

PAVING - UNIVERSITY GARDENS 2ND ADDITION

CITY OF WICHITA, KANSAS

R.W. LINN CITY ENGINEER

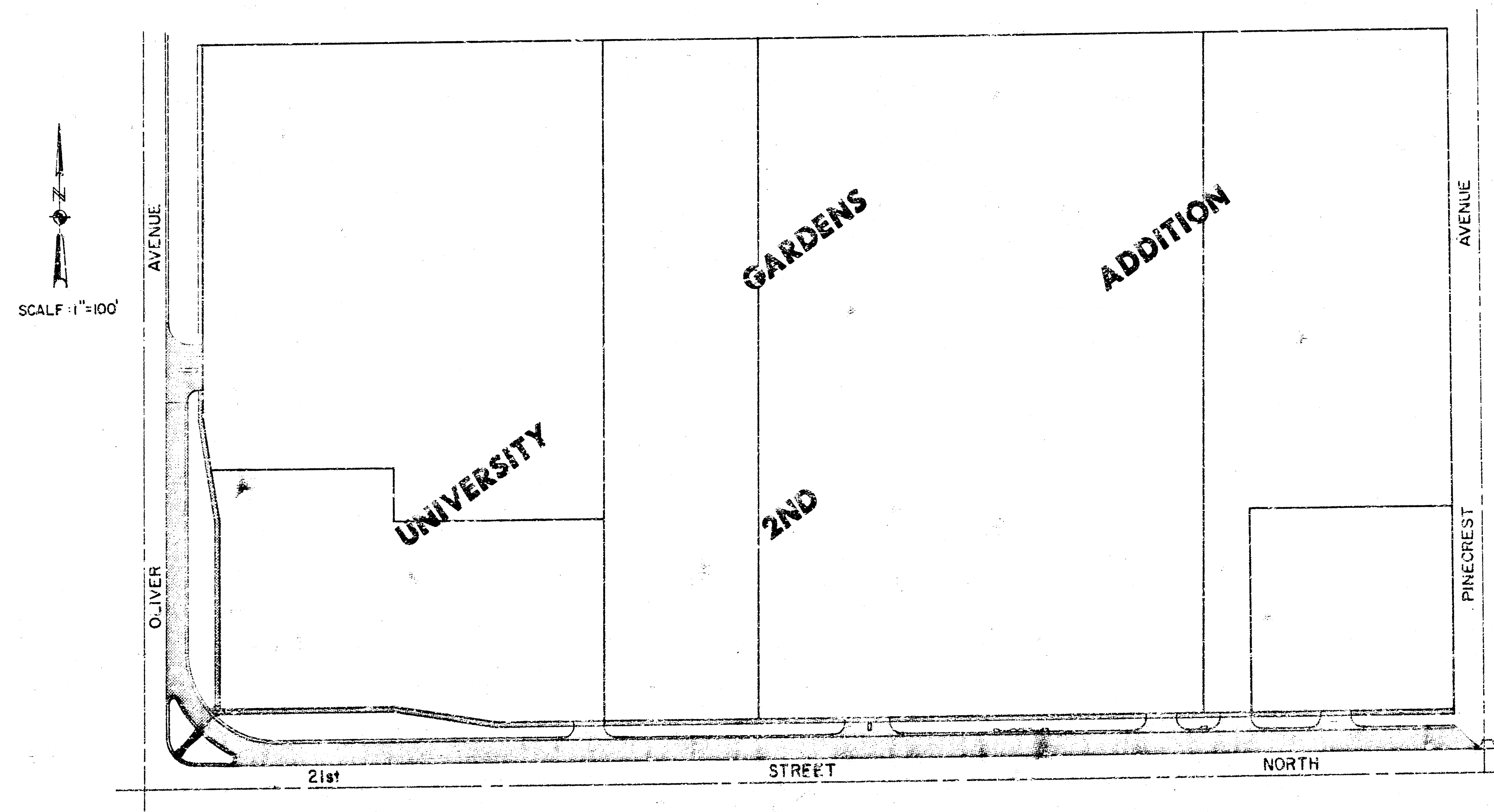
APRIL, 1977

PROJECT NO. DAKS 577013 - EAST SIDE OLIVER AVE. - & 21ST ST. NORTH
TO 525' NORTH & 21ST ST. NORTH.

PROJECT NO. DAKS 577015 - NORTH SIDE 21ST ST. NORTH - & OLIVER AVE.
TO E.L. UNIVERSITY GARDENS 2ND ADDITION

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	OLIVER AVE. - PLAN PROFILE
3-5	21ST ST. NORTH - PLAN PROFILE
6	PAVING DETAILS
7	TYPE 1 INLET DETAILS
8	STORM SEWER DETAILS



LOCATION MAP



SCALE 1"=20'

For Conc. Pavement & Integral Curb Details See Sht. No. 6

S.W. Cor. of S.W. 1/4 Sec. 7, T2P3, R1E

NORTH

Sta. 20+00.00 Oliver Ave. =
Sta. 1+00.00 21st St. N.

For Ramp Detail See Sht. No. 6

OLIVER

AVENUE

STREET

21ST

Sta. 19+74.76 Oliver Ave. =
Sta. 0+07.50 21st St. N.

Lt. Curb Curve Data
 $\Delta = 40^\circ 33' 08''$
 $R = 107.00'$
 $L = 80.94'$

Rt. Curb Curve Data
 $\Delta = 39^\circ 28' 30''$
 $R = 85.00'$
 $L = 132.74'$

Tree Removal is Marked to 'X' Except that any Tree which in the Opinion of the Field Engineer can be Saved Shall be Saved

B.M. - 5' 10" 3.3 ft West of
Oliver Ave. & 42 ft North of
21st St. N. ELEV. = 217.80

P.C. Sta. 19+74.76
Oliver Ave. =
Sta. 0+07.50
21st St. N.

P.T. Sta. 20+07.50
Elev. = 217.80

Produced by S. J. P. & S. J. P.

T.C. Elev.

217.12

217.02

217.00

216.98

216.97

216.95

216.93

216.92

AVENUE

OLIVER

21ST

STREET

NORTH

For Details on Right Turn Lane See Sht. No. 2

6" Concrete Drive with 6x6 46 Wire Mesh See Sht. 6 For Details.

Proj. DR15577015

Project DR15577015

Sta. 2+02.50 21st St. N.
Sta. 19+24 PG Oliver Ave.

Sta. 1+00.00 21st St. N.
Sta. 19+03.00 Oliver Ave.

