

STORM WATER SEWER NO. 231 WATERFORD NORTH

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

9TH

OCTOBER

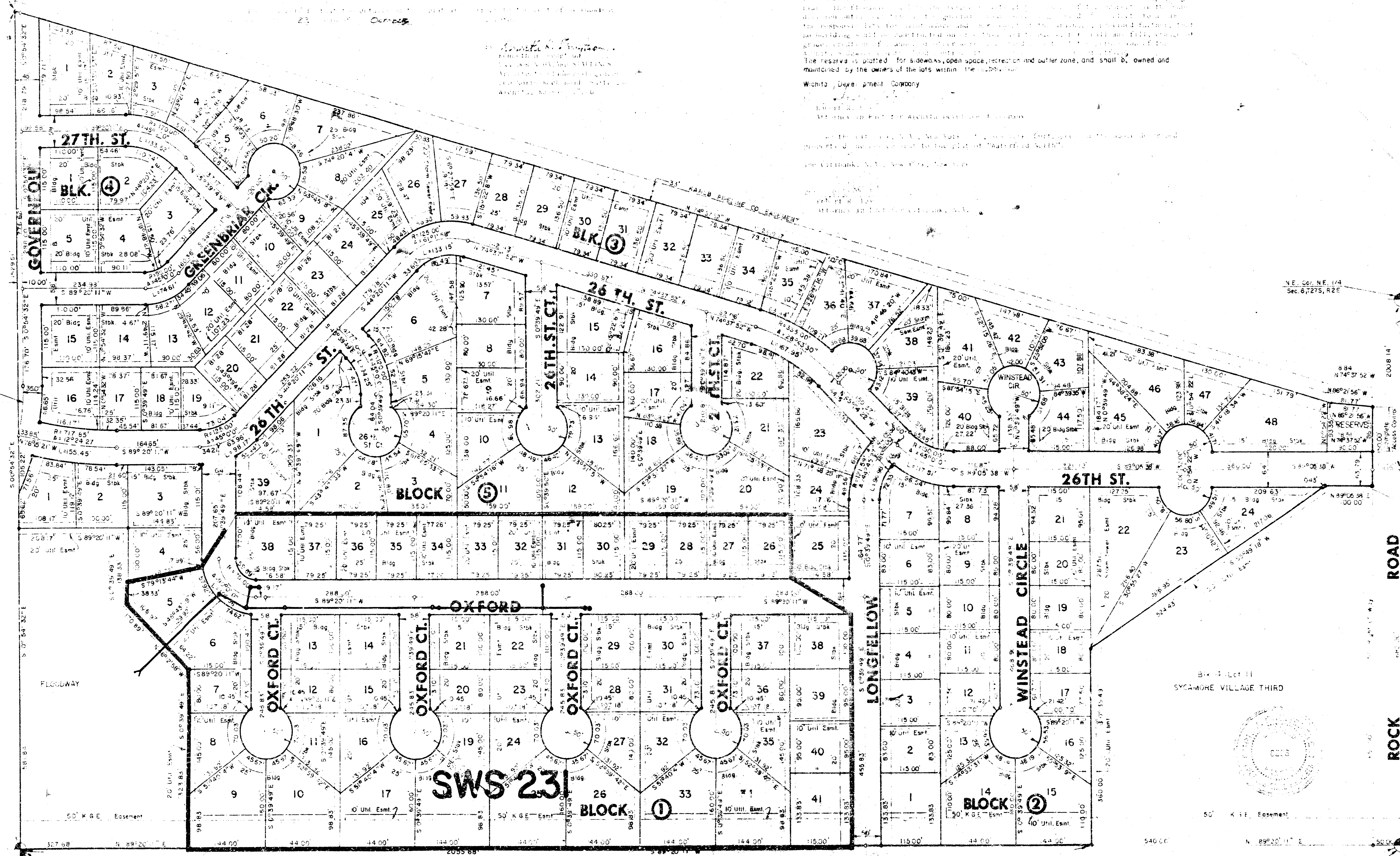
James L. Bruggeman

Robert J. Bruggeman

Wichita, Kansas

SCALE 1"=100'

