

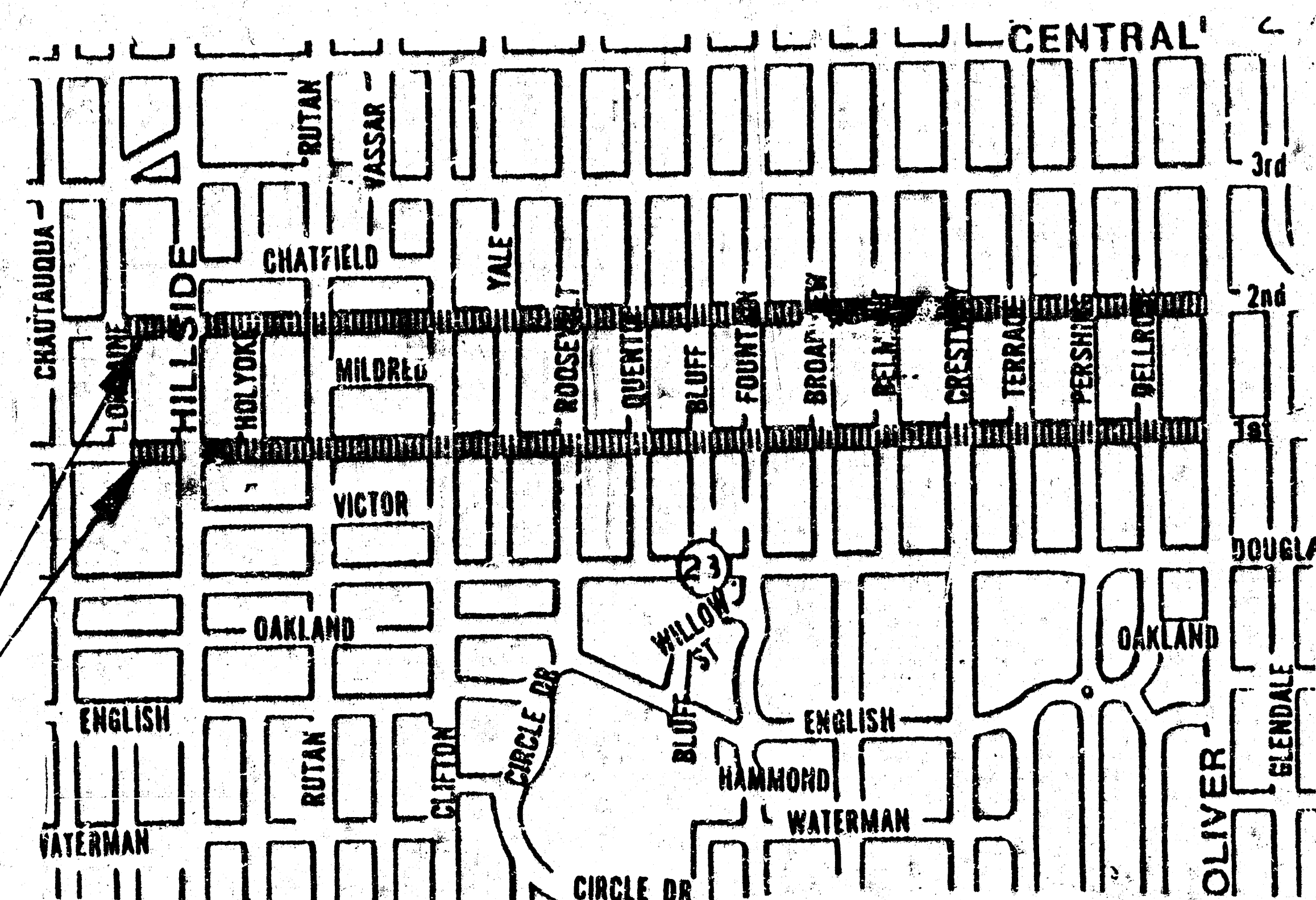
ENHANCED MAINTENANCE PROJECT - PHASE I **FIRST STREET - W. L. OF LORRAINE TO THE W. L. OF OLIVER** **SECOND STREET - W. L. OF LORRAINE TO W. L. OF OLIVER** **INDEX NO. 705764**

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

GENERAL NOTES:

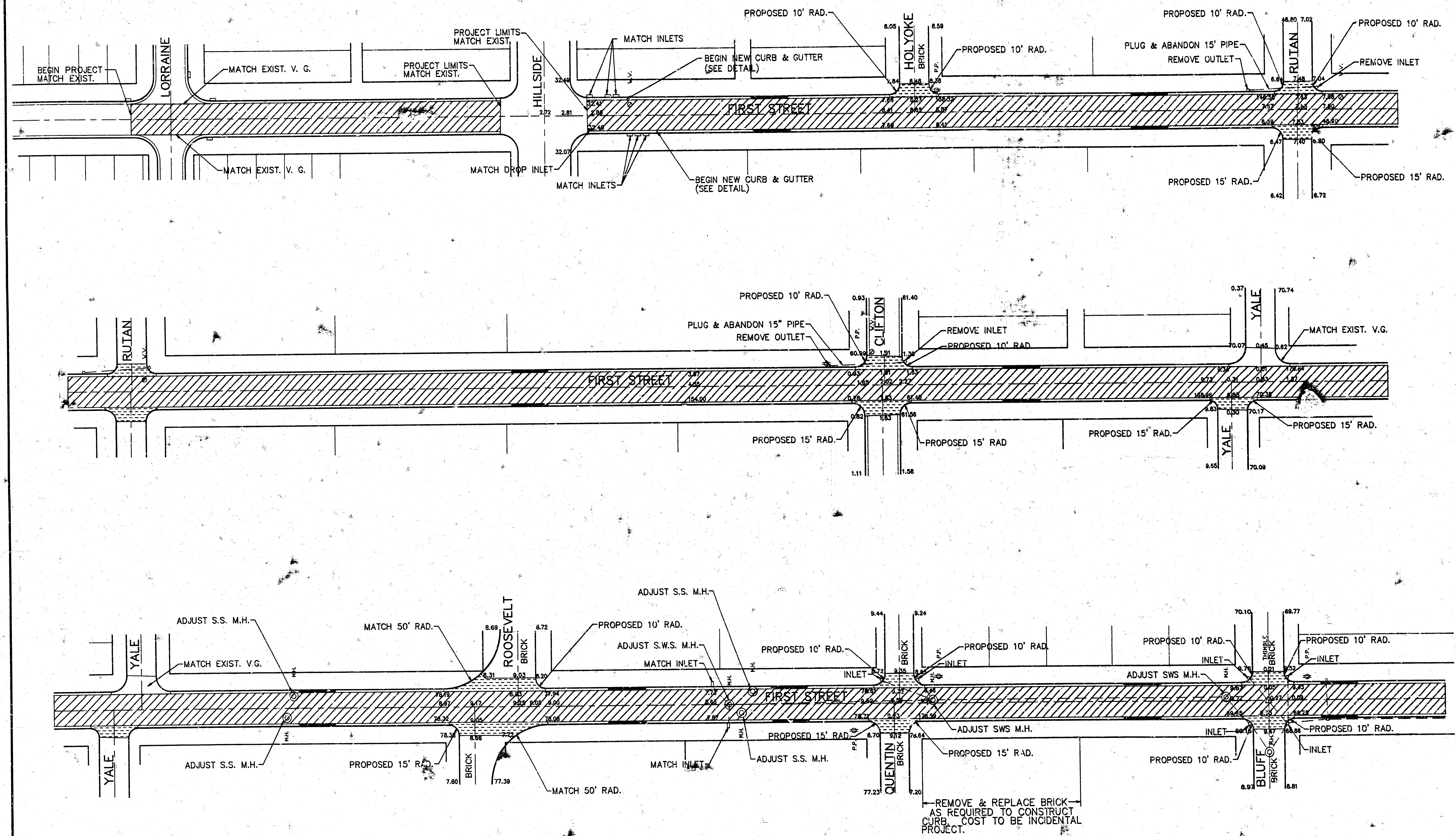
1. FIRST STREET FROM LORRAINE TO HILLSIDE AND FROM CRESTWAY TO OLIVER IS 2" ASPHALTIC CONCRETE ON 5" CONCRETE BASE. FIRST STREET FROM HILLSIDE TO YALE AND FROM ROOSEVELT TO CRESTWAY IS 4" +/- ASPHALTIC CONCRETE ON 5" CONCRETE BASE. FIRST STREET FROM YALE TO ROOSEVELT IS 2" +/- ASPHALTIC CONCRETE ON BRICK BASE. CONCRETE BASE IS IN POOR CONDITION OVER MUCH OF THE PROJECT.
2. SECOND STREET FROM LORRAINE TO HILLSIDE AND FROM CRESTWAY TO OLIVER IS 2" ASPHALTIC CONCRETE ON 5" CONCRETE BASE. SECOND STREET FROM HILLSIDE TO CRESTWAY IS 3" +/- ASPHALTIC CONCRETE ON 5" CONCRETE BASE. CONCRETE BASE IS IN POOR CONDITION OVER MUCH OF THE PROJECT.
3. THIMBLES ARE TO BE PROTECTED AND SAVED WHEREVER POSSIBLE. ENGINEER SHALL TAKE TIES TO ANY THIMBLES THAT MAY BE DESTROYED AND REPLACE AS REQUIRED.
4. EXACT INTERSECTION RADI AND CURB ELEVATIONS ARE TO BE DETERMINED ON SITE.
5. ALL WATER VALVE BOXES TO BE ADJUSTED AS REQUIRED. COST TO BE INCIDENTAL TO PROJECT.
6. THE CONCRETE BASE UNDER THE ASPHALT SURFACE IN SECOND STREET FROM HILLSIDE TO CRESTWAY IS CONTINUOUS FROM FACE OF CURB. FULL DEPTH SAW CUT WILL BE REQUIRED AT THE HIGH EDGE LINE IN THIS AREA TO FACILITATE REMOVAL AND CONSTRUCTION OF NEW CURB AND GUTTER.
7. SOUTHWESTERN BELL AND OTHER PRIVATE UTILITY MANHOLES ARE TO BE ADJUSTED BY OTHERS PRIOR TO OVERLAY.
8. ALL DRIVEWAYS ARE TO BE BUILT TO CITY OF WICHITA STANDARD SPECIFICATIONS FOR DRIVEWAYS.