S.W. Cor. of S.W. 1/4
Sect. 1, T87S, R1E

B.M. City Disc., 33 Ft. West &
Oliver Ave. & 42 Ft. North &
21st St. N. Elev. = 217.82

Trees to be Removed are Marked thus X, Except
that any Tree which in the Opinion of the Field Engineer
can be Saved Shall be Saved.

B.M. - Unmarked 1" Top E. Base
on 50 Ft. Rt. Side
21st St. N. - Elev. = 217.82

SCALE 1" = 20'



T.C. Elev.

220.13

221.63

222.60

223.20

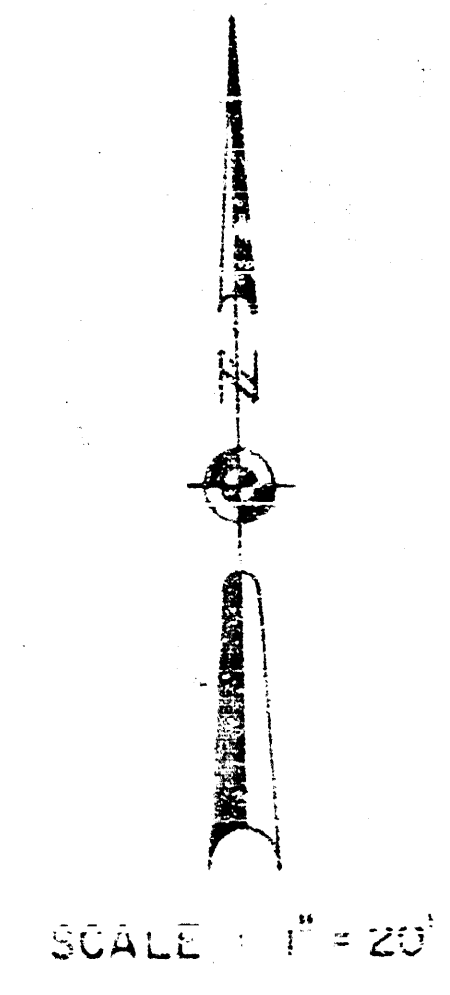
223.28

223.22

220.02

6" Concrete Drive With
6x6 #4 Wire Mesh
See Sht. No. 6

6" Concrete Drive With
