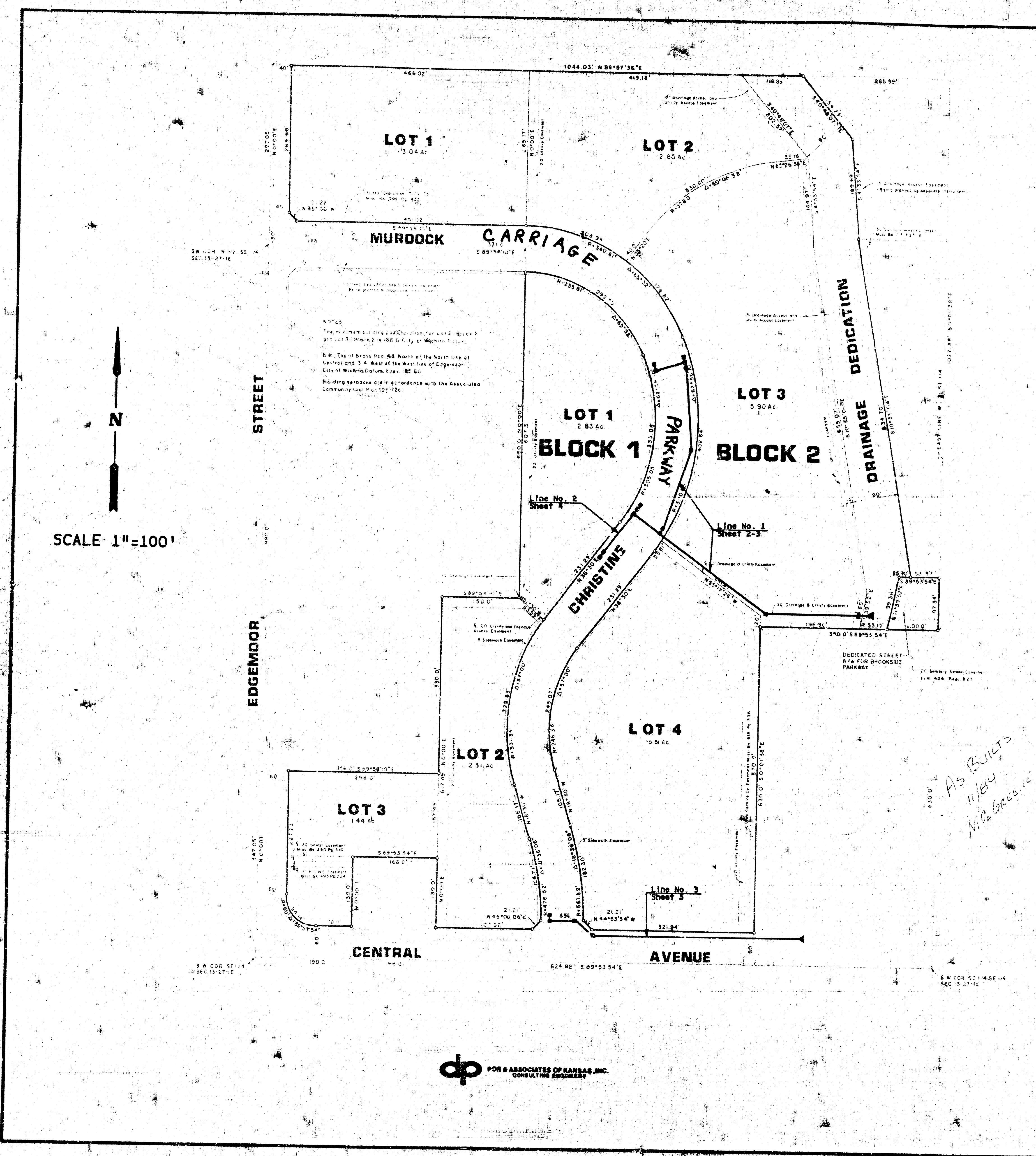




STORM WATER SEWER
CENTRAL AVENUE PLAZA

CITY OF WICHITA

M.E. LINDEBAK, CITY ENGINEER

PROJECT NO. 468-76-245-80000-000-000-008

DATE: AUGUST 1983

TABLE OF CONTENTS

COVER SHEET-----	SHEET 1
PLAN AND PROFILES-----	SHEETS 2-5
TYPE 1-A INLET-----	SHEET 6
RC MANHOLE-----	SHEET 7
HEADWALL FOR 36" PIPE---	SHEET 8
HEADWALL FOR 42" PIPE---	SHEET 9

GENERAL NOTES

1. Contractor shall coordinate work with Paving and Sanitary Contractors, and contact relevant Utility Companies and other Agencies involved with this project.
2. The tops of Inlets as noted on the plans may vary so as to meet proposed top of curb elevations. The Field Engineer shall locate inlets with reference to proposed Paving Plans of the pertinent streets.
3. All concrete shall be "STANDARD PAVING MIX" unless otherwise noted.
4. Erosion protection shall be type III Rip-Rap, Concrete Rip-Rap Bags or 8" Filter Point Revetment Mat. Quantities shown for these items are for the square yards of coverage and do not account for the toe wall required by the City of Wichita Standard Specifications.

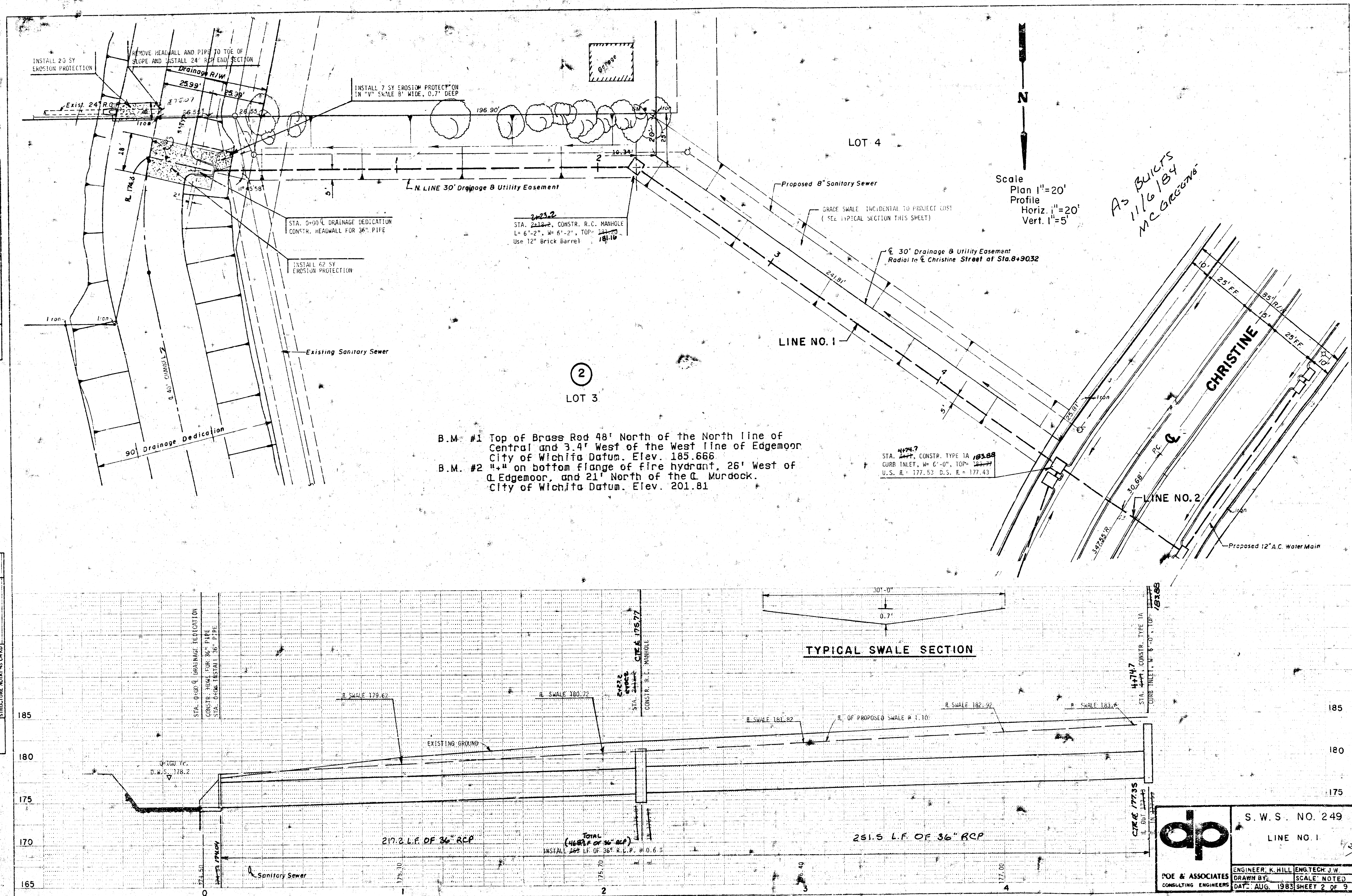
THE CONTRACTOR WILL PROVIDE ALL CONSTRUCTION STAKING ON THIS PROJECT.
ALL EXCESS EXCAVATION FROM THE CONSTRUCTION OF THIS PROJECT SHALL BE STOCKPILED ON THE REAR OF LOT 3, BLOCK 2 AT THE DIRECTION OF THE OWNER.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPER 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.

