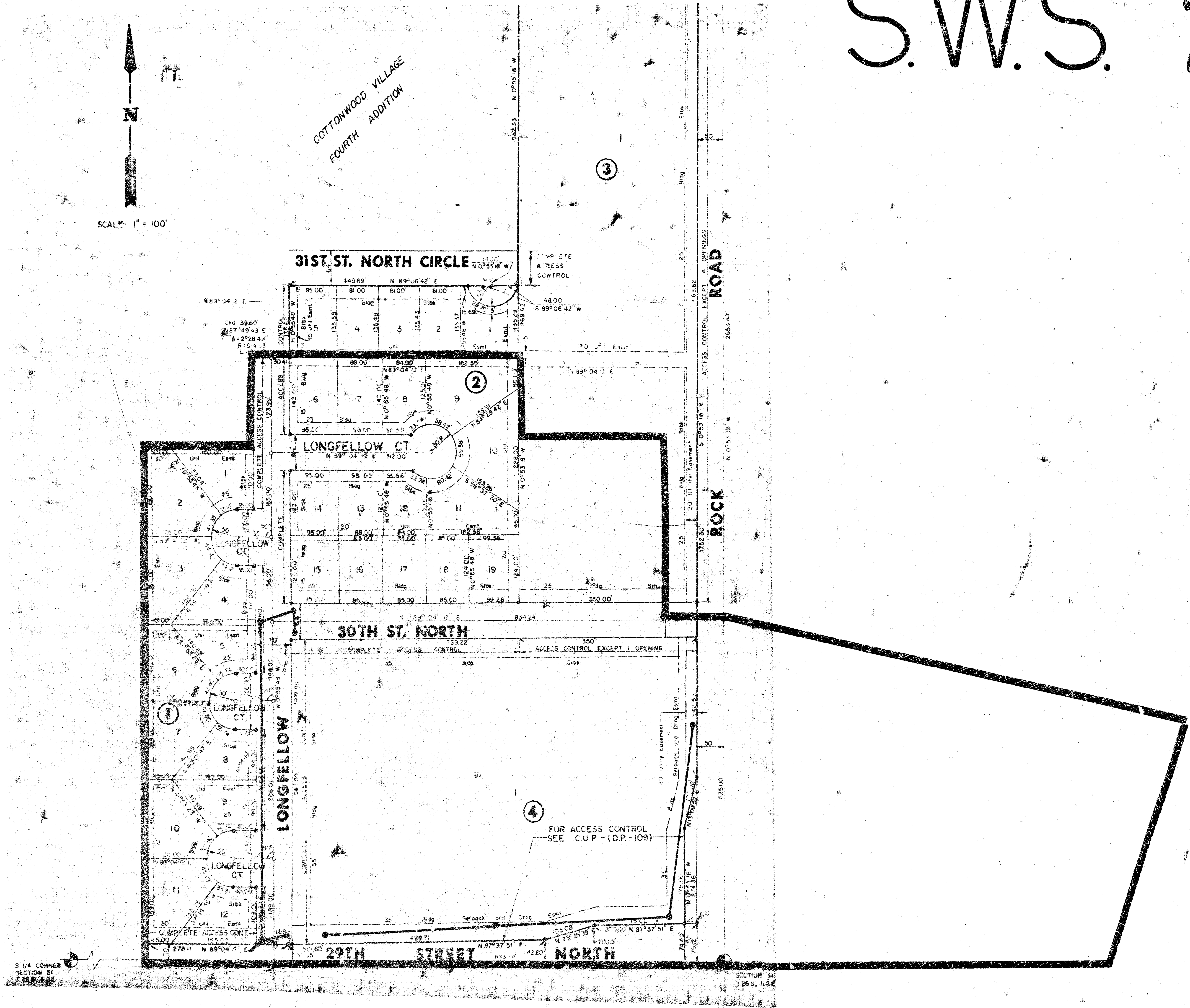


S.W.S. 242

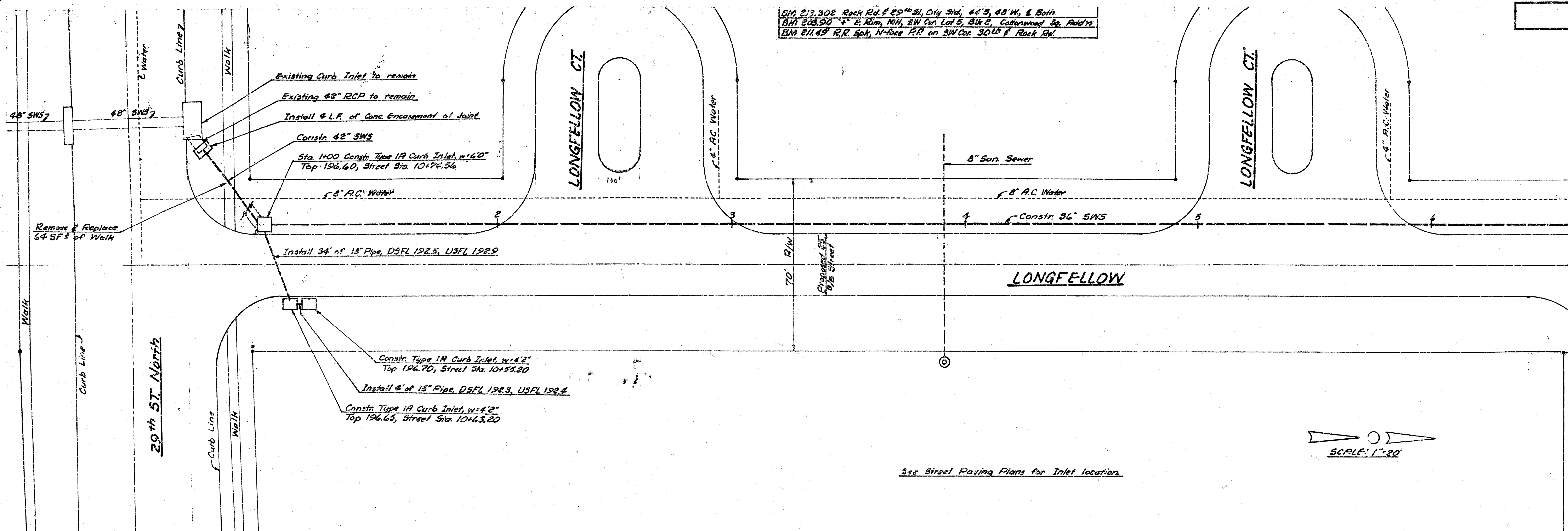


THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

PROJECT DESCRIPTION	
S.W.S. 242	
PROJECT NUMBER 448-76-245-81196-2-10-000-001	
BOOK NO. MG-32	APPROVED BY DATE 9-82
DRAWN BY WSK	REVISED 1/8
CITY OF WICHITA DEPARTMENT OF ENGINEERING	
DIRECTOR OF ENG/CITY ENGINEER R. W. BRUGEMAN	
Sheet 1 of 8	

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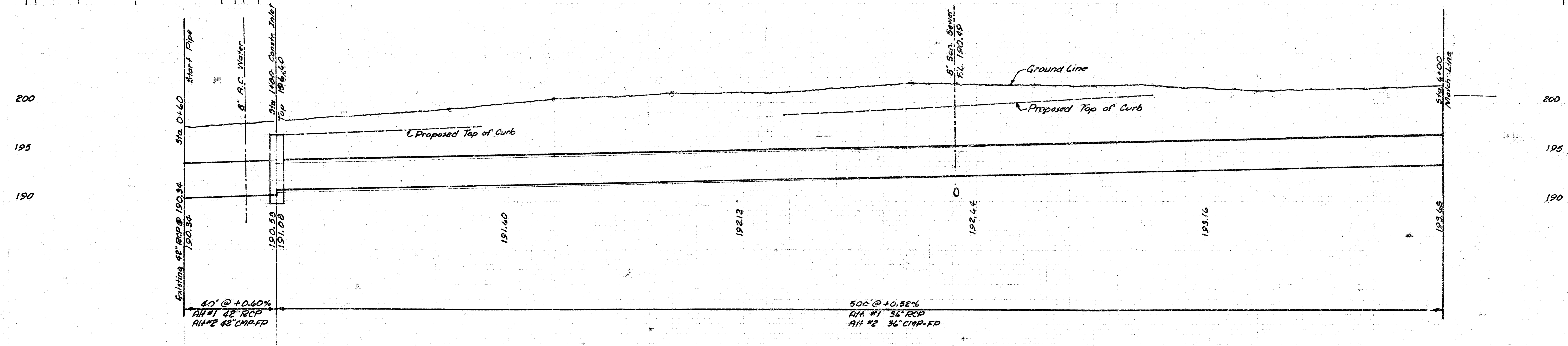
81F4
10-20
3-1-78
WFLC
10-1-80



BM 213.302 Rock Rd. F 29th St, City Sta. 4+13, 48' W, E. Both
BM 208.90 5" E. Rim, MH, SW Cor. Lot 5, Blk 2, Cottonwood Sp. Add'n
BM 211.45 RR Spot, N-face RR on SW Cor. 30th F Rock Rd.

