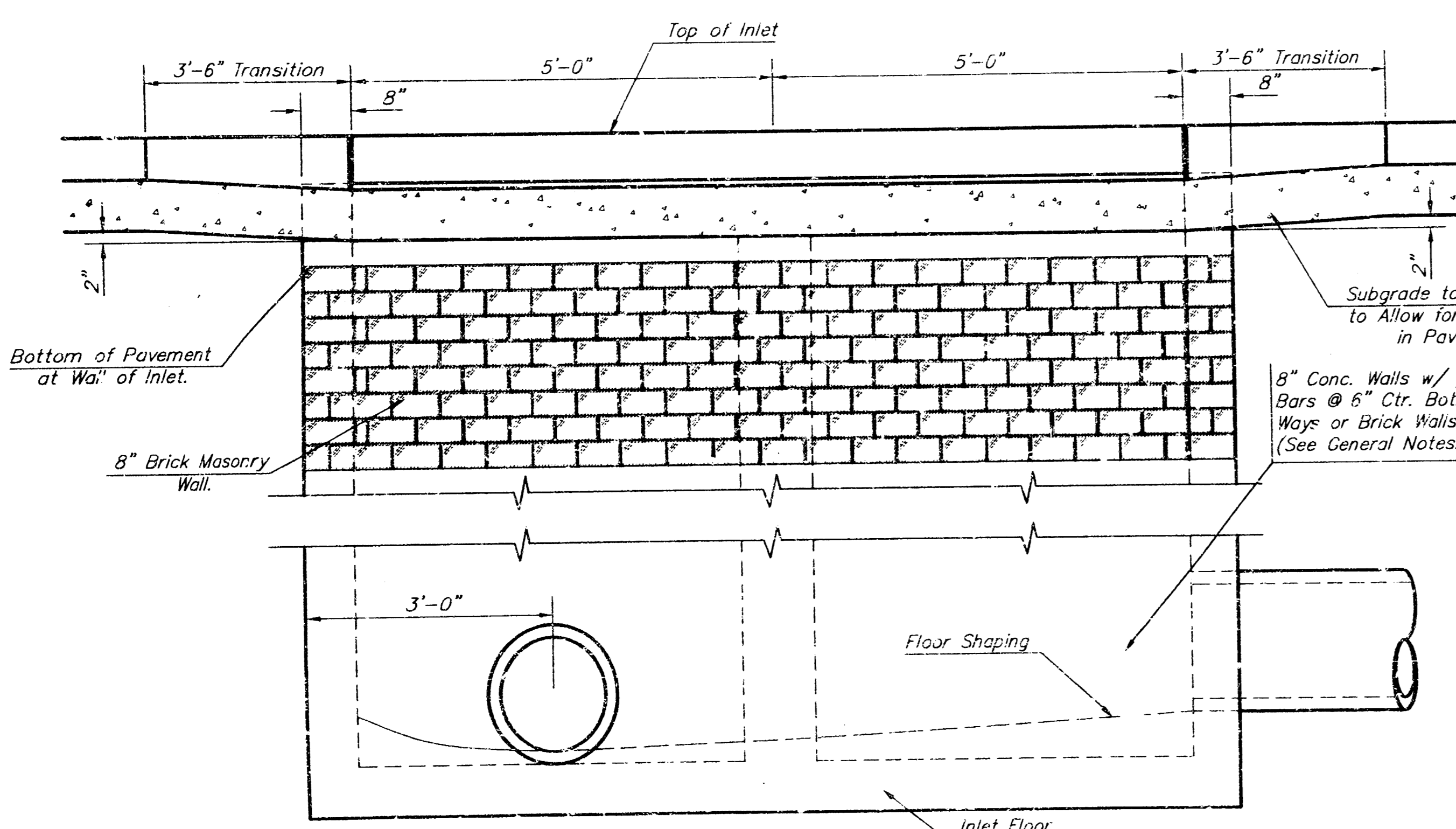
TYPE 1A INLET (LENGTH = 5.0')
CITY OF WICHITA, KANSAS