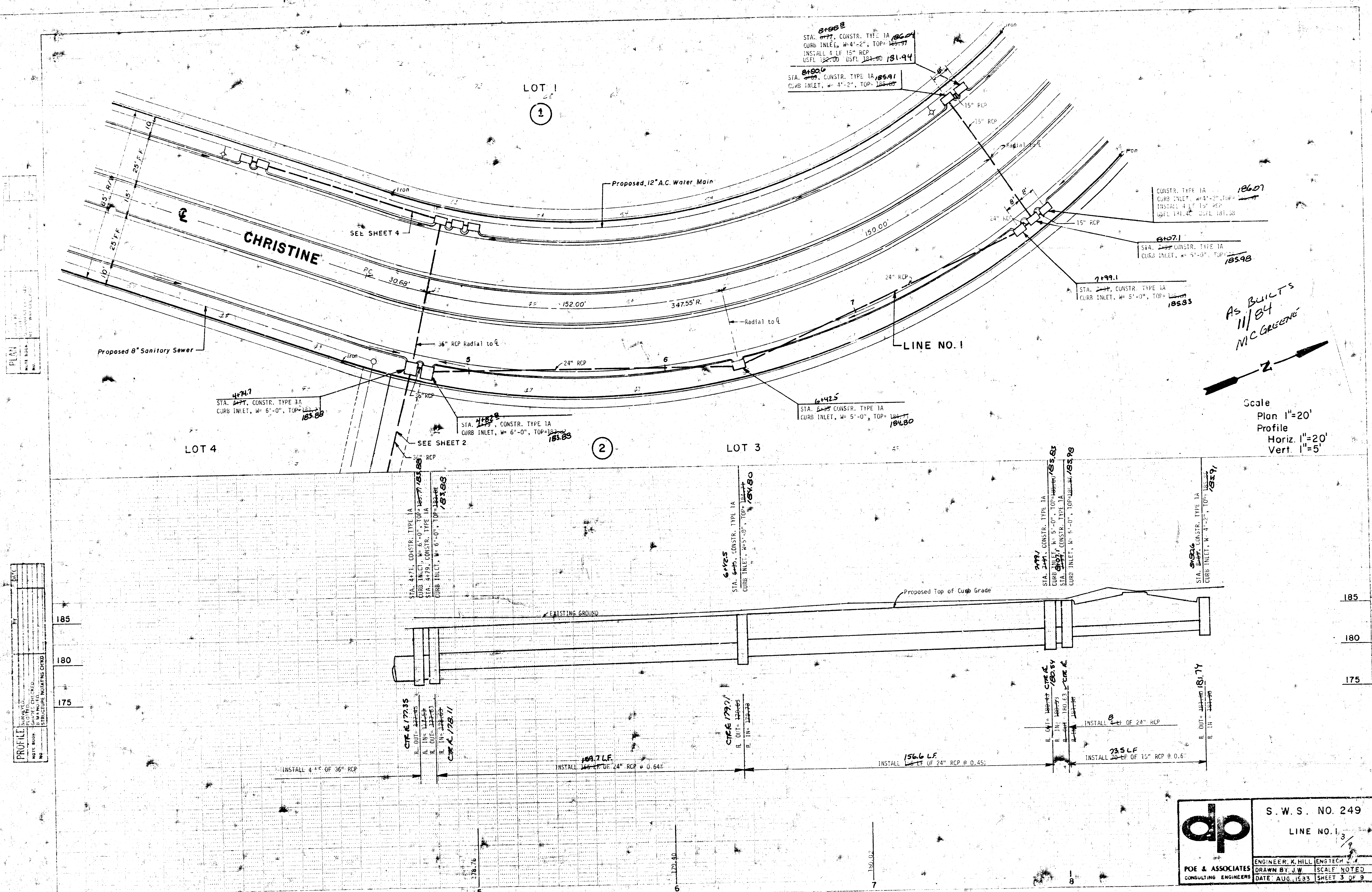


FOR & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS

FILMED FROM THE BEST

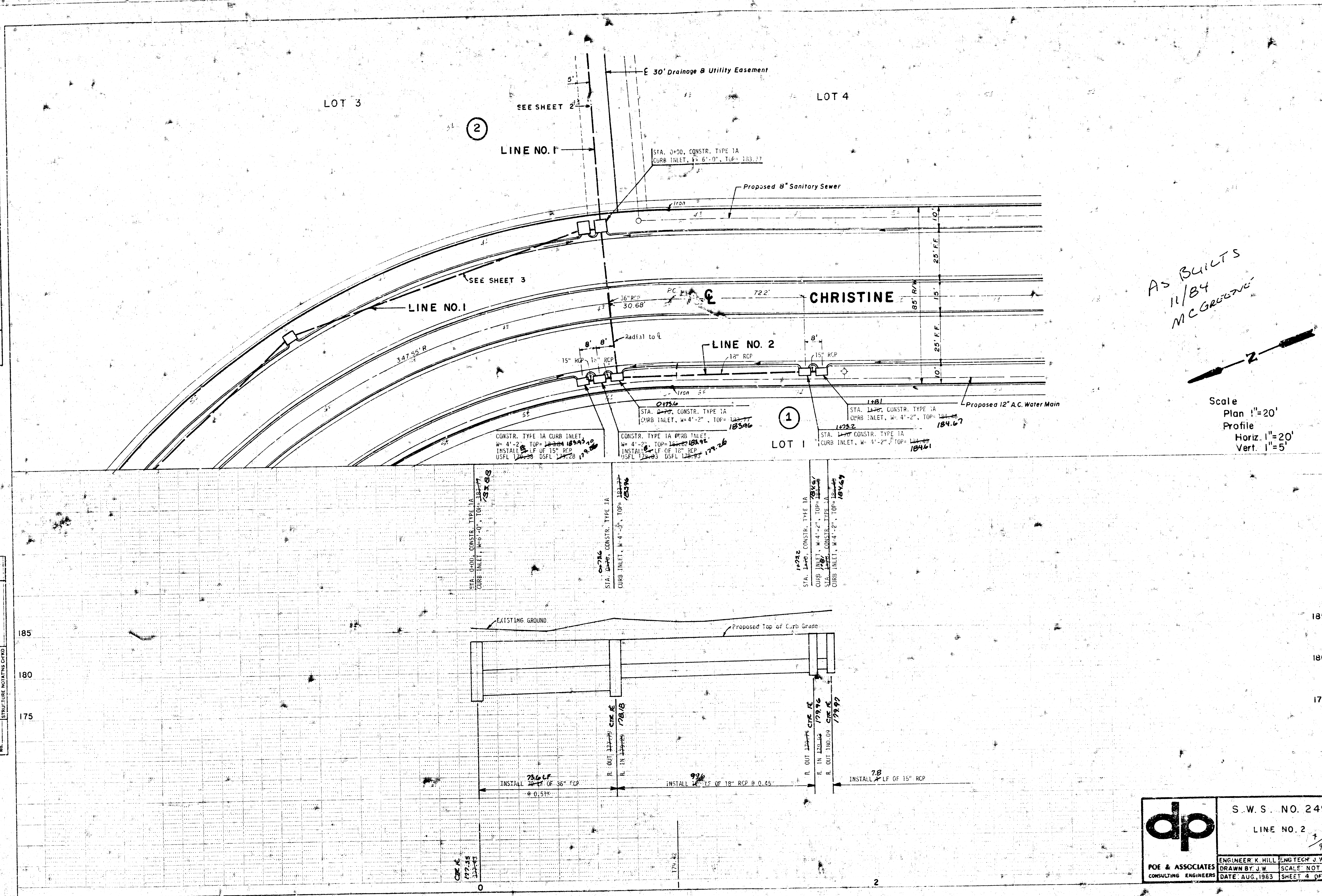
PROFILE	NOTE BOOK NO.	SURVEYED	BY	DATE
PLOTTED				
B. M. NOTED				



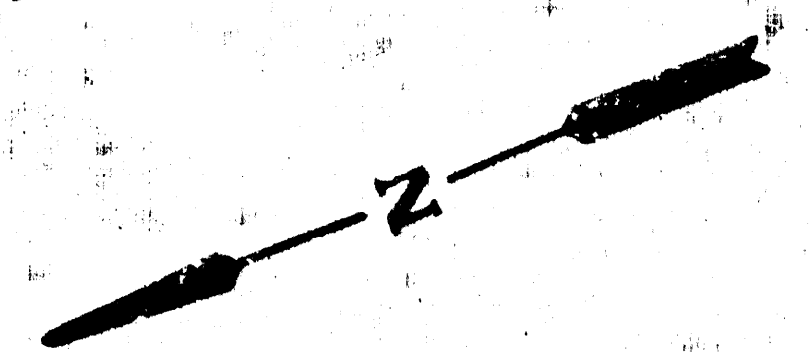


PLAN	DATE
SURVEYED	BY
ALIGNED	BY
NOTED	BY
NO.	

PROFILE	DATE
SURVEYED	BY
ALIGNED	BY
NOTED	BY
NO.	



AS BUILT
11/84
MCGEE



Scale
Plan 1"=20'
Profile
Horiz. 1"=20'
Vert. 1"=5'

P.O.E. & ASSOCIATES
CONSULTING ENGINEERS

S.W.S. NO. 249

LINE NO. 2

ENGINEER: K. HILL

DRAWN BY: J.W.

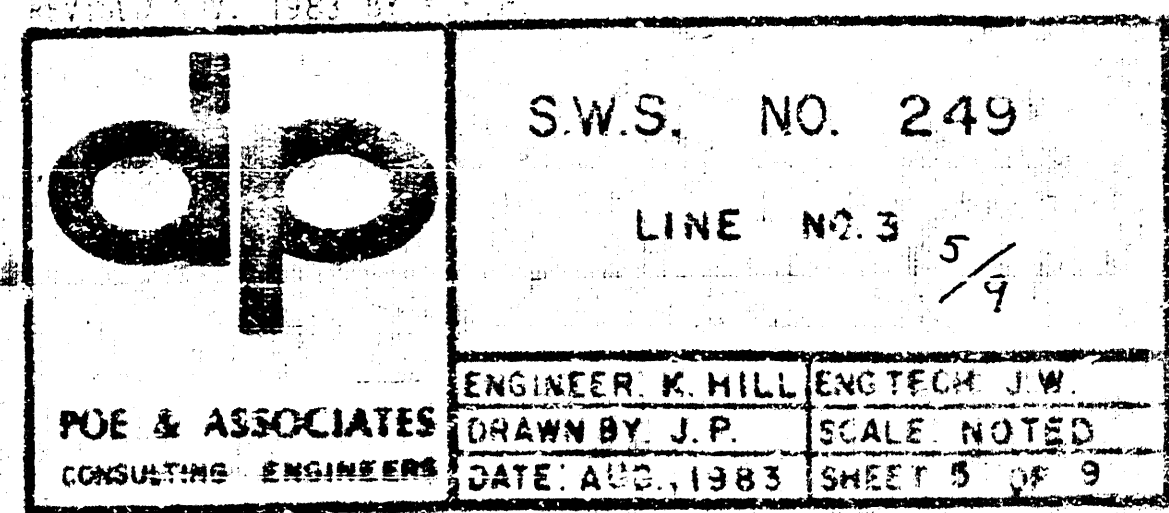
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SCALE: NOTED

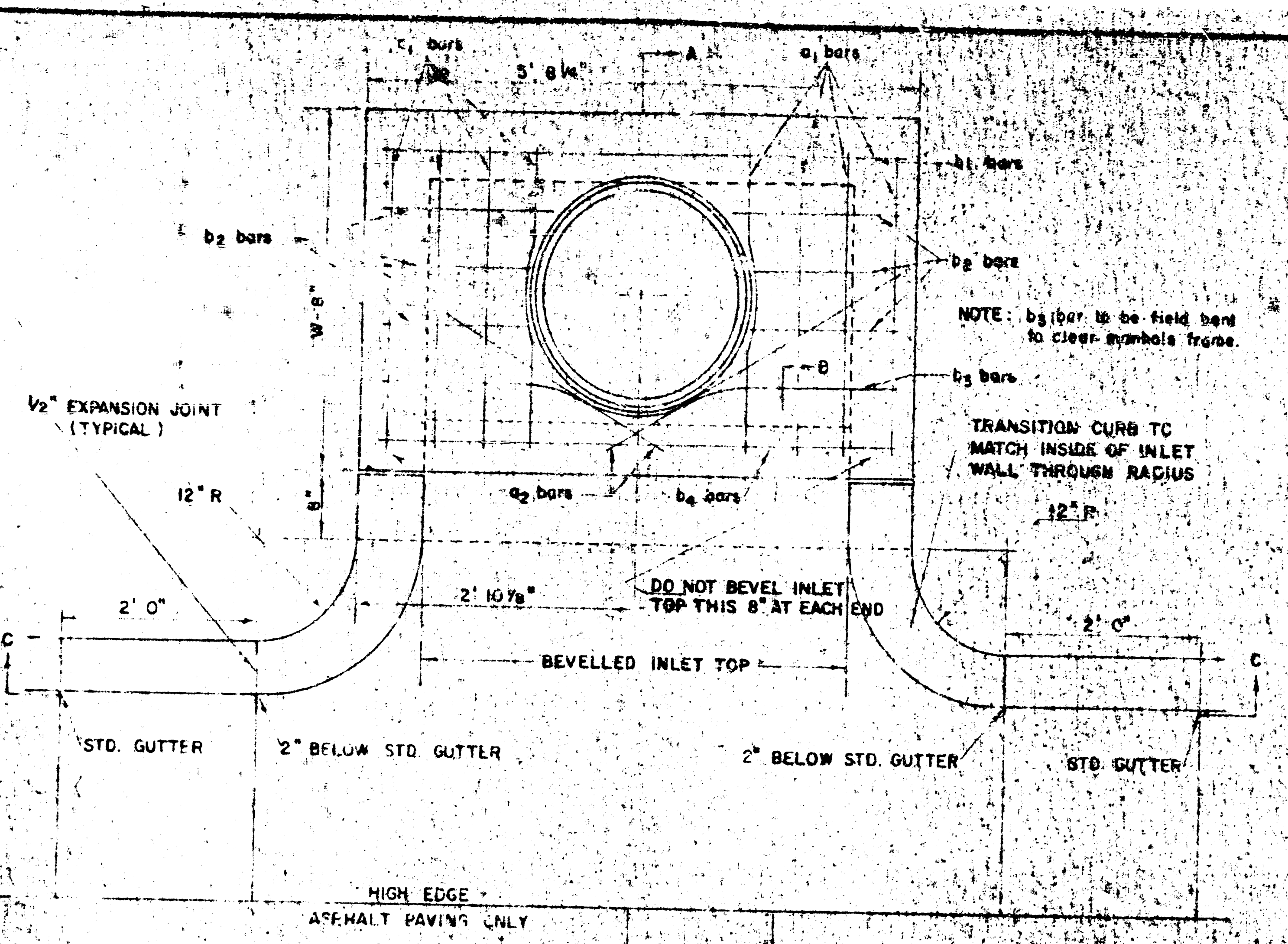
SHEET 4 OF 9

FILMED FROM THE BEST AVAILABLE COPY

PROFILE DATE BOOK	SURVEYED PLOTTED GRADES CHECKED B. M.'S NOTED		BY	DATE
	(Blank area for notes or additional information)			