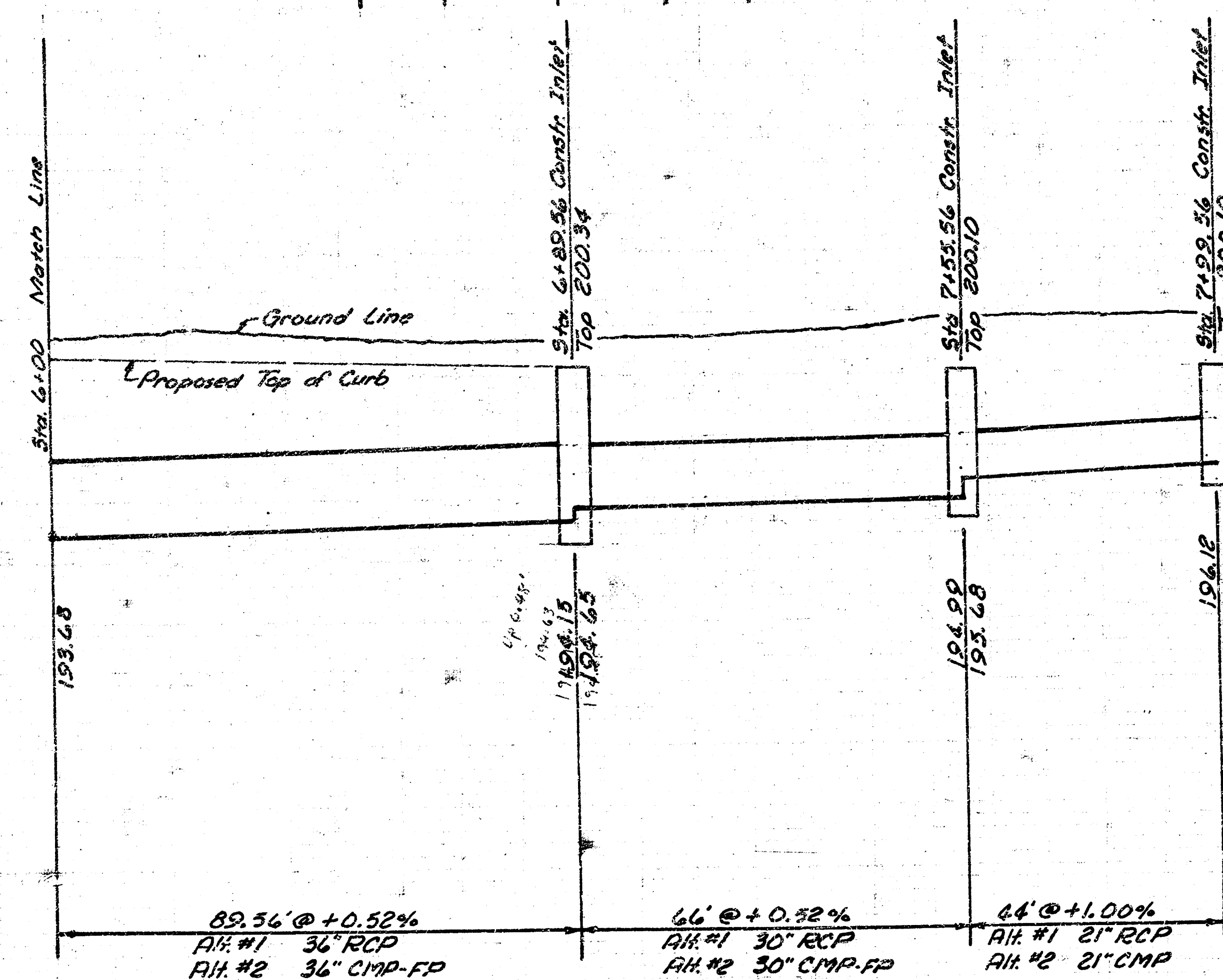
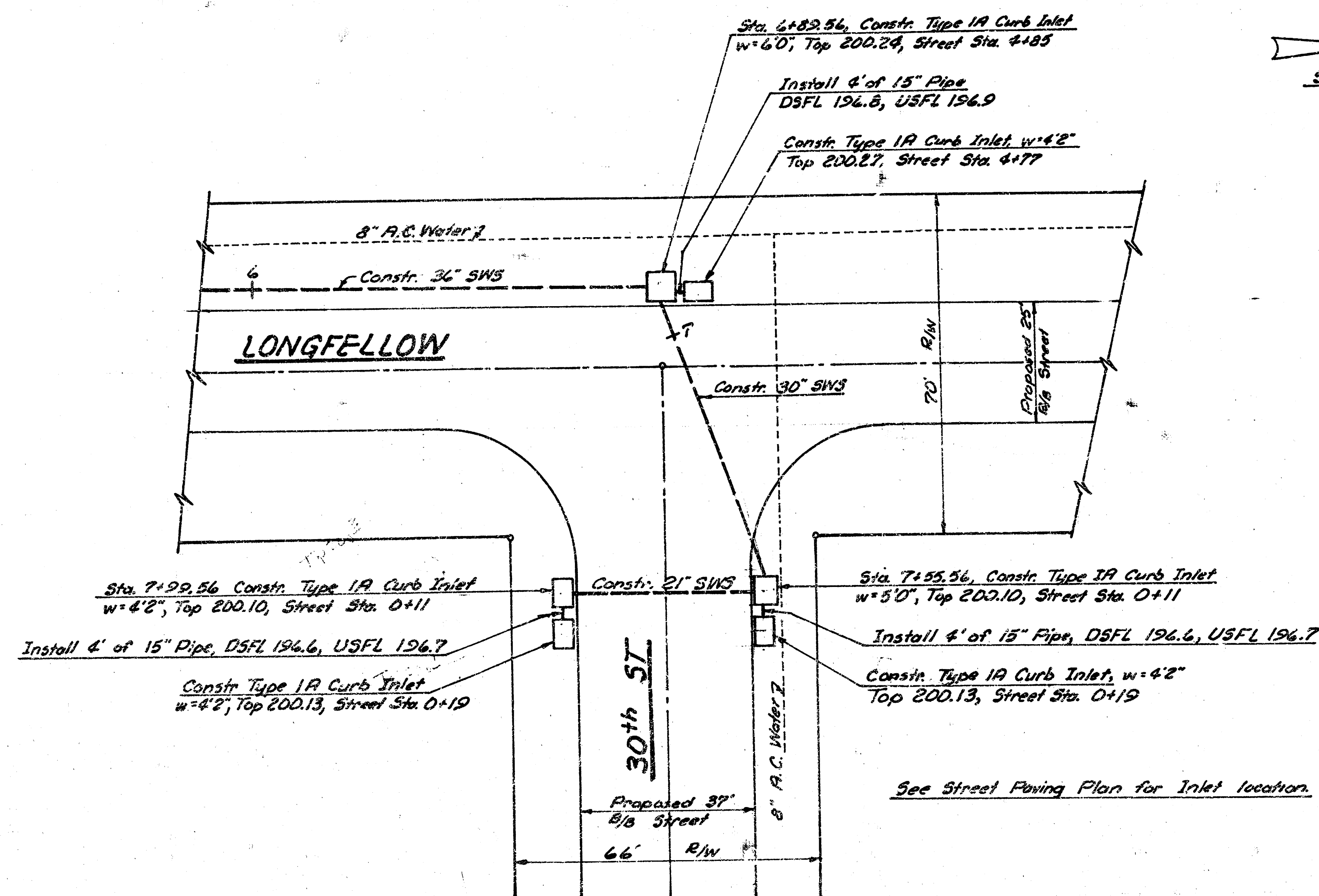
SCALE: 1"=20'

See Street Paving Plans for Inlet location



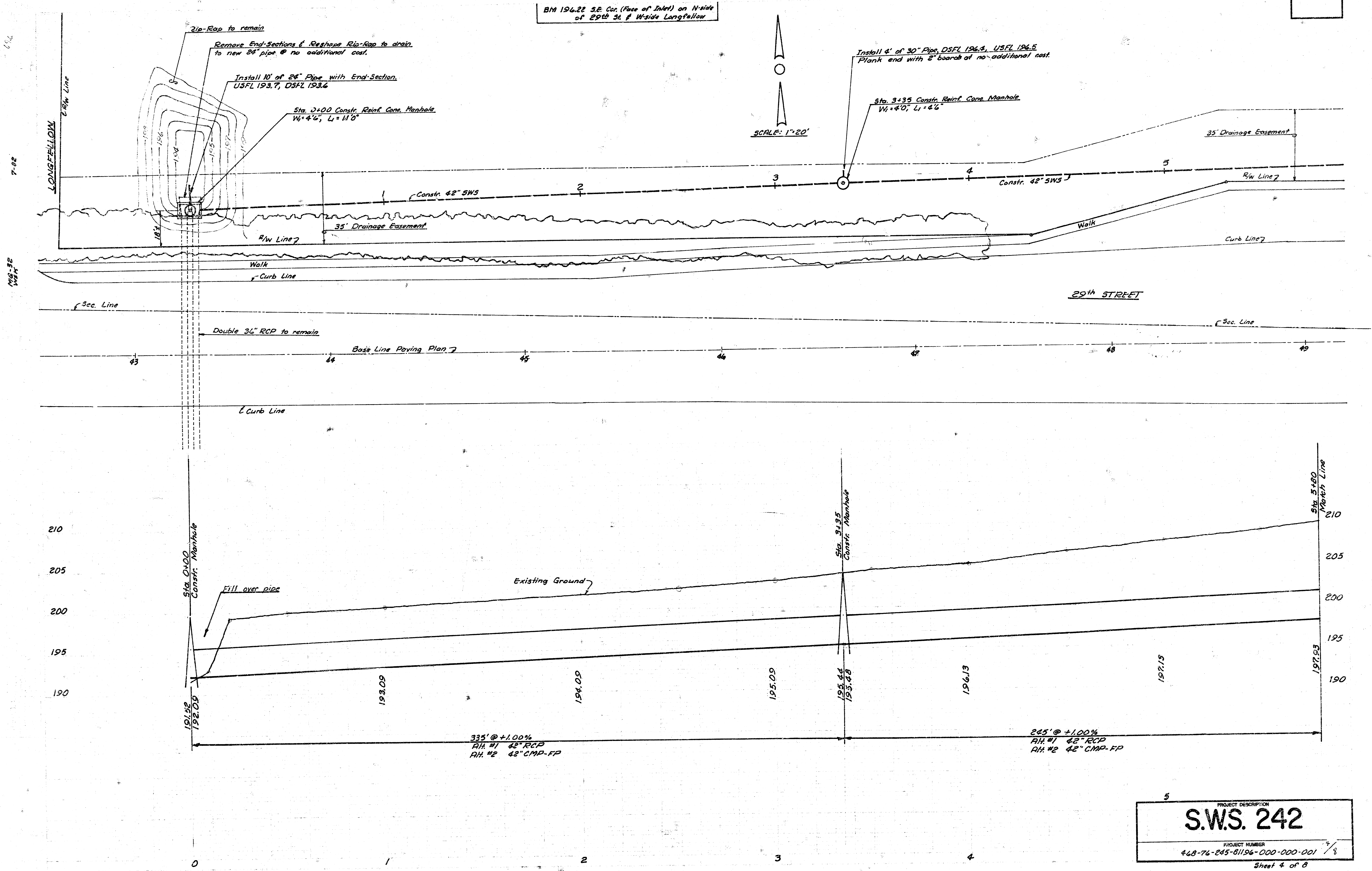
PROJECT DESCRIPTION
S.W.S. 242
PROJECT NUMBER
468-76-245-81156-000-000-001
Sheet 2 of 8