Revised - Feb. 16, 1988

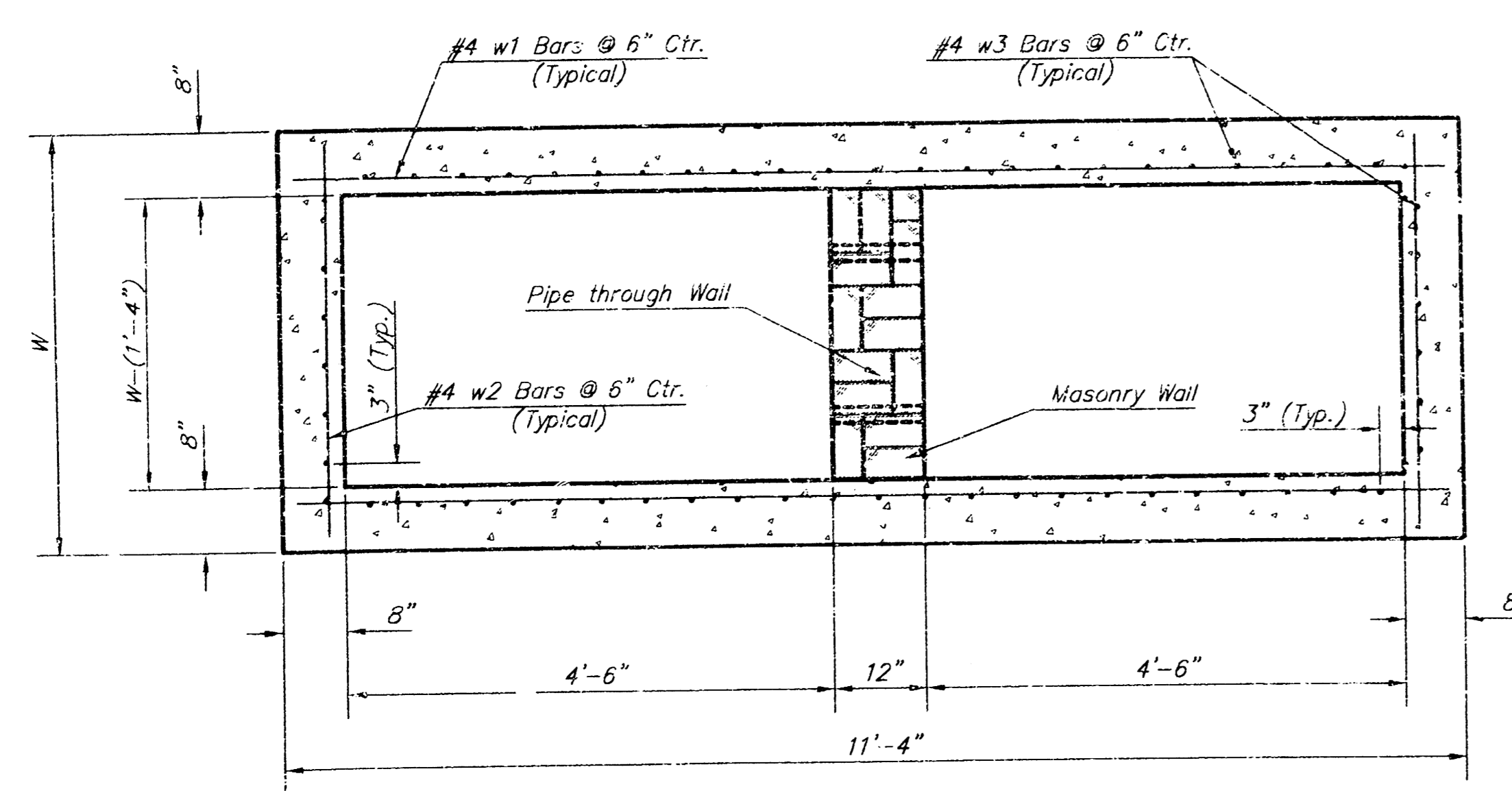


NOTE:
Expansion Joint Only in Curb Area with Concrete Pavement.