AS BUILT
11/84
MCGRENE



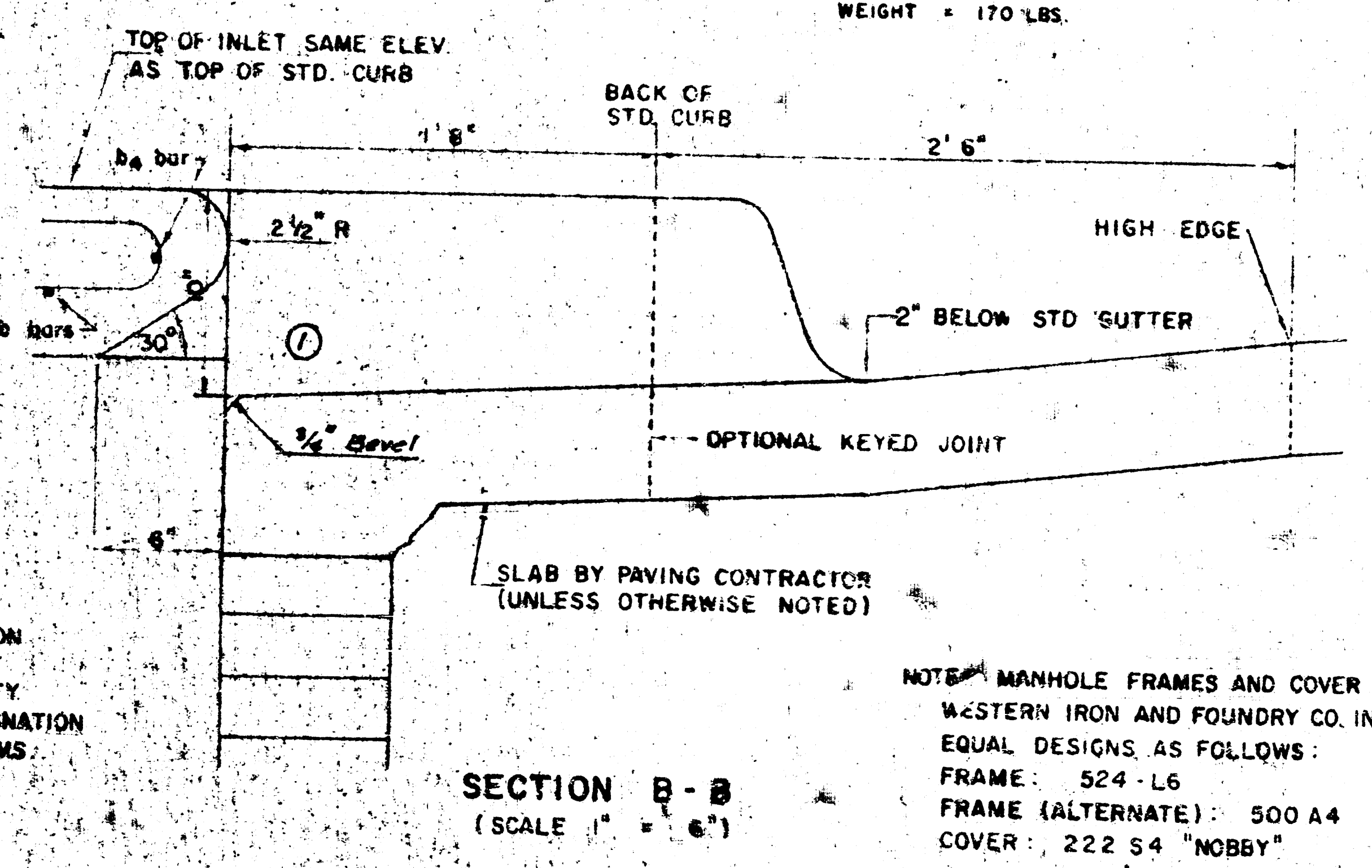
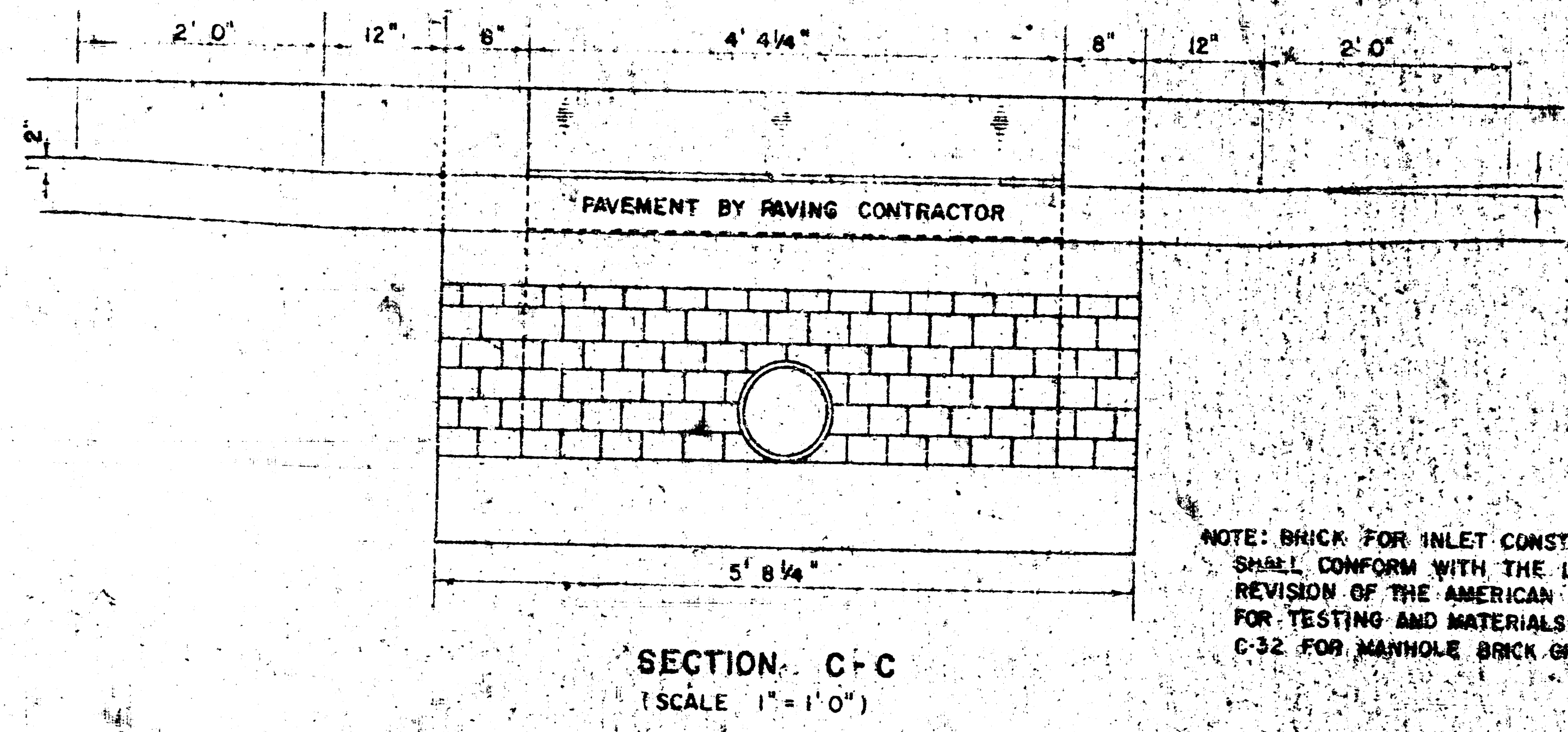
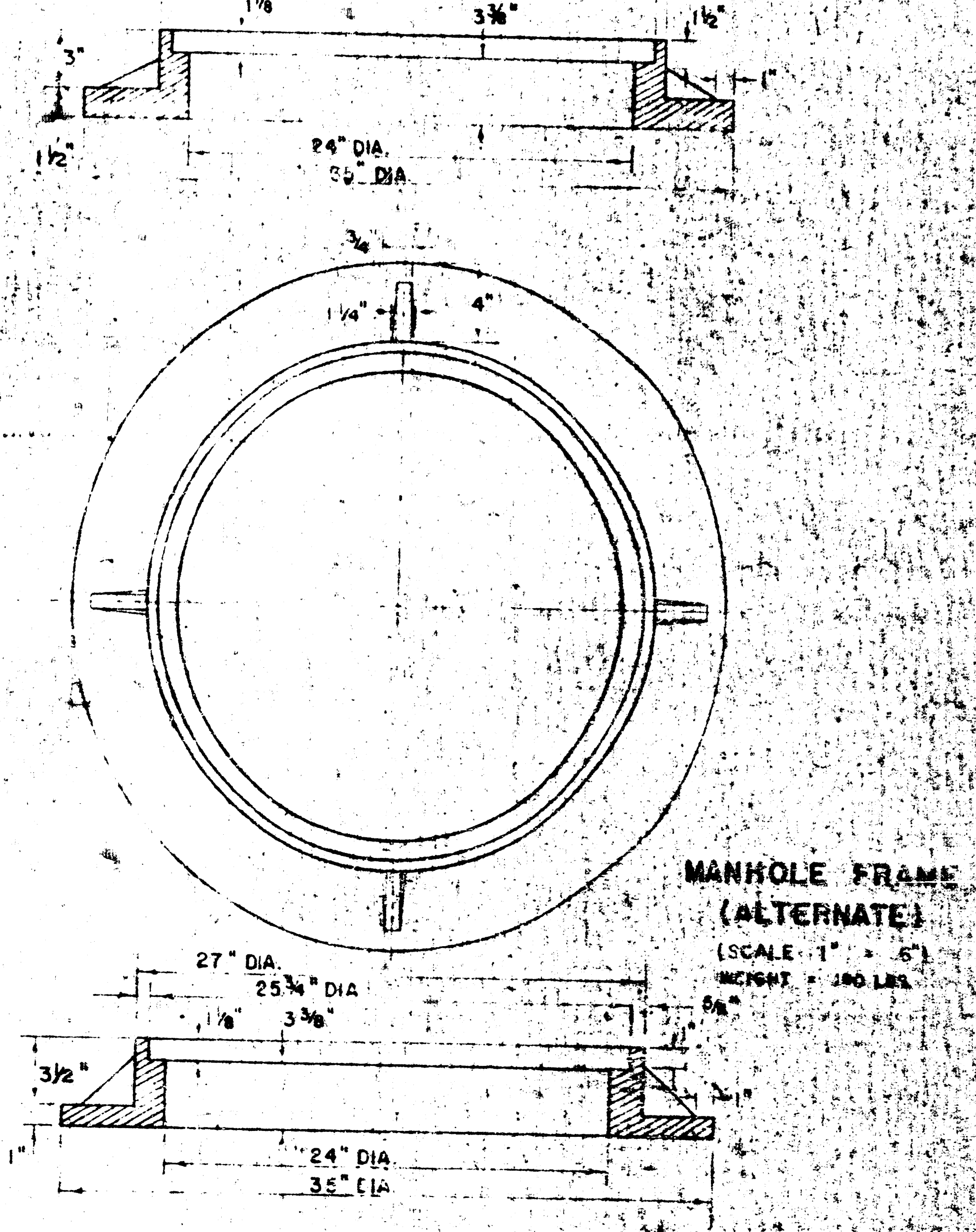
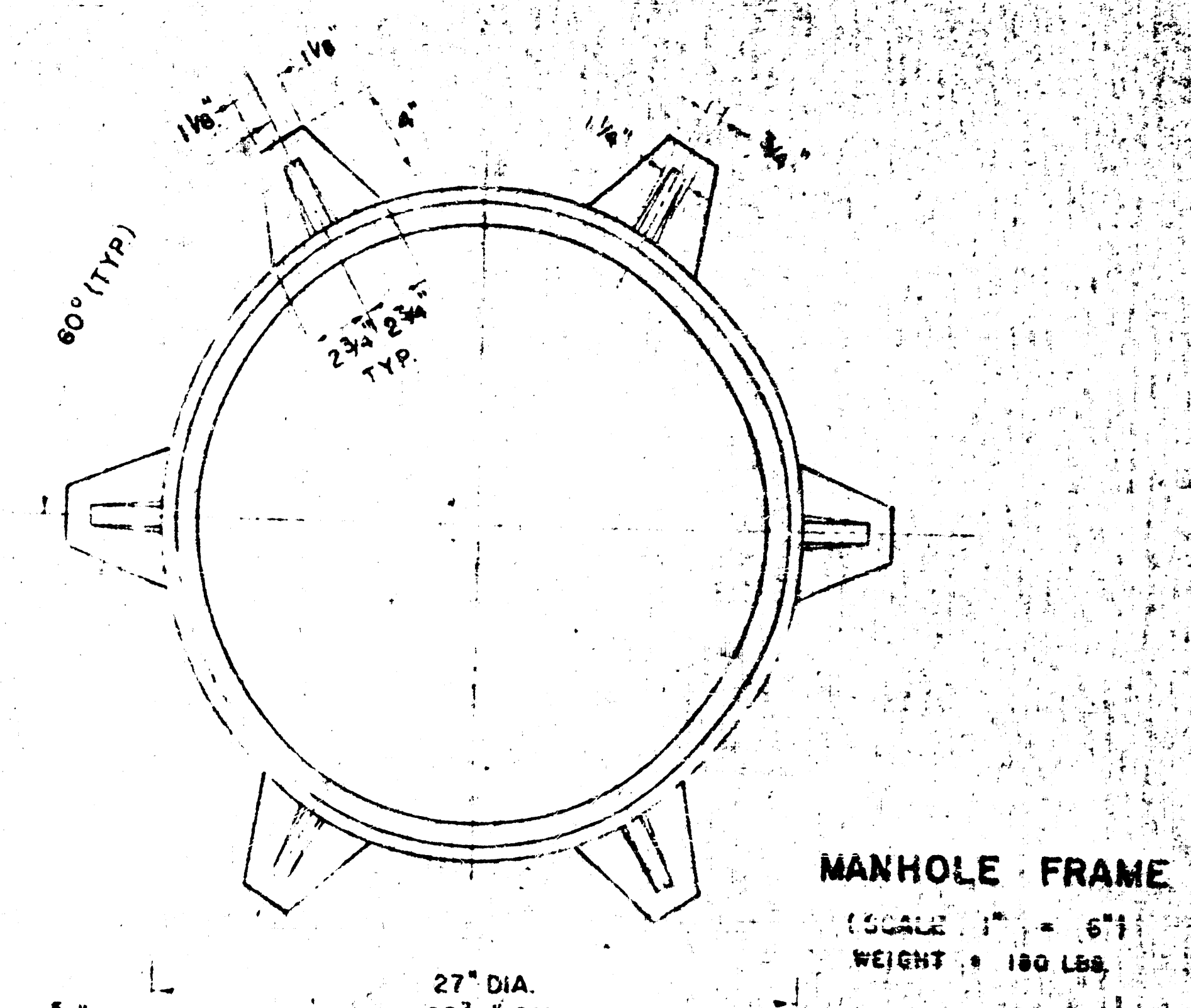
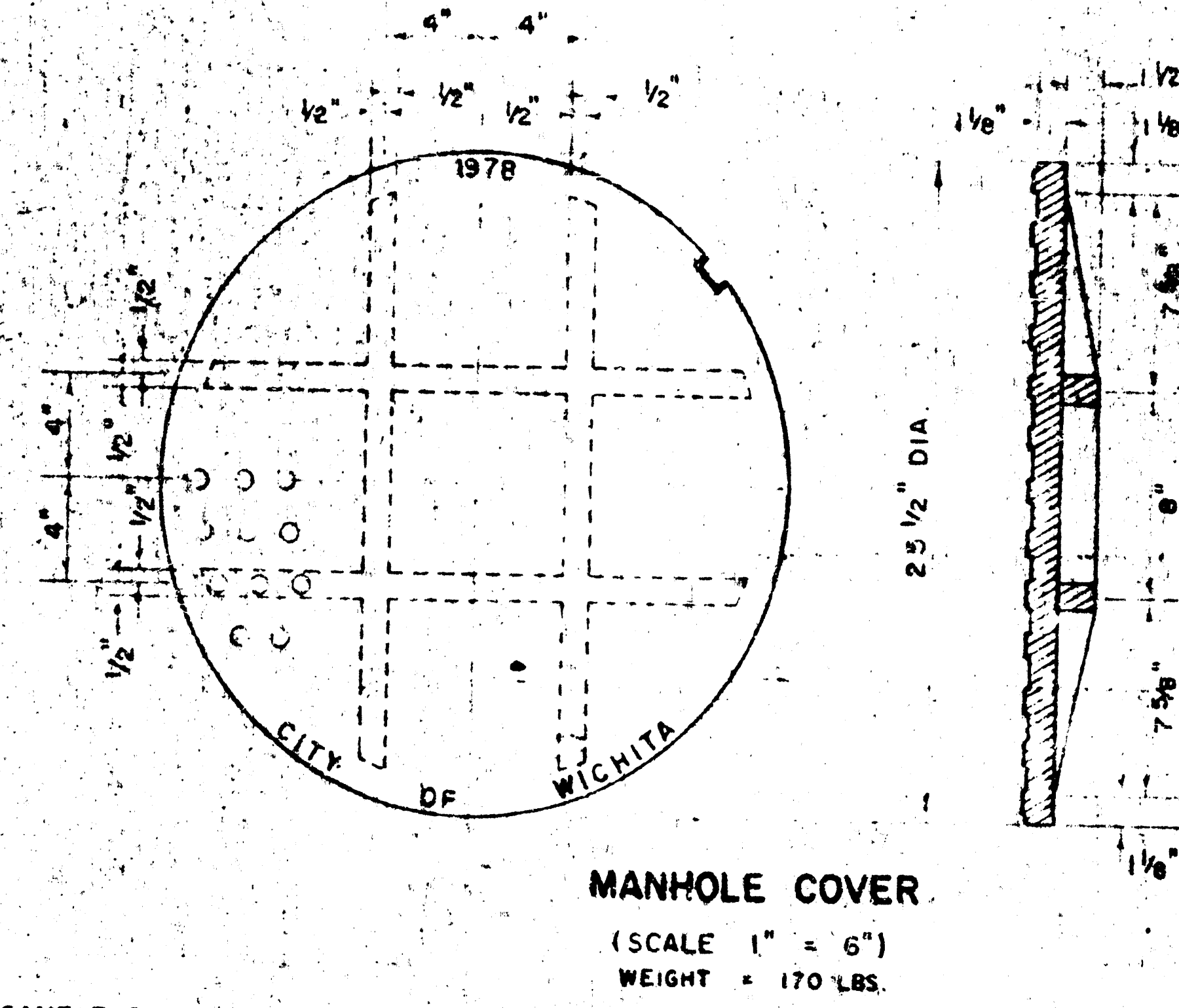
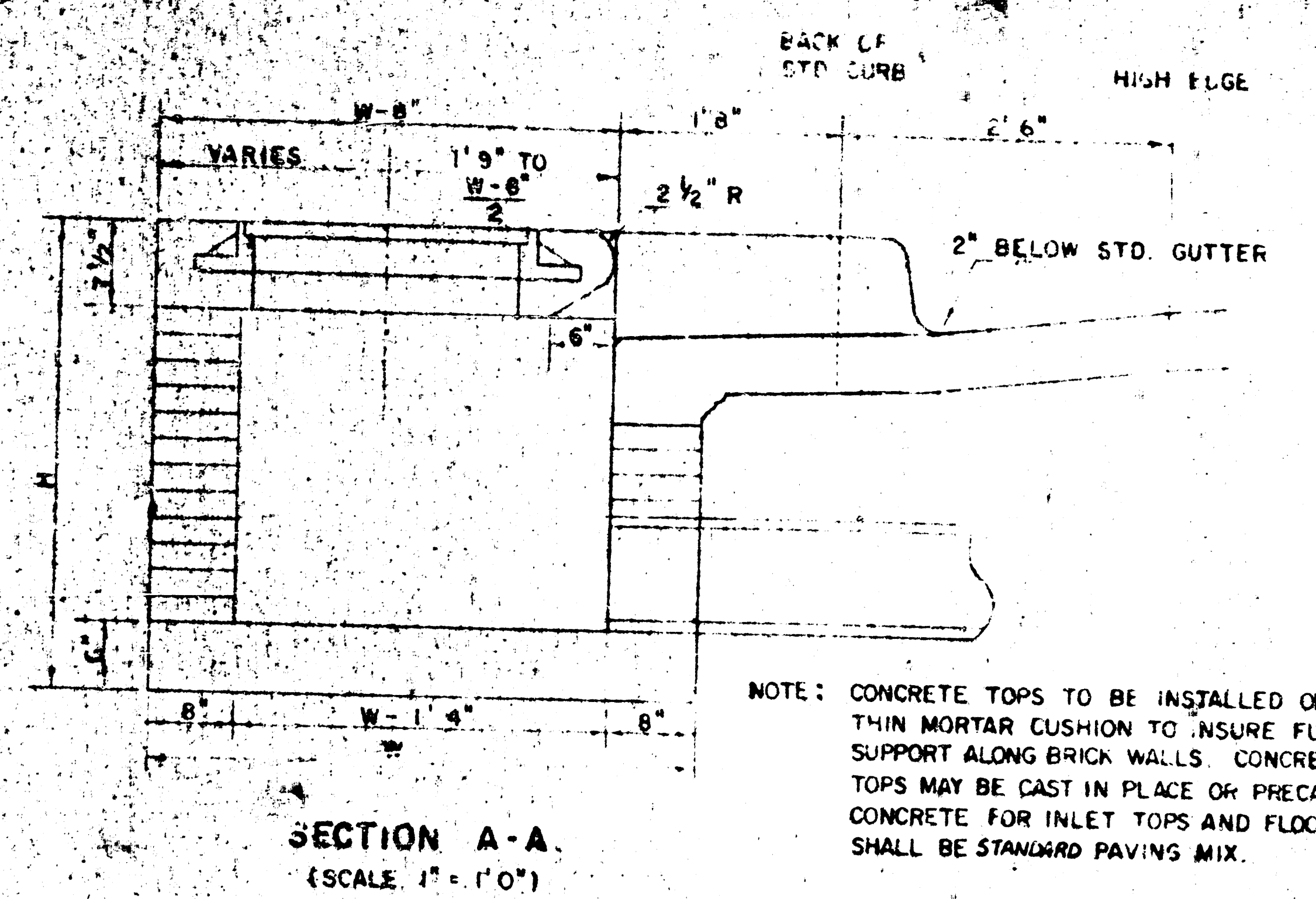
STEEL SCHEDULE