6x6 #4 Wire Mesh
See Sht. No. 6



PINECREST
AVENUE

21ST

STREET

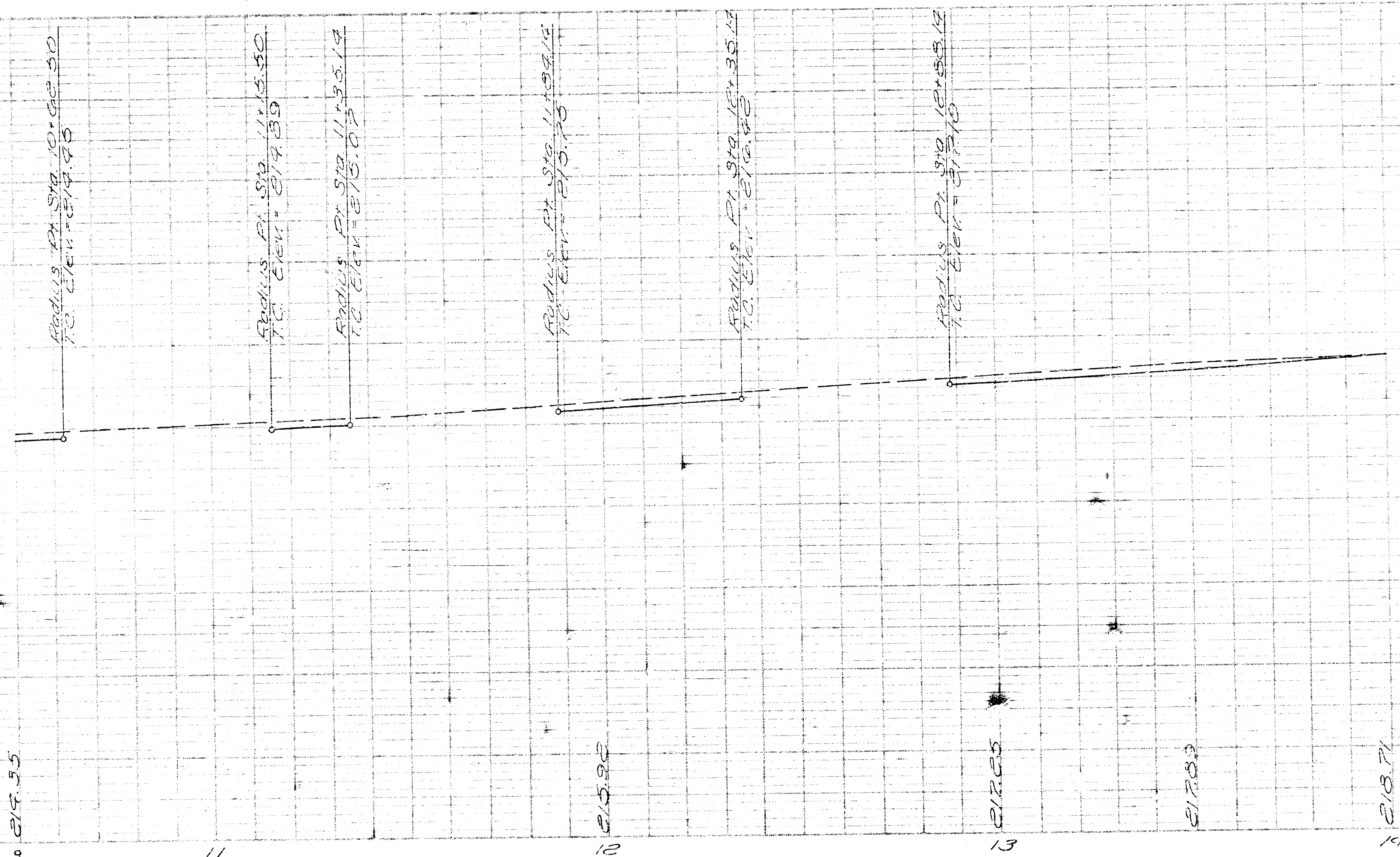
NORTH

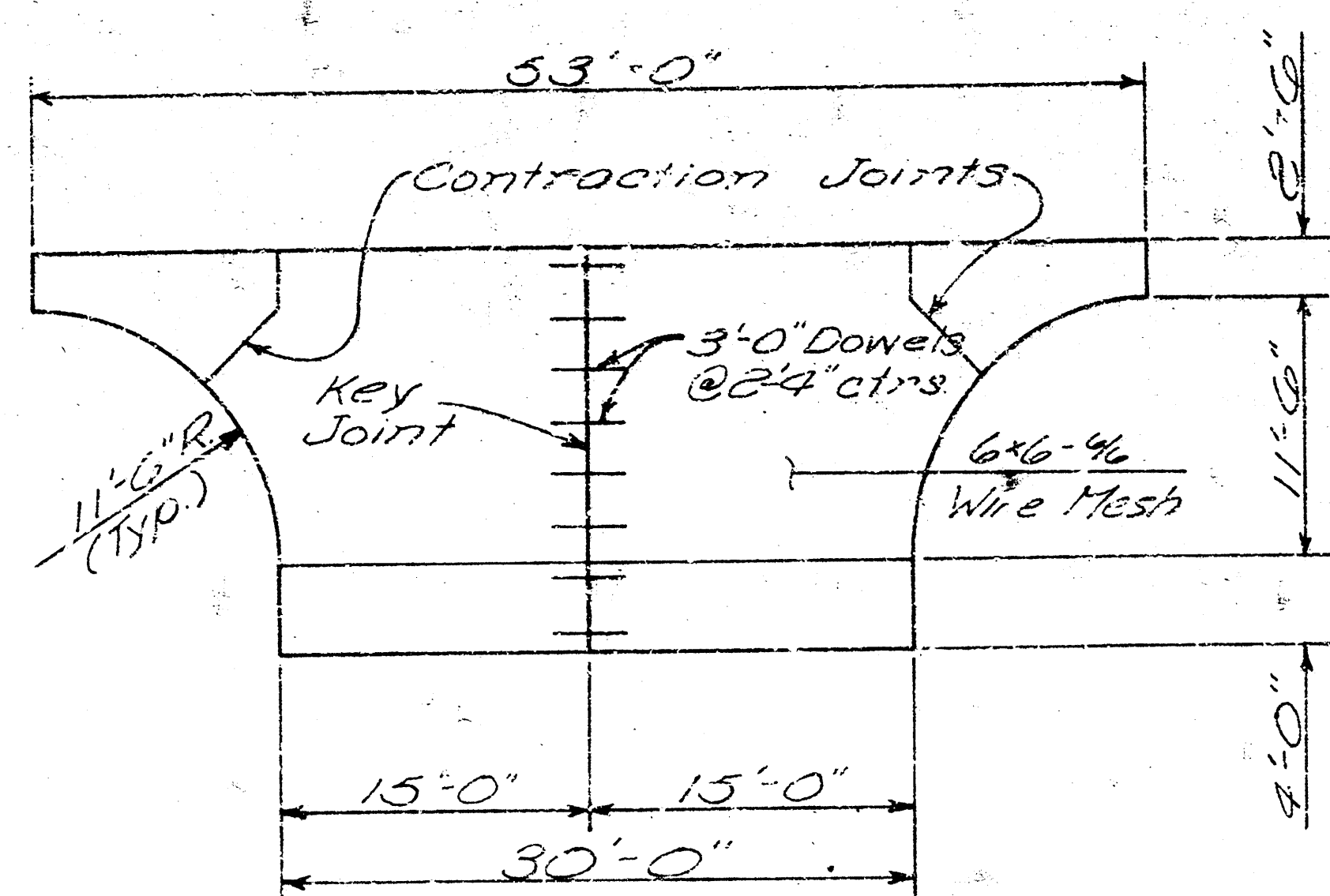
Remove Existing Inlet, Section of
24" R.C.P. Construct Concrete Collar
Around Pipe and Extend Collar a min. of
2' Beyond Both Ends.
To be Bid as L.F. 24" R.C.P. w/ Concrete Collar.

Asphalt Curb
(Incidental to Project)
Street Signing
By Others

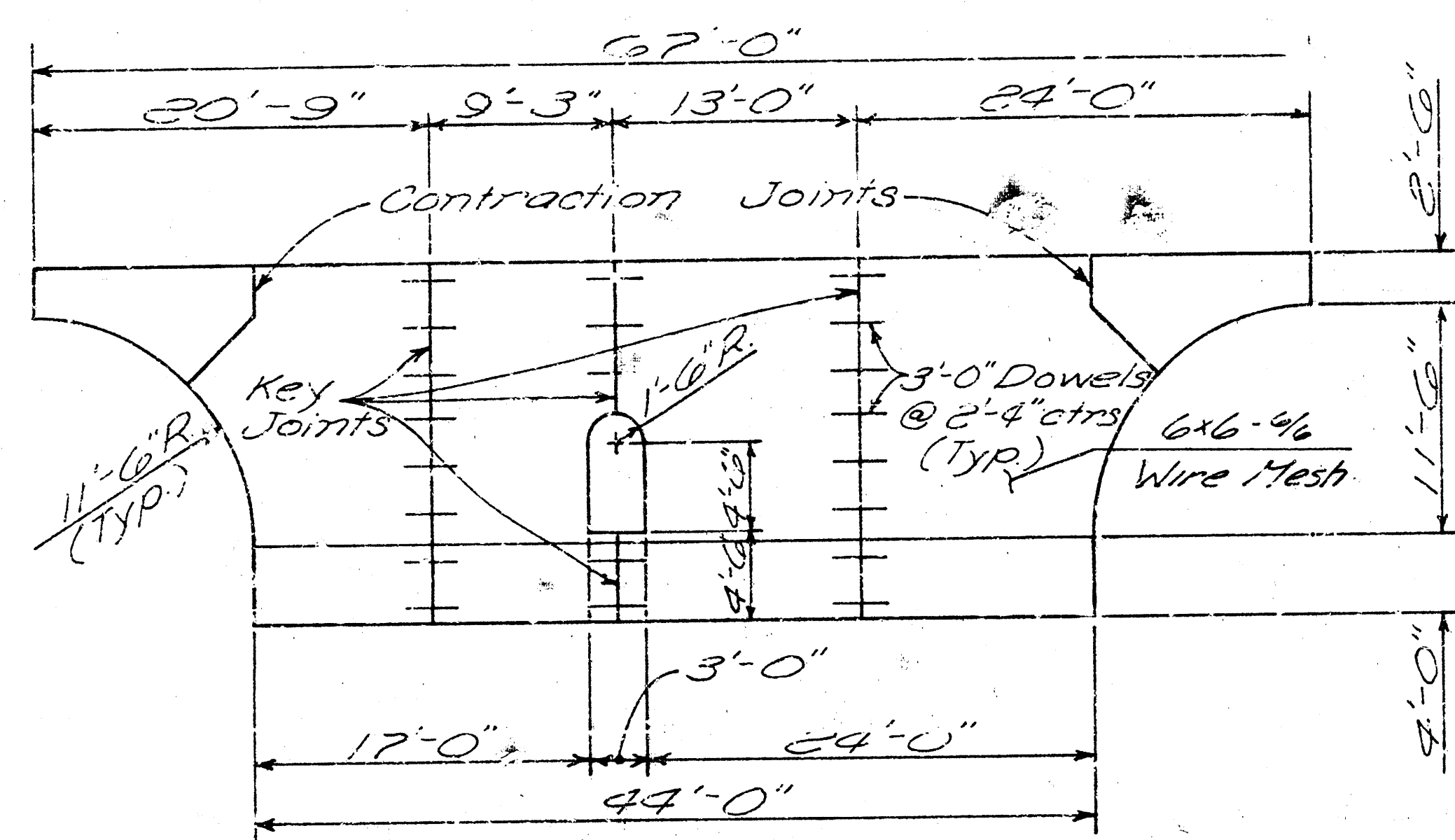
1510. 11+30.90 Const Std.
Type 1A Curb Inlet
W = 3'-10" Install 8 L.F.
15" R.C.P. For Details
See Sht. No. 2