PROJECT LOCATION



INDEX OF SHEETS

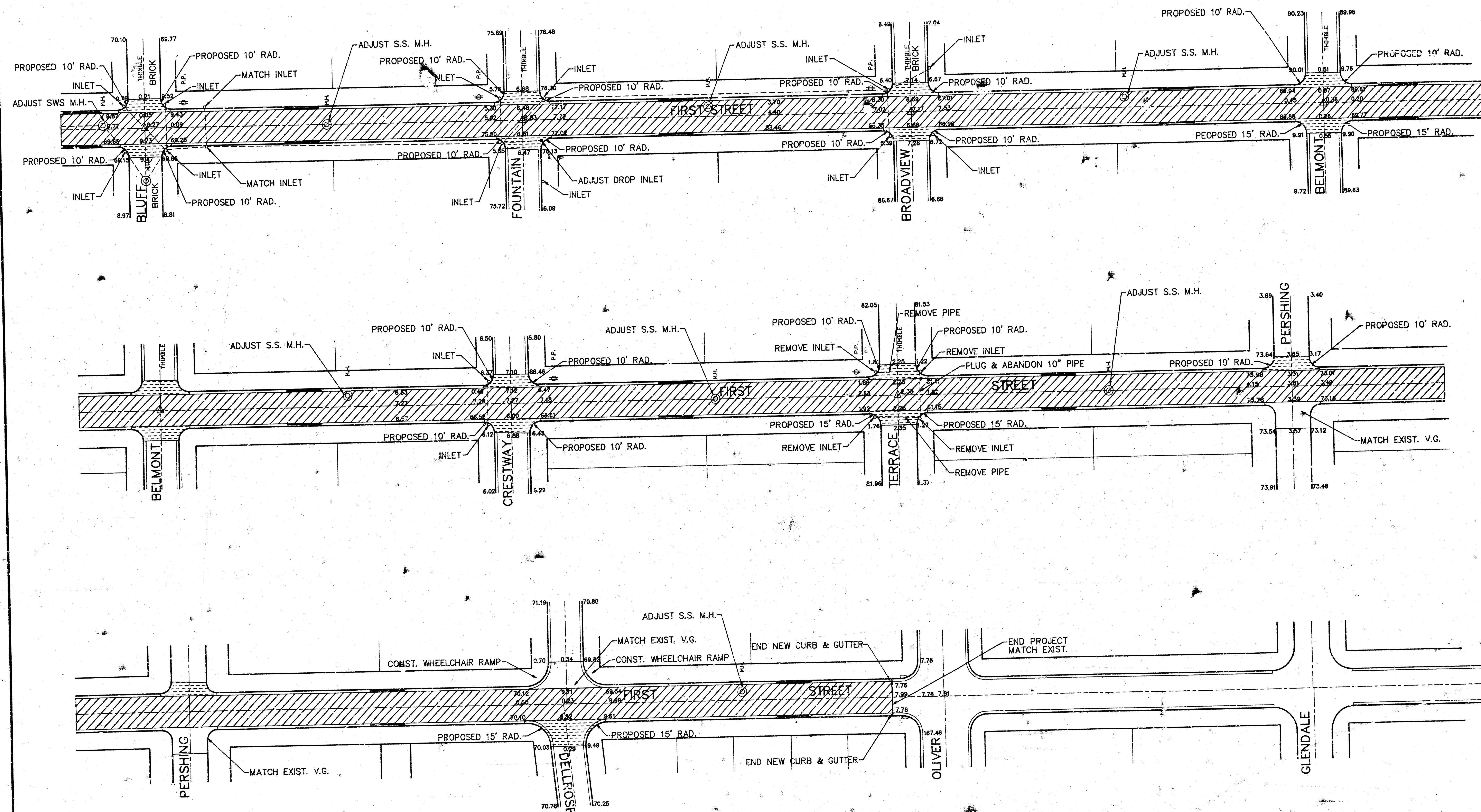
SHEET	1	-	TITLE SHEET
SHEET	2-3	-	PLAN FIRST STREET
SHEET	4-5	-	PLAN SECOND STREET
SHEET	6-8	-	PAVEMENT DETAILS



RECONSTRUCT INTERSECTION AS PER DETAIL

 - INDICATES MILL & OVERLAY ASPHALT SURFACE

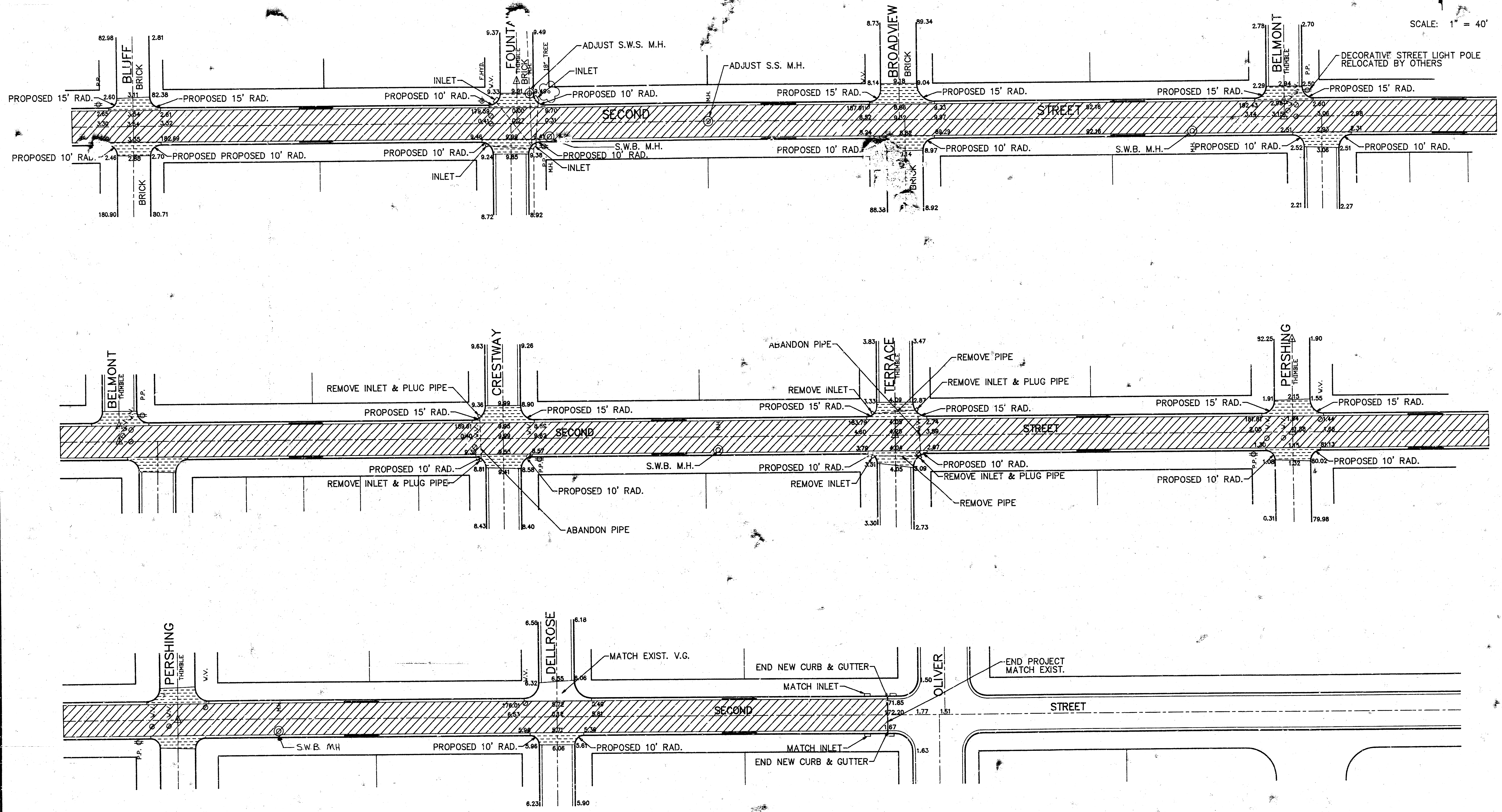
SCALE: 1" = 40'



RECONSTRUCT INTERSECTION AS PER DETAIL

INDICATES MILL & OVERLAY ASPHALT SURFACE

SCALE: 1" = 40'