BM See Sheet 2



PROJECT DESCRIPTION	
S.W.S. 242	
PROJECT NUMBER	
468-76-245-81196-000-000-001	3/8
Sheet 3 of 8	

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5

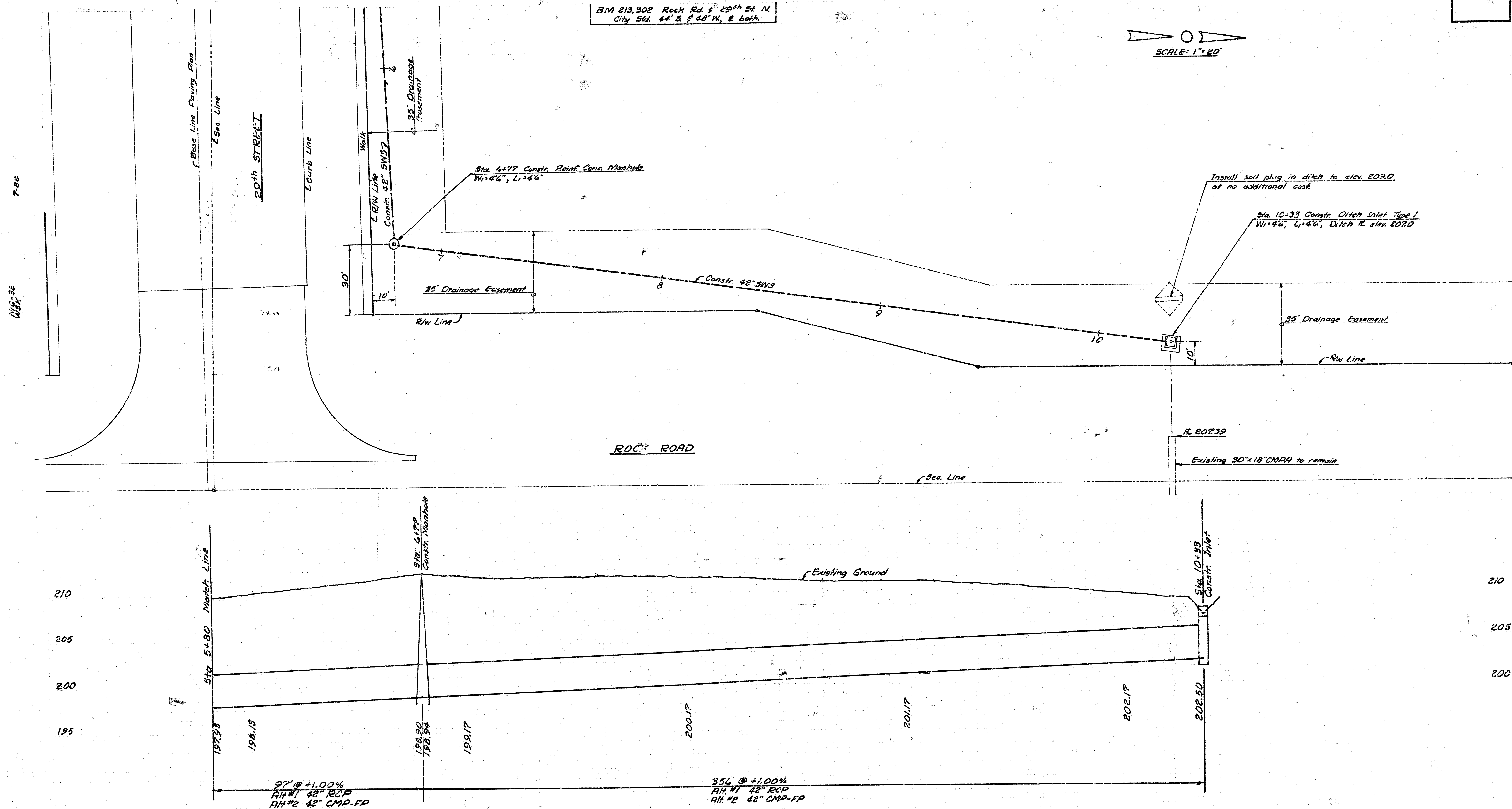
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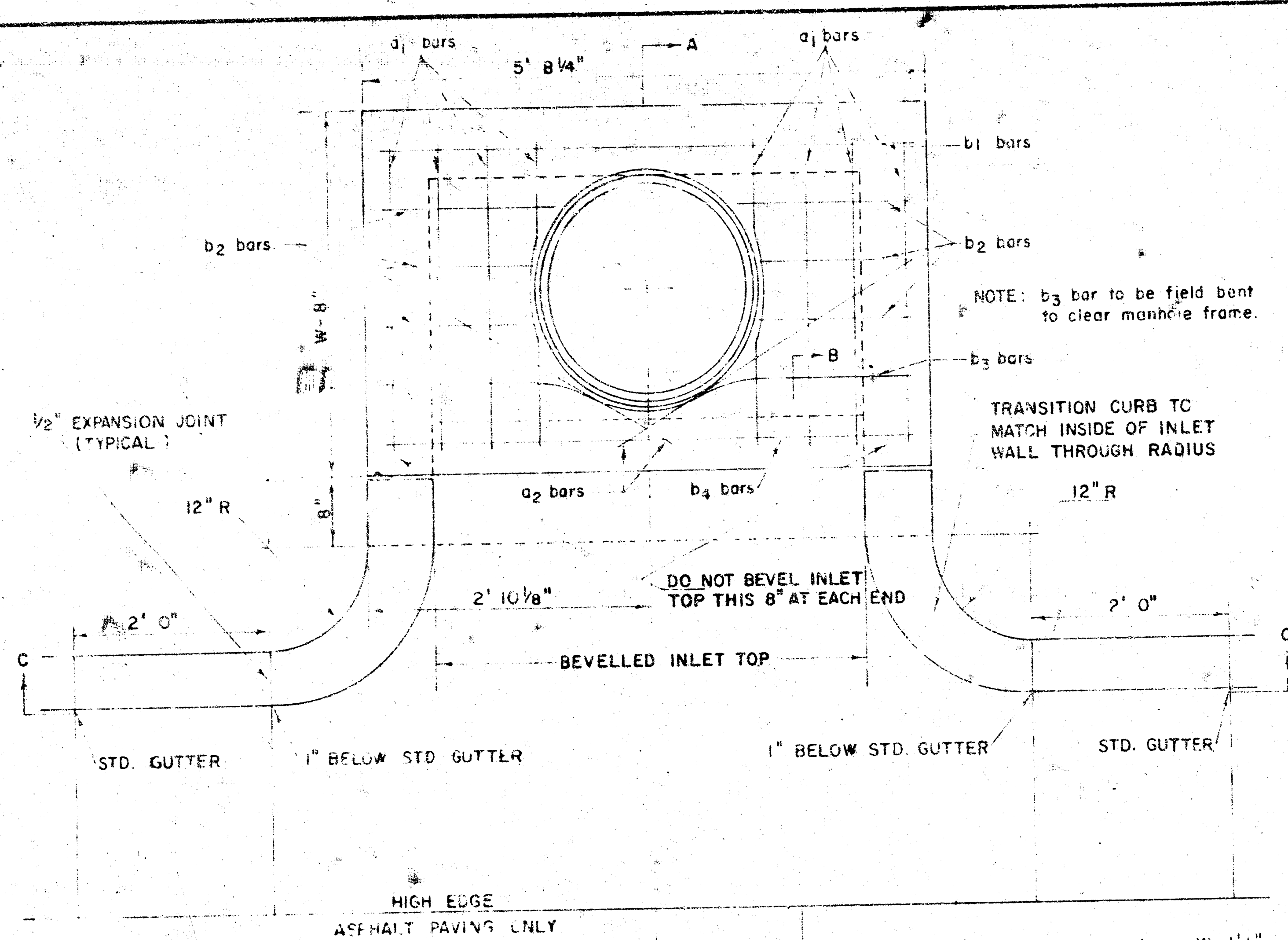
S.W.S. 242

PROJECT NUMBER

468-76-245-81196-000-000-001 4/8

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PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE

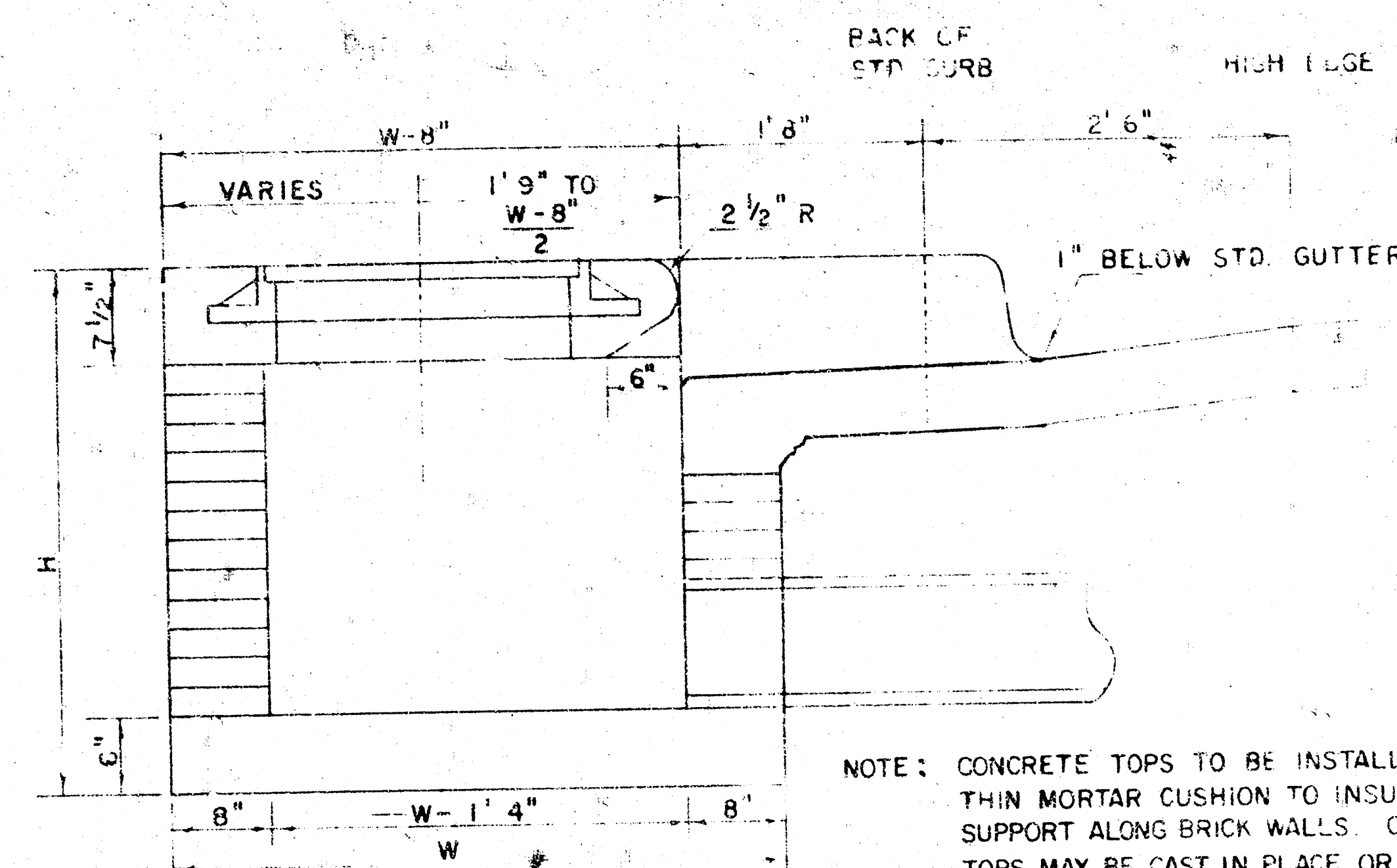
BAR	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	8	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#4
W=4'2"	6'5"	3'4"	5'5"	-	-	-	1'5"
W=5'0"	8'1"	4'4"	5'5"	-	-	-	1'5"
W=6'0"	10'1"	5'4"	5'5"	-	-	-	1'5"
W=7'0"	11'1"	6'4"	5'5"	-	-	-	1'5"
W=8'0"	12'1"	7'4"	5'5"	-	-	-	1'5"