B.M. Griseled 4" Top E. Base 3"
on F.H. 50ft. R. Sta 7+25
West St. N. - Elev = 217.60

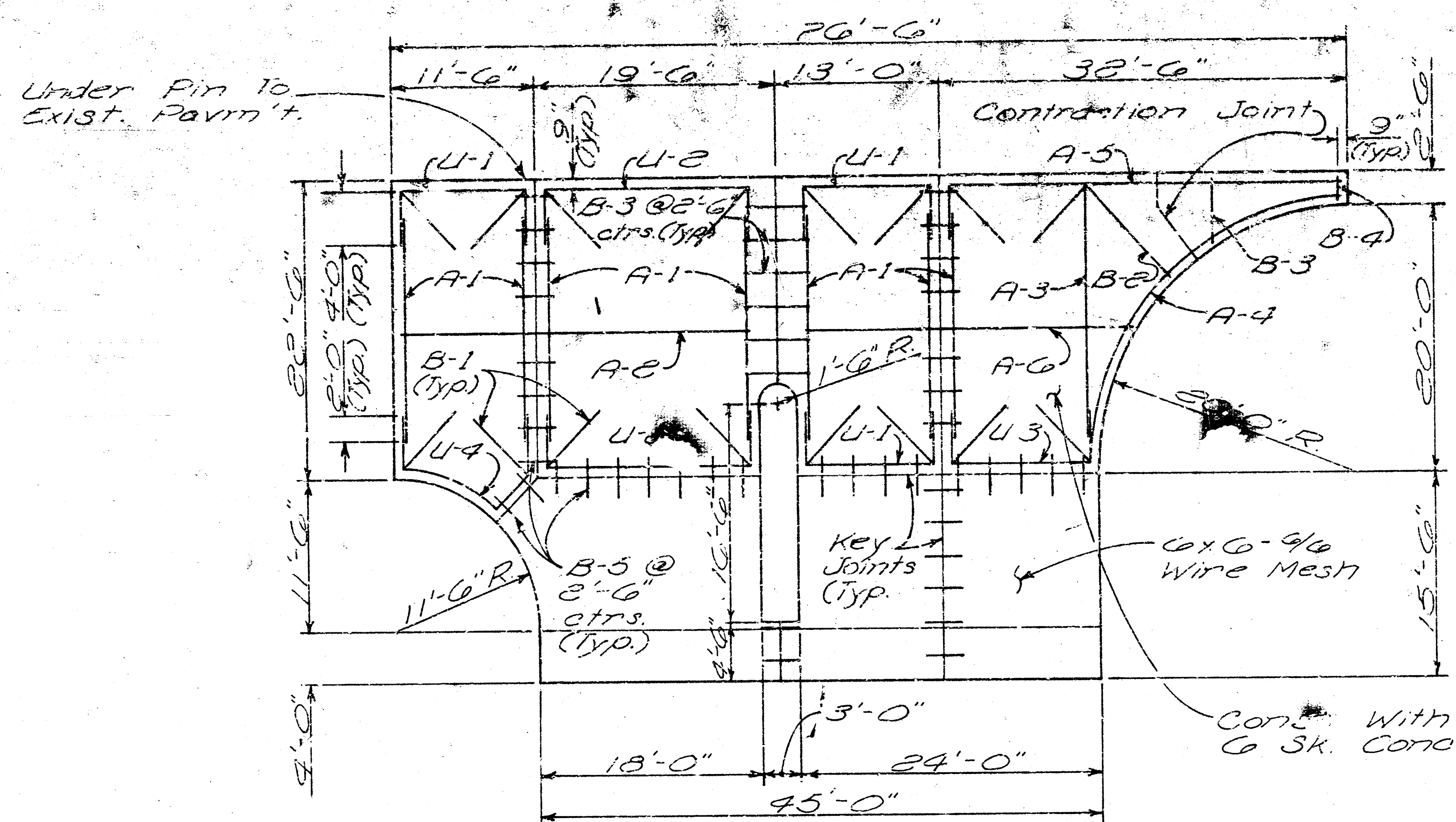




30' DRIVE APPROACH
6" Concrete

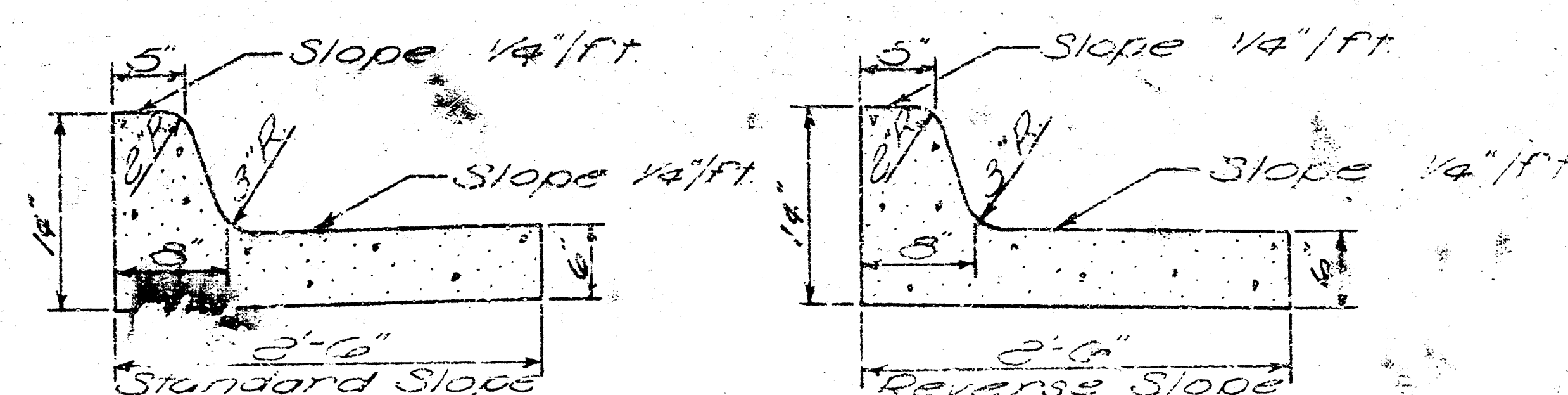


44' DRIVE APPROACH
21st STREET NORTH
6" Concrete

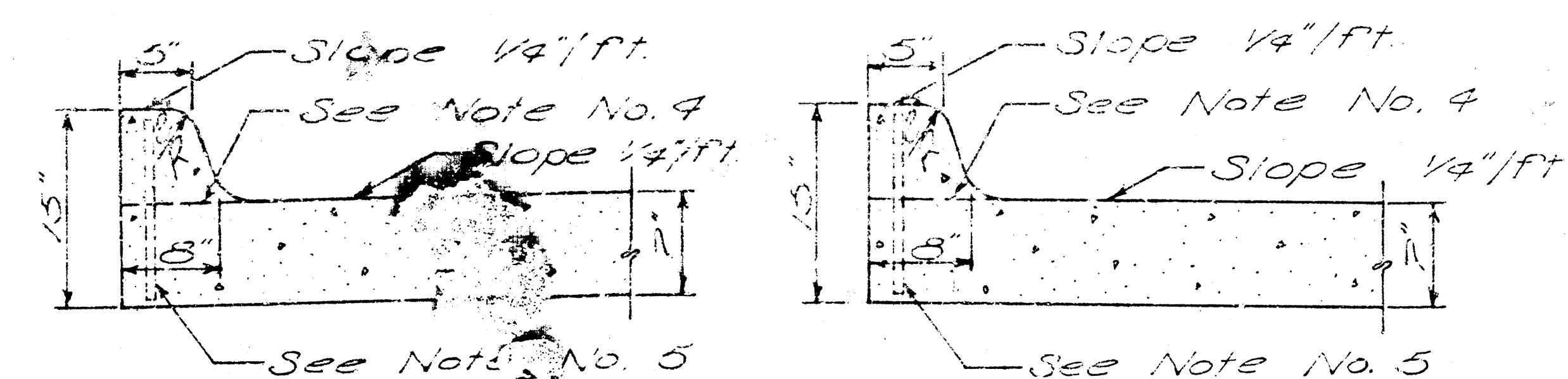


45' DRIVE APPROACH
OLIVER AVENUE

Mark	No.	Size	Length	Shape
A-1	7	6	17'-0"	—
A-2	1	6	25'-0"	—
A-3	1	6	19'-0"	—