— RECONSTRUCT INTERSECTION AS PER DETAIL

— INDICATES MILL & OVERLAY ASPHALT SURFACE

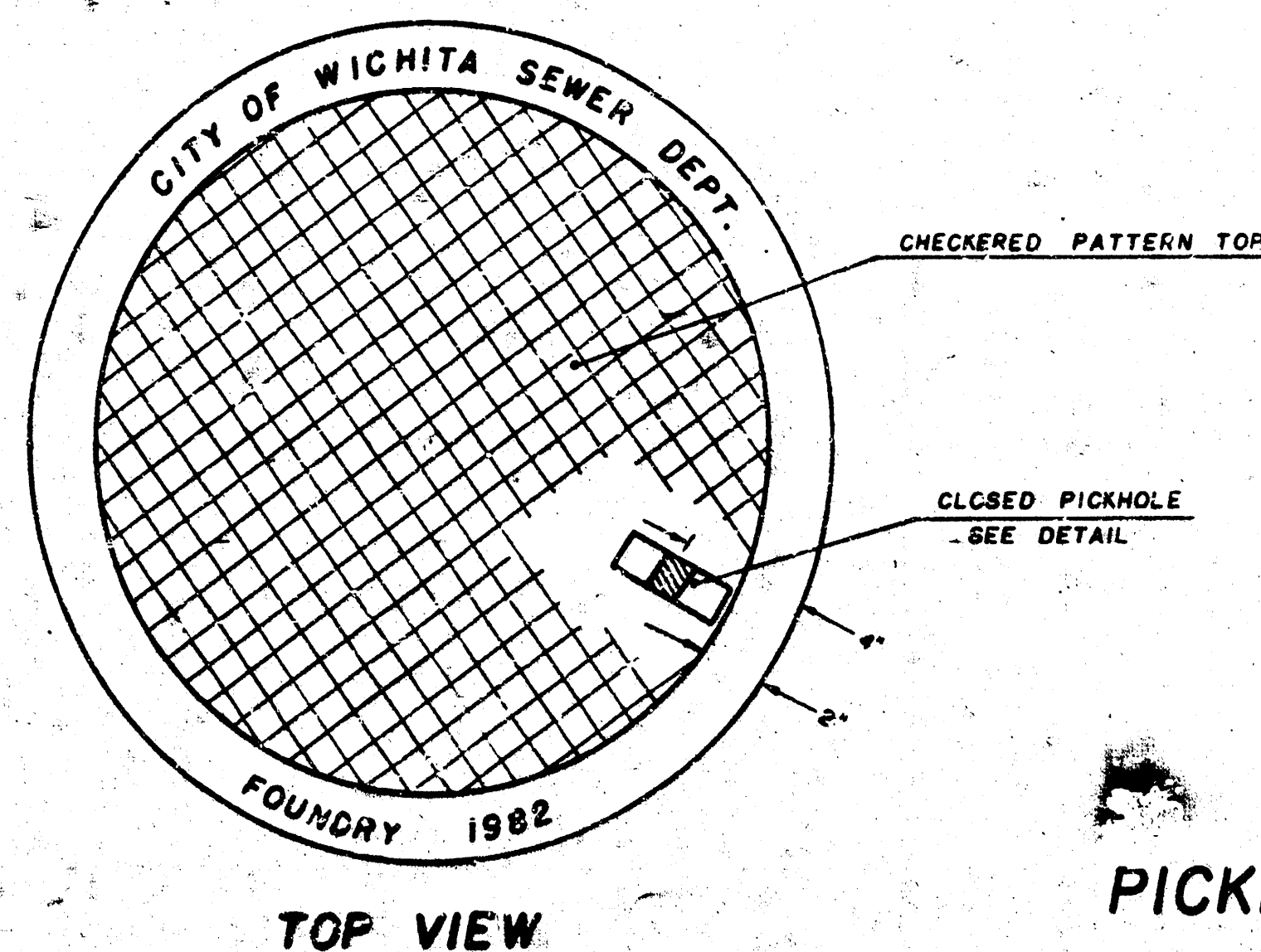
MANHOLE FRAME AND COVER DETAIL (WIDE FLANGED FRAME) ADOPTED AS STANDARD DESIGN

BY

City of Wichita, Kansas

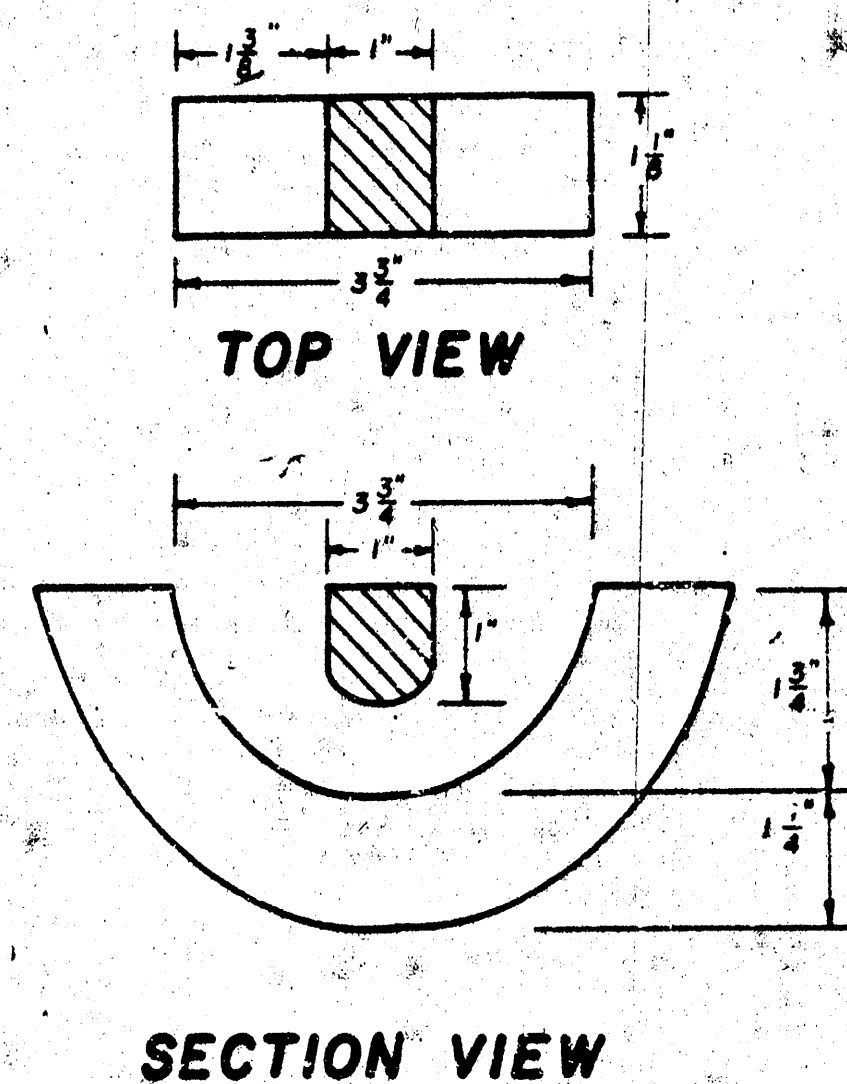
MANHOLE COVER

Weight: 180 Lbs.