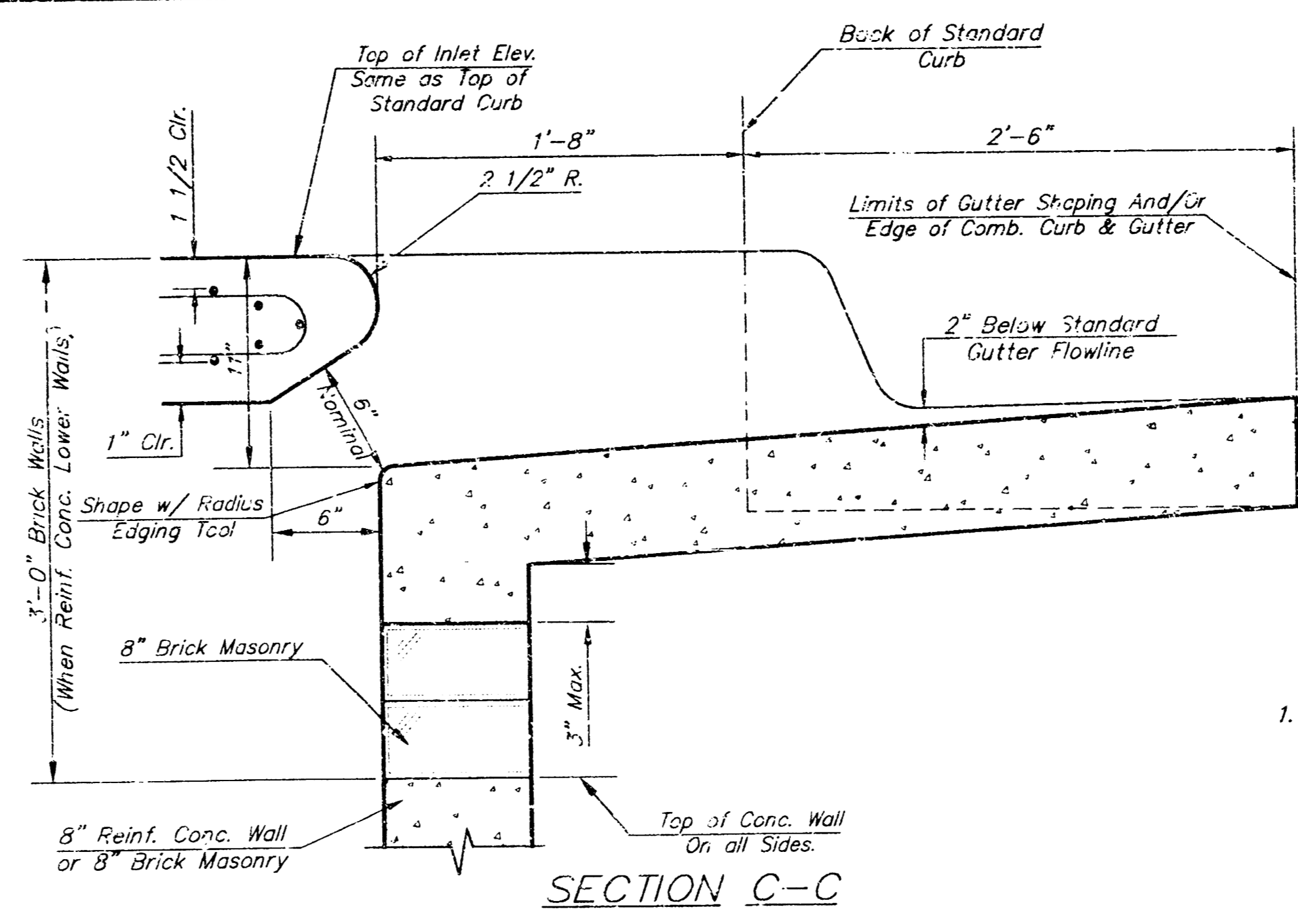
PLAN
*Left Side Shown Without Slab Reinforcing.
Right Side Shown With Slab Reinforcing