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

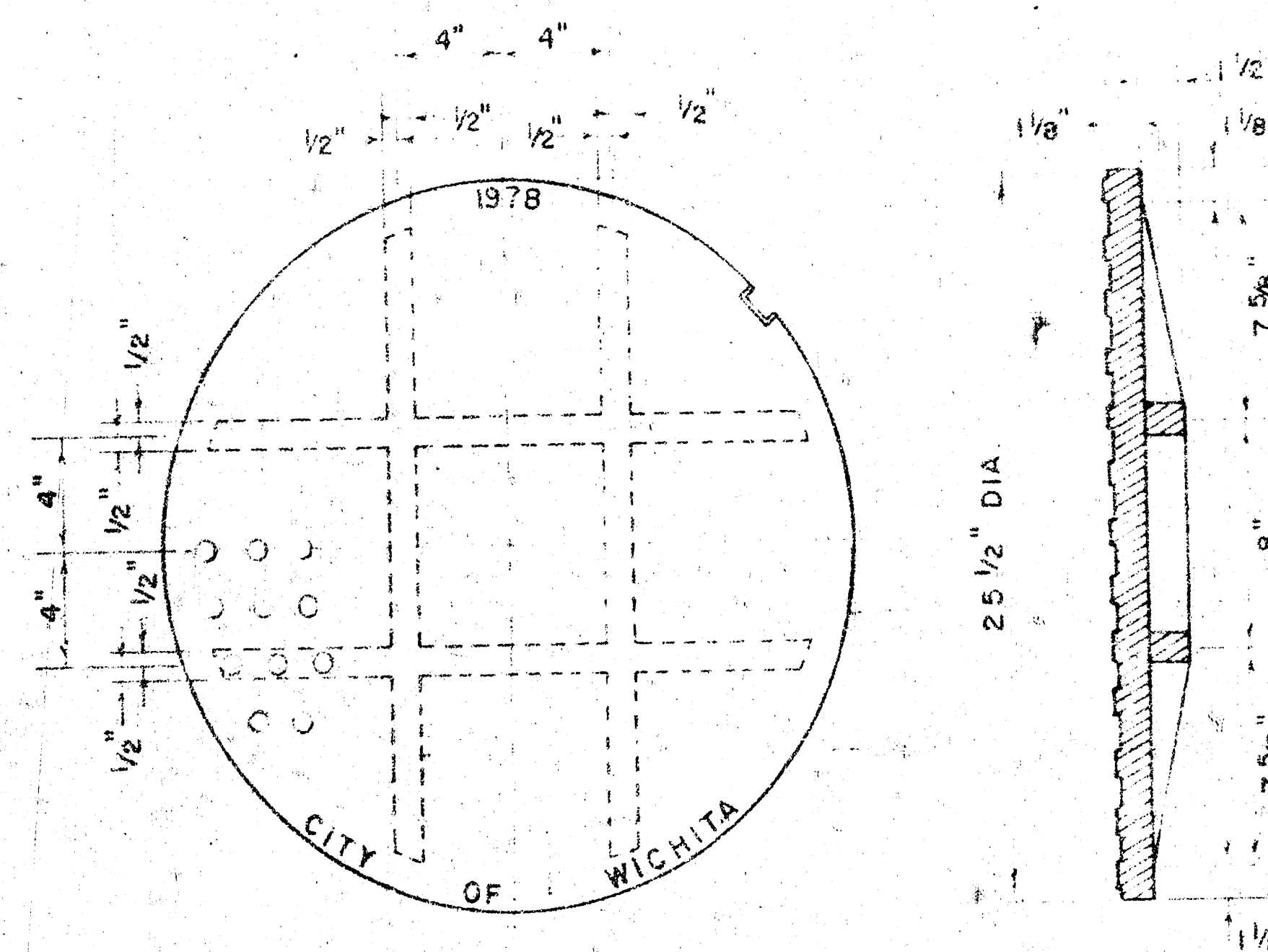
BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36"x5'8 1/4"x7 1/2"	21" B SMALLER	0.46 *
5' 0"	44"x5'8 1/4"x7 1/2"	24" B 30"	0.57 *
6' 0"	54"x5'8 1/4"x7 1/2"	36" B 42"	0.71 *
7' 0"	64"x5'8 1/4"x7 1/2"	48" B 54"	0.84 *
8' 0"	74"x5'8 1/4"x7 1/2"	60" B 66"	0.97 *

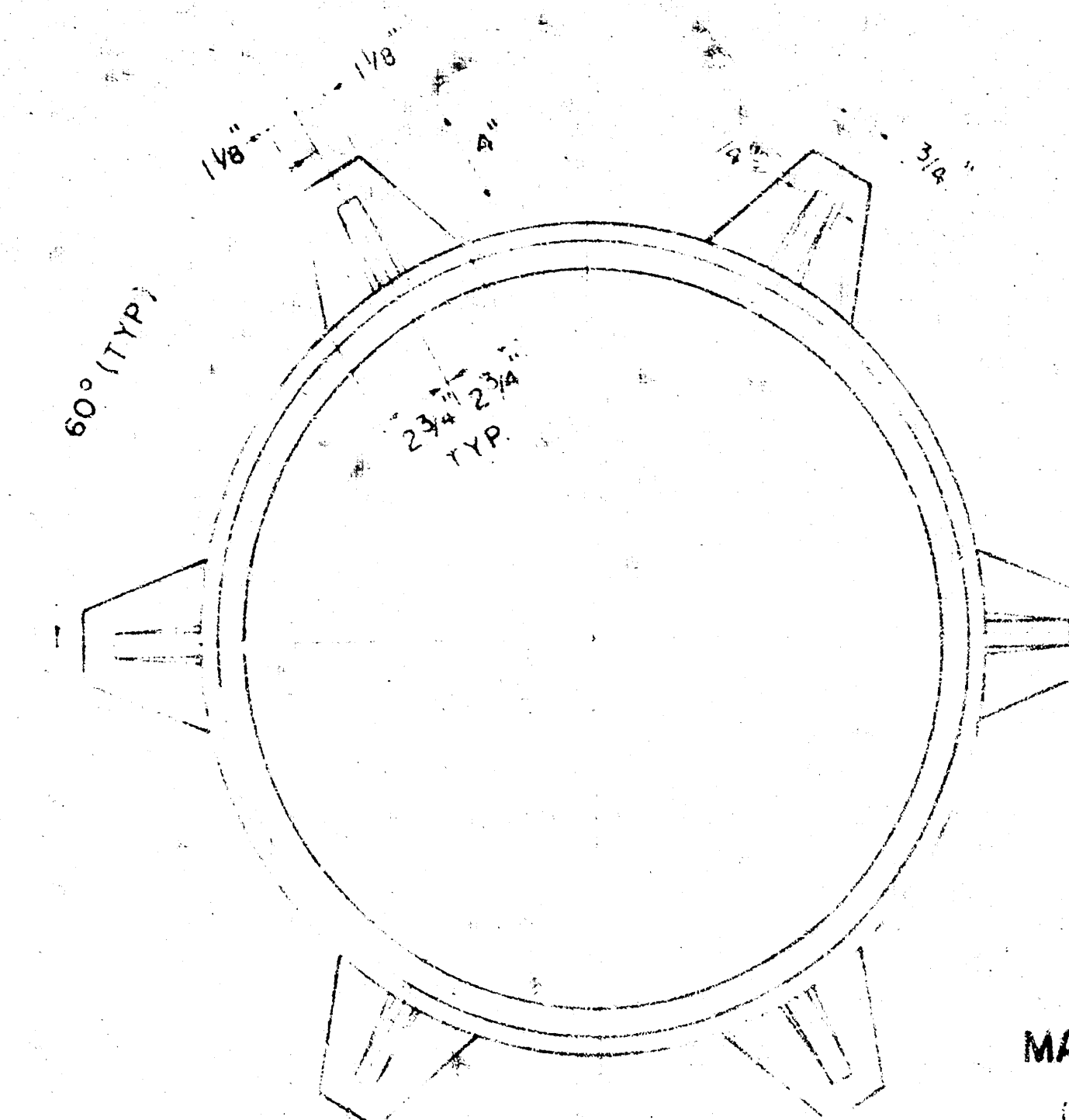
* GROSS VOLUME



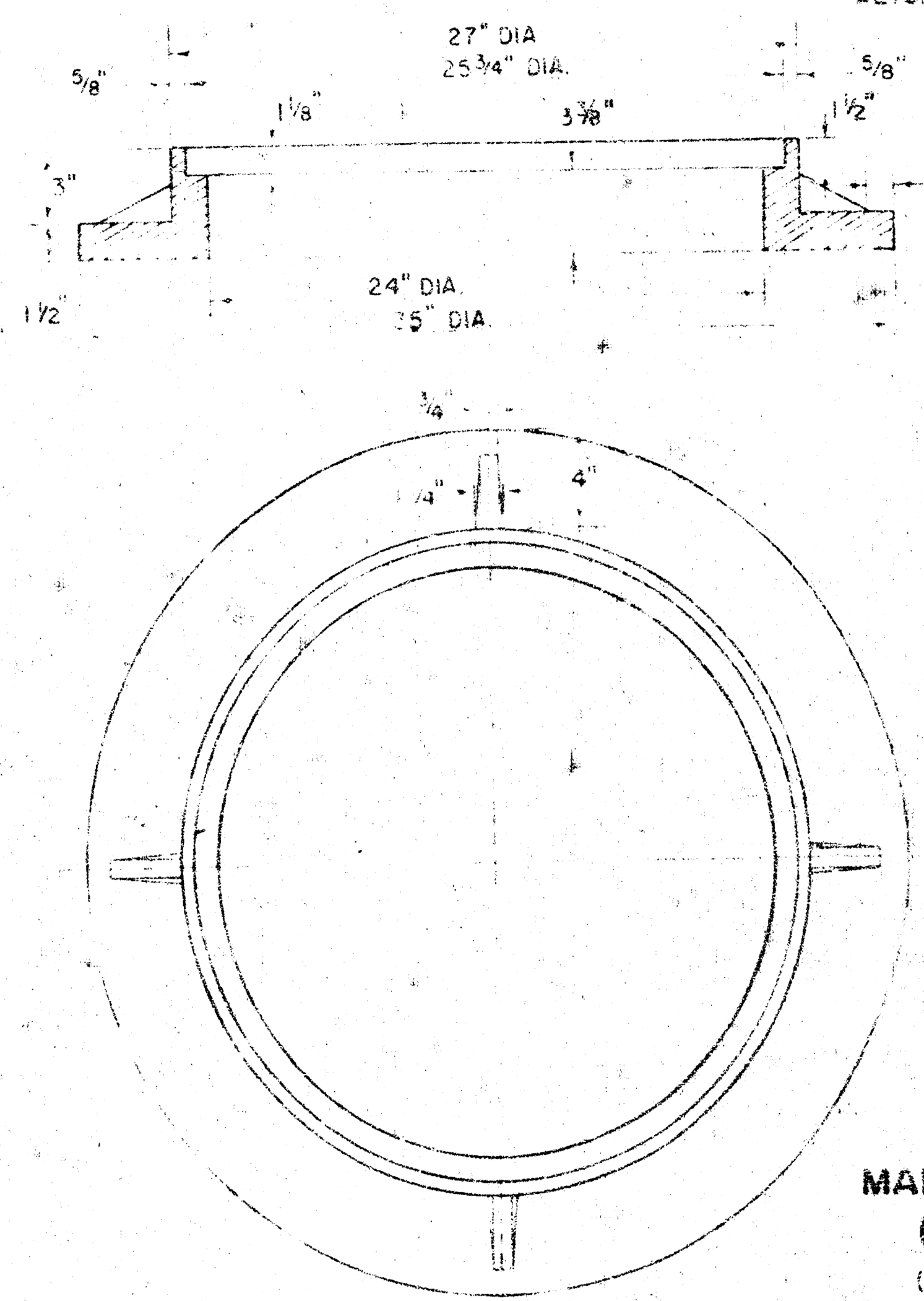
SECTION A-A
(SCALE 1" = 1' 0")