BAR NUMBER	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
1	2	1	3	5	7	9	6
2	4	4	4	4	4	4	4
3	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4
5	4	4	4	4	4	4	4
6	4	4	4	4	4	4	4
7	4	4	4	4	4	4	4
8	4	4	4	4	4	4	4
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14	4	4	4	4	4	4	4
15	4	4	4	4	4	4	4
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98	4	4	4	4	4	4	4
99	4	4	4	4	4	4	4
100	4	4	4	4	4	4	4

BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36" x 54" x 7 1/2"	21" & SMALLER	0.46 *
5' 0"	44" x 66" x 7 1/2"	24" & 30"	0.57 *
6' 0"	54" x 84" x 7 1/2"	36" & 42"	0.71 *
7' 0"	64" x 96" x 7 1/2"	48" & 54"	0.84 *
8' 0"	74" x 108" x 7 1/2"	60" & 66"	0.97 *

* GROSS VOLUME

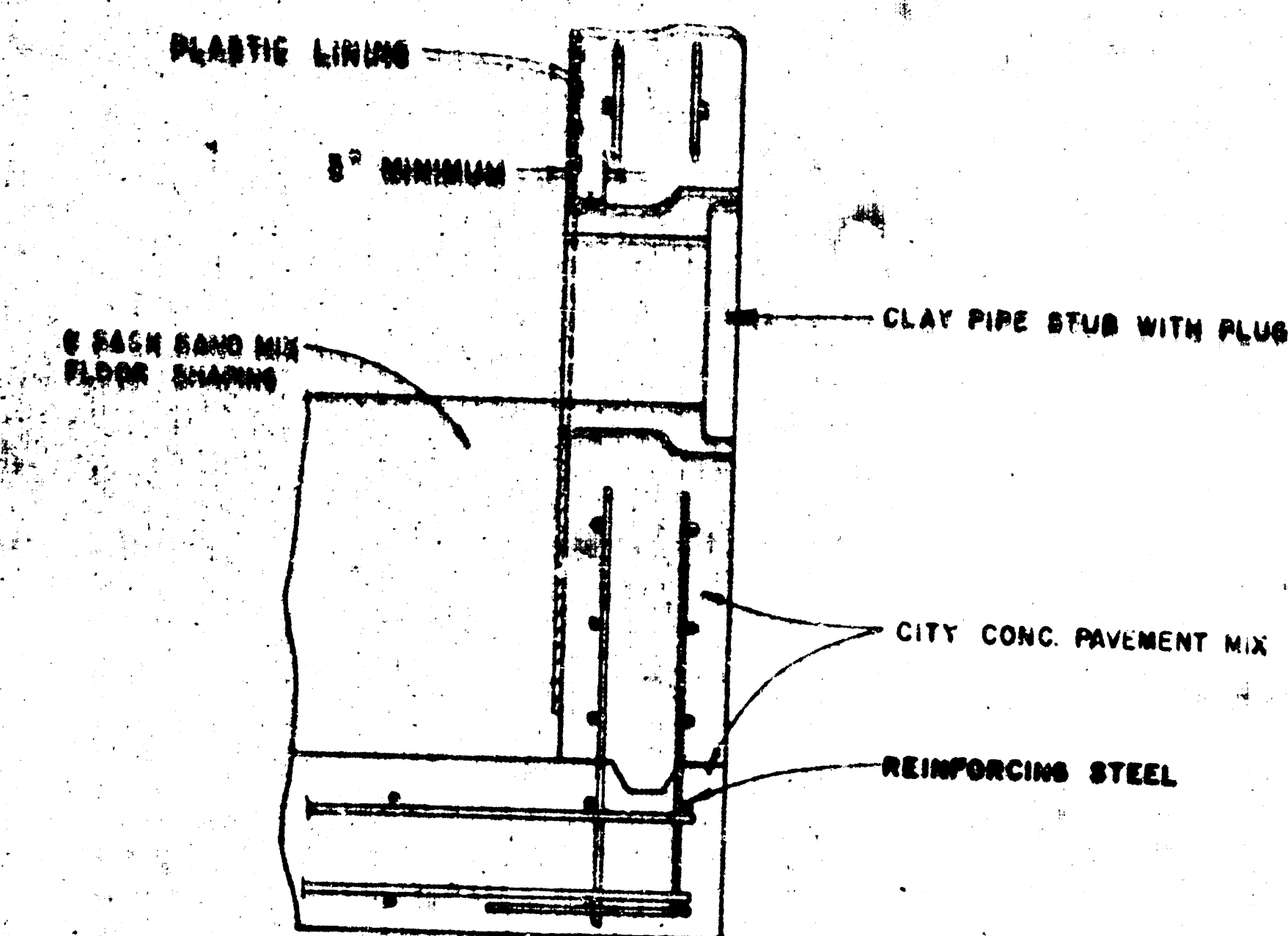
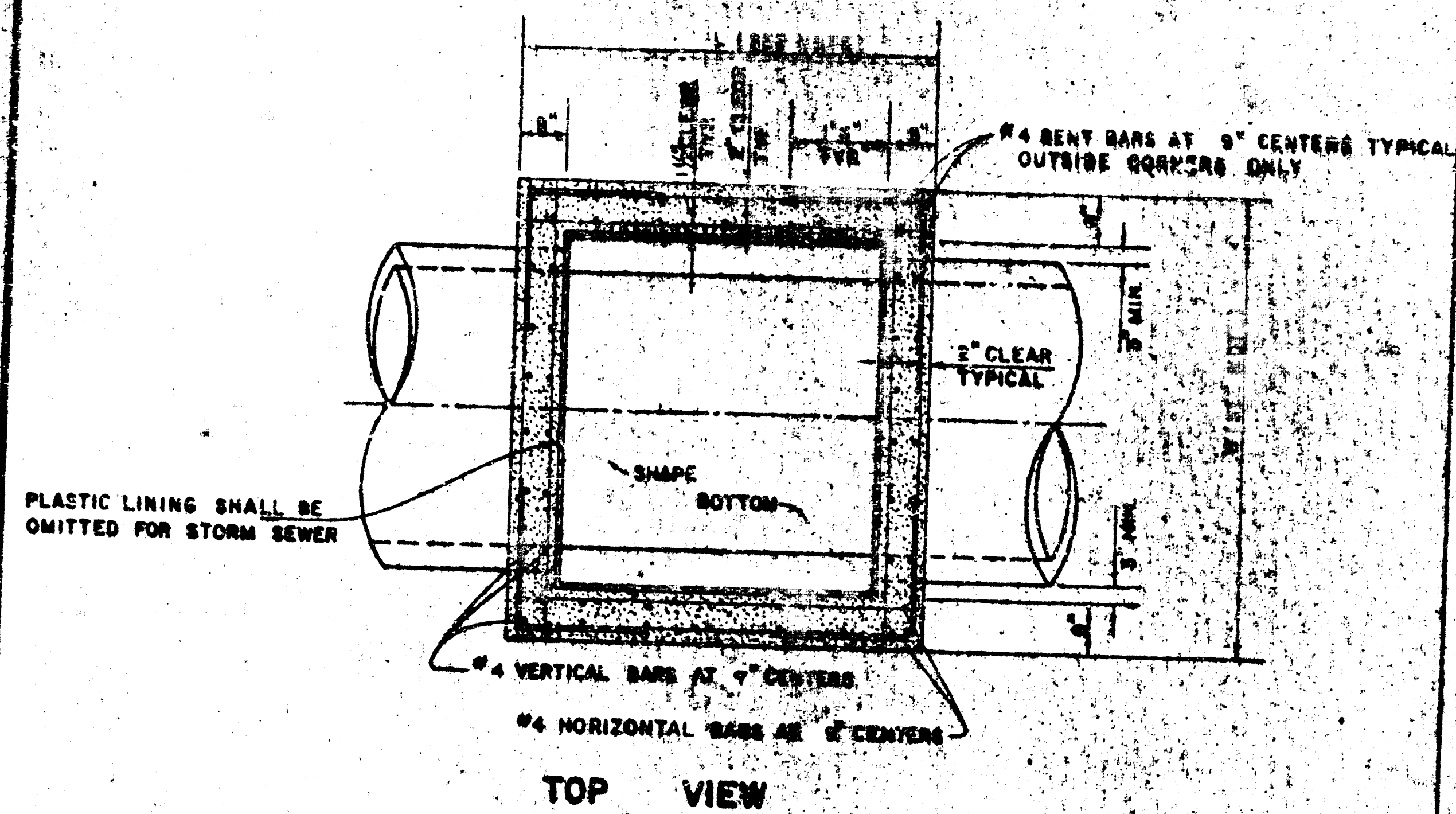