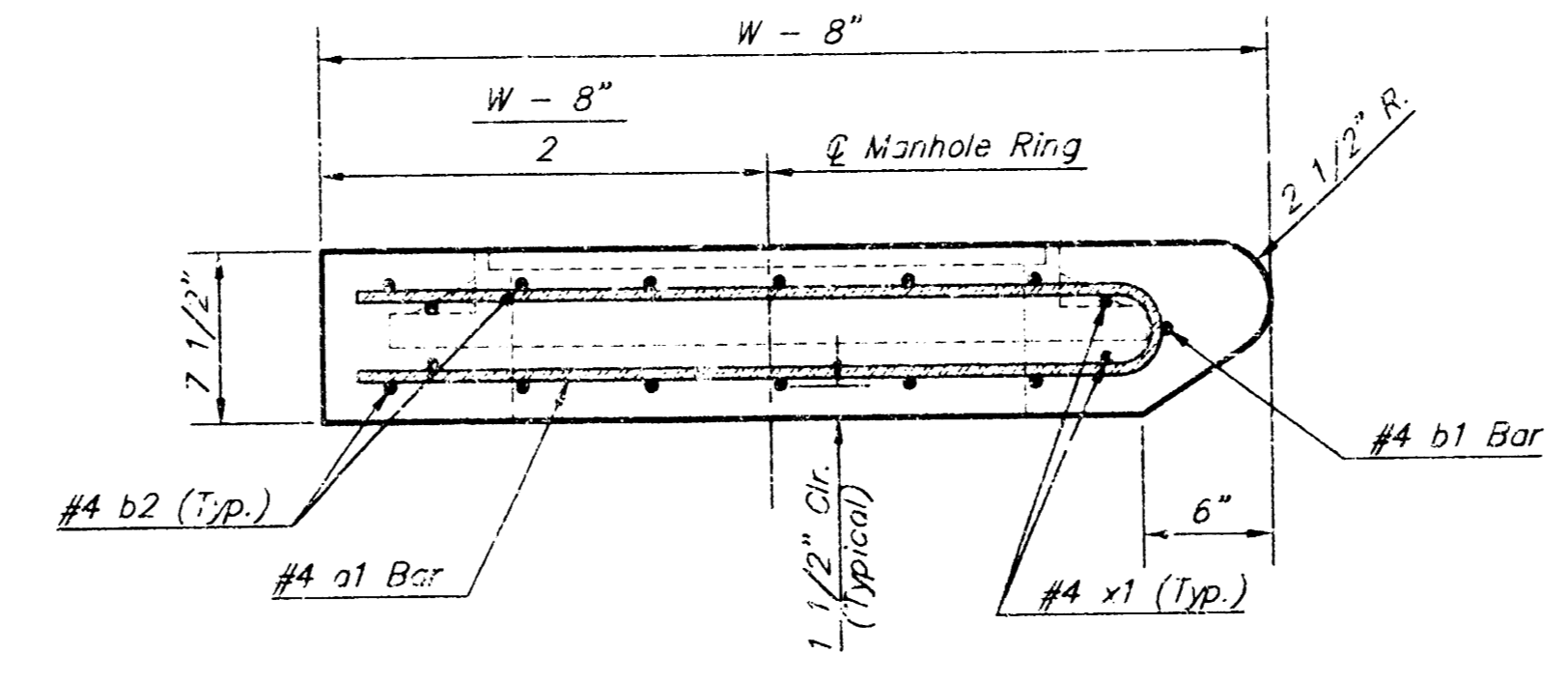
ELEVATION



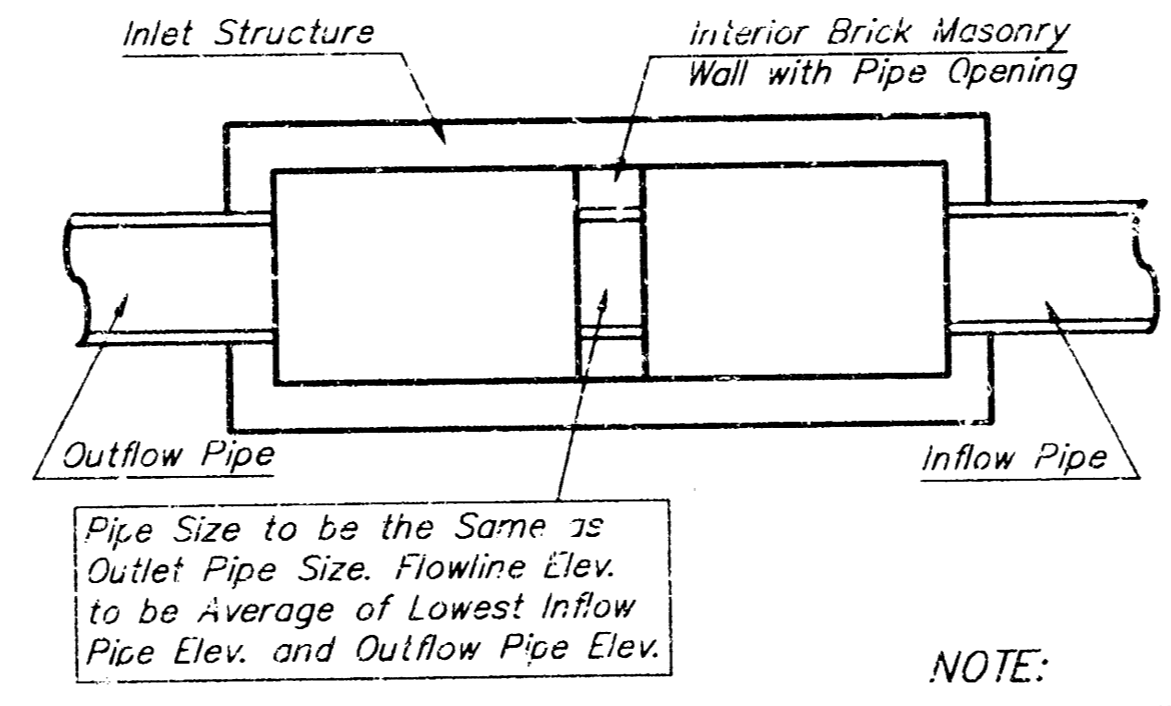
SECTION B-B



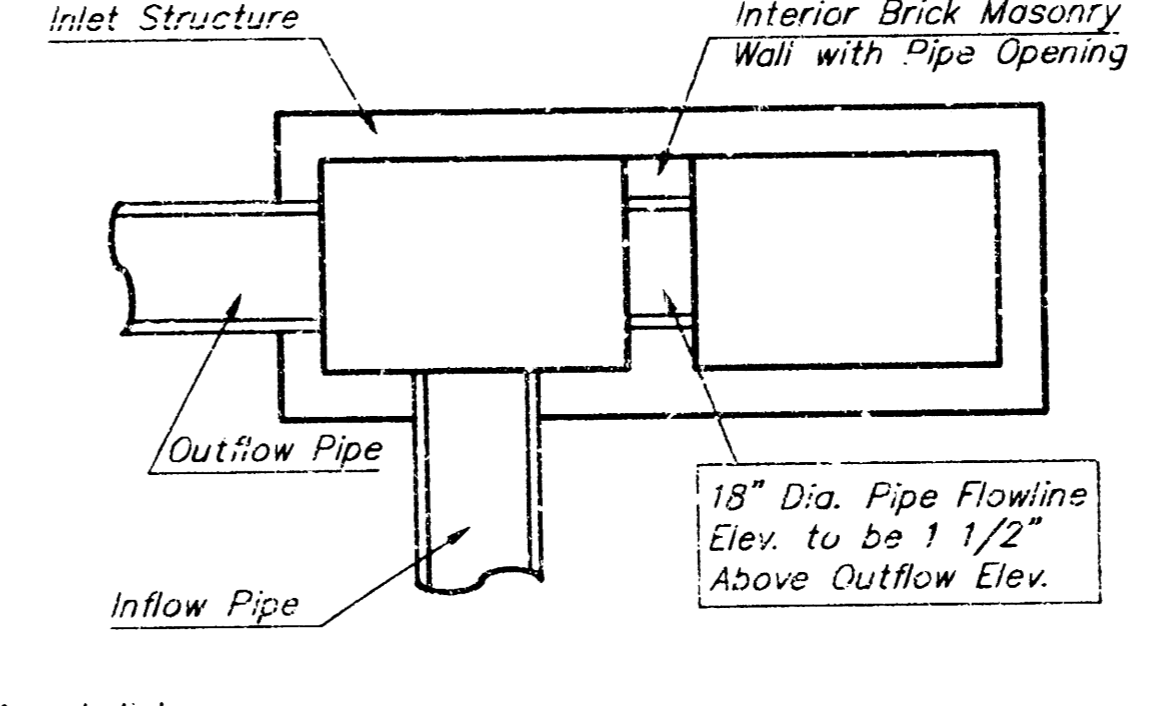
SECTION C-C



SECTION A-A

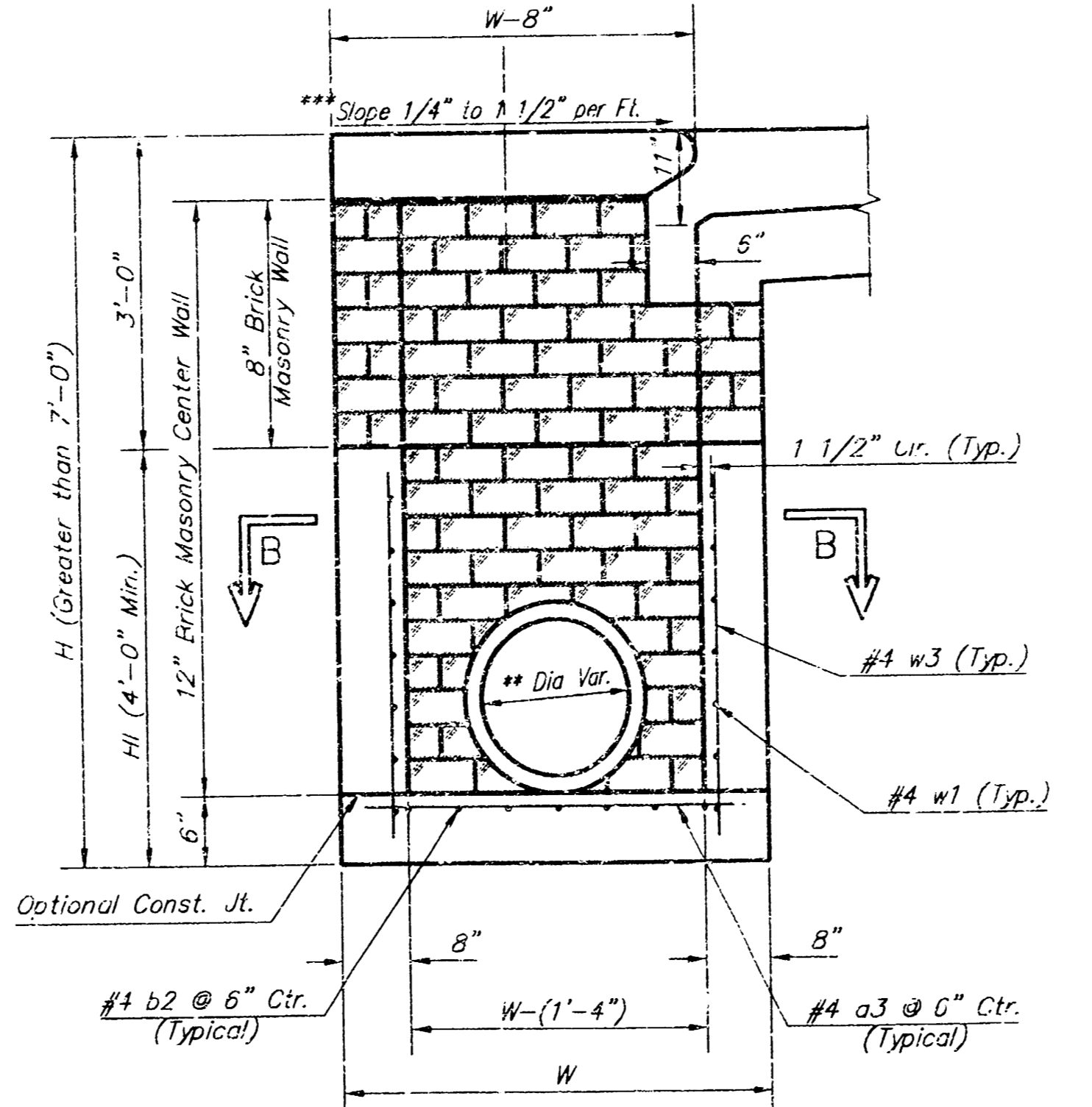


CASE I

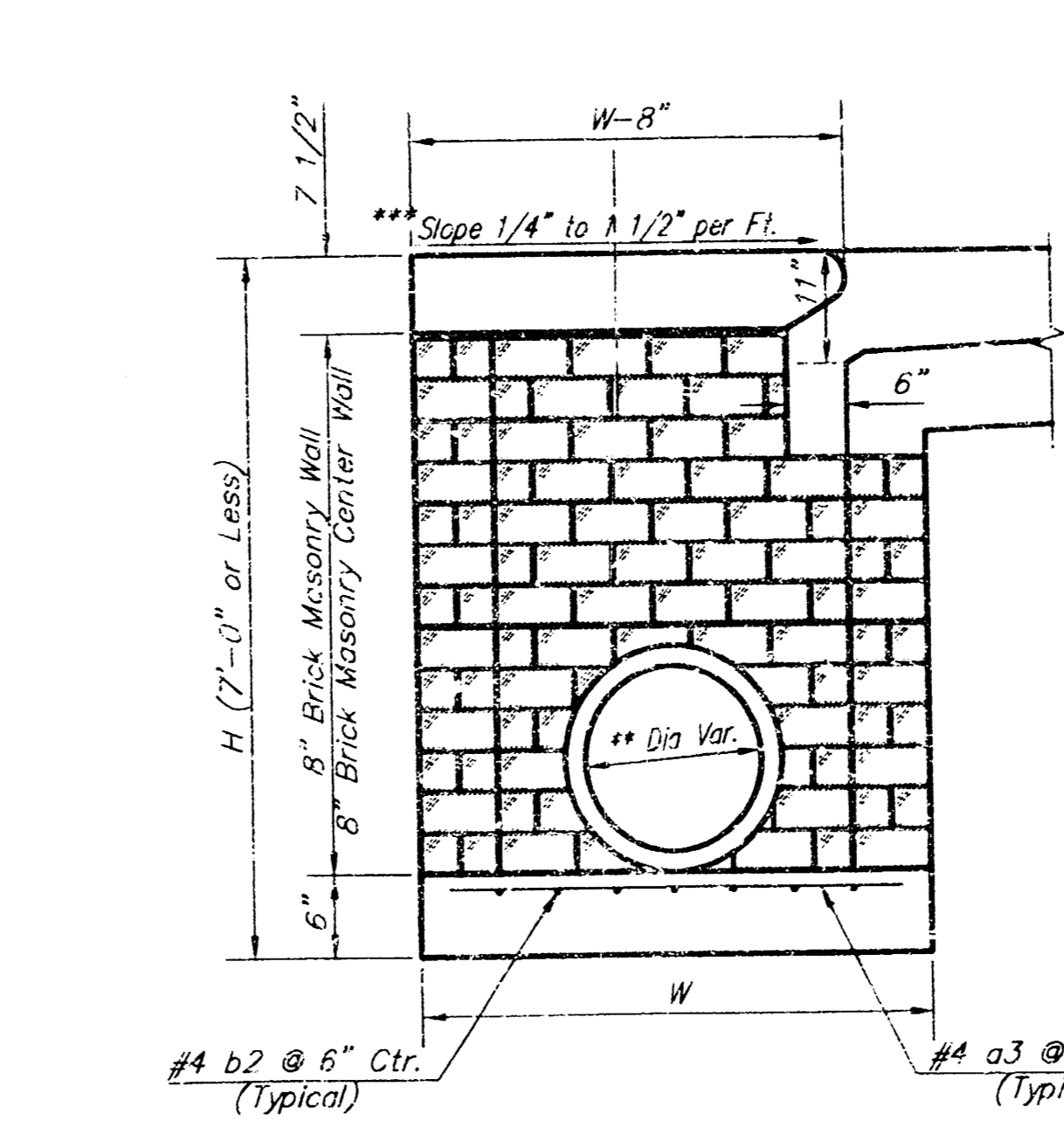


CASE II

NOTE:
Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.