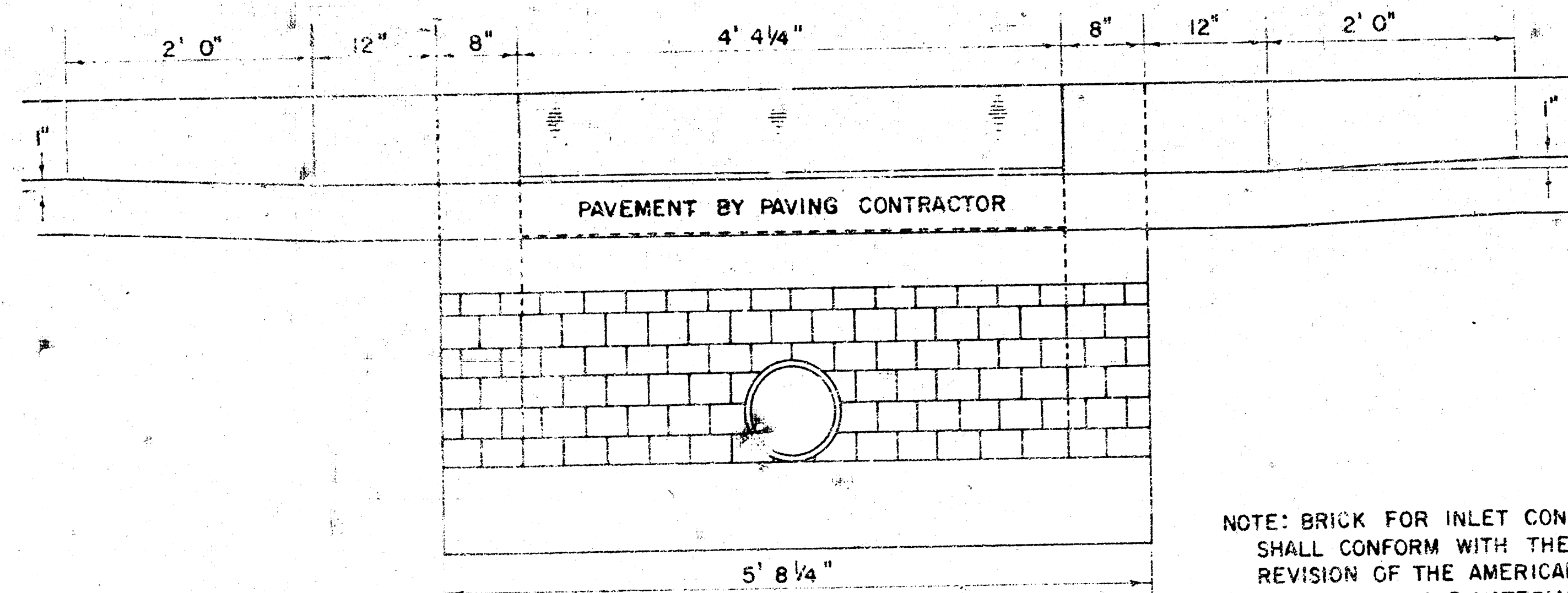
MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS.



MANHOLE FRAME
(SCALE 1" = 6")
WEIGHT = 180 LBS.

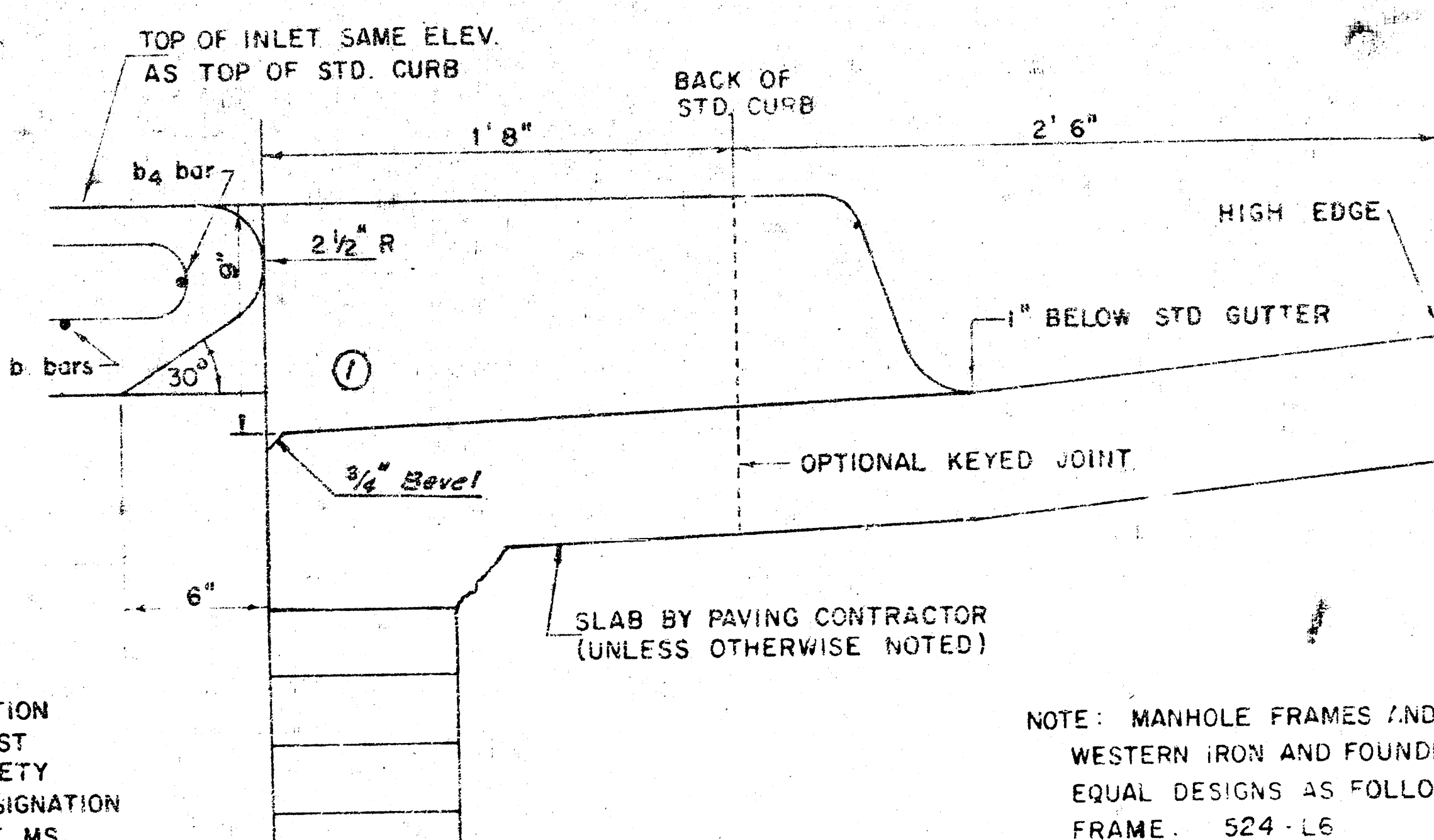


MANHOLE FRAME
(ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.



SECTION C-C
(SCALE 1" = 1' 0")

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.



SECTION B-B
(SCALE 1" = 6")

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

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, DIRECTOR OF ENGINEERING/
CITY ENGINEER

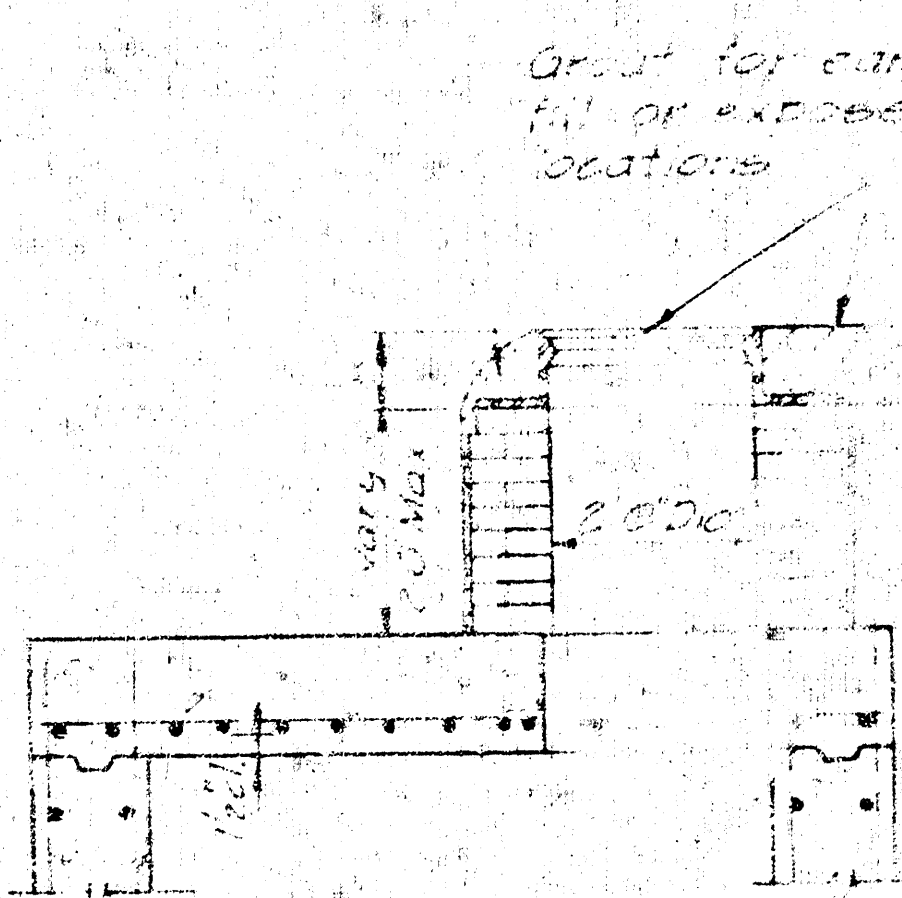
JUNE, 1981

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SANITARY SEWER PIPE THRU MANHOLE