Rev. 8-10-53
Rev. 3-12-61 S.W.S. NO. 249

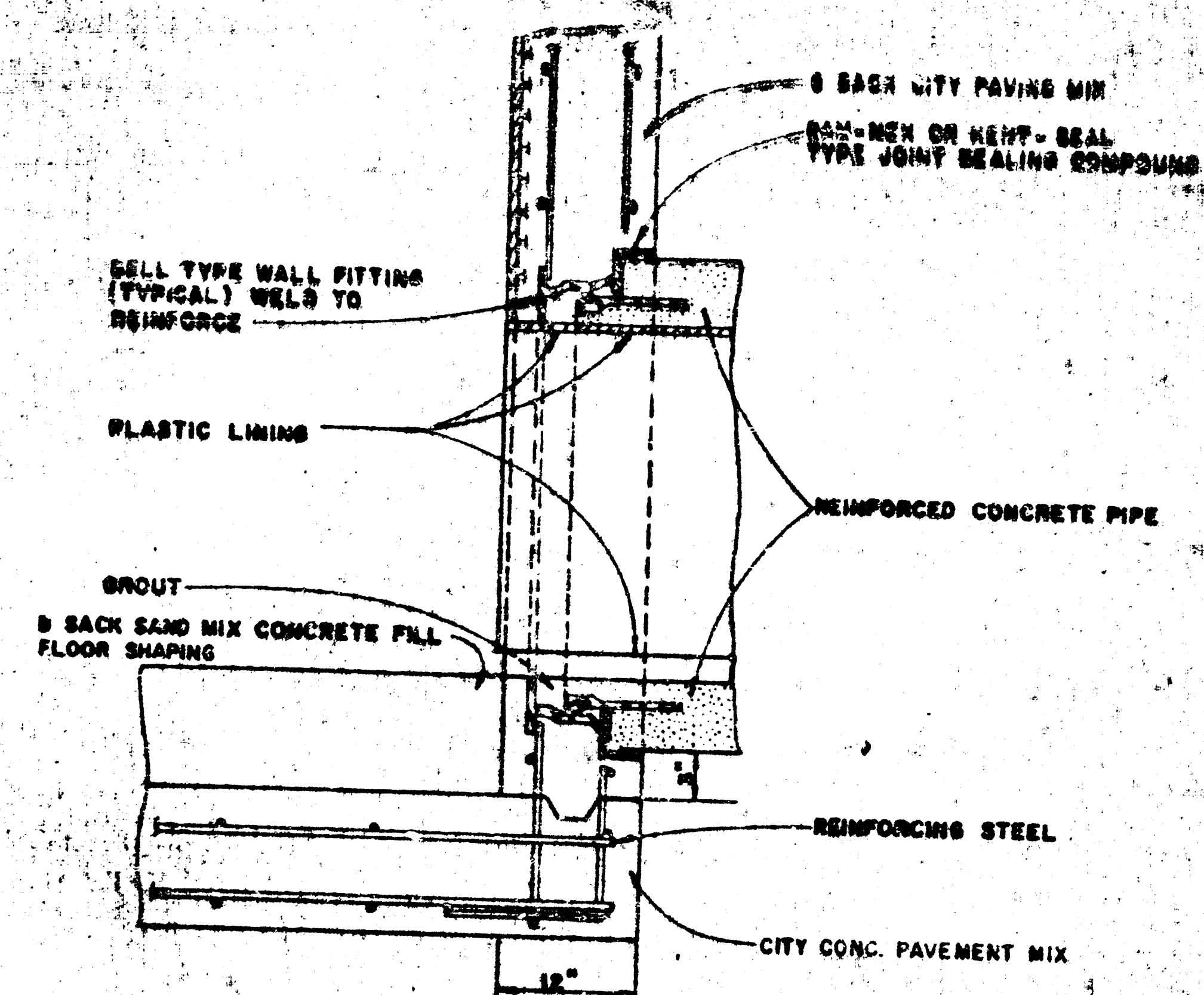
DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS

M.E. LINDEBAK, CITY ENGINEER
JUNE, 1961

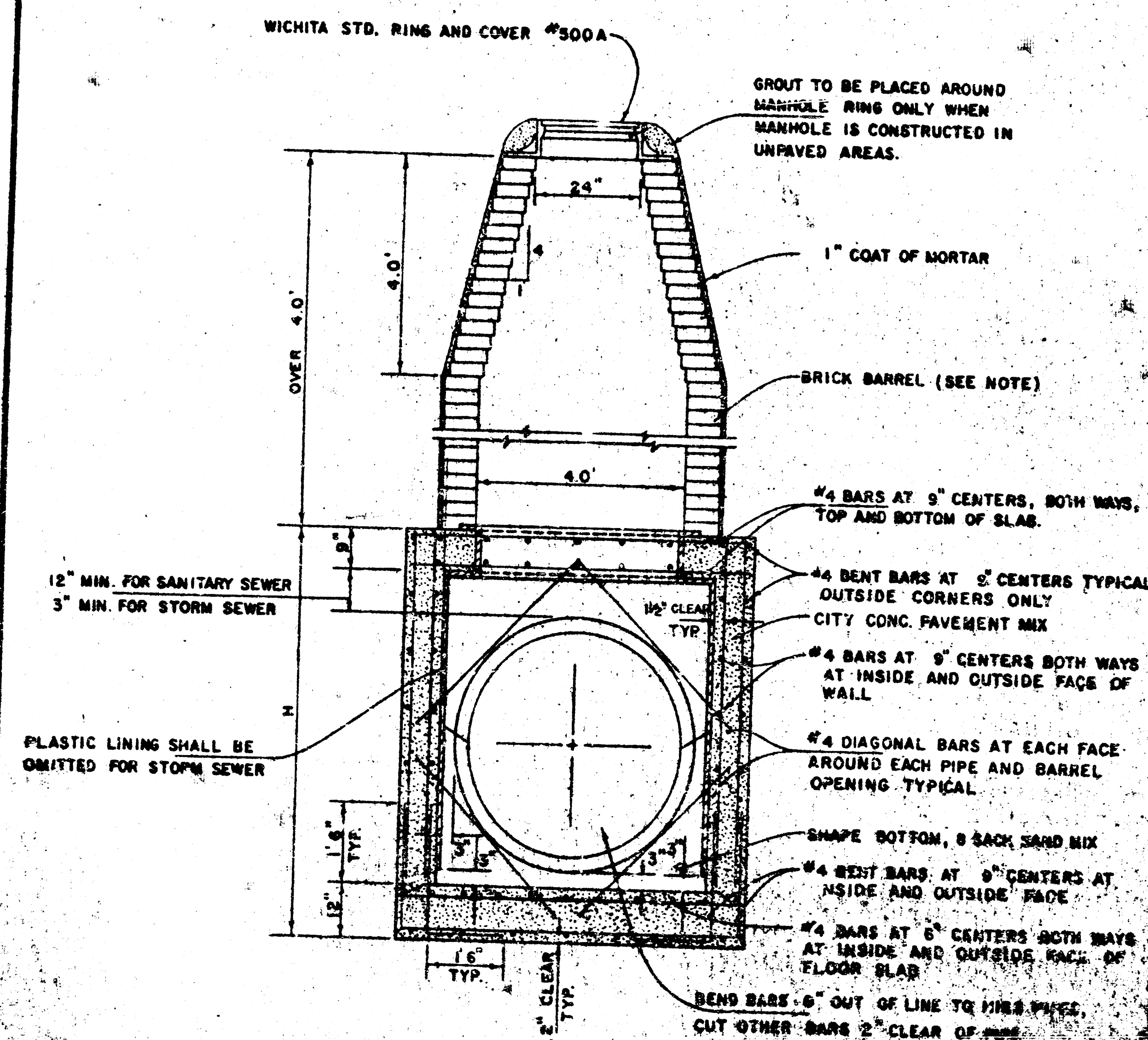
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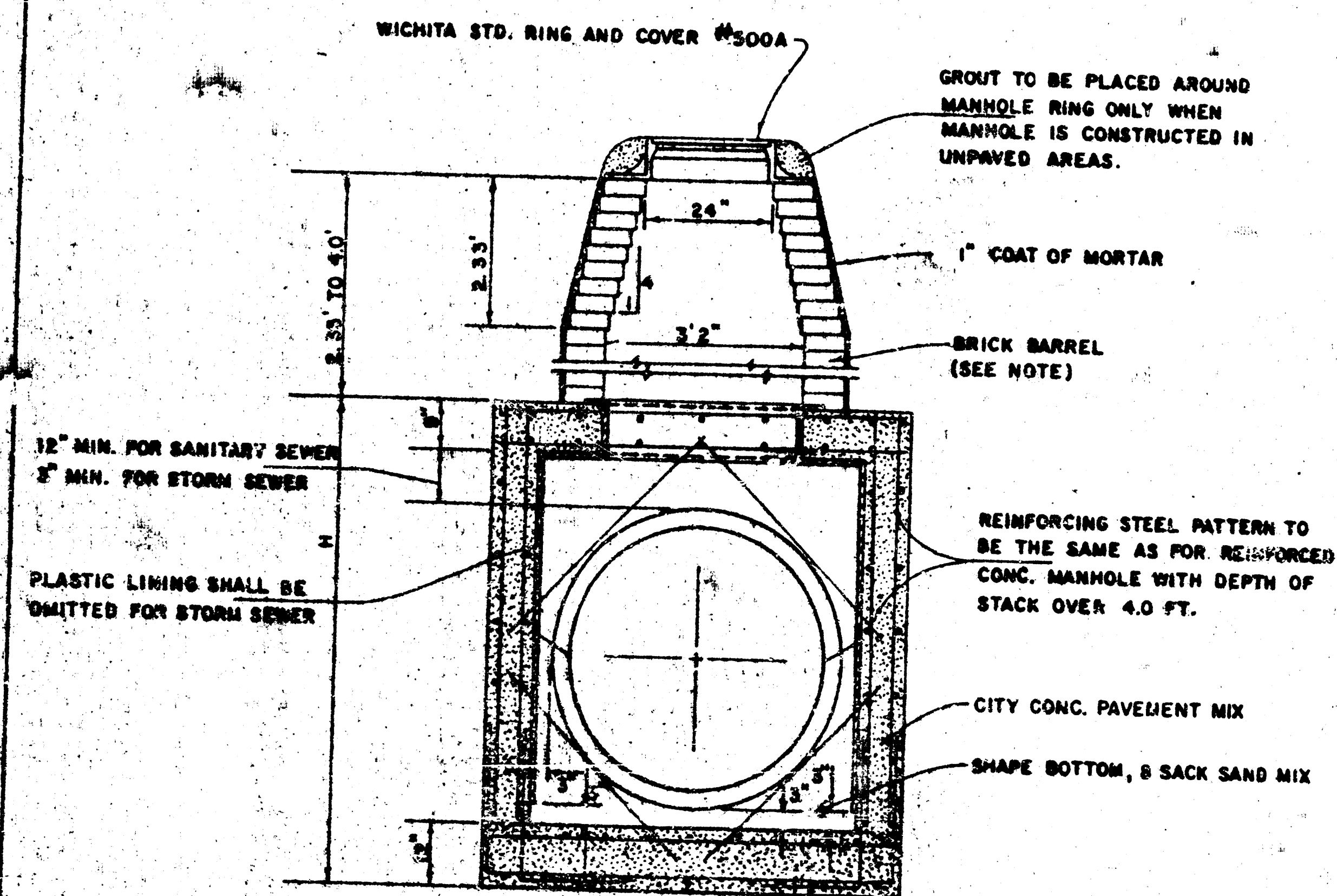
V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



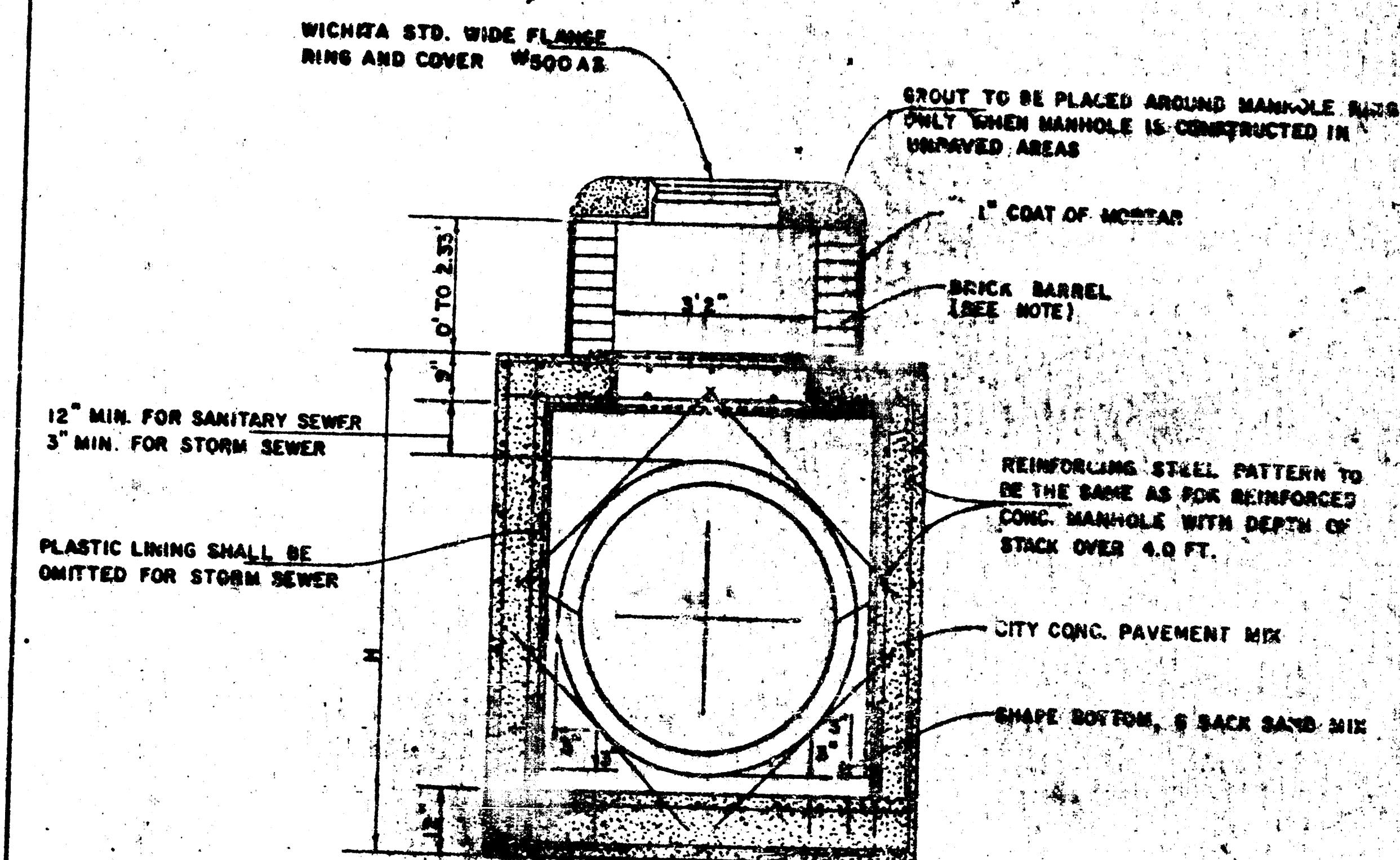
R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