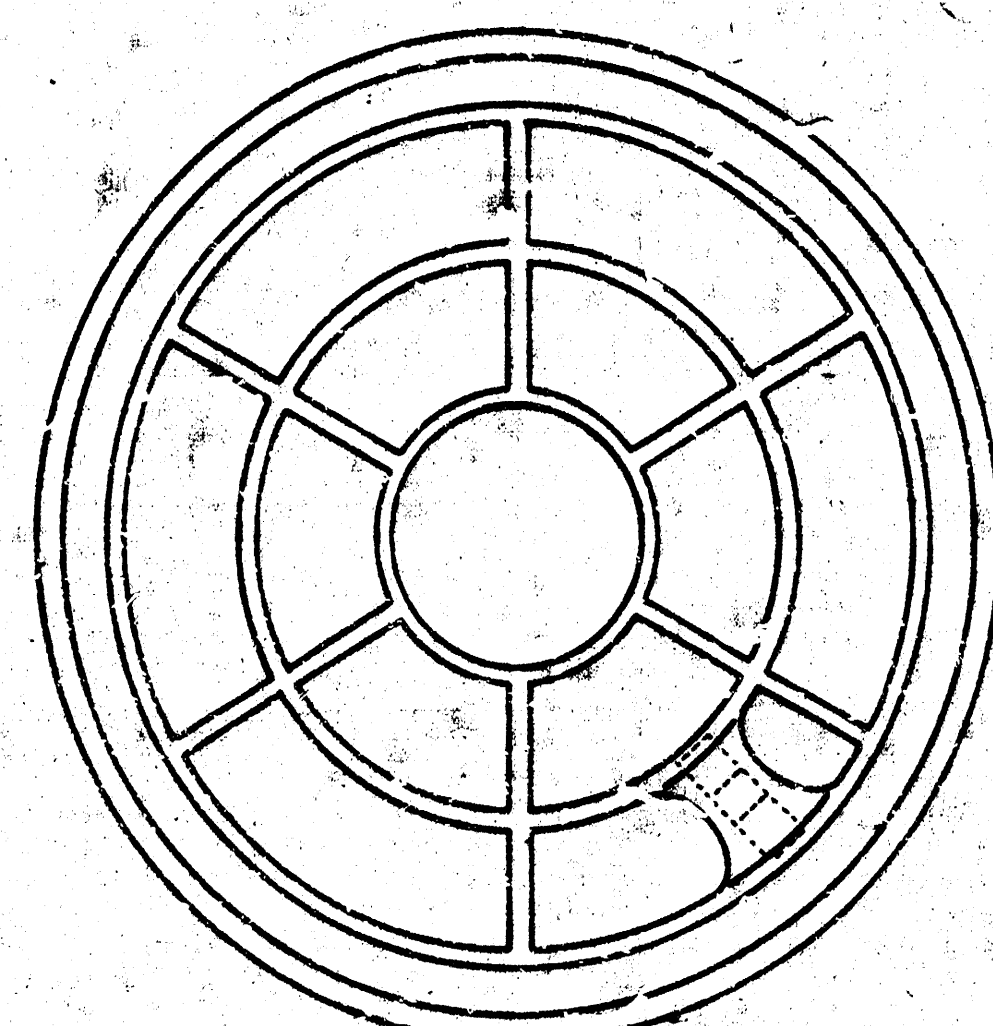


TOP VIEW

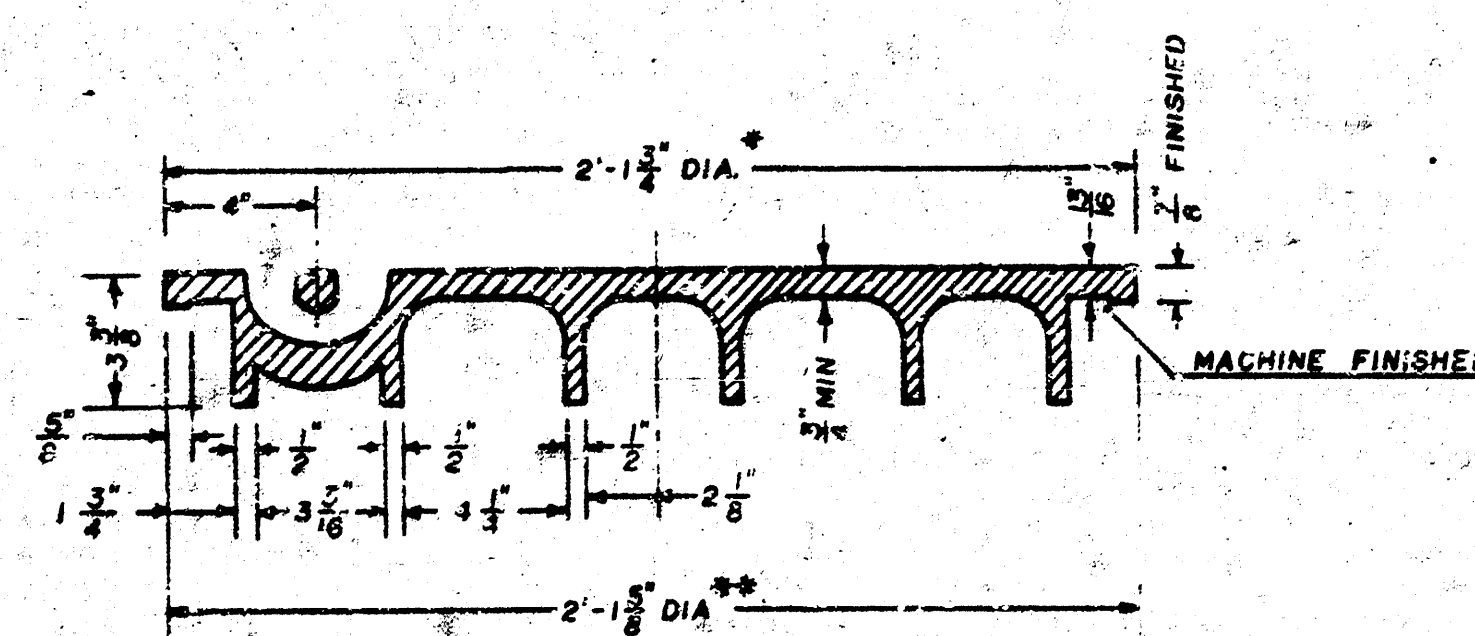
PICKHOLE DETAIL



SECTION VIEW



BOTTOM VIEW

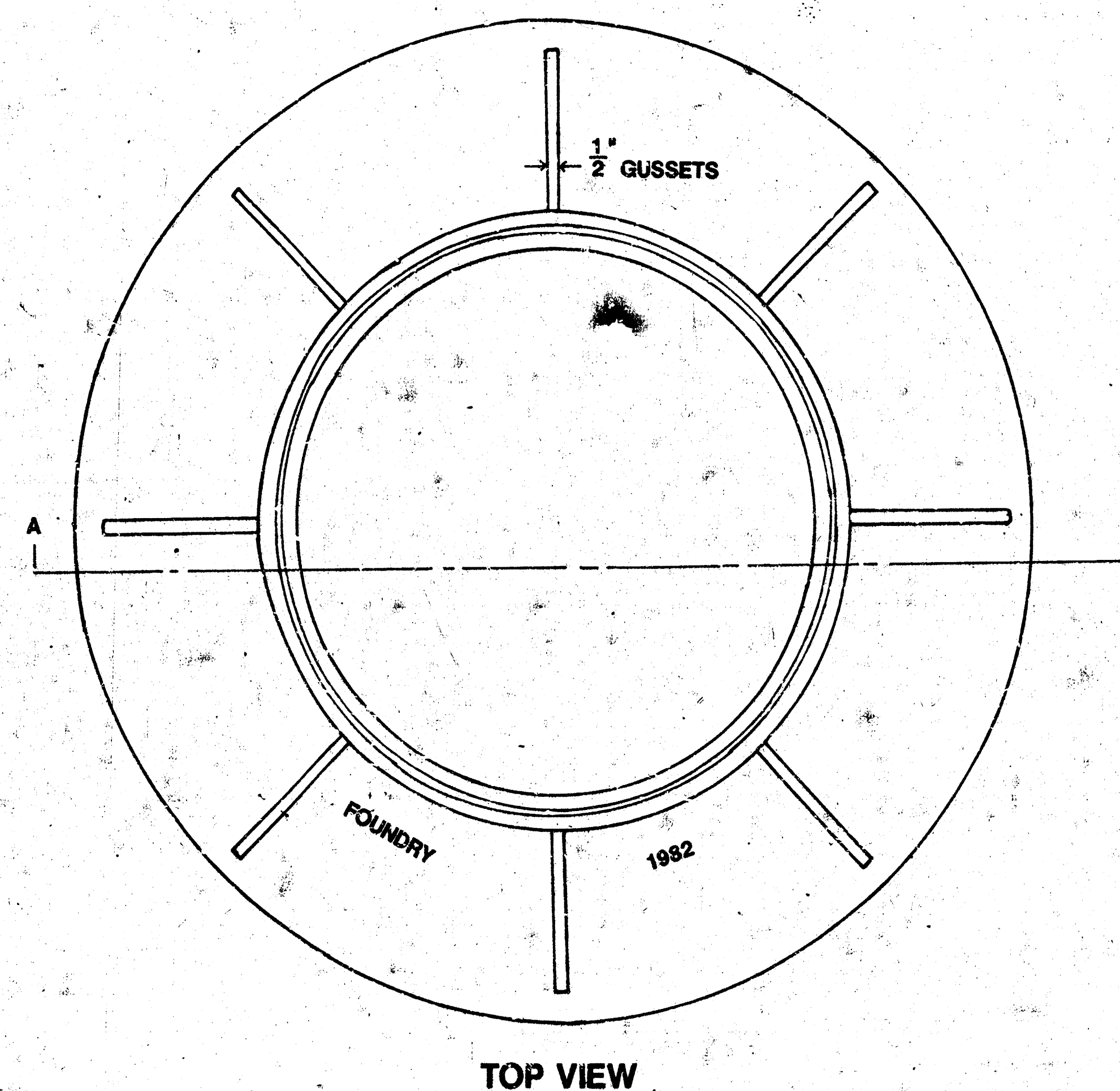


SECTION VIEW

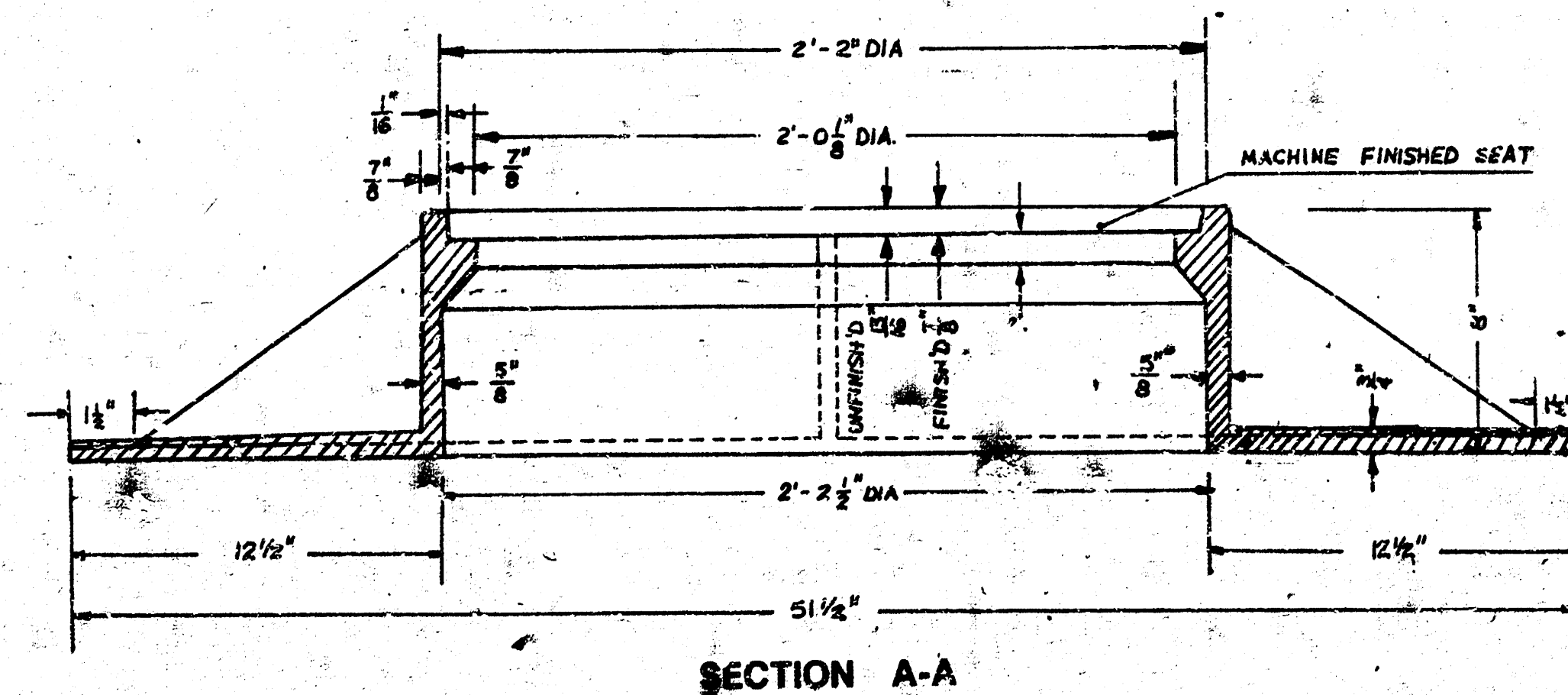
* OUTSIDE DIA TOP OF COVER
** OUTSIDE DIA. BOTTOM OF COVER

MANHOLE FRAME

Weight: 525 Lbs.