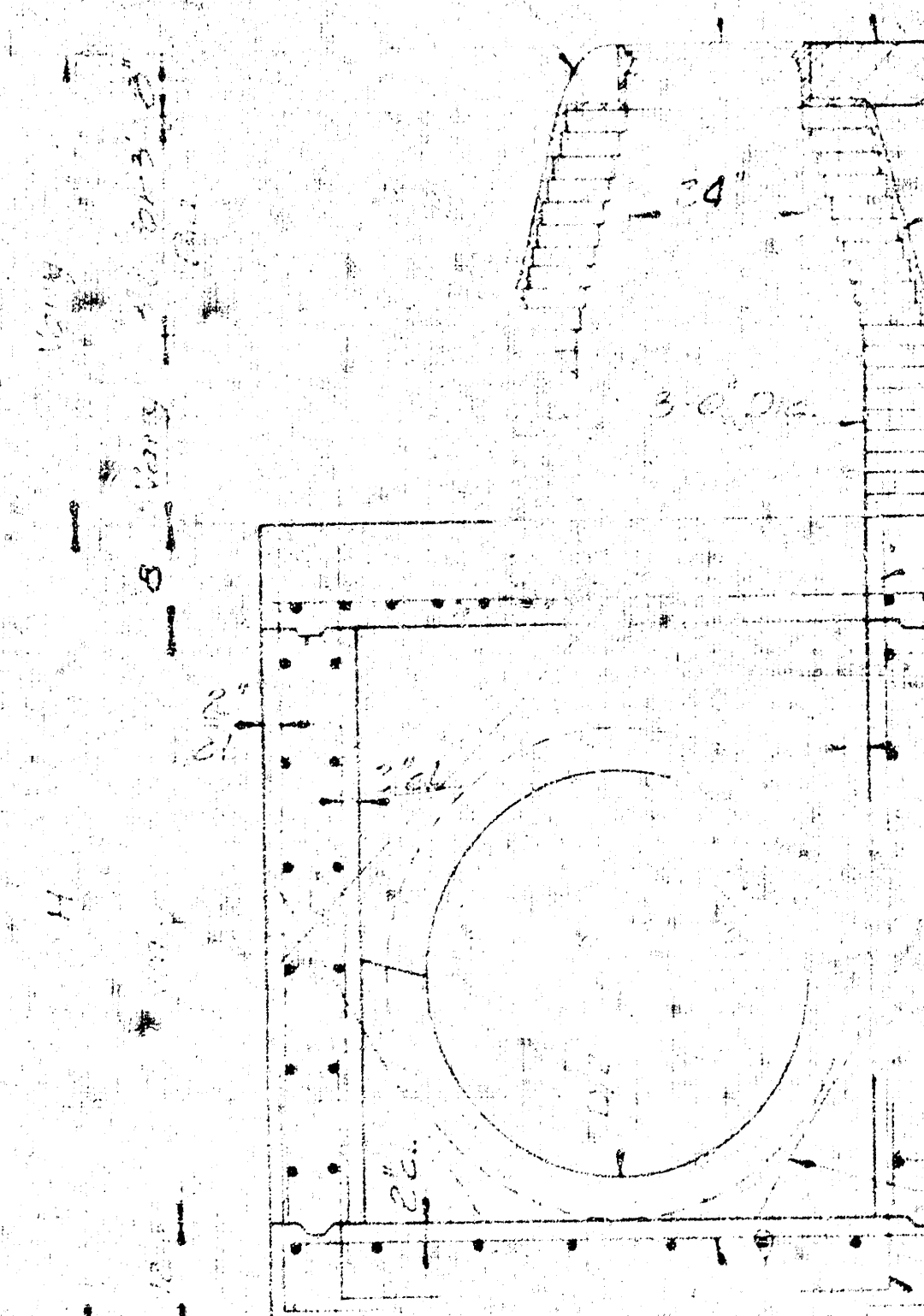
TOP SLAB REINFORCING

TOP SLAB REINFORCING



2' DIA. BR' Extension
Bottom on 3'

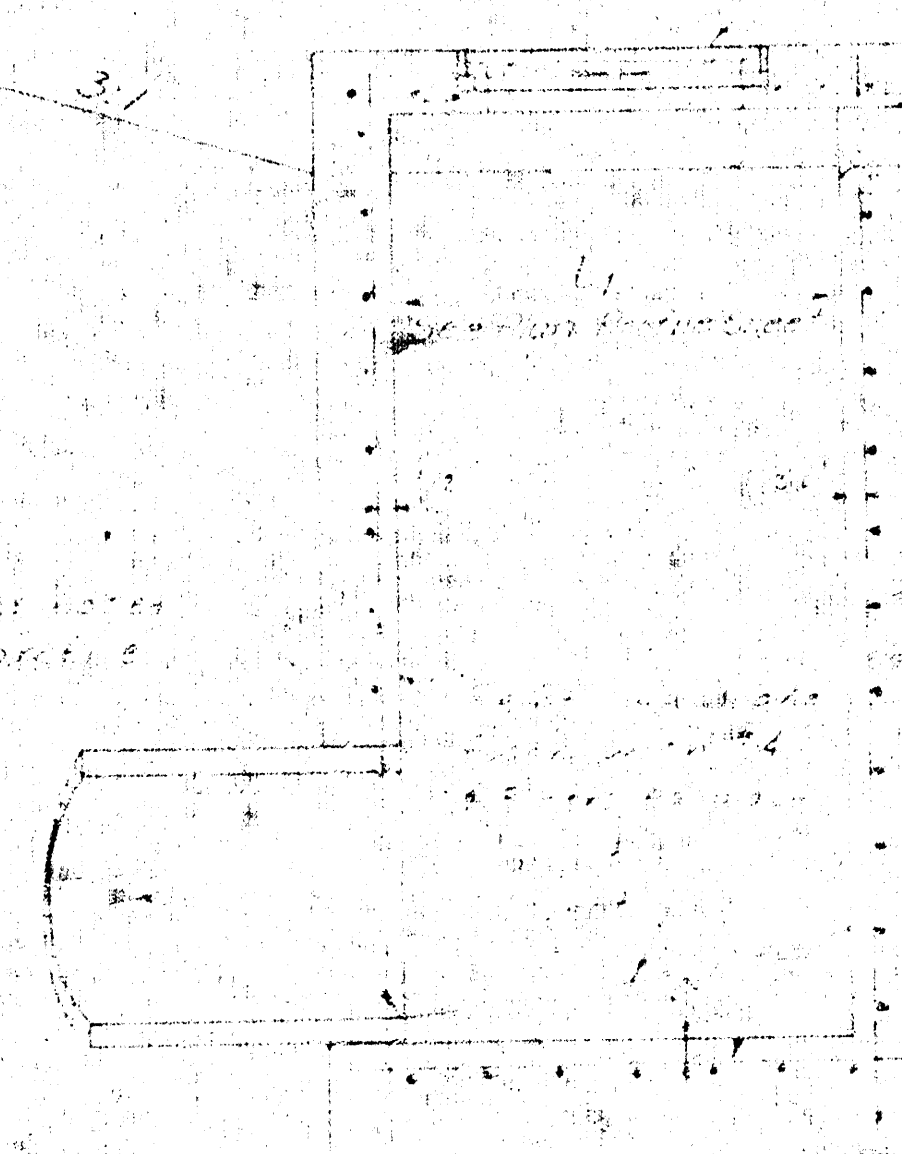
REINFORCED CONCRETE MANHOLE



3' DIA. BRICK EXTENSION

NOTE:
1. All of the above details are for a 4' dia. manhole. For other sizes, the details should be modified accordingly.
2. The concrete should be placed in layers, not more than 4' thick, and consolidated by rodding.
3. The reinforcement should be placed in the concrete before it is poured.