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ROAD

ROAD

CITY OF WICHITA, KANSAS
DEPARTMENT OF ENGINEERING

DIRECTOR OF ENGR./CITY ENGR.
R.W. BRUGGEMAN

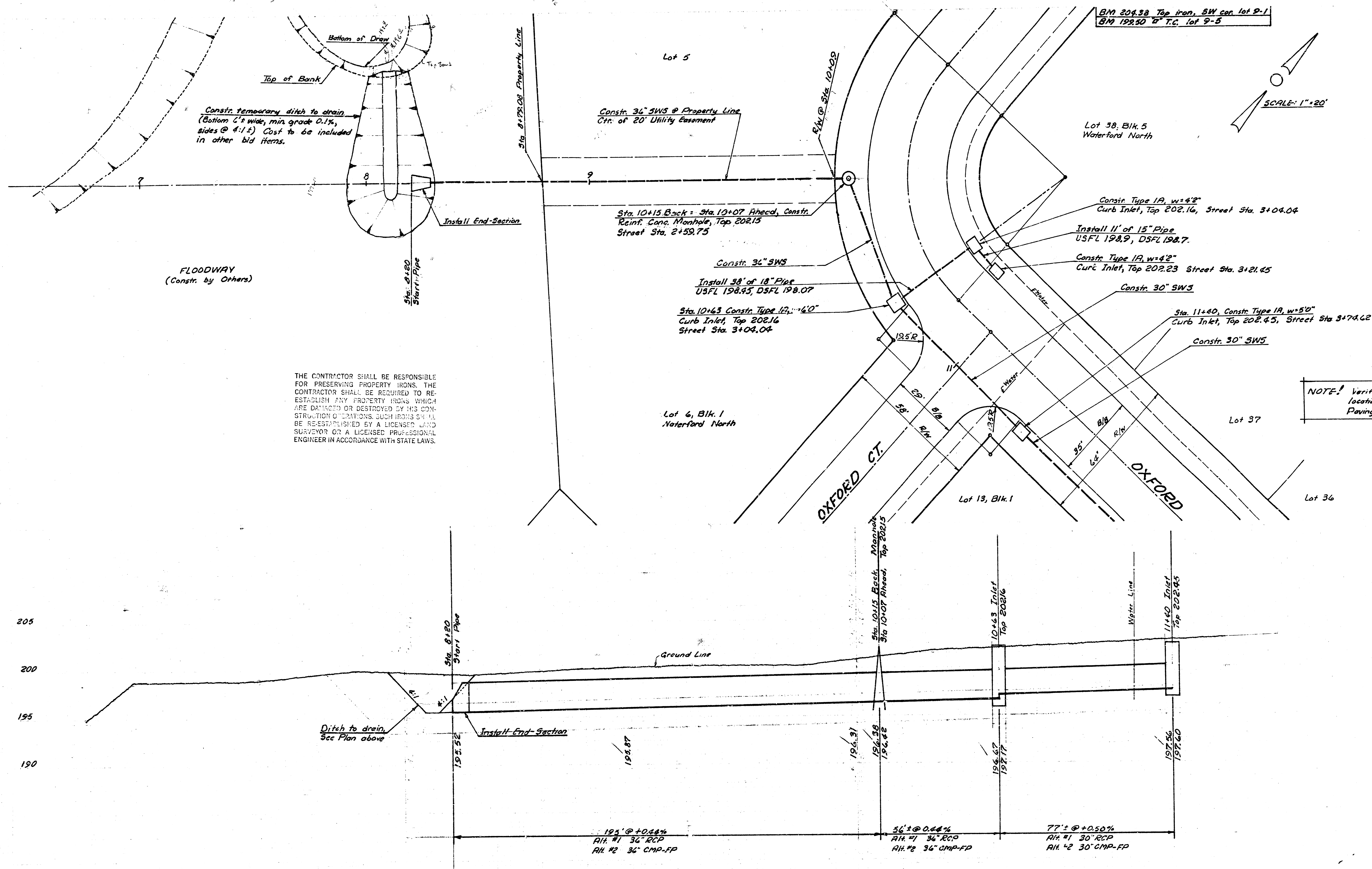
DATE

SWS 231

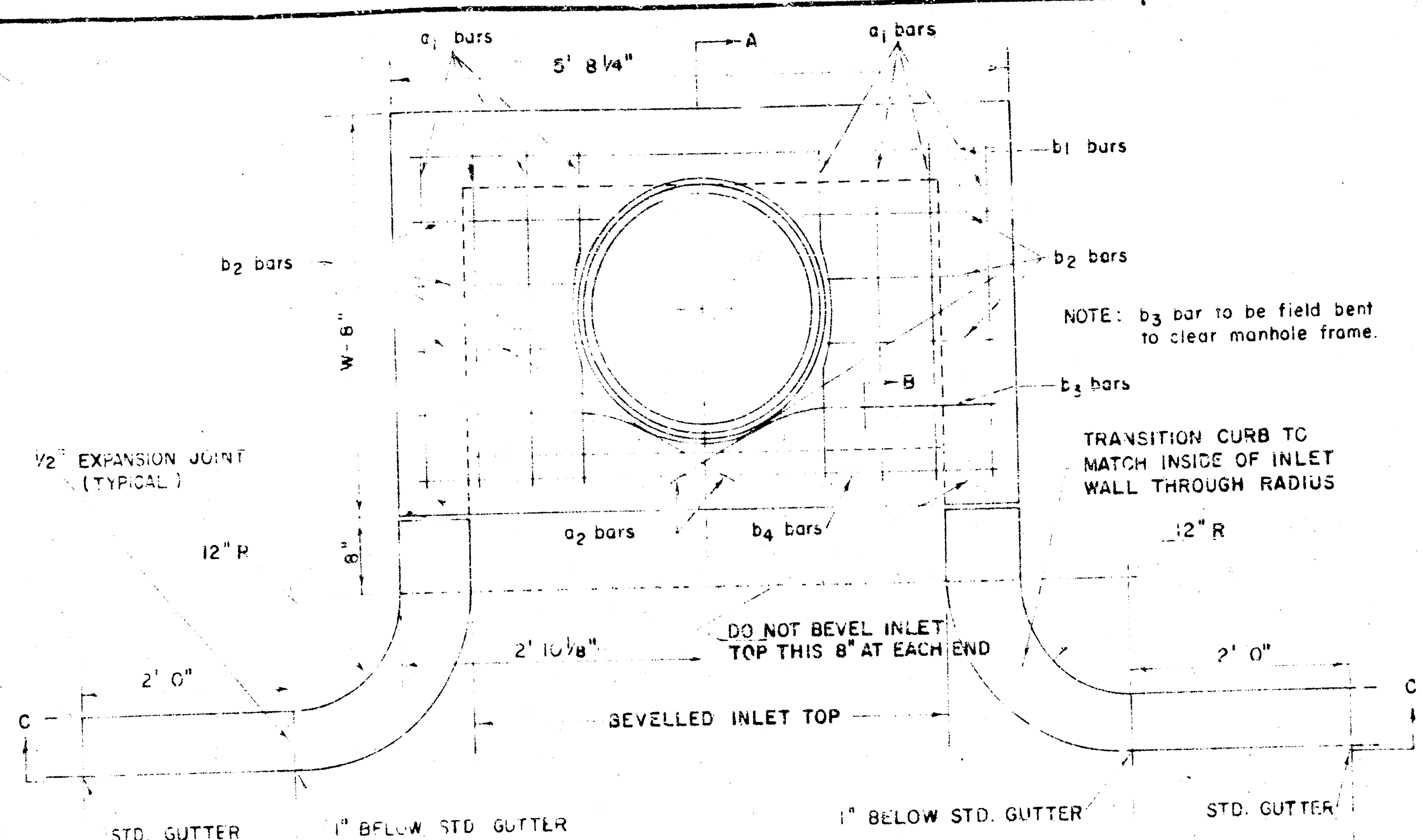