TOP VIEW

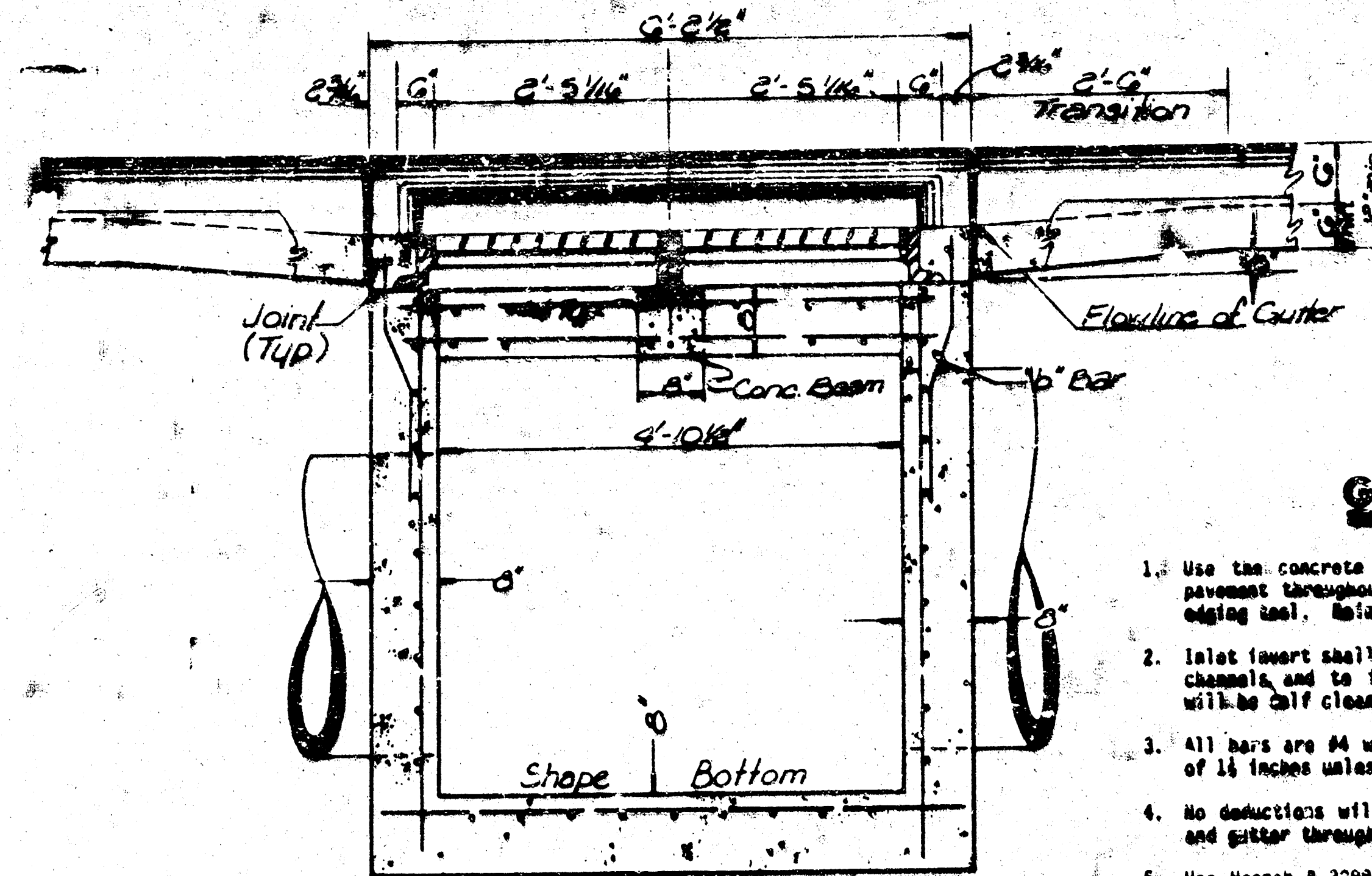


SECTION A-A

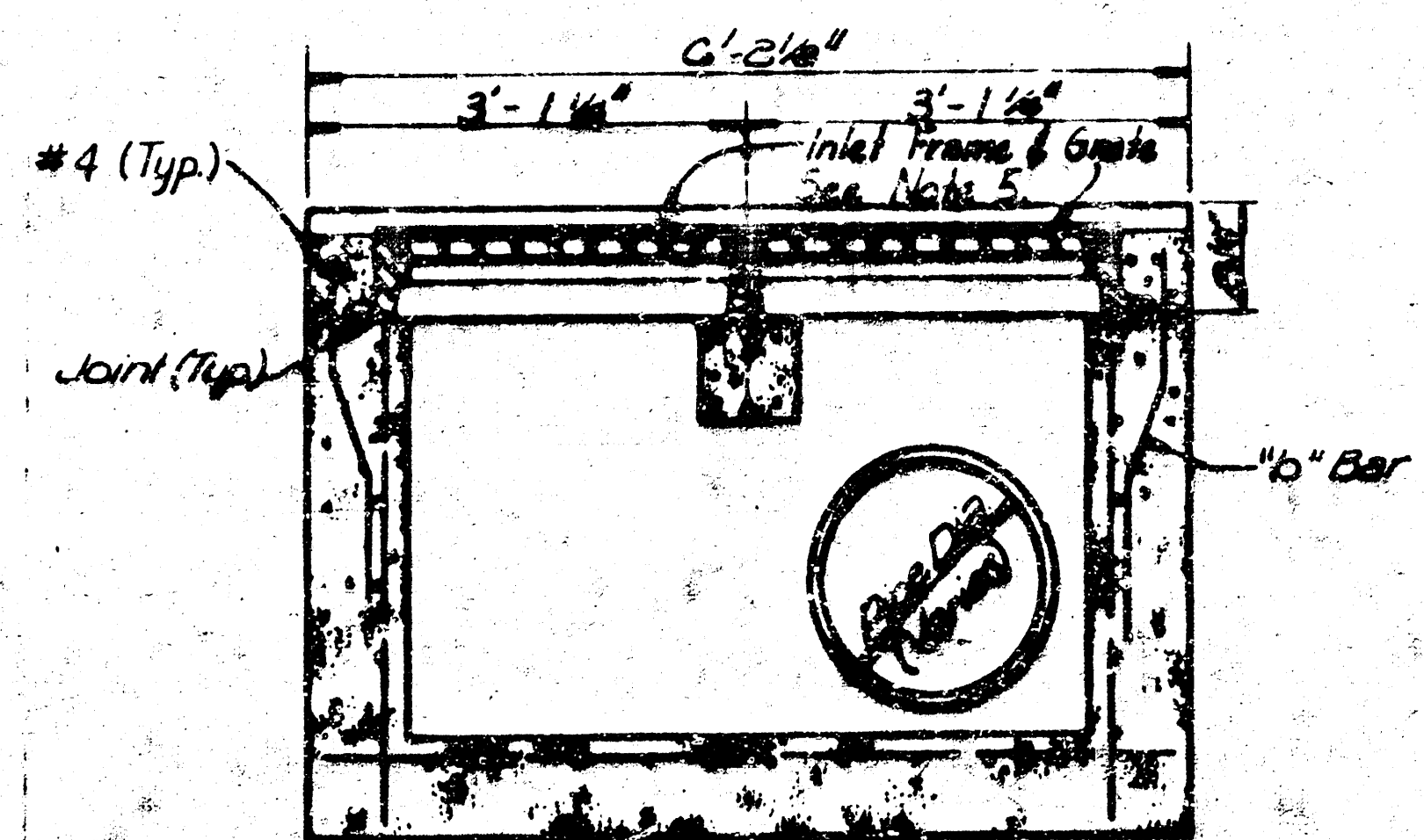
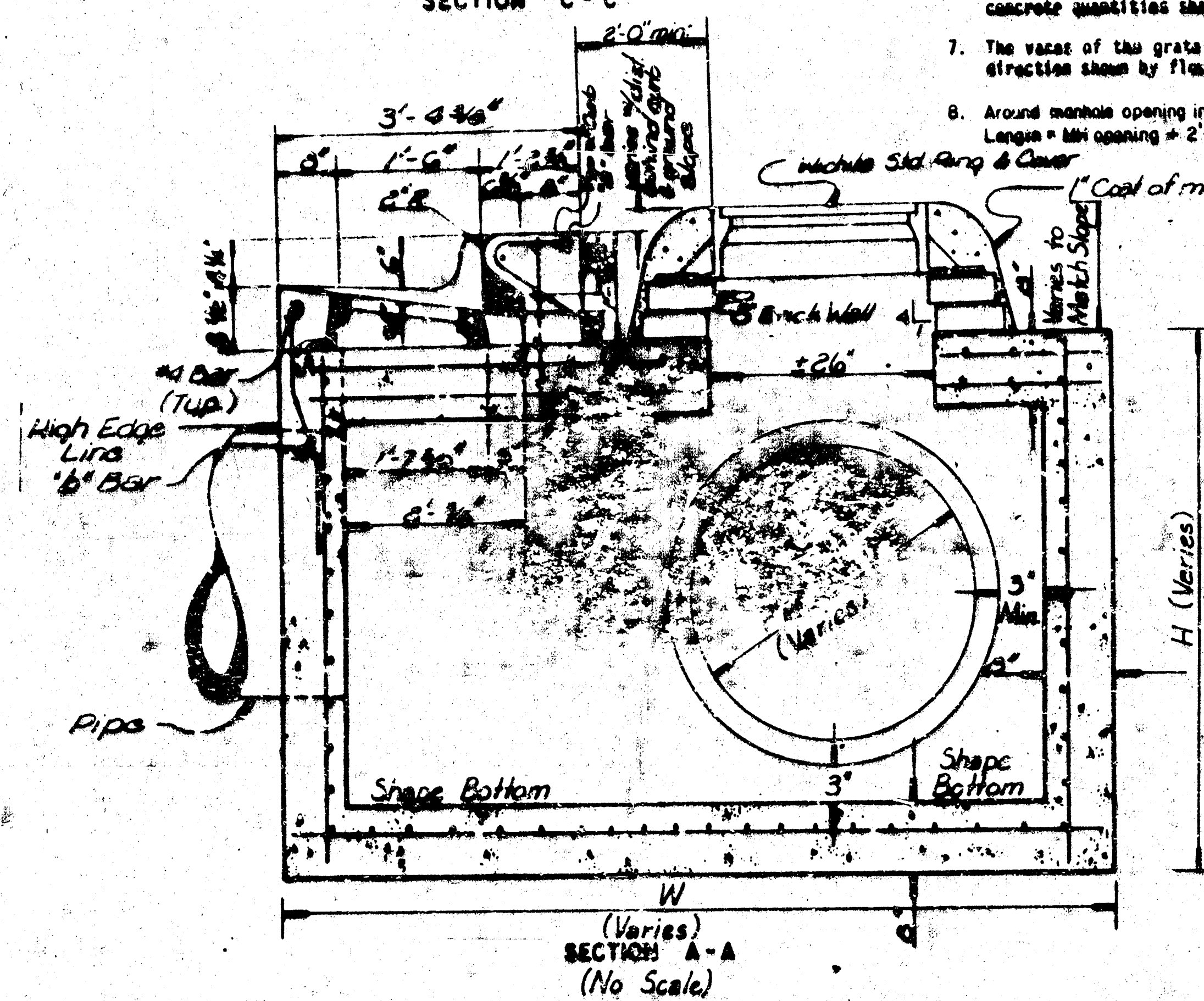
GENERAL NOTES

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION A-48. DIMENSIONS AND WEIGHTS 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 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 SEWER DEPT. ENT". THE WORD DEPARTMENT MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN 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.