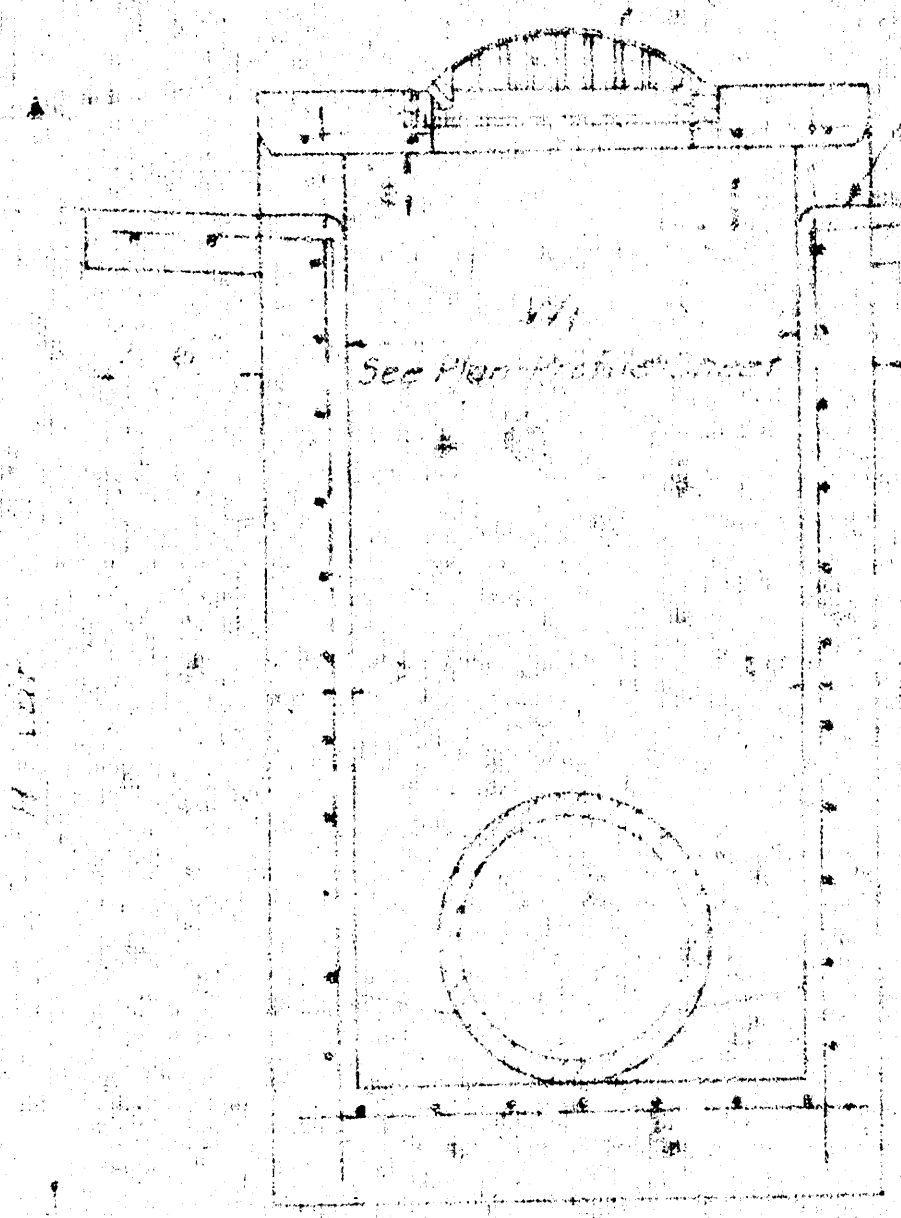
SECTION C-C for DITCH INLET TYPE I-A



SECTION C-C
INLET I

DITCH INLET TYPE I

SECTION D-D



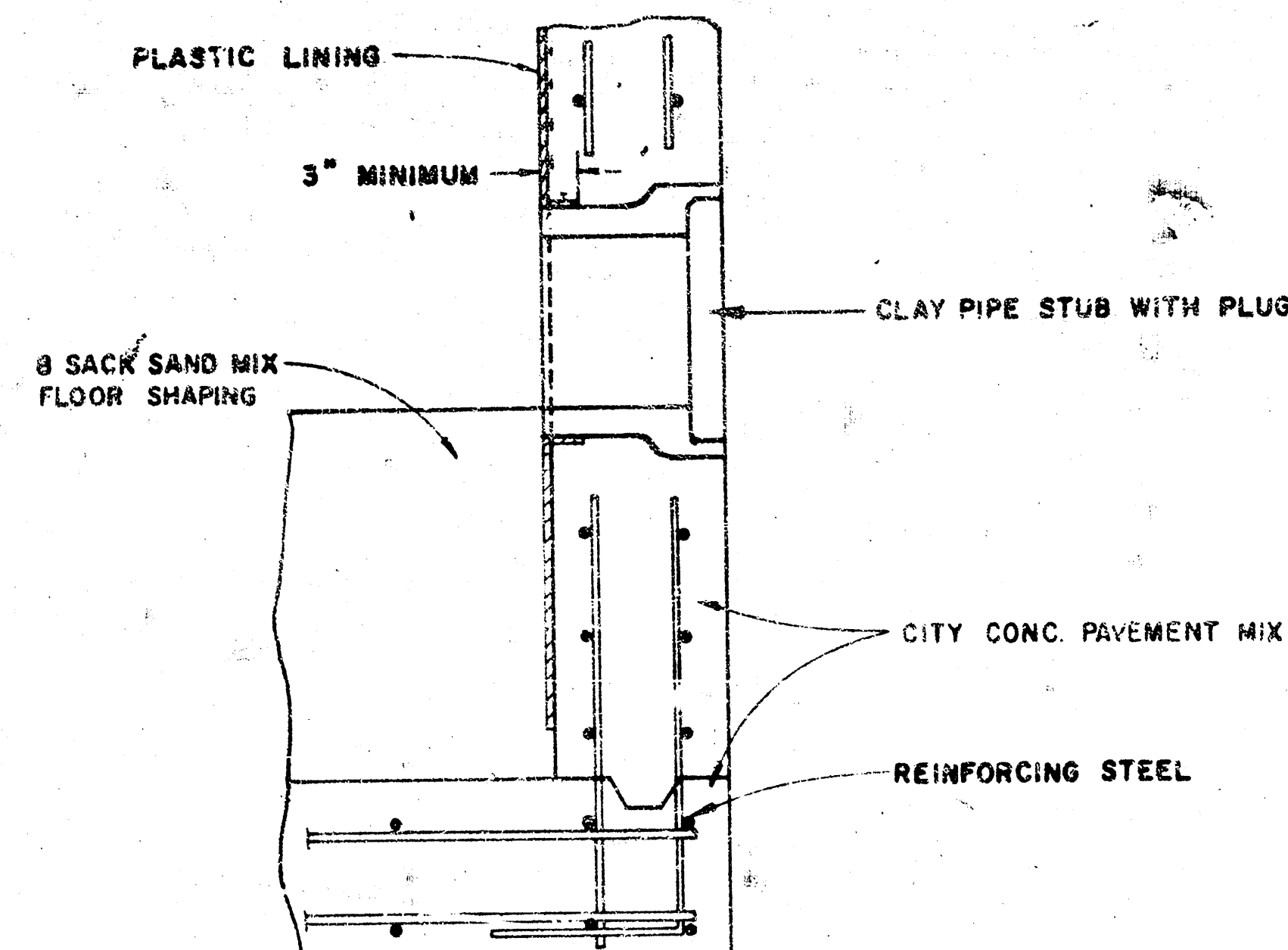
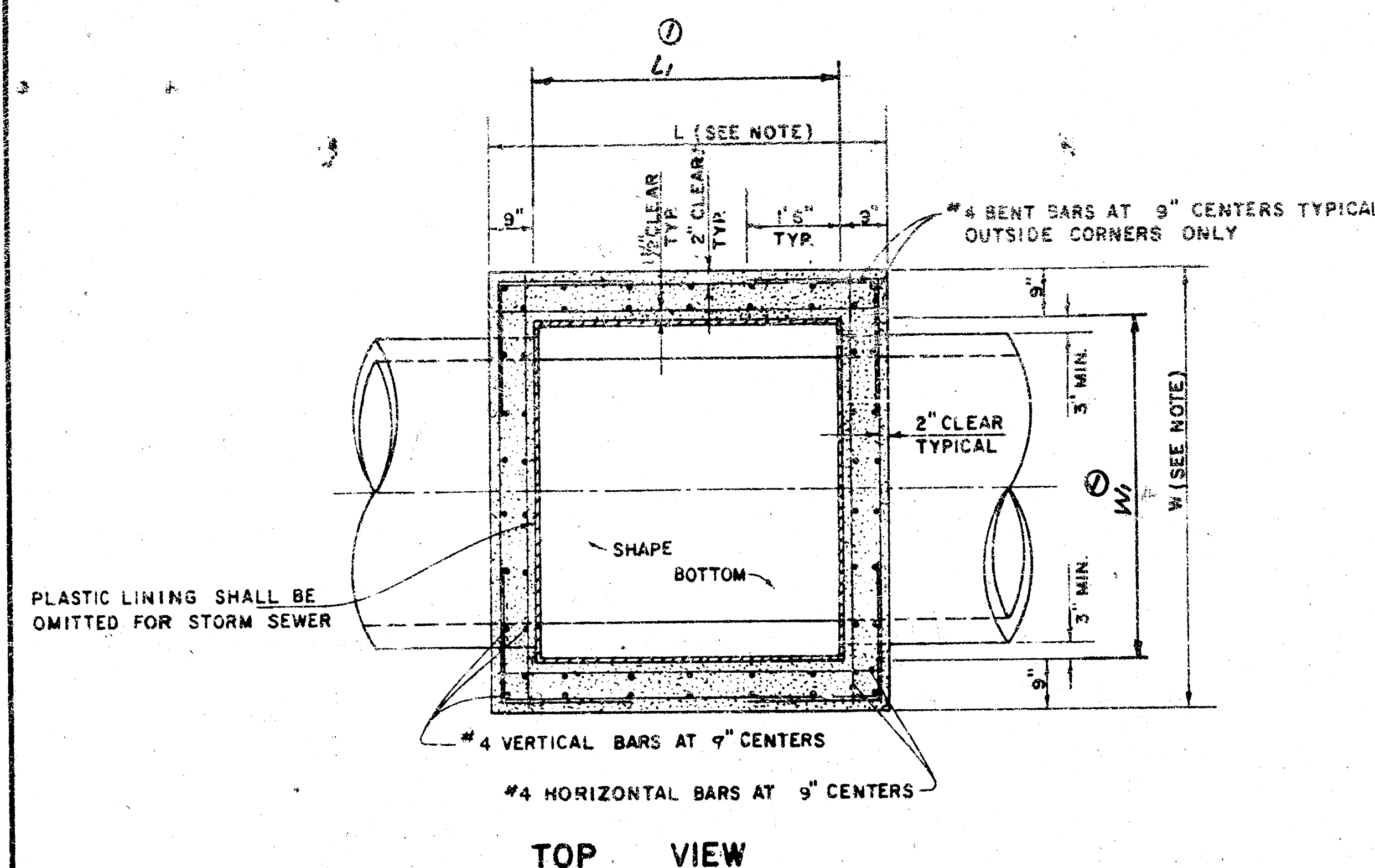
SECTION D-D
Inlet I