PROJECT NO. 438-76-245-8114-000-000-001

SHEET 1 OF 5

Mid-Continent Eng'g. Co. Inc. 10/1/79
C/S/C



12
PROJECT DESCRIPTION
SWS #231
PROJECT NUMBER
448-76-245-8114-000-000-001
Sheet 2 of 3



STEEL SCHEDULE

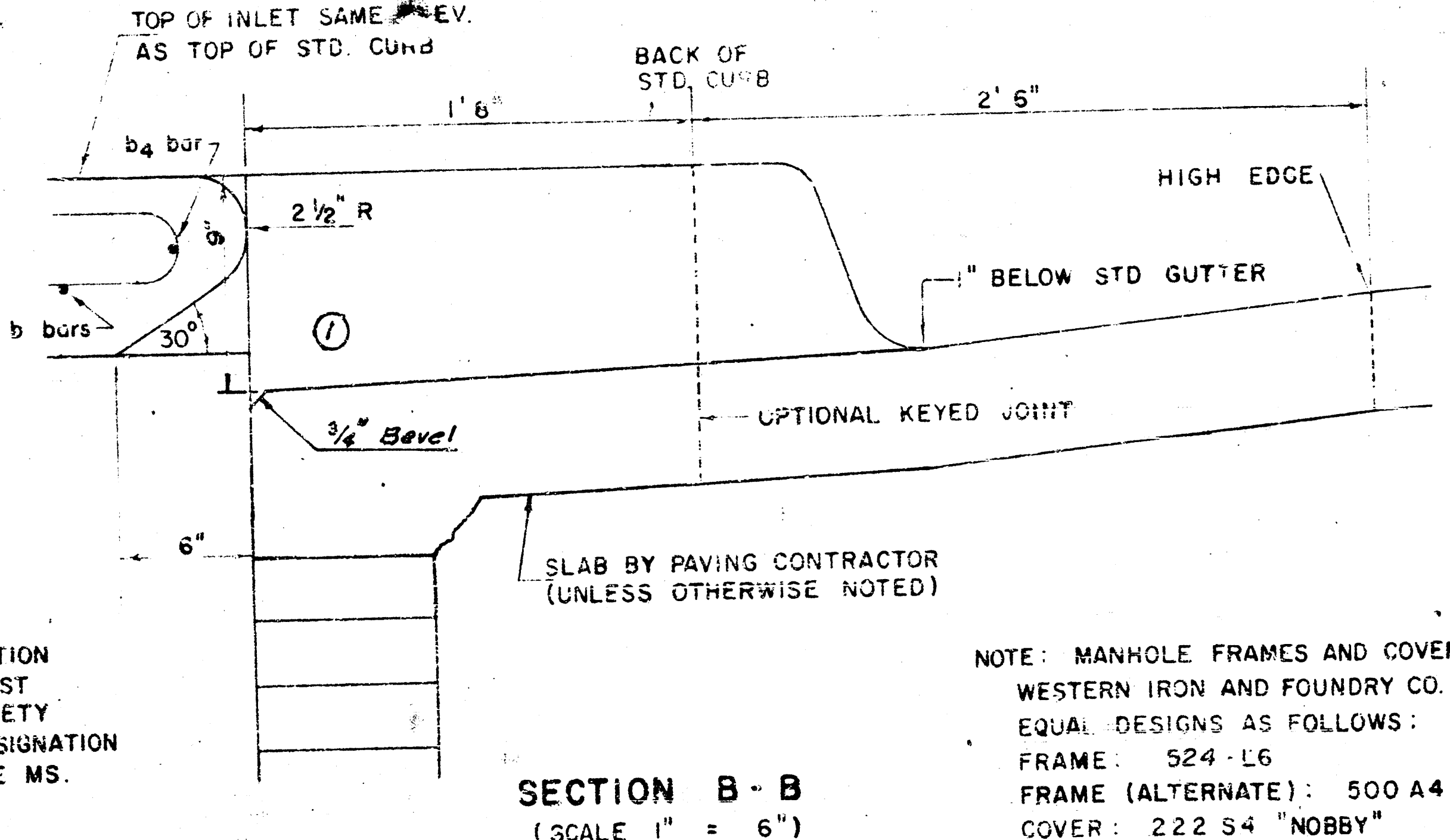