SHEET 6 OF 8
INDEX #705764



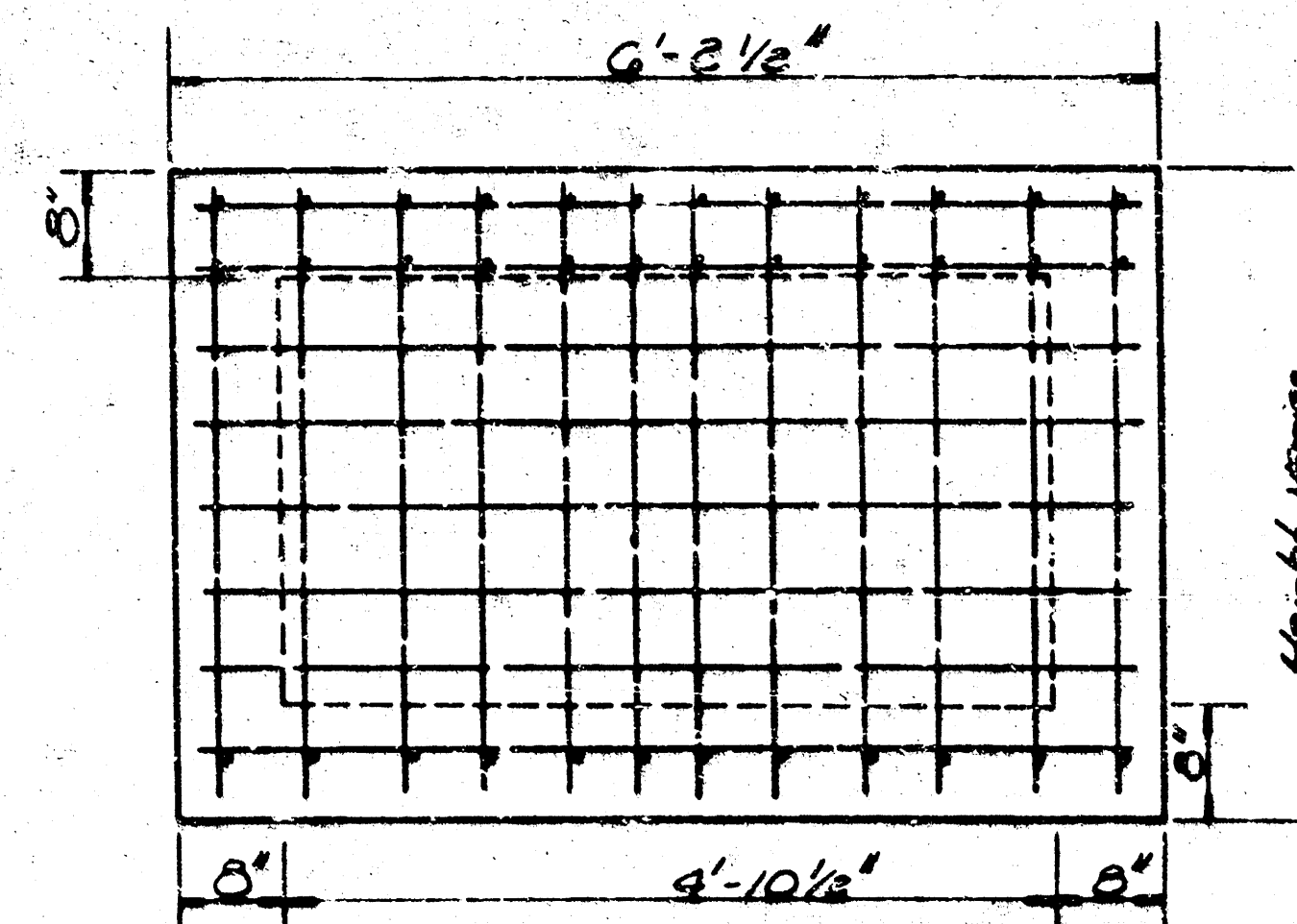
SECTION C-C



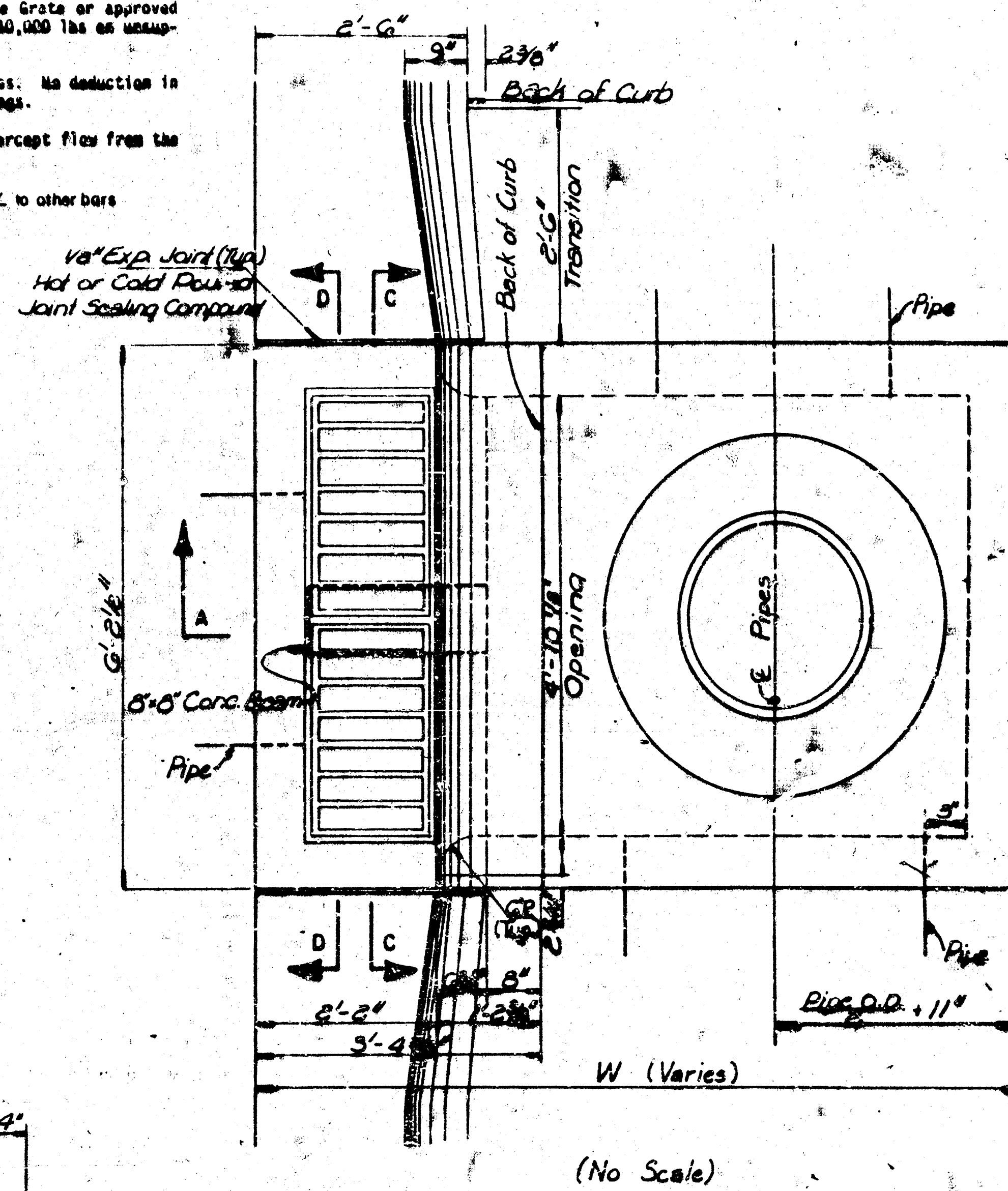
SECTION D-D
(No Scale)

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. No deductions will be made in pay length of curb, gutter, or curb and gutter through the inlet area.
5. Use Monah A-3288 M Inlet Frame with two piece Grate or approved equal. Inlet Frame to be proof load tested to 40,000 lbs on unseparated side.
6. Reinforcing bars shall be cut or bent around pipes. No deduction in concrete quantities shall be made for pipe openings.
7. The faces of the grate shall be oriented to intercept flow from the direction shown by flow arrows in the plans.
8. Around manhole opening in top slab use #5 bar @ 45° L to other bars. Length = hole opening + 2'-0"

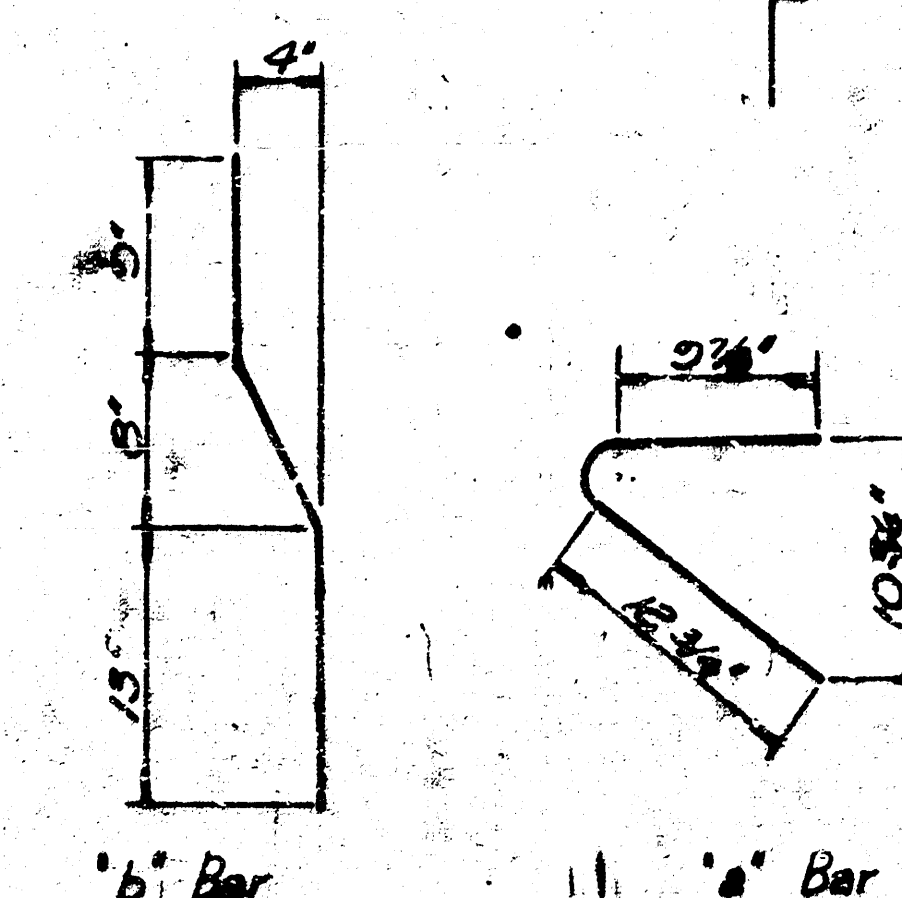


REAR WALL



NOTE: THIS INLET TO BE USED WHEN RECONSTRUCTING A 2' x 2' INLET.