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



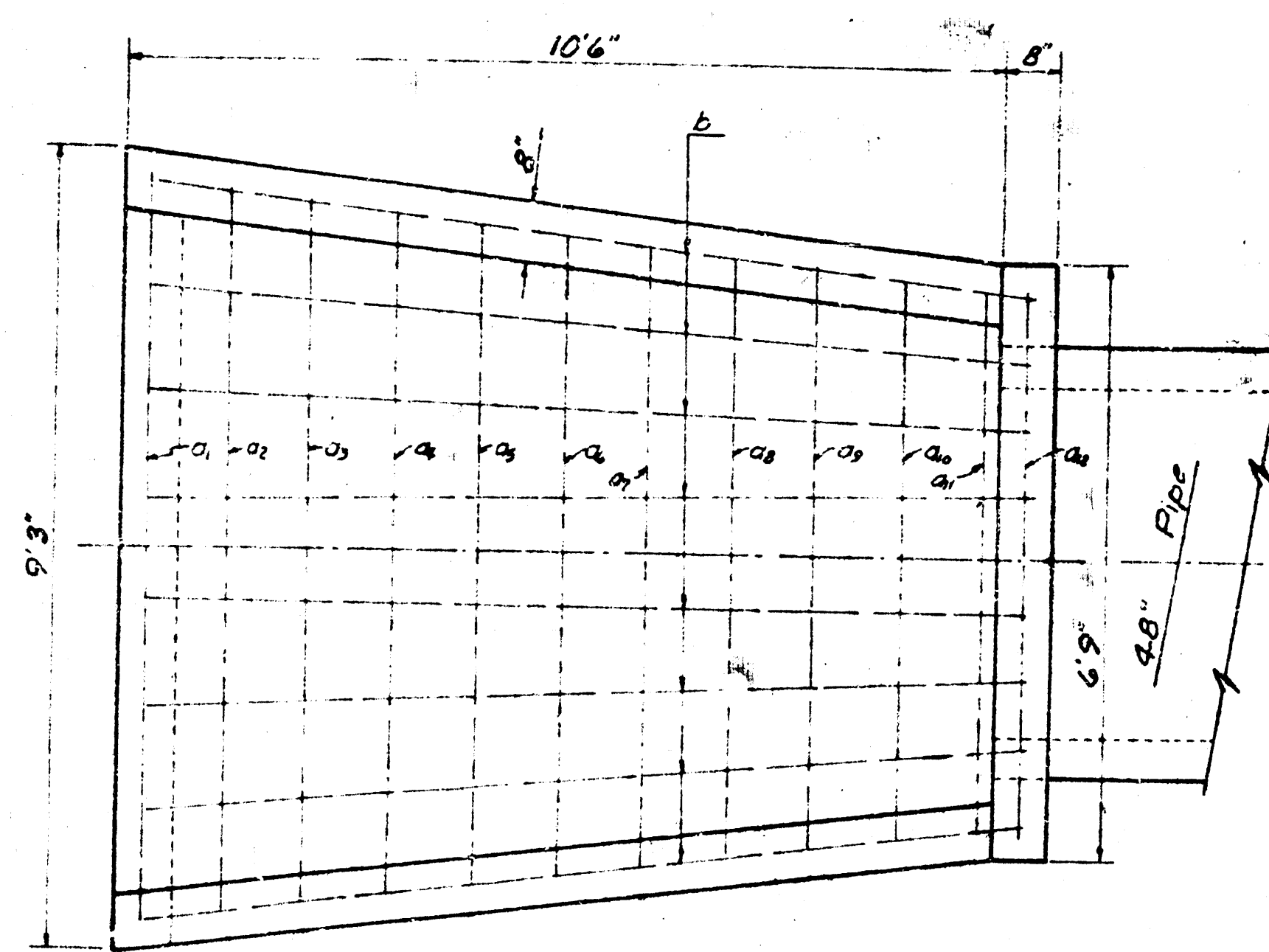
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'



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

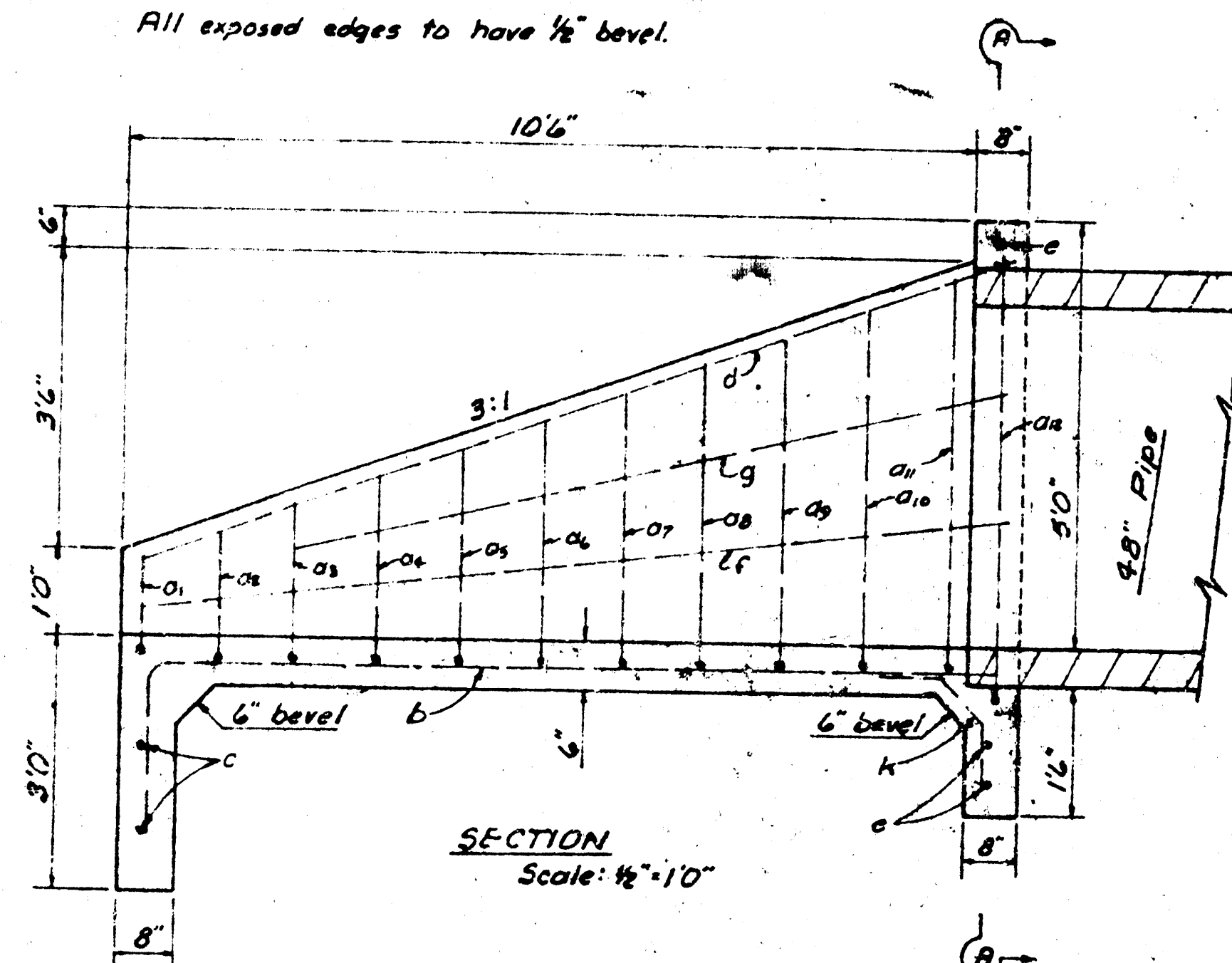
S.W.S. NO. 249

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES
CITY OF WICHITA

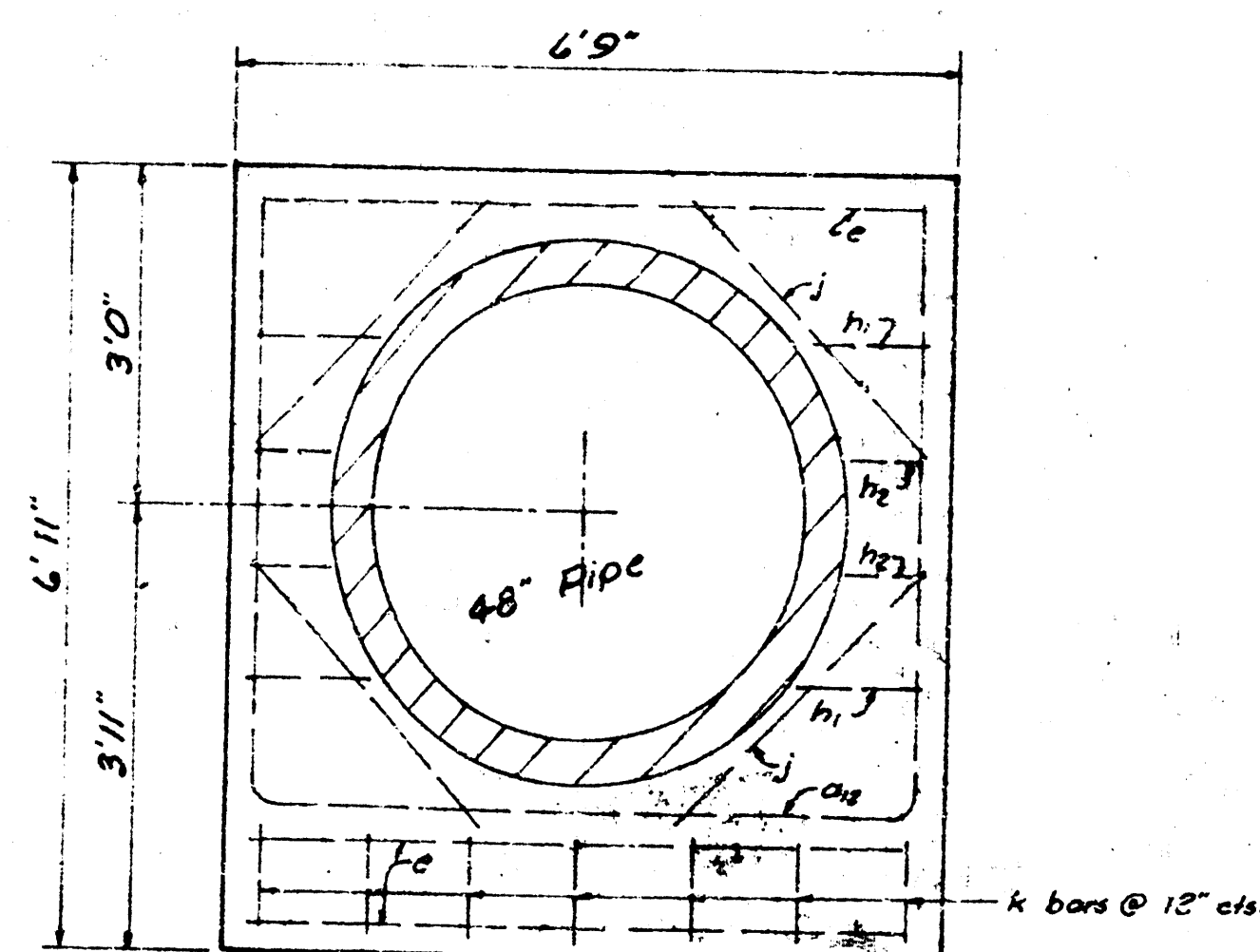


PLAN
Scale: 1/8"=1'-0"

All exposed edges to have 1/8" bevel.



SECTION
Scale: 1/8"=1'-0"