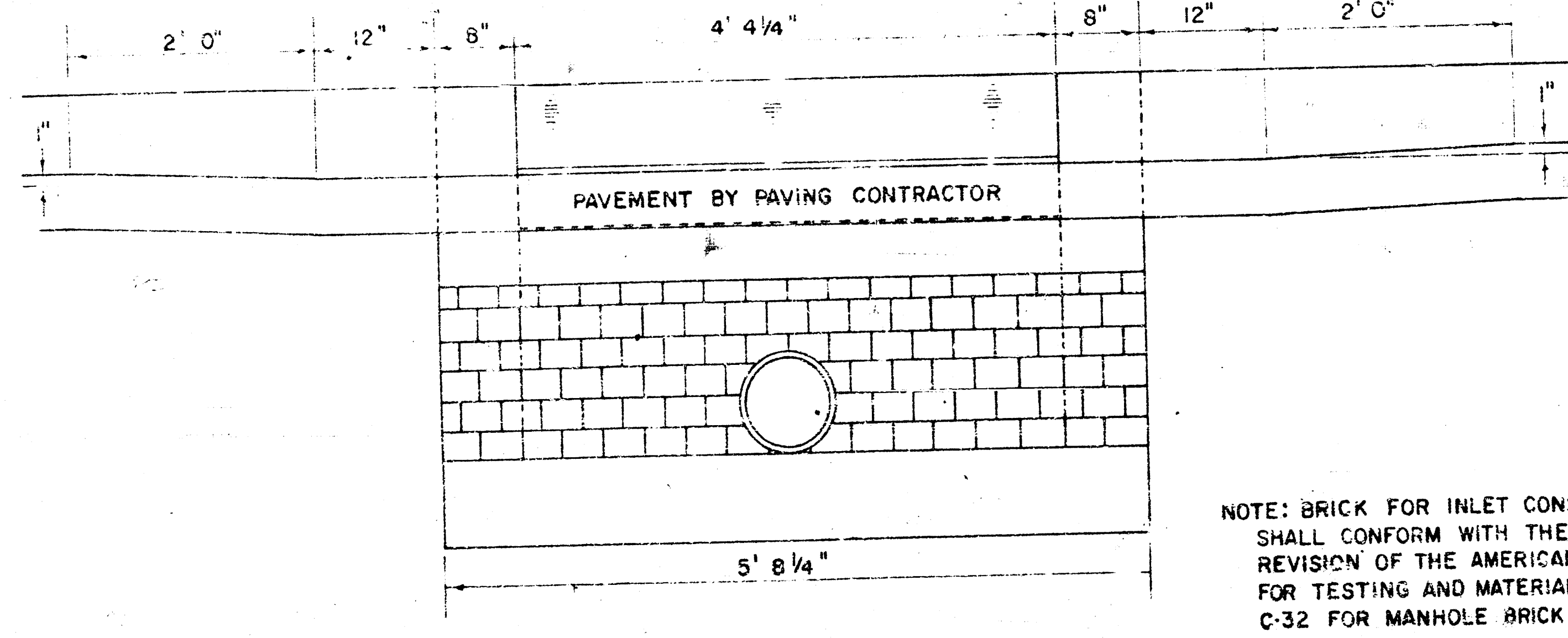
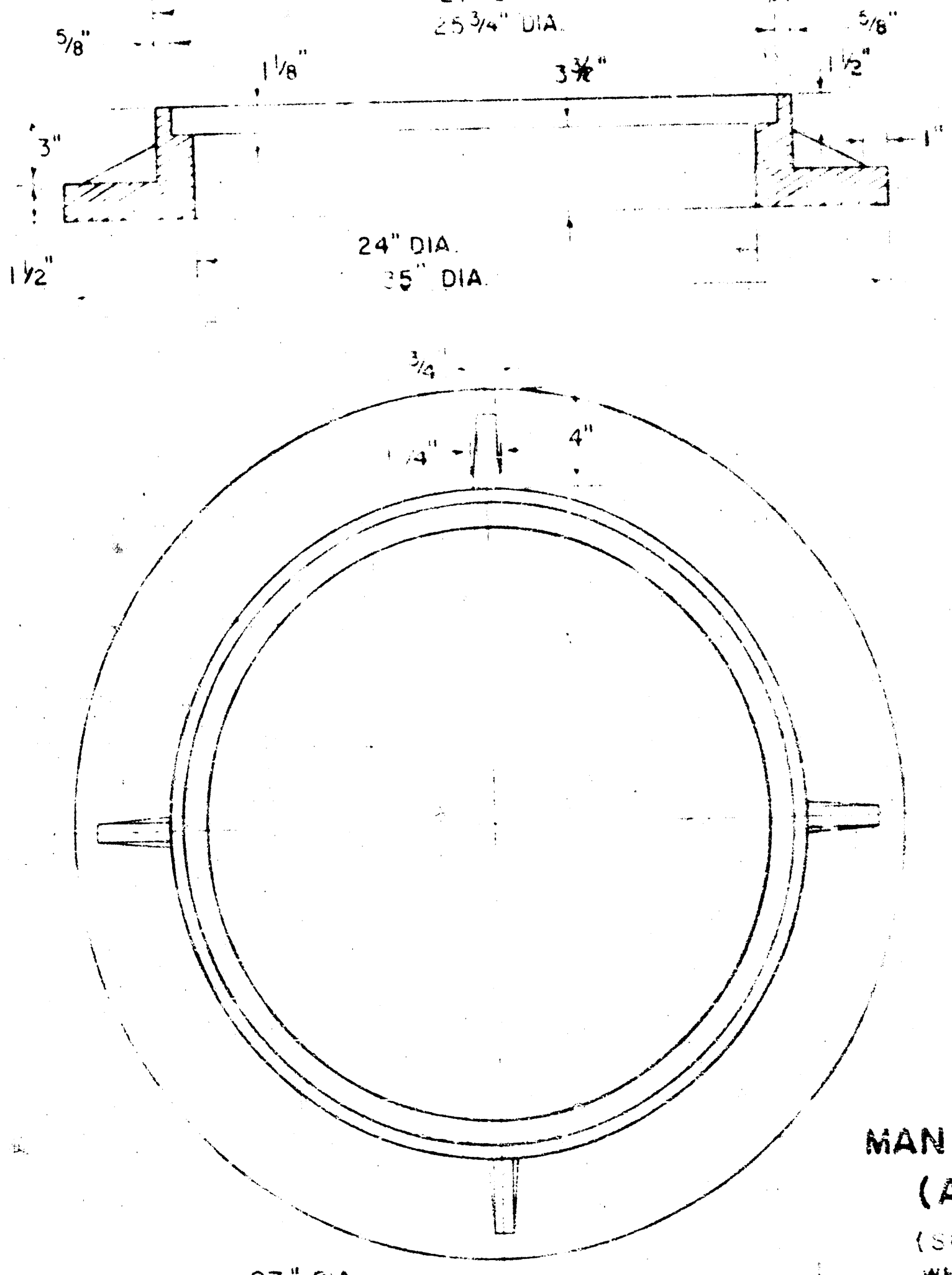
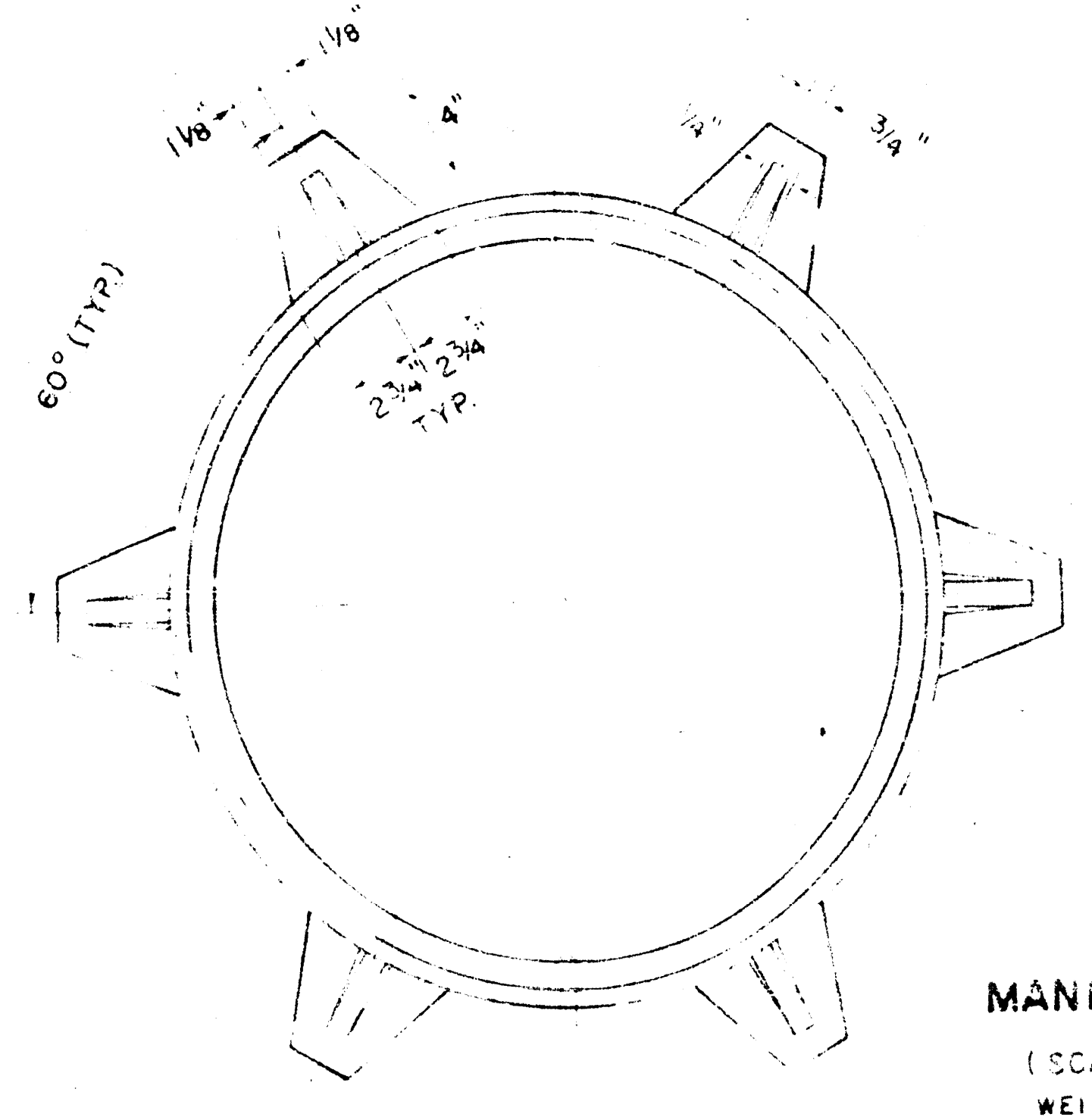
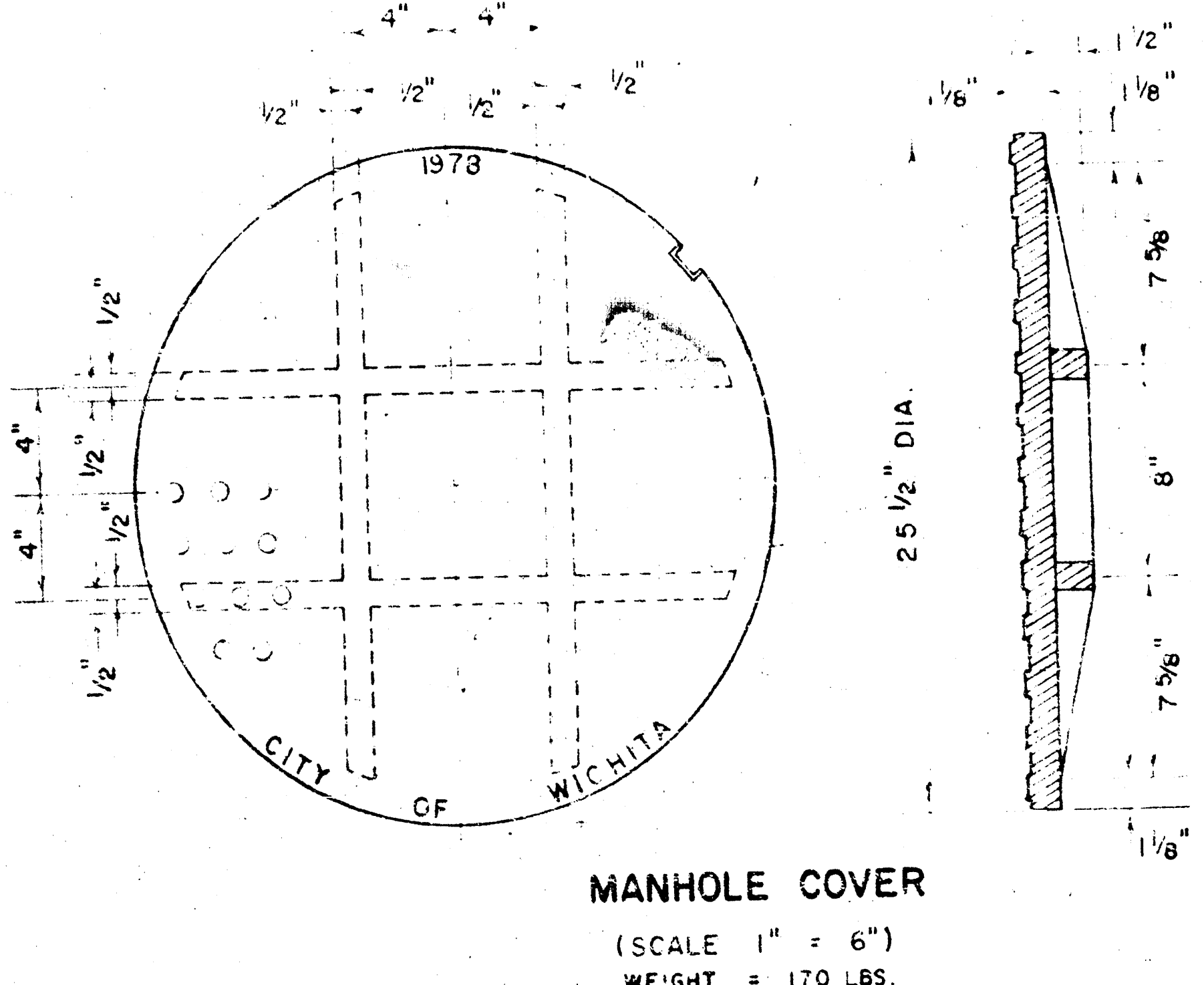
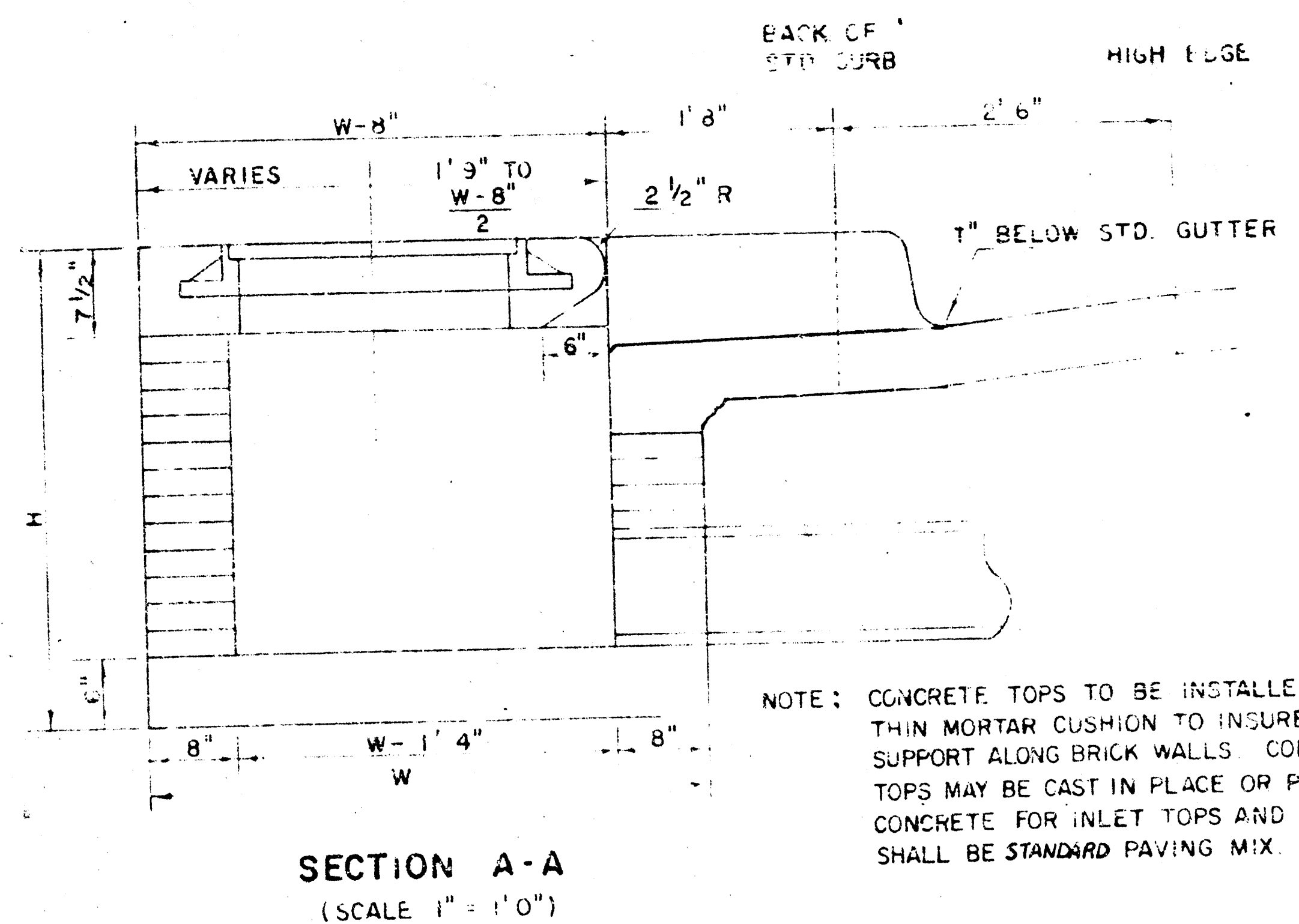
BAR	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	8	2	7	9	6	1	
SIZE	#4	#4	#4	#4	#4	#6	
W=4'2"	6'5"	3'4"	5'5"	-	-	-	60*
W=5'0"	8'1"	4'4"	5'5"	-	-	-	77*
W=6'0"	10'1"	5'4"	5'5"	-	-	-	97*
W=7'0"	11'1"	5'4"	5'5"	-	-	-	111*
W=8'0"	12'1"	7'4"	5'5"	1'5"	5'6"	5'5"	124*