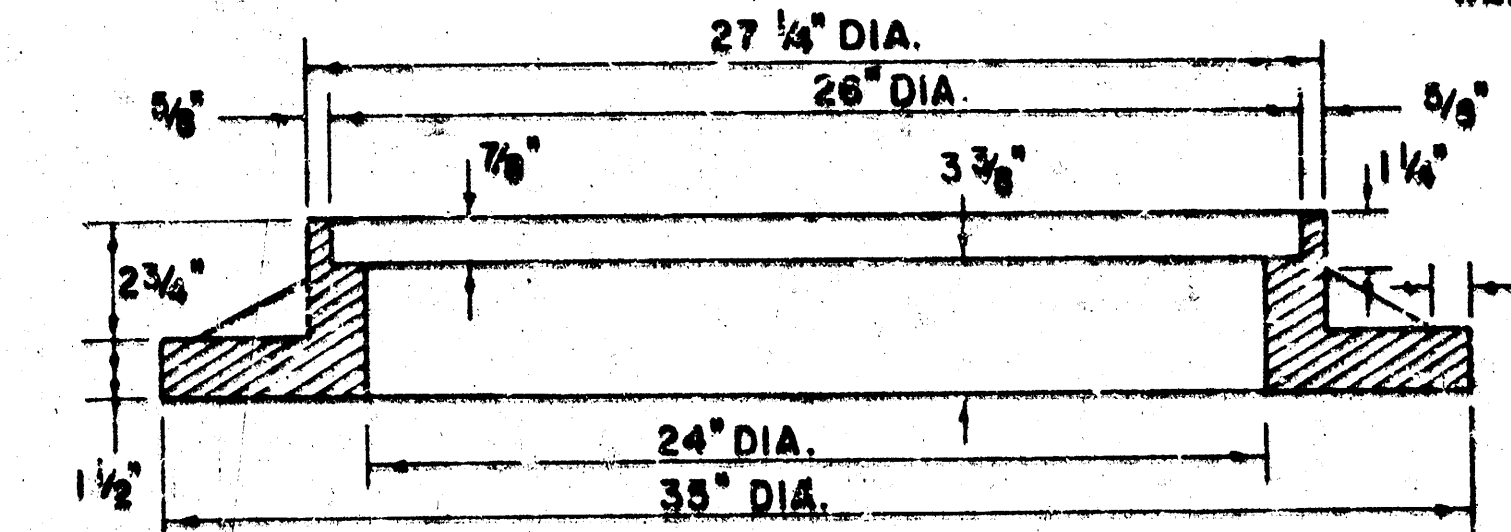
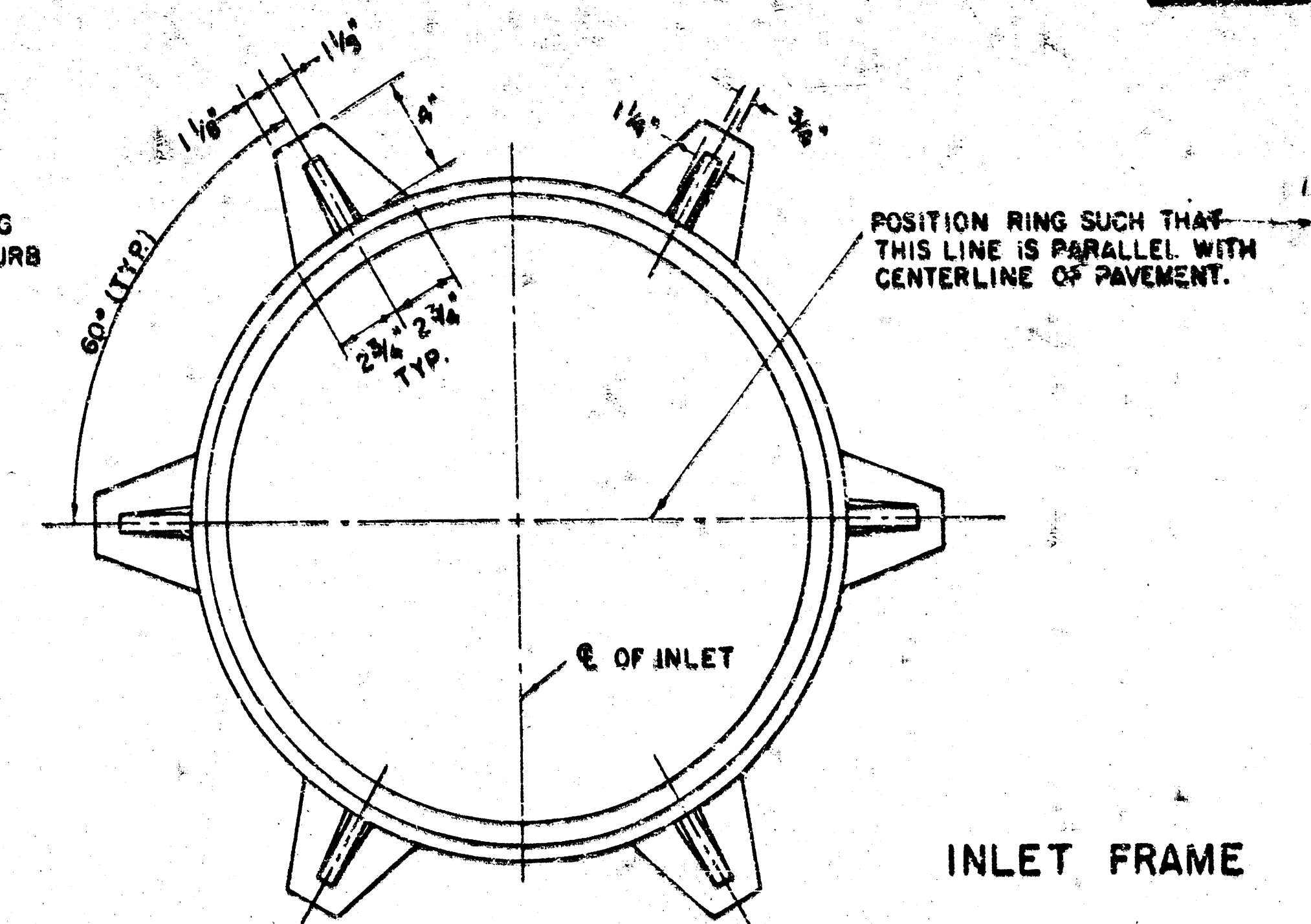
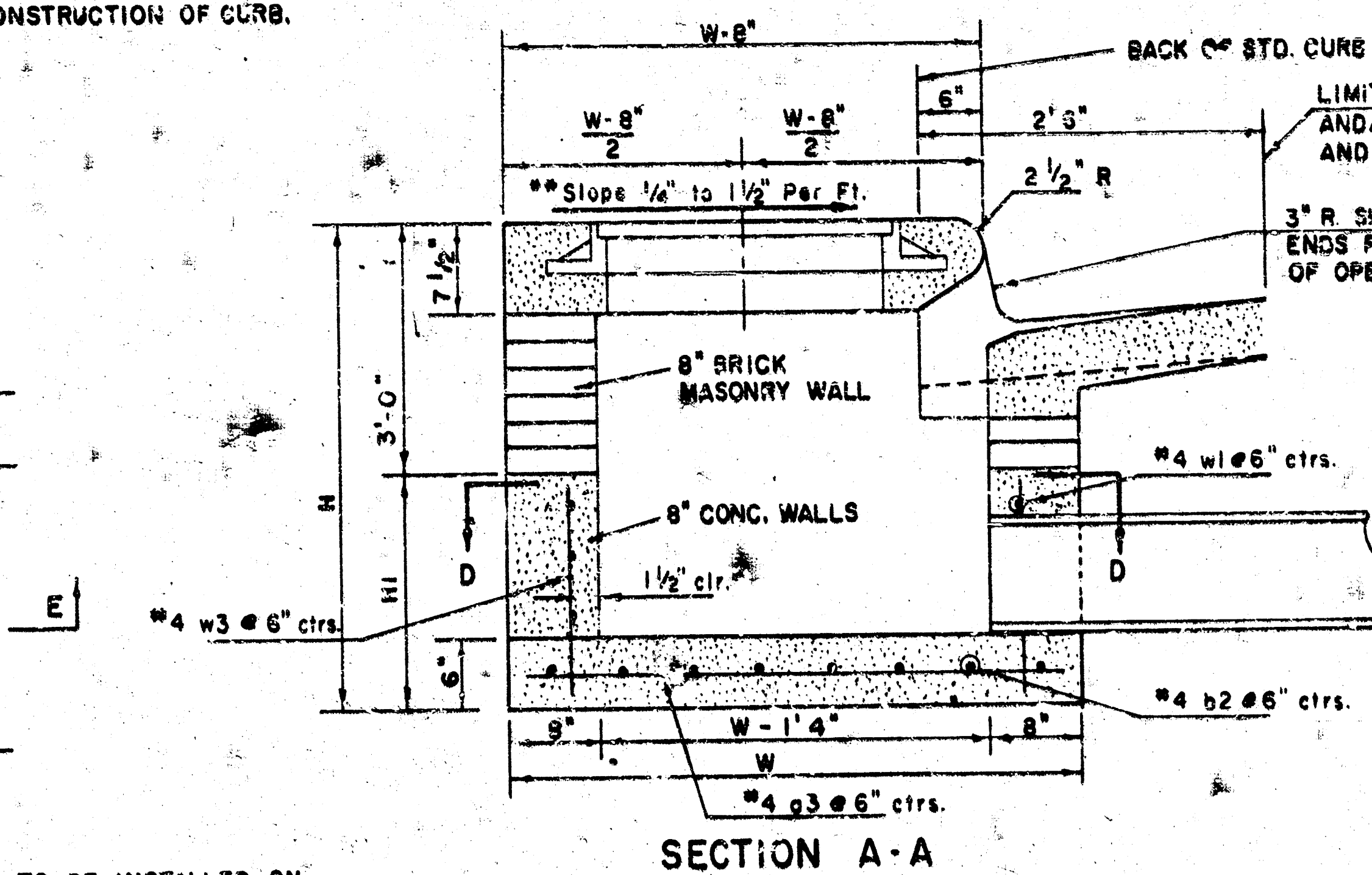
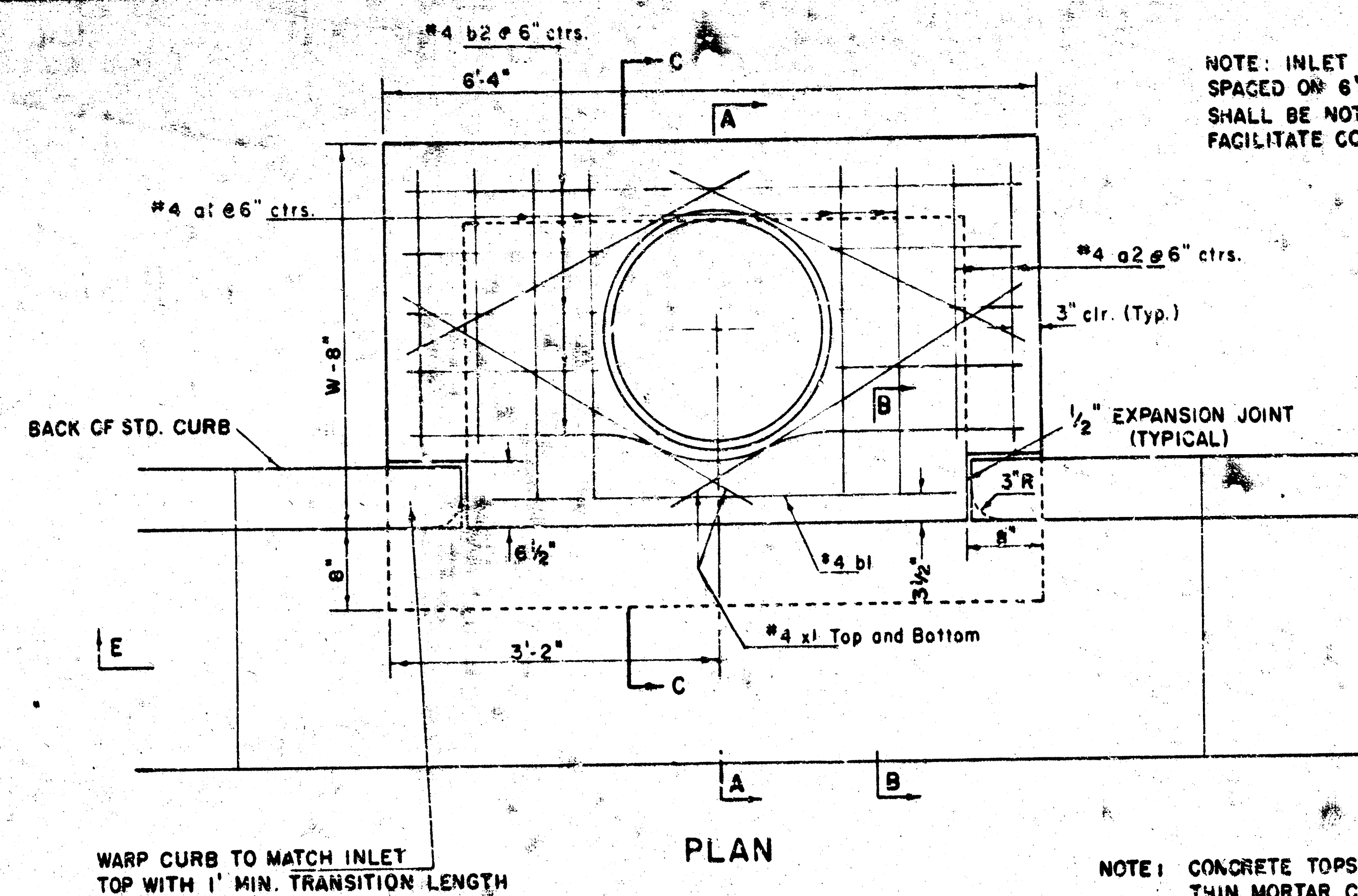
DEETER FOUNDRY, Inc., casting No. 2442/43 with style H grate is an approved equal to NEENAH castings specified. Inlet drawing is based on NEENAH castings and concrete walls and supports will require some field modification to accommodate DEETER castings.



BENDING DIAGRAM

**SPECIAL TYPE III
CURB INLET &
MANHOLE**

SHEET 7 OF 8
INDEX #705764



PRECAST SLAB AND FLOOR REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
Mark	Size	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"	23	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

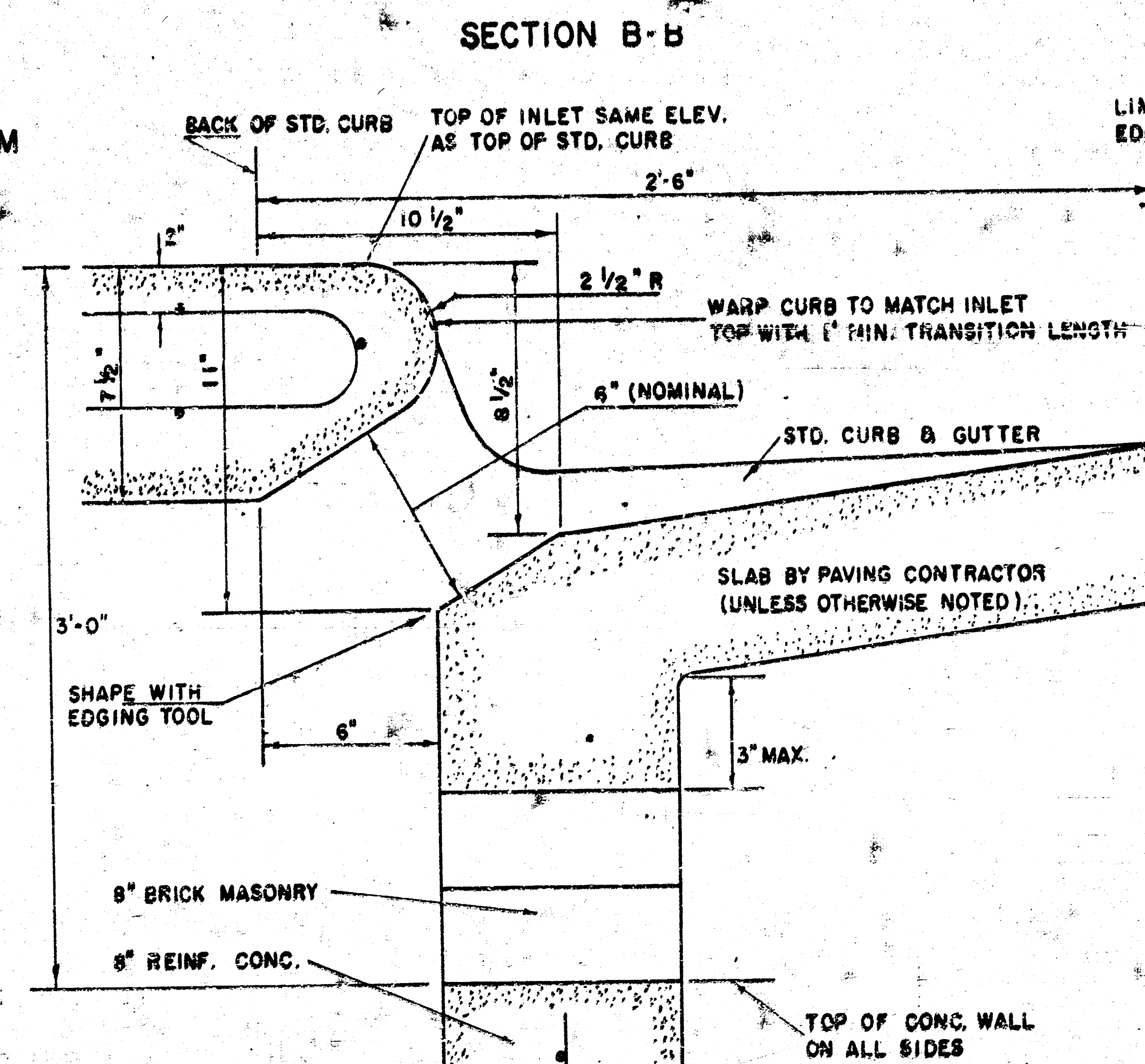
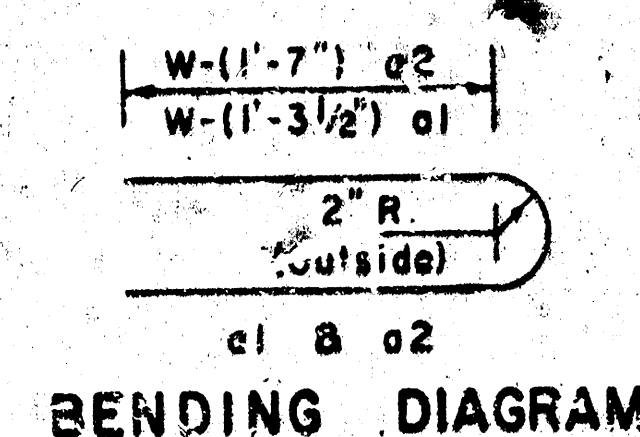
WALL REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	①	6'-1"	②	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	⑦	36	②	40	②	44	②	48	②