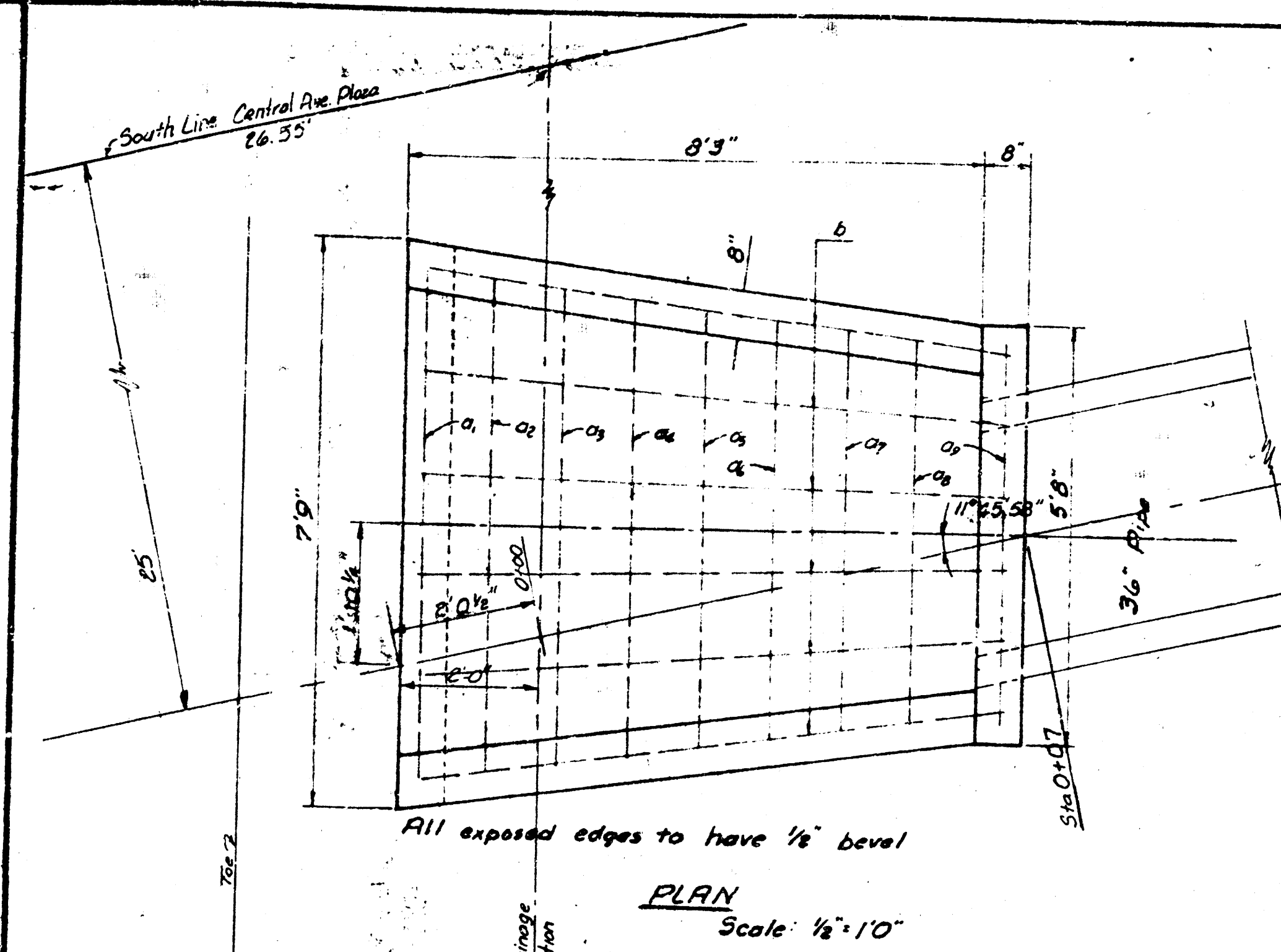
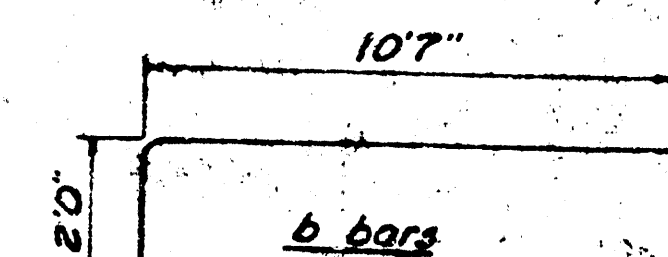
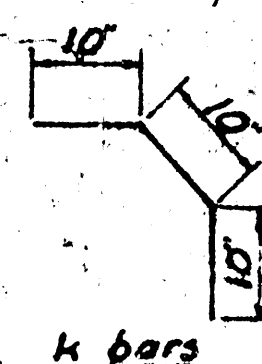


SECTION A-A
Scale: 1/8"=1'-0"

HEADWALL FOR 48" PIPE

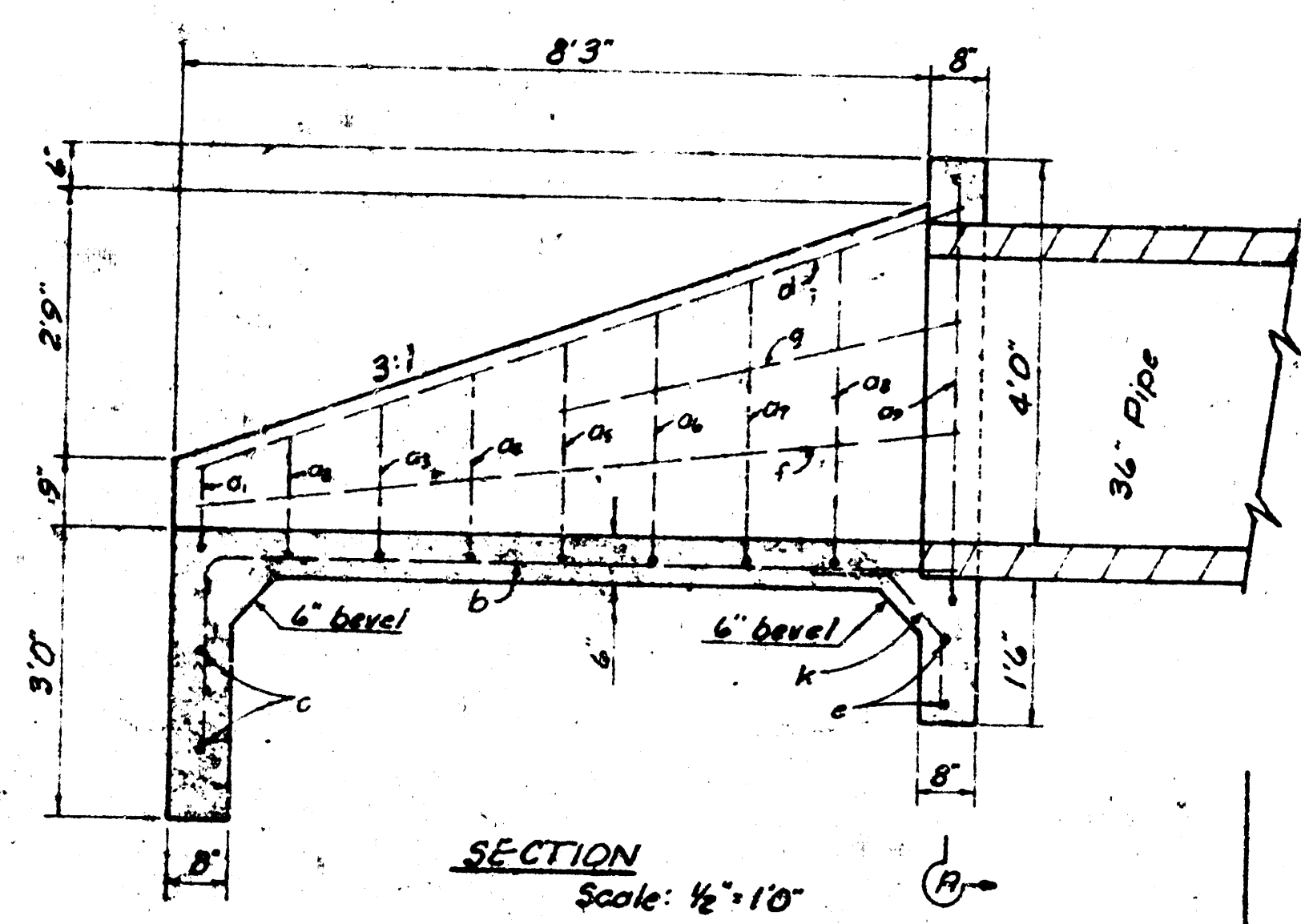
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	10'10"		7.24
a2	1	11'3"		7.52
a3	1	11'8"		7.79
a4	1	12'7"		8.07
a5	1	12'6"		8.35
a6	1	13'0"		8.64
a7	1	13'5"		8.96
a8	1	13'10"		9.24
a9	1	14'3"		9.52
a10	1	14'8"		9.80
b	1	15'2"		10.13
c	1	16'10"		11.24
d	2	12'10"		17.23
e	2	8'4"		11.36
f	3	8'4"		15.36
g	2	10'5"		12.91
h	2	9'0"		14.36
i	4	7'2"		12.02
j	4	8'		3.12
k	4	3'3"		1.78
l	7	2'6"		8.68
Rebars (lbs)				265.07
Concrete (C.Y.)				6.73
All rebars to be #4				

2 bars	
a1	8'4"
a2	8'3"
a3	8'0"
a4	7'5"
a5	7'6"
a6	7'8"
a7	7'1"
a8	7'10"
a9	6'7"
a10	6'6"
b	6'2"

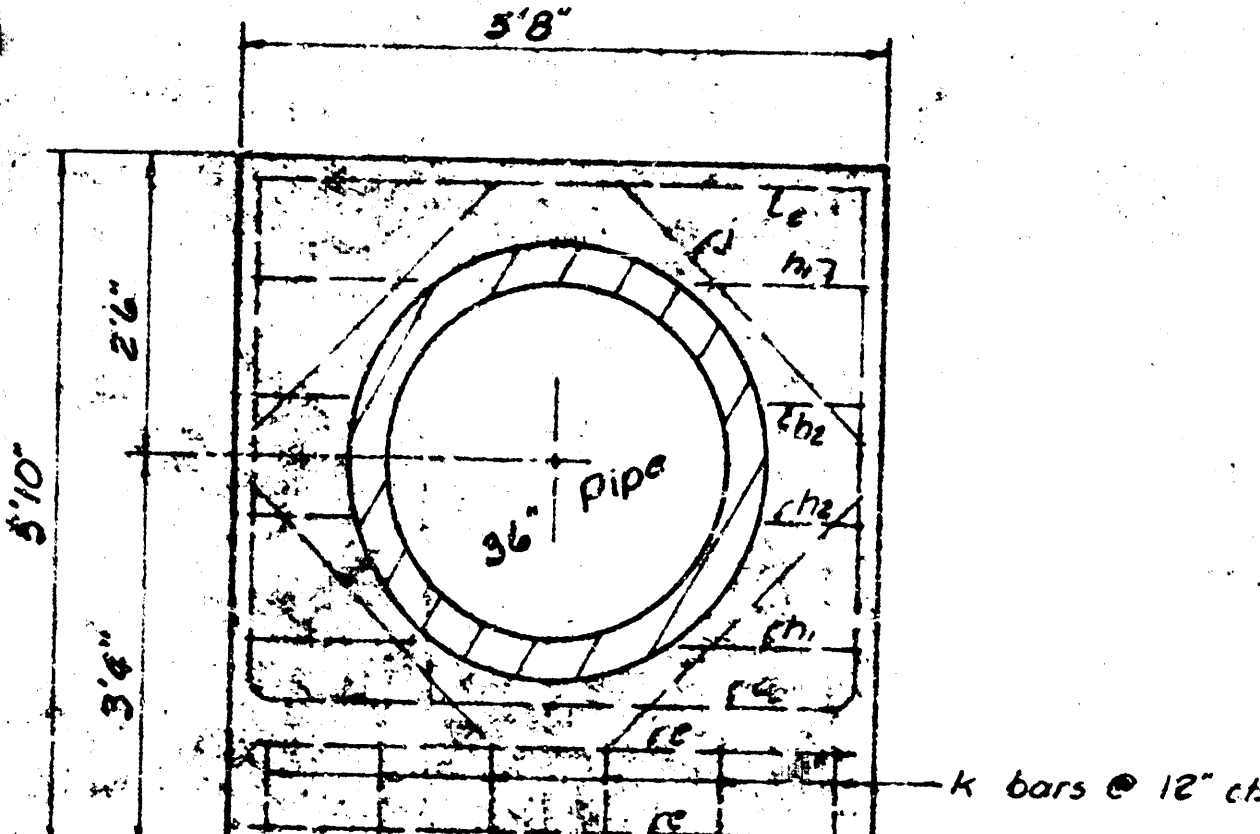


PLAN
Scale: 1/8"=1'-0"

All exposed edges to have 1/8" bevel.



SECTION
Scale: 1/8"=1'-0"

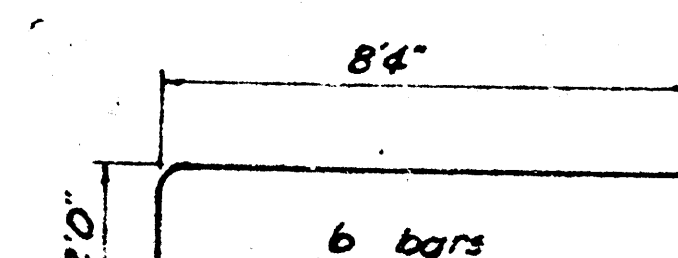
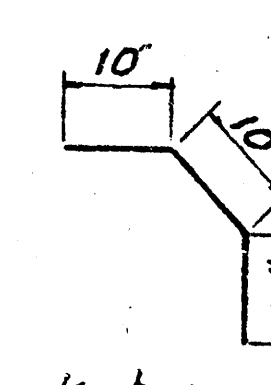


SECTION A-A
Scale: 1/8"=1'-0"

HEADWALL FOR 36" PIPE

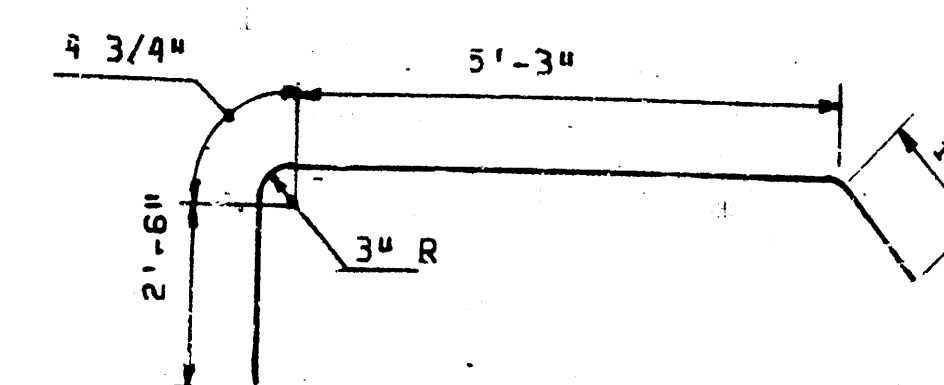
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	8'7"		5.73
a2	1	9'0"		6.01
a3	1	9'7"		6.40
a4	1	10'0"		6.68
a5	1	10'5"		7.24
a6	1	10'10"		7.72
a7	1	11'3"		7.90
a8	1	11'10"		8.35
a9	1	14'0"		9.35
b	6	10'8"		4.62
c	2	7'0"		9.35
d	2	9'0"		12.02
e	3	5'8"		10.69
f	2	8'5"		11.24
g	2	4'7"		6.12
h	4	7'6"		4.01
i	4	10'		2.23
j	4	3'0"		8.92
k	6	2'6"		10.02
Total Rebars, lbs				178.91
Cone. C.Y.				3.20
All Rebars to be #4				

a bars	
a1	6'11"
a2	6'8"
a3	6'5"
a4	6'2"
a5	5'11"
a6	5'8"
a7	5'5"
a8	5'2"
a9	5'2"