A-4	1	6	30'-0"	—
A-5	1	6	35'-0"	—
A-6	1	6	26'-0"	—
B-1	16	6	6'-0"	—
B-2	1	6	10'-0"	—
B-3	7	6	5'-0"	—
B-4	1	6	2'-0"	—
B-5	4	4	3'-0"	—
U-1	3	6	18'-0"	—
U-2	2	6	24'-0"	—
U-3	1	6	19'-0"	—
U-4	1	6	19'-0"	—



COMBINED CURB &
GUTTER

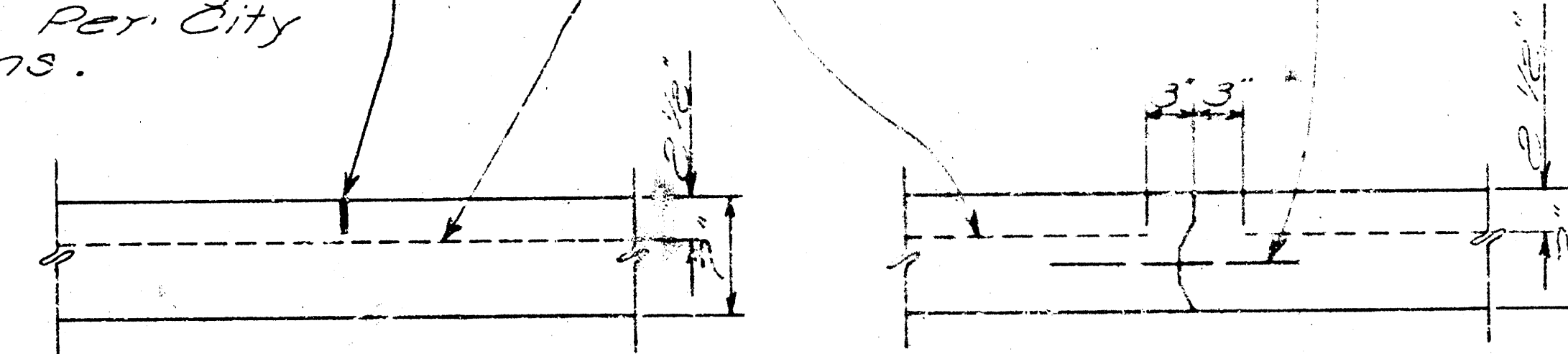


INTEGRAL CURB

6x6-4/8 Wire Mesh
to be Used in
Drive Approach

Saw Joint 3/8" Wide
By 2" Deep. Filled
With Joint Sealing
Compound. Per City
Specifications.