TYPICAL INLET SECTION AT CENTER WALL
(Reinforced Concrete Walls)



TYPICAL INLET SECTION AT CENTER WALL
(Masonry Walls)

NOTES:
** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II above.
*** Slope of inlet tops to match sidewalk or parking slopes within limits indicated

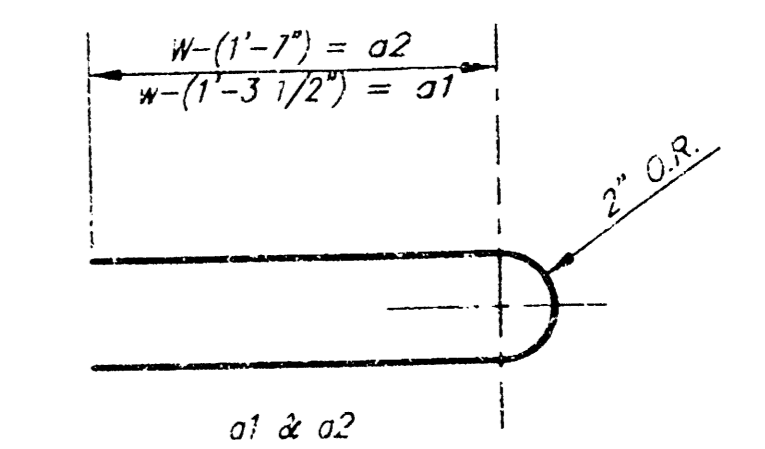
PRECAST SLAB AND FLOOR REINFORCING											
MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
* a1	#4	13	6'-7"	13	8'-7"	13	10'-7"	13	12'-7"	13	14'-7"
a2	#4	4	8'-0"	4	8'-0"	4	10'-0"	4	10'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1"	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
* b2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
x1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	5'-2"

WALL REINFORCING											
MARK	SIZE	W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
		NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	52	②	56	②	60	②	64	②	68	②

* Field Bars or Cut Reinforcing as Required for Clearance.
① 4 (H = 12") (H = 21") Rounded down to nearest 0.5"
② 16 - 3"