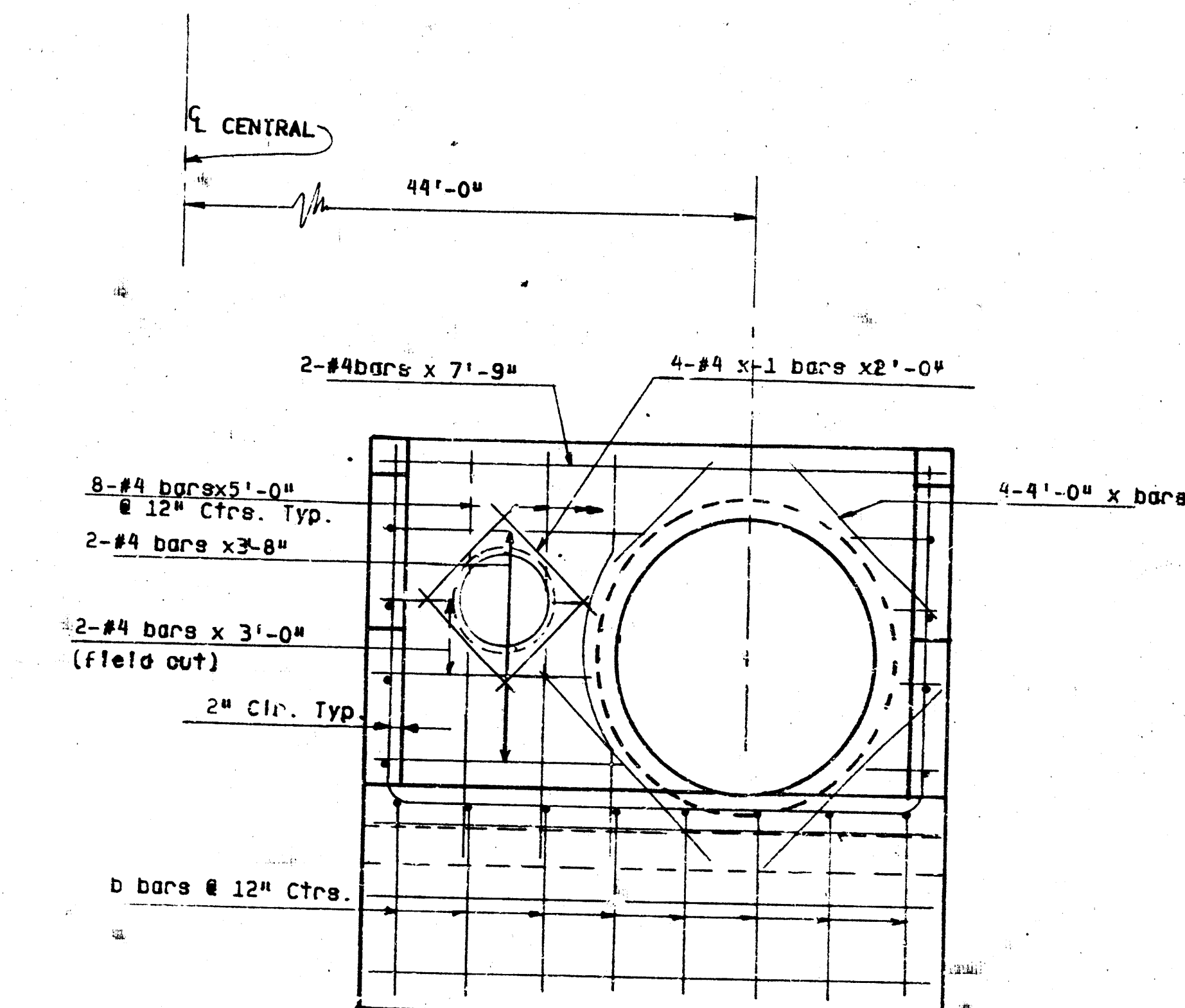
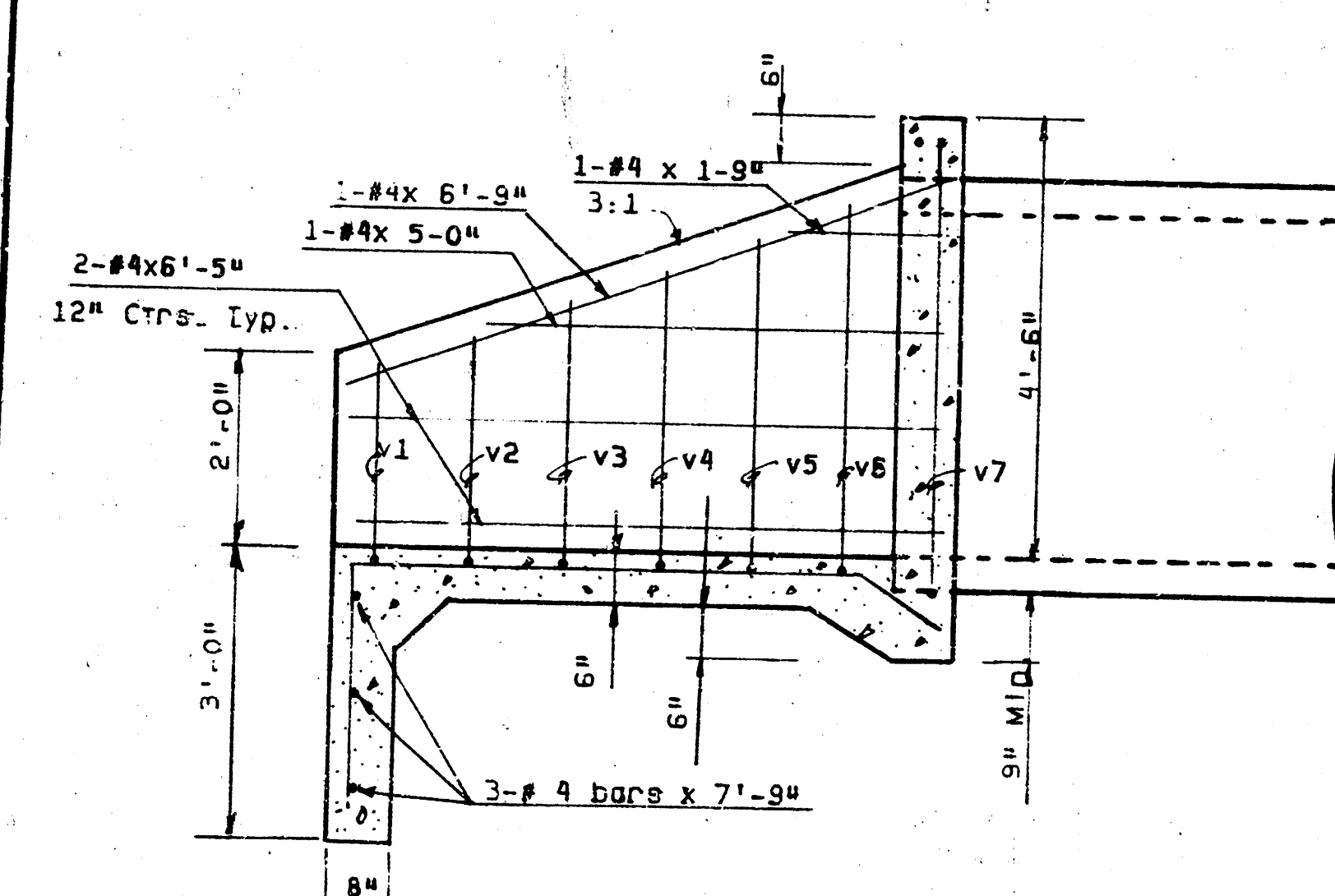
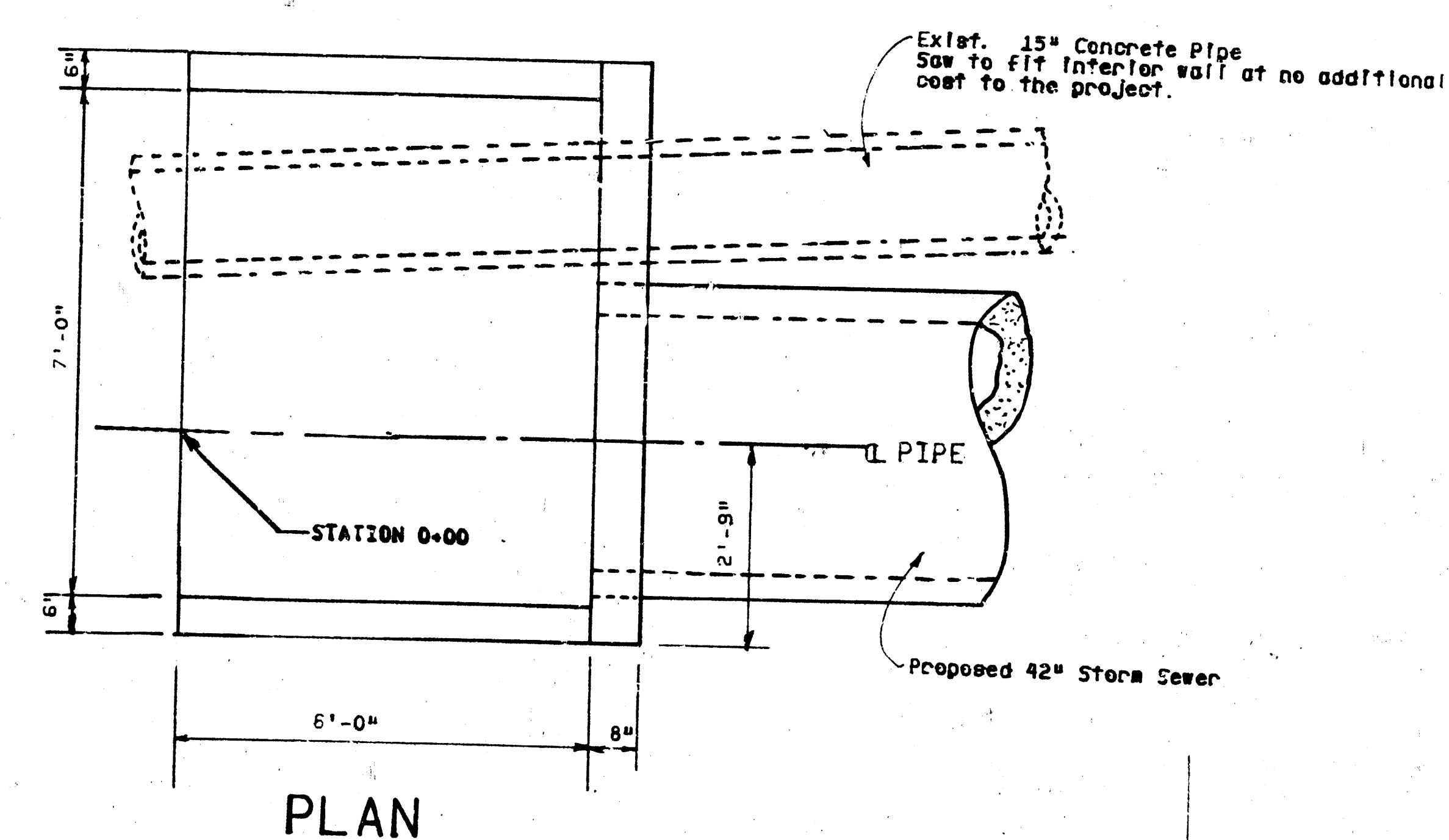
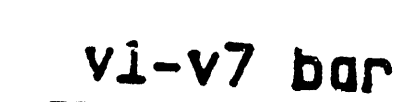
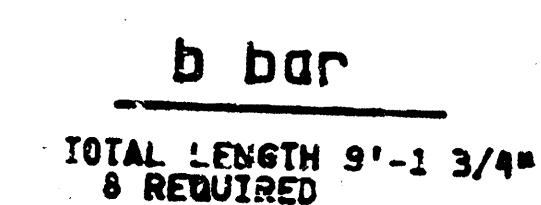
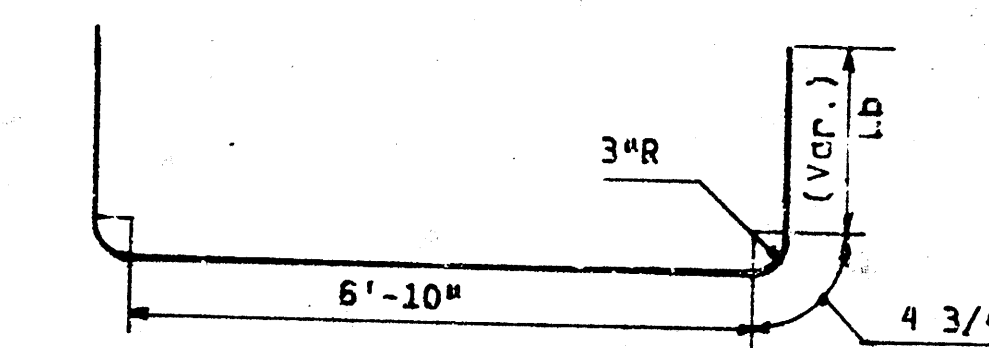


S.W.S. NO. 249
HEADWALL DETAIL

ENGINEER: K. HILL
DRAWN BY: J.P.
CHECKED BY: J.P.
DATE: AUG. 1968



BAR	LD	TOT. LENG
v1	2'-0"	9'-7 1/2
v2	2'-8"	10'-3 1/2
v3	2'-8"	10'-11 1/2
v4	3'-0"	11'-7 1/2
v5	3'-4"	12'-3 1/2
v6	3'-8"	12'-11 1/2
v7	4'-6"	14'-1 1/2



SECTION
HEADWALL @ STATION 0+00 LINE NO. 3

NOTE: Field bend all bars around
Piles at no additional cost
to the project.

NOTE: ALL BARS SHALL BE #4 UNLESS OTHERWISE NOTED

dp

POE & ASSOCIATES
CONSULTING ENGINEERS

S.W.S. NO. 243

HEADWALL FOR 42" RCP

ENGINEER: K. HILL **CHECKED: D. HILL**
DRAWN BY: J. G. P. **SCALE: NONE**
DATE: AUG 1963 **SHEET 8 OF 9**

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