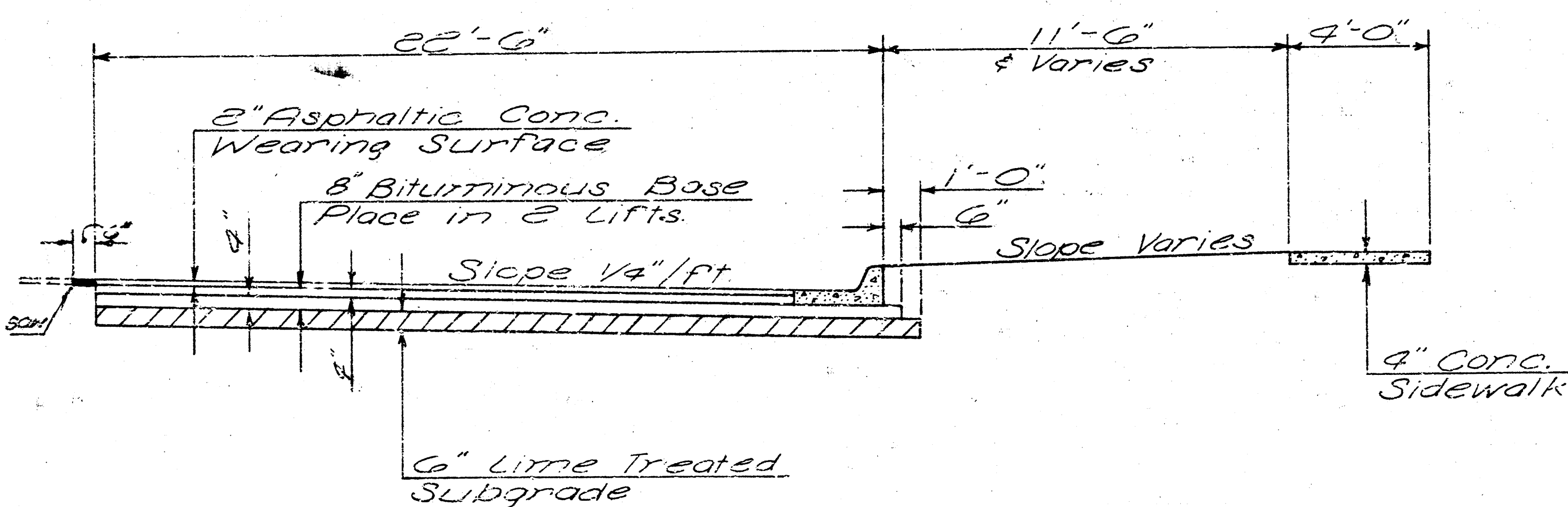
#4 Bar 3'-0"
Long @ 2'-0"
Ctrs.