WALL REINFORCING

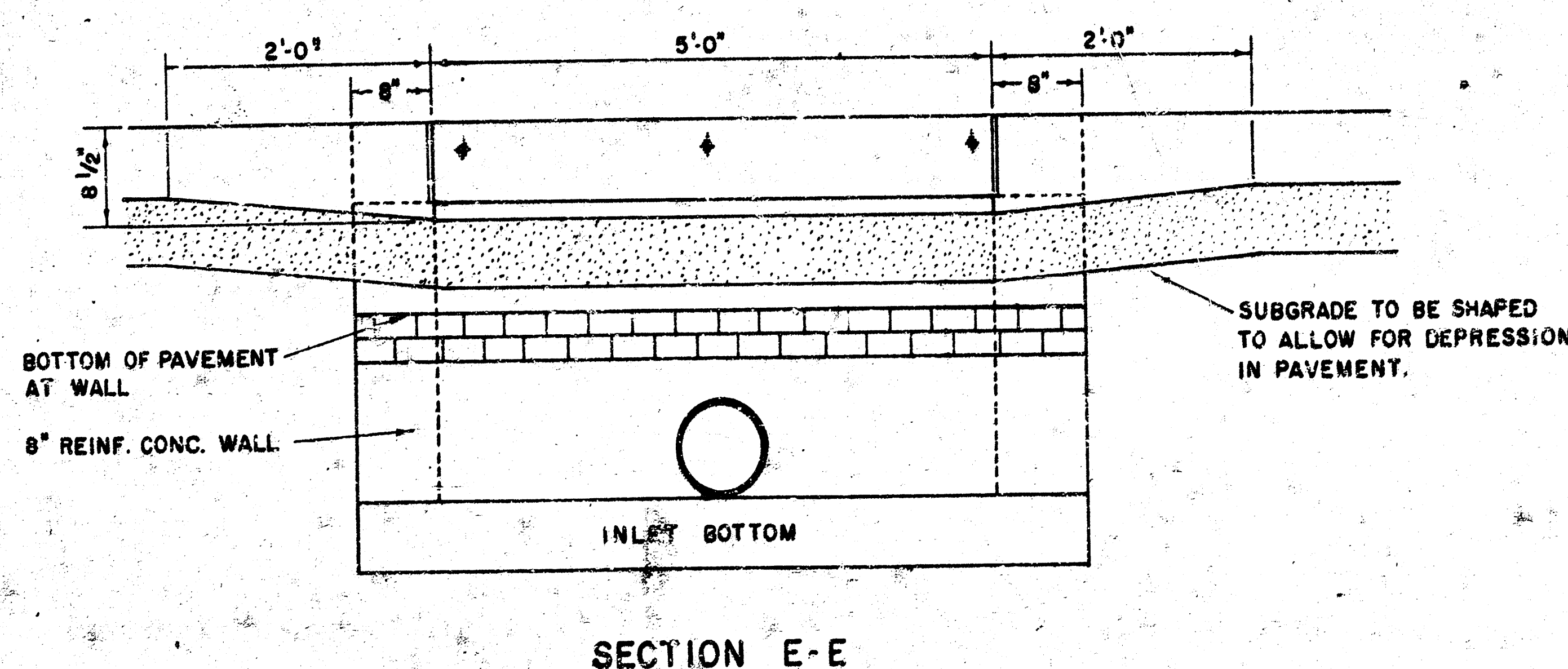
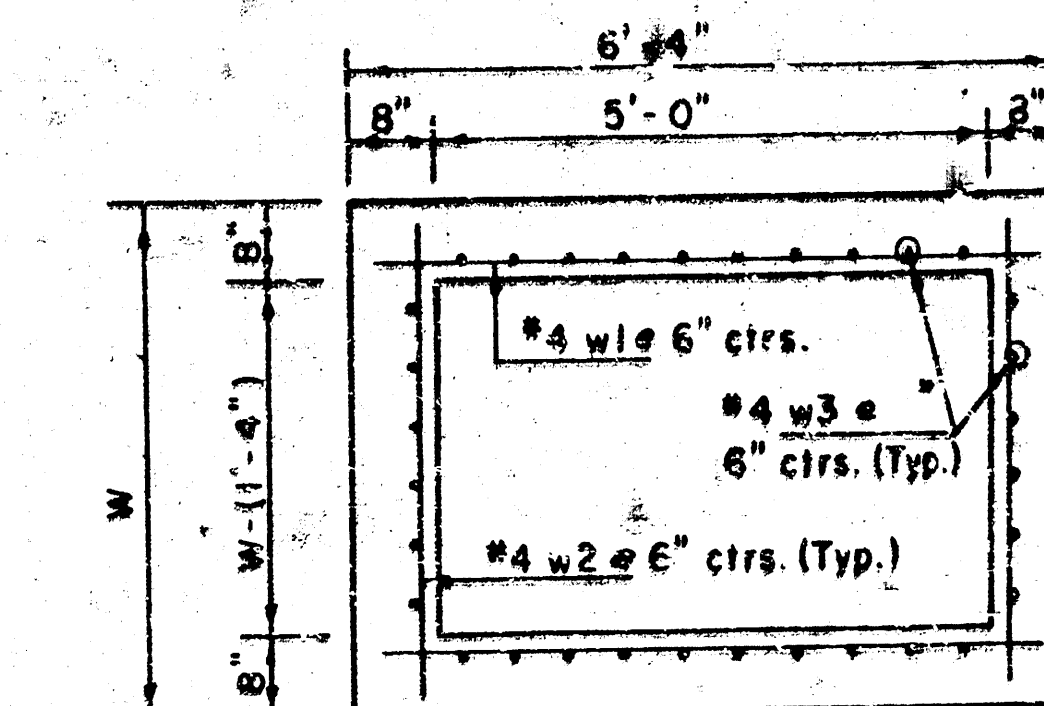
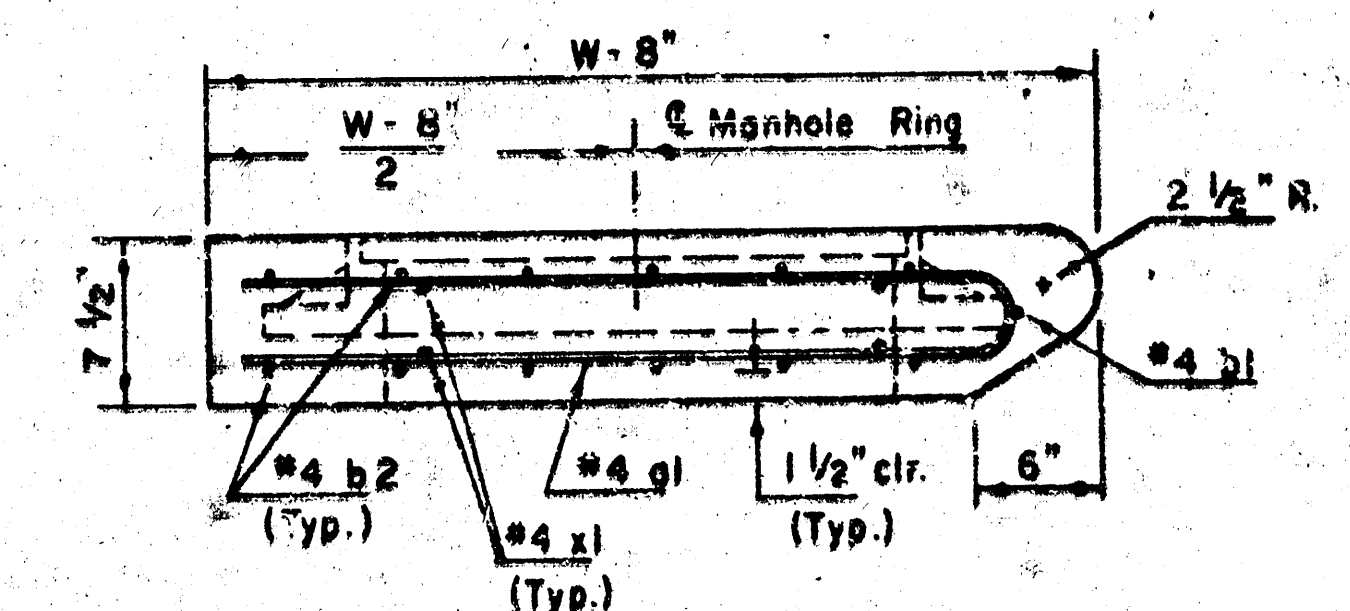
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"	1	6'-1"
w2	#4	32	4'-1"	32	4'-1"	40	6'-1"	44	7'-1"	48	8'-1"
w3	#4	32	4'-1"	36	5'-1"	40	6'-1"	44	7'-1"	48	8'-1"

Field bend or cut Reinforcing as required for clearance.
 ① 4(HI-12"); (HI-12") Round down to nearest 0.5'
 ② HI-3"

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



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



NOTE: THIS INLET TO BE USED WHEN RECONSTRUCTING A 2' x 5' INLET.

SHEET 8 OF 8
INDEX #705764

REVISID 12-21-1988
 REVISID 2-15-1989
DETAIL STANDARD TYPE I CURB INLET
 CITY OF WICHITA, KANSAS
 INLET OPENING = 6" x 5' 0"
 JUNE 1984