* NOTE: a₂ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YL.	WT.
4' 2"	36" x 5' 8 1/4" x 7 1/2"	21" & SMALLER	0.46 *	
5' 0"	44" x 5' 8 1/4" x 7 1/2"	24" & 30"	0.57 *	
6' 0"	54" x 5' 8 1/4" x 7 1/2"	36" & 42"	0.71 *	
7' 0"	64" x 5' 8 1/4" x 7 1/2"	48" & 54"	0.84 *	
8' 0"	74" x 5' 8 1/4" x 7 1/2"	60" & 66"	0.97 *	

* GROSS VOLUME

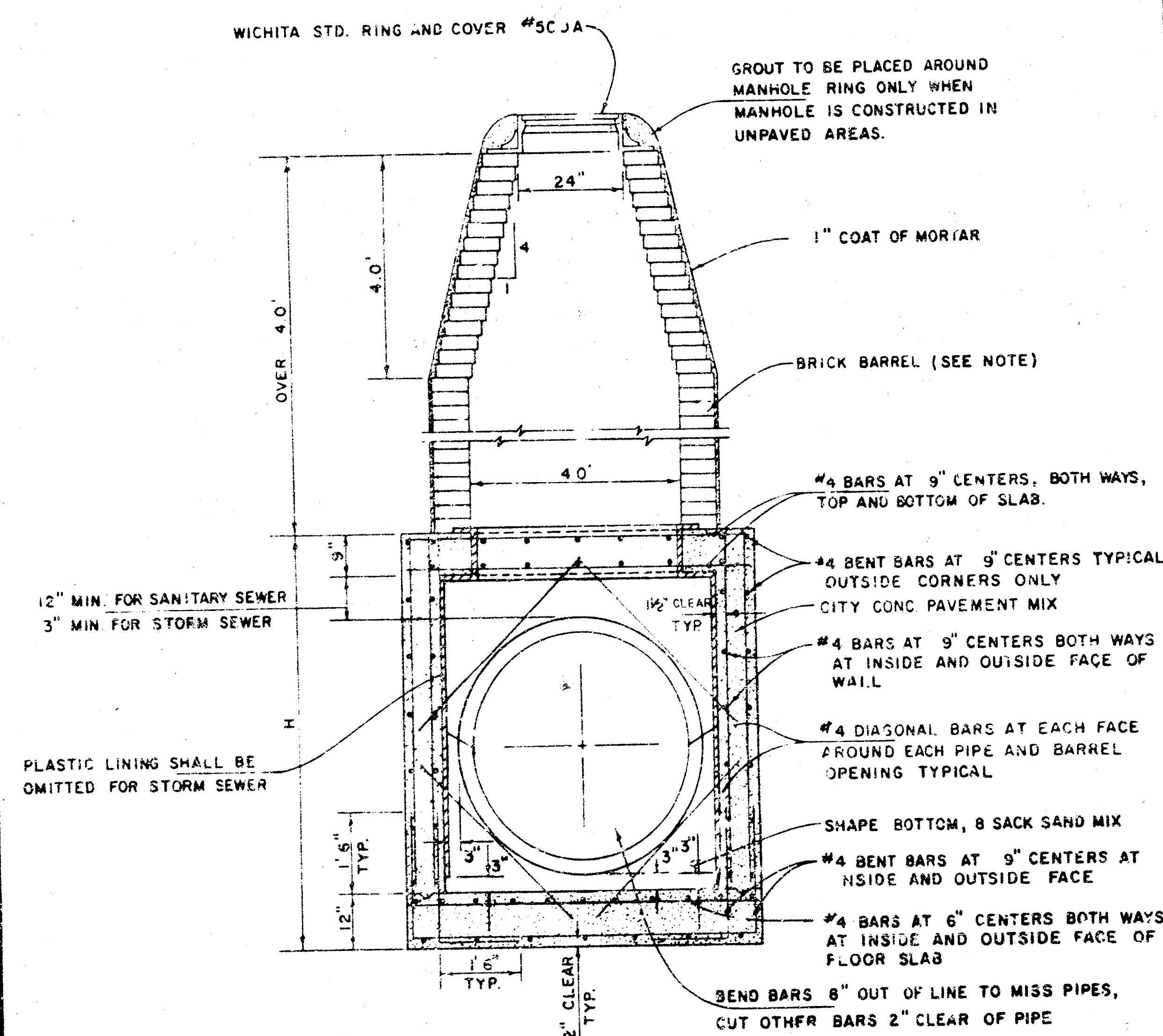
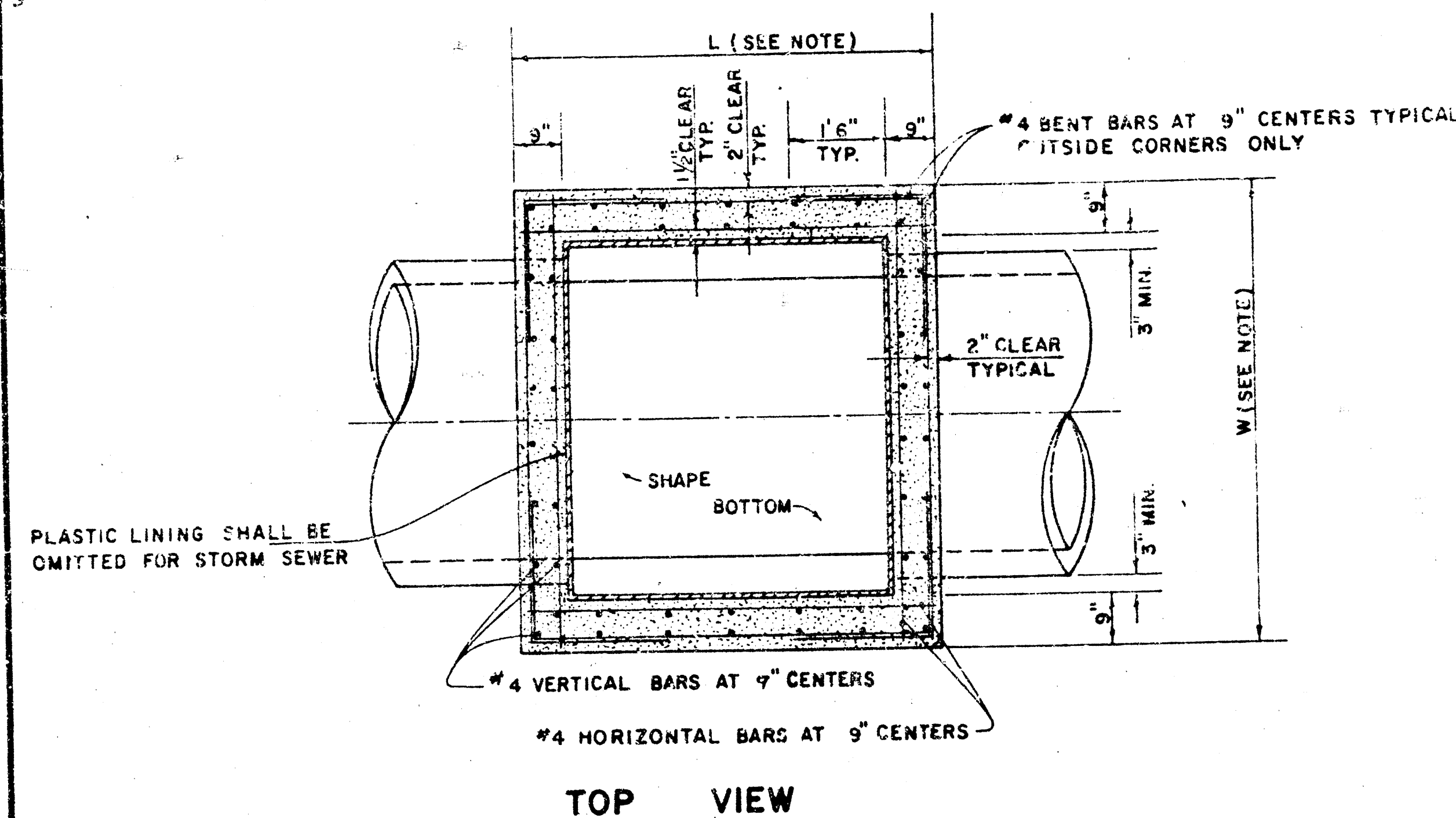


NOTE: BRICK FOR INLET CONSTRUCTION SHALL CONFORM WITH THE LATEST REVISION OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS DESIGNATION C-32 FOR MANHOLE BRICK GRADE MS.