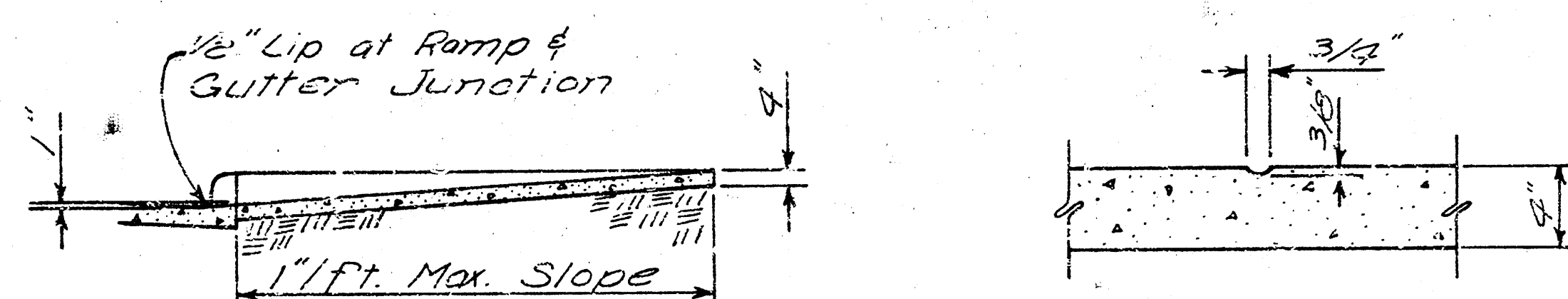
CONTRACTION

KEY

JOINT DETAILS

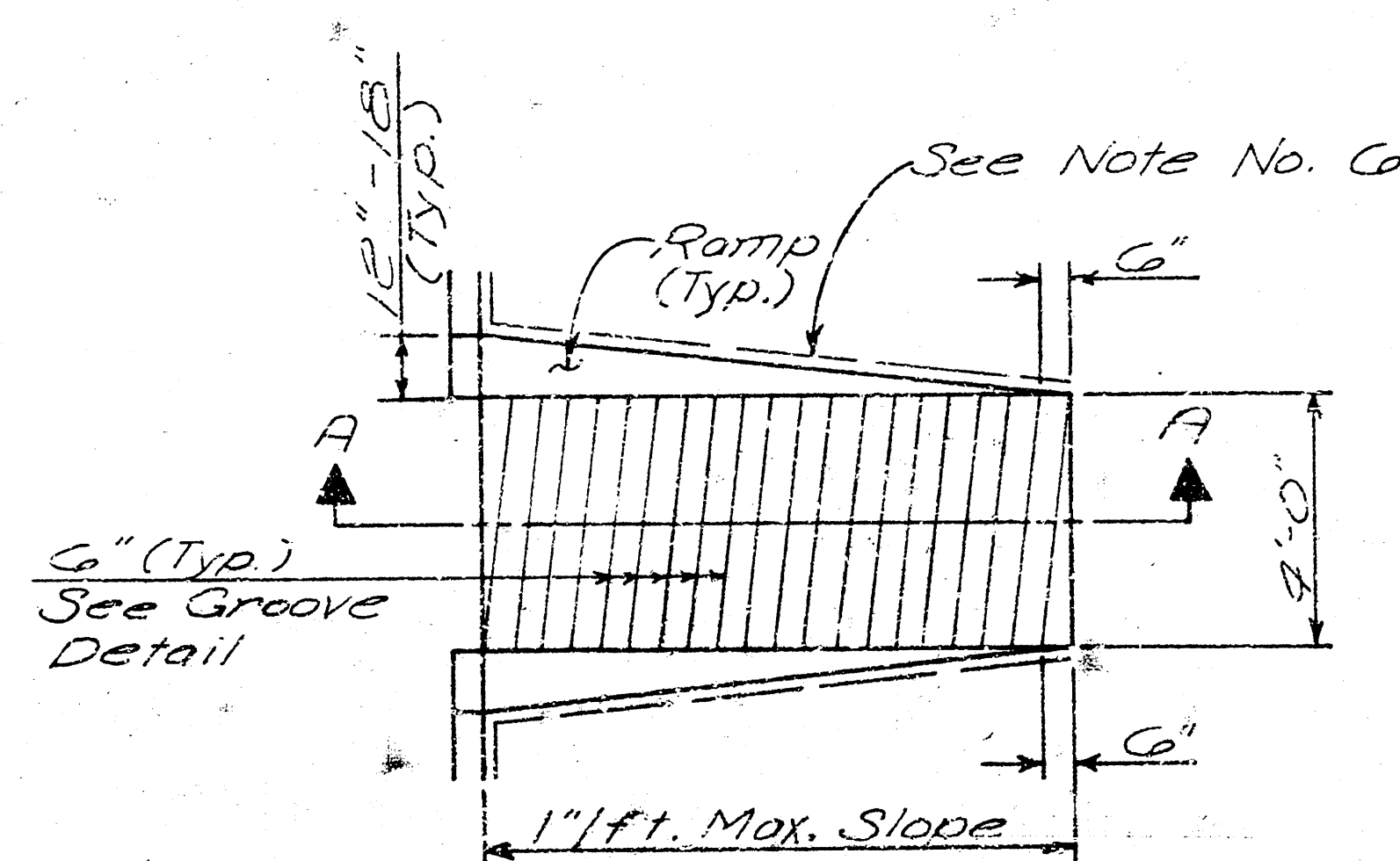


TYPICAL SECTION



SECT. A-A

GROVE
DETAIL



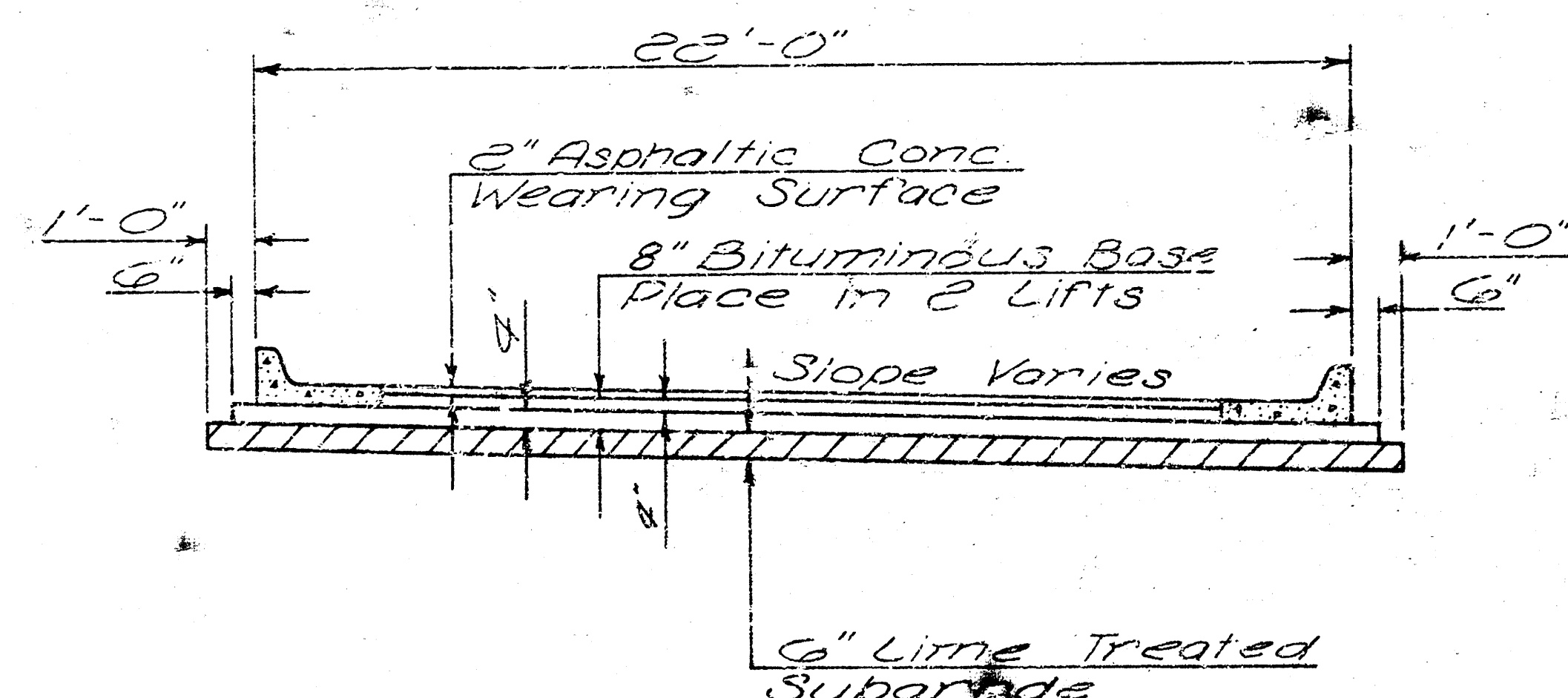
PLAN

RAMP DETAILS
Not to be Constructed on
this Project

GENERAL NOTES

- A tack of Emulsified Asphalt (SS-IH) shall be applied at an approximate rate 0.05 gallons per sq. ft. between lifts of asphaltic materials when ordered by the engineer. Tack coat will not be paid for directly and shall be considered as subsidiary to price bid for Asphaltic Pavement.
- Bituminous Base and Asphaltic Concrete Wearing Surface shall be placed with a laydown machine having automatic electronic controls for grade. Construction Joints in each lift shall be staggered a minimum distance of one foot with joints in preceding lifts.
- The A.C. Pavement between existing pavement and curb and gutter shall be paid as sq. yds. 10" A.C. Pavement (8" Bituminous Base). The Bituminous Base under the combined curb and gutter shall be paid as sq. yds. 4" Bituminous Base.
- Sidewalks indicated on the typical sections are for location on that section. ~~Sidewalks shall not be constructed on this project.~~
- Contraction Joints may be constructed in Integral Curb by sawing with an approved concrete saw. The saw cut shall extend through the curb to the pavement. Sawed Contraction Joints shall have a maximum spacing of 10'.
- Integral Curb shall be tied to the pavement base with short deformed Dowel Bars spaced at 2'-0" intervals. These Dowel Bars shall not be less than 1/2" or more than 3/4" in diameter.
- The ramp shall be either bordered on both sides and the curb lined with a four-inch wide yellow stripe, or the surface treatment on ramp shall have integral coloration.

NOTE TO CONTRACTOR - SAW AND REMOVE 6" OF EXISTING ASPHALT SURFACE AFTER NEW 8" BASE HAS BEEN LAID DOWN. SAW JOINT TO BE INCIDENTAL TO PROJECT.