DITCH INLET TYPE I-B, I-A AND

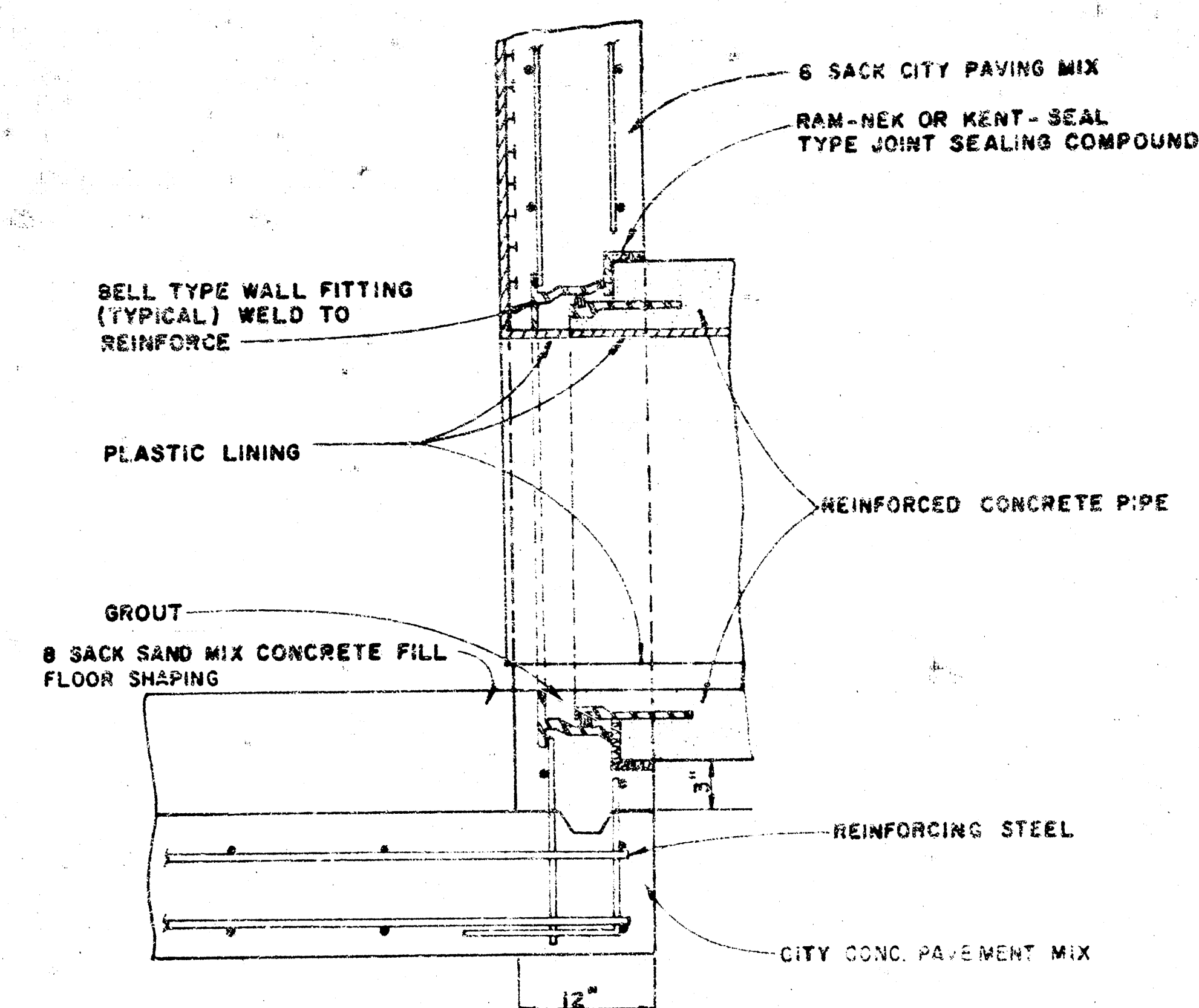
S.W.S. 242

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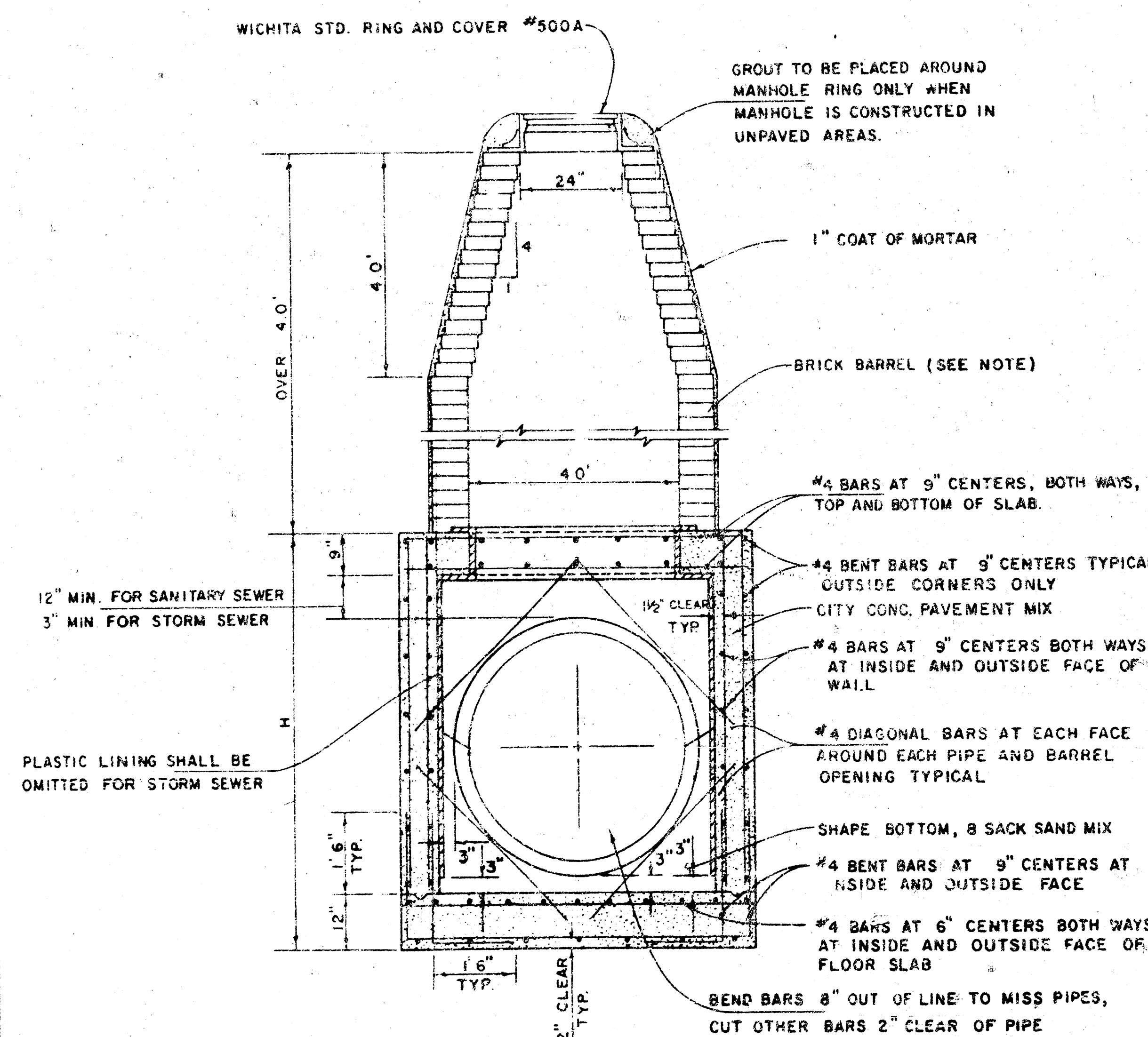
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V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY

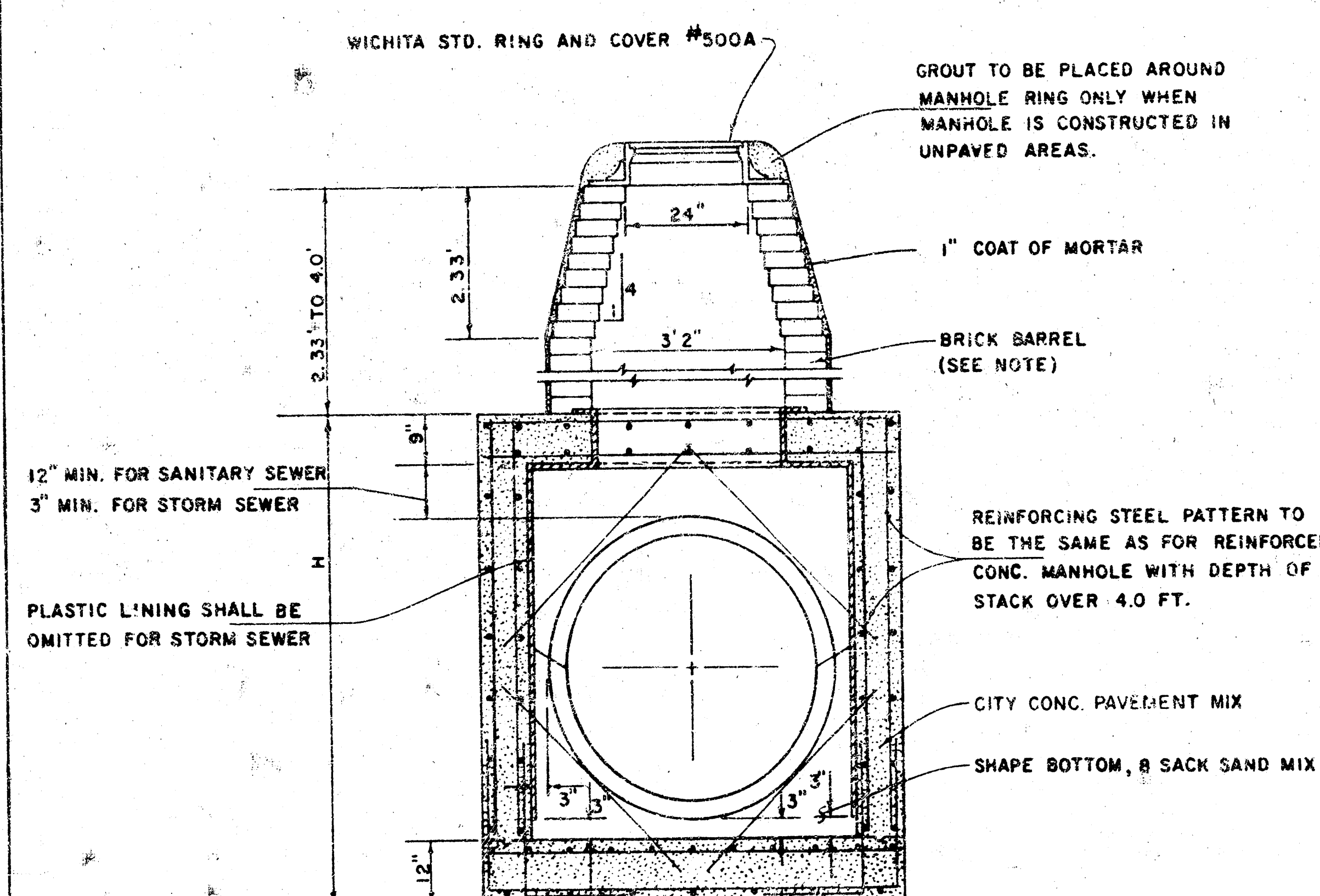


R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'

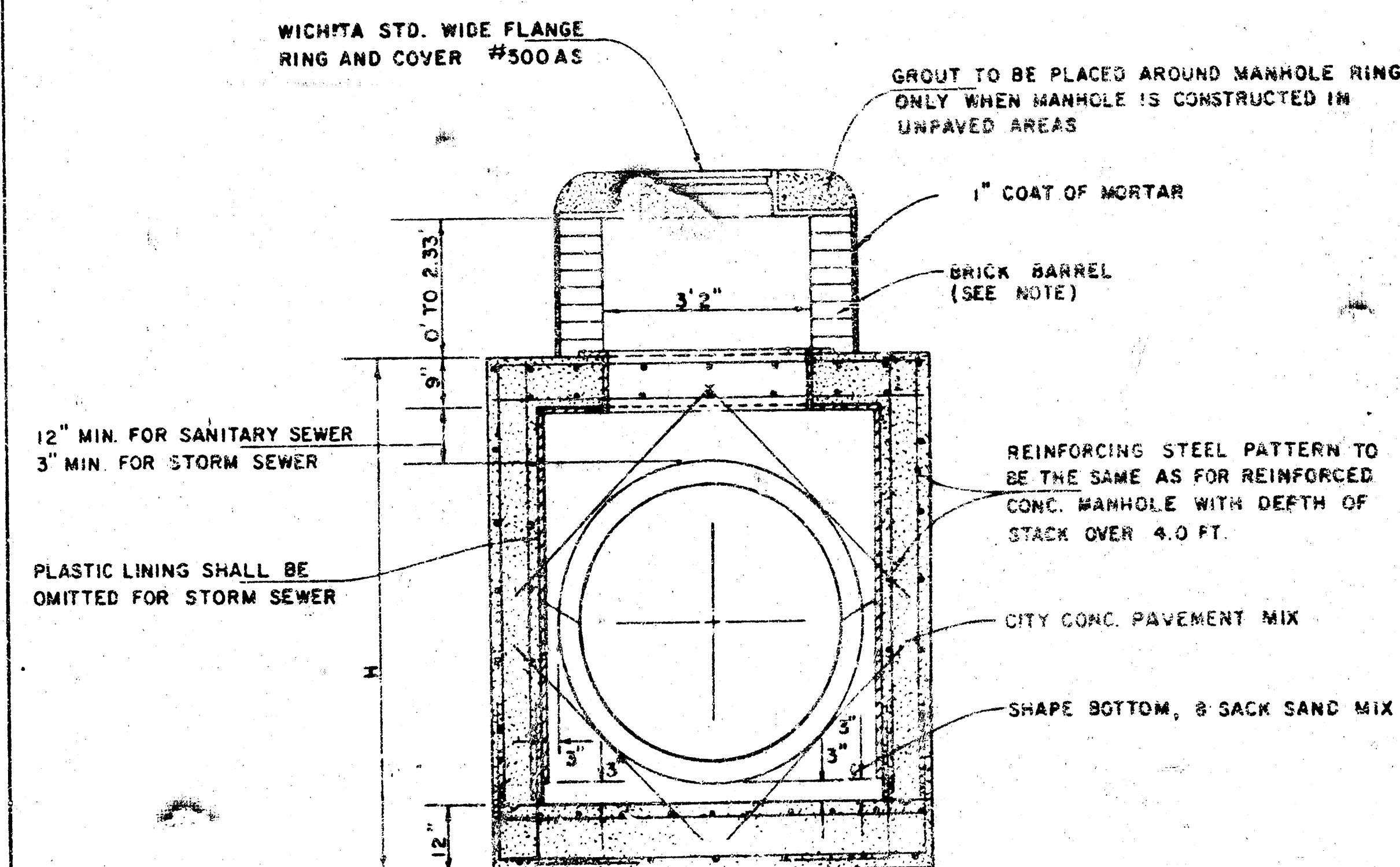
SCALE 1" = 2'



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'

SWS 242

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES

CITY OF WICHITA

APRIL 1978 REV. FOR SWS 242 8/8
REVISED APRIL 1980

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