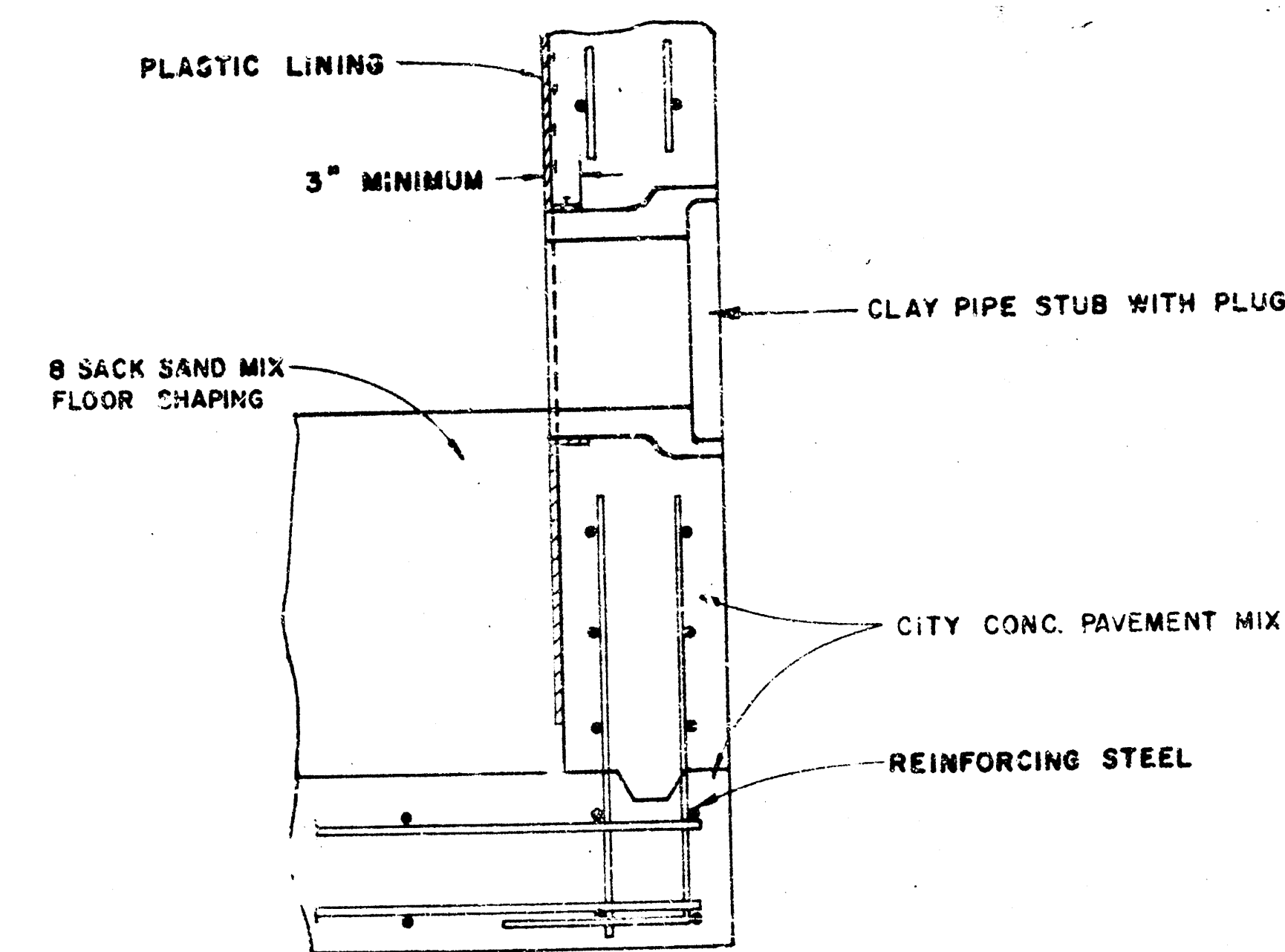
NOTE: MANHOLE FRAMES AND COVER ARE WESTERN IRON AND FOUNDRY CO. INC. OR EQUAL. DESIGNS AS FOLLOWS:
FRAME: 524-L6
FRAME (ALTERNATE): 500 A4
COVER: 222 S4 "NOBBY"

DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER
JUNE, 1981

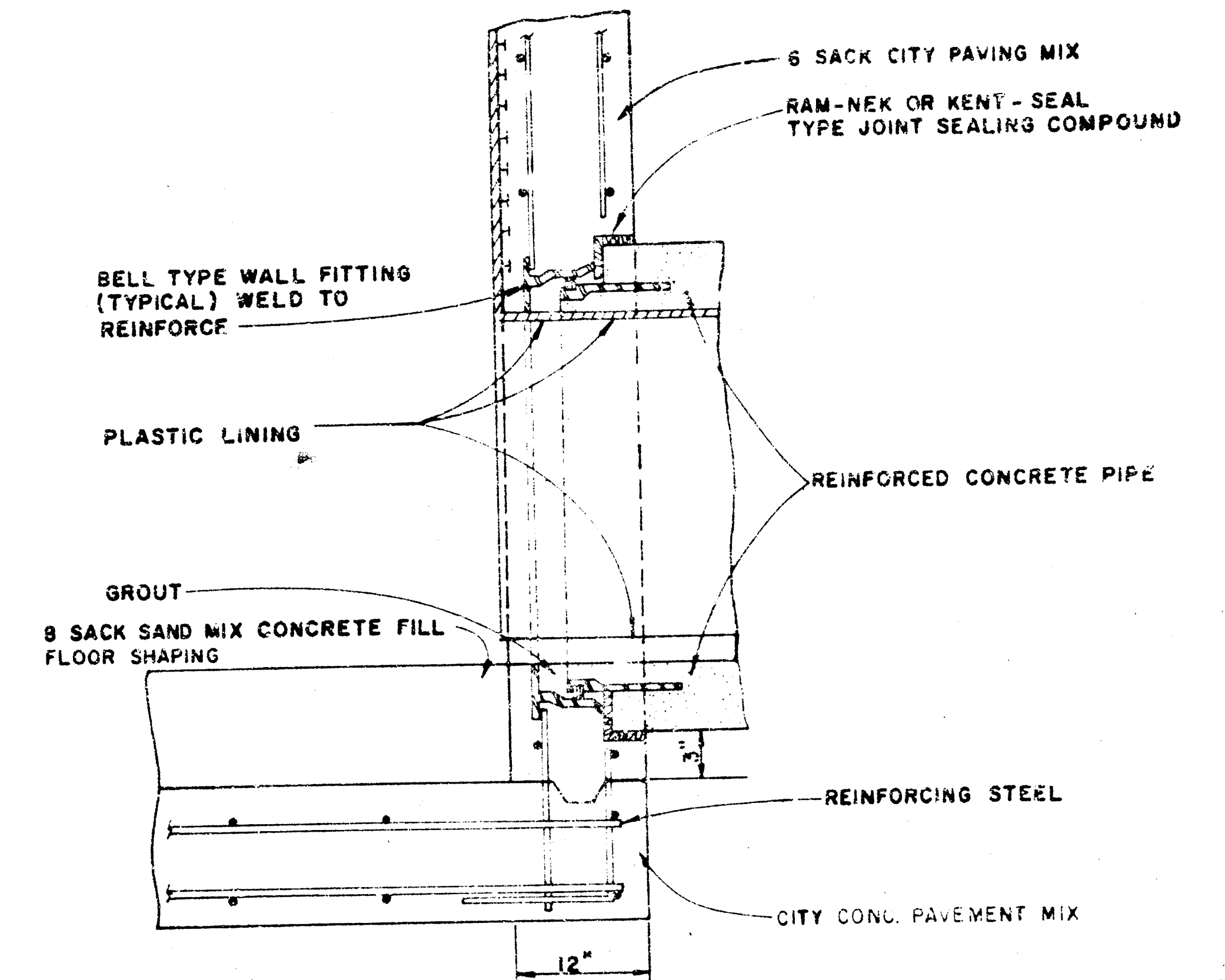
SW3 #231
Sheet 4 of 5



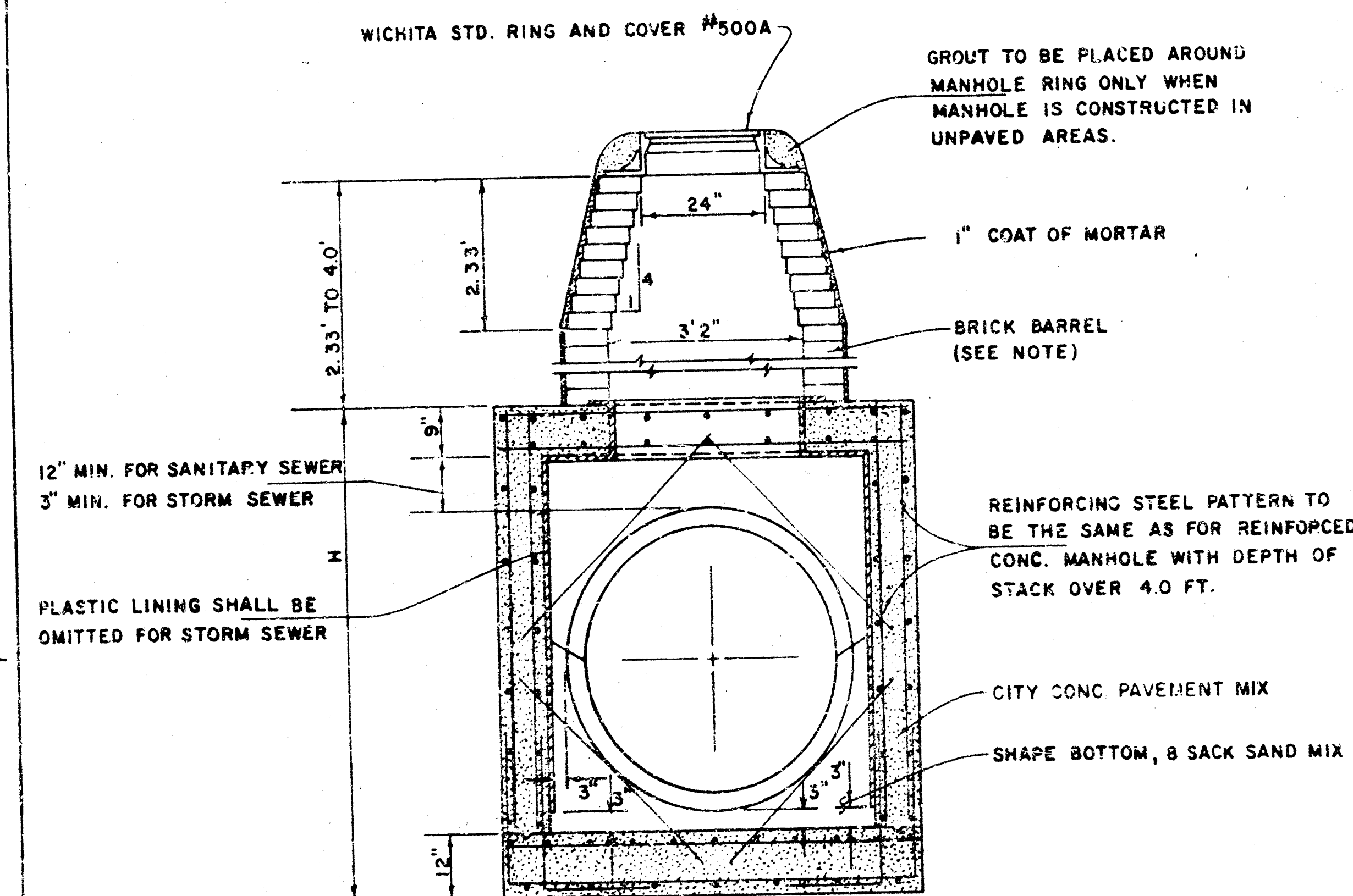
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY

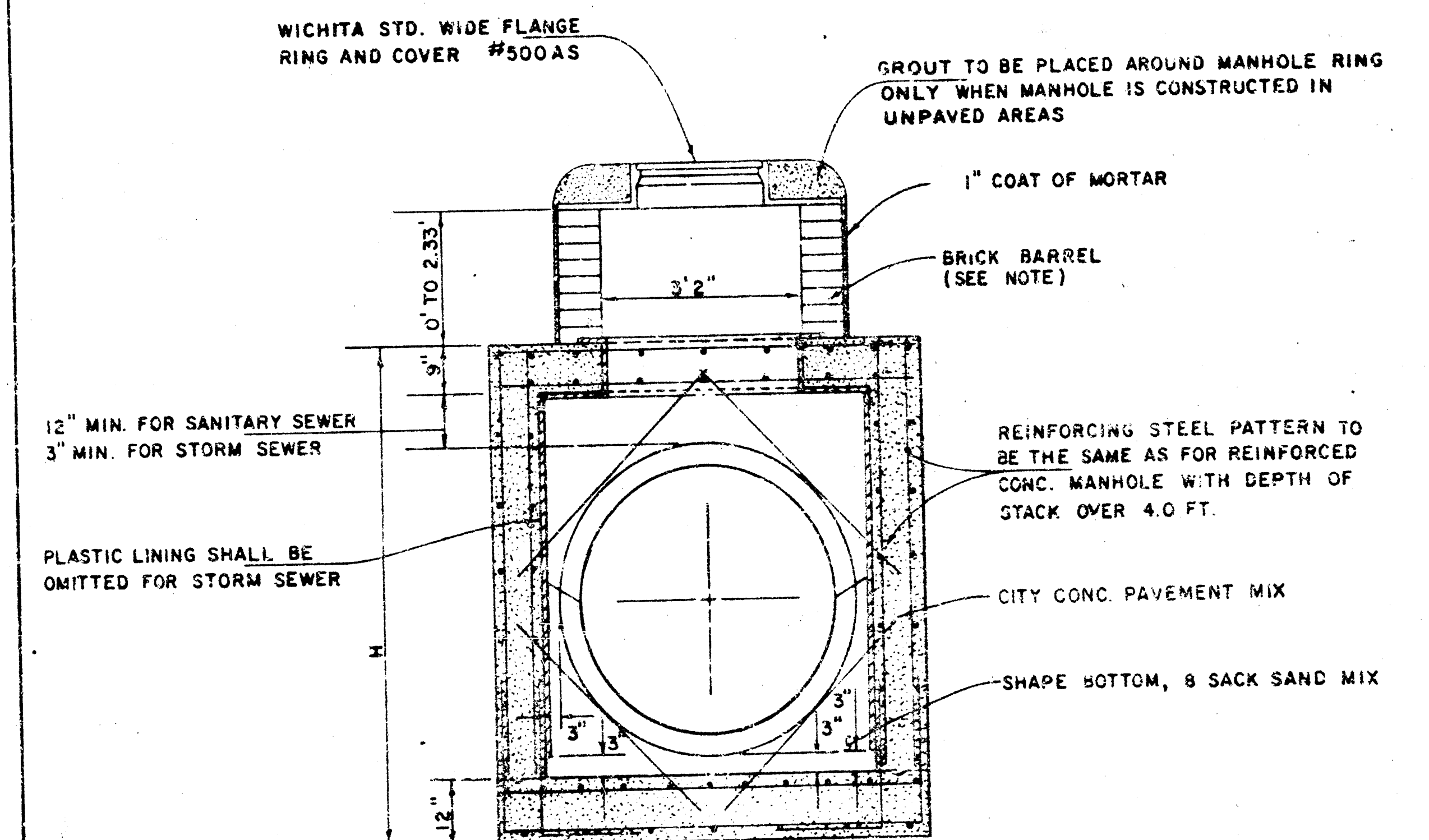


R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 16' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 16' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5'6" FOR BRICK BARRELS WITH 8" WALLS AND 6'2" FOR BRICK BARRELS WITH 12" WALLS.



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'