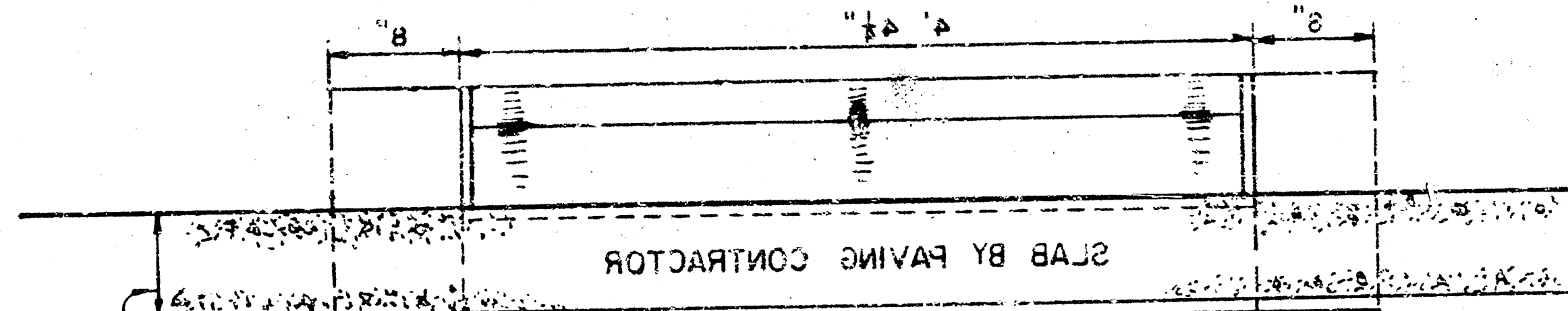
TYPICAL SECTION
RIGHT TURN LANE

DESIGN KHB	UNIVERSITY GARDENS SECOND ADDITION WICHITA, KANSAS
DR. BY RLP	
CK. BY KHB	
DATE 3-31-77	
JOB NO. 4-74-013	
PAVING DETAILS	
VAN DOREN - HAZARD - STALLINGS	
ARCHITECTS-ENGINEERS • WICHITA, KANSAS	
SHEET 6 OF 8	

(SET BACK LOCATION)
STANDARD TYPE IA CURB INLET

REVISION OF THE AMERICAN SOCIETY
FOR TESTING AND MATERIALS

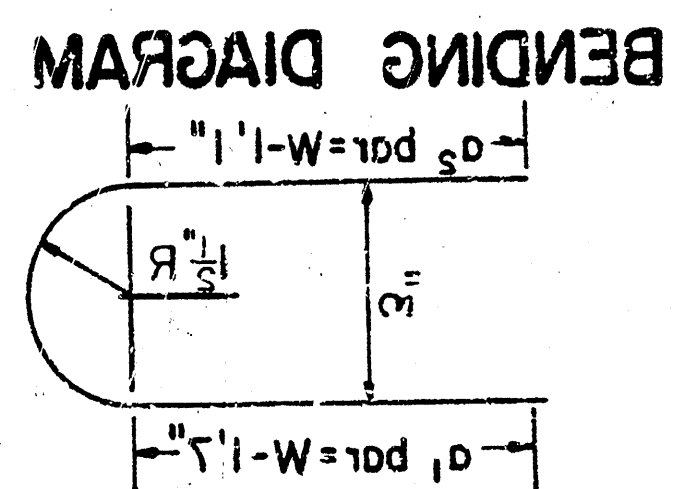
("O'1 = "1 3JAO2)



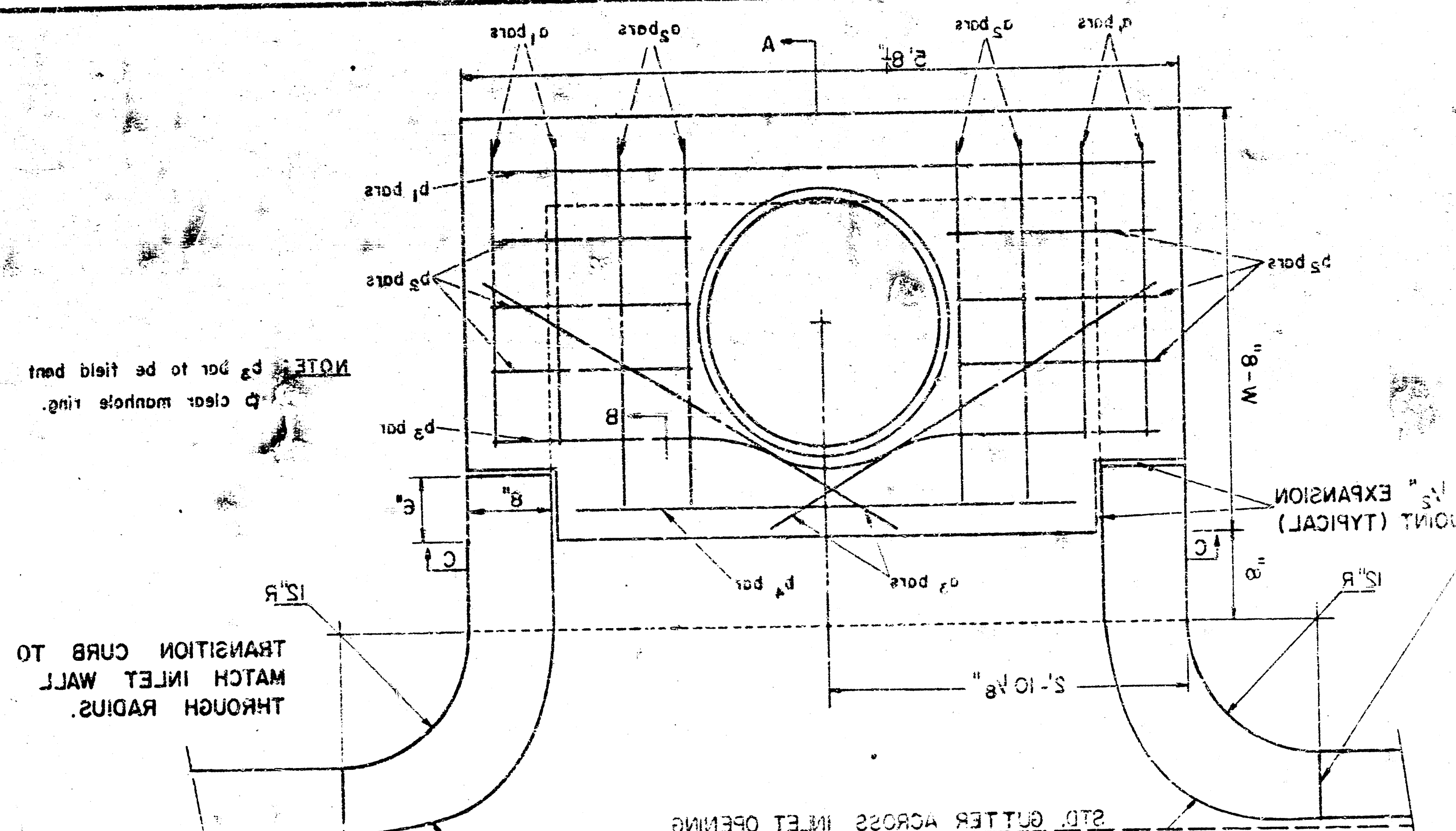
* NOTE: 3 BARS TO BE PLACED APPROX. 5" BELOW TOP OF INLET COVER.

[illegible]

STEEL SCHEDULE