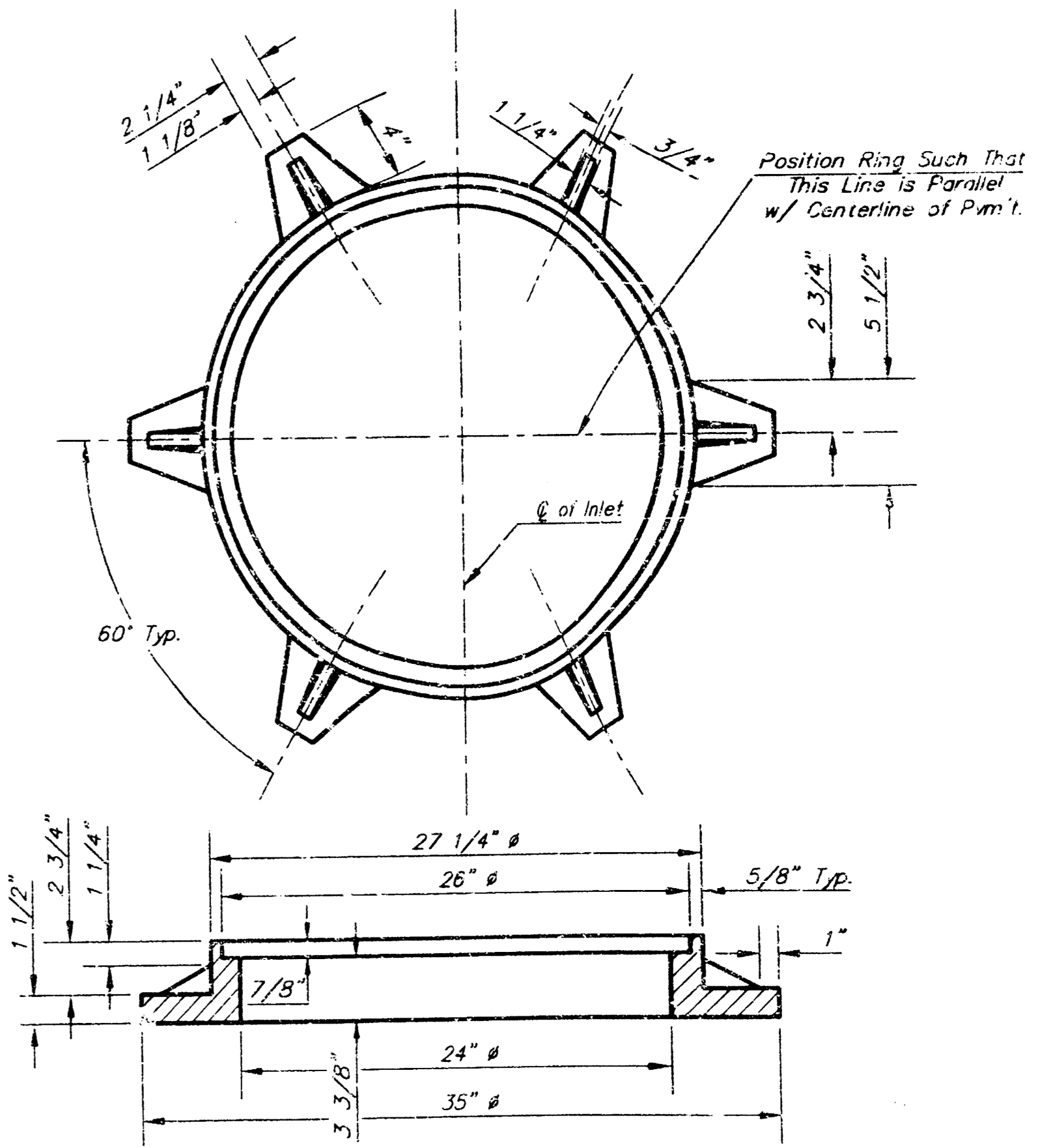
GENERAL NOTES:

- The contractor shall be required to construct 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" or less and H=7'-0" or less. When W is greater than 6'-4" and H is less than 7'-0" the outside inlet walls below the brick stack shall be reinforced concrete construction and the center wall shall be of masonry construction as shown for the masonry wall option.
- 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.
- 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.
- Inlet top reinforcing shall be spaced on 6" max. centers. Inlet ribs shall be notched out as indicated to facilitate construction of curb. Bars in inlet top to be field bent or cut to clear manhole ring.
- The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS				
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.	CU. YD. CURB
4'-4"	3'-8" 11'-4" 7 1/2"	21" & SMALLER	0.82±	
5'-4"	4'-8" 11'-4" 7 1/2"	24" & 30"	1.09±	
6'-4"	5'-8" 11'-4" 7 1/2"	36" & 42"	1.35±	
7'-4"	6'-8" 11'-4" 7 1/2"	48" & 54"	1.61±	
8'-4"	7'-8" 11'-4" 7 1/2"	60" & 66"	1.87±	



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.

TYPE 1A INLET (LENGTH = 10.0')		5
CITY OF WICHITA, KANSAS		5

Revised - Feb. 16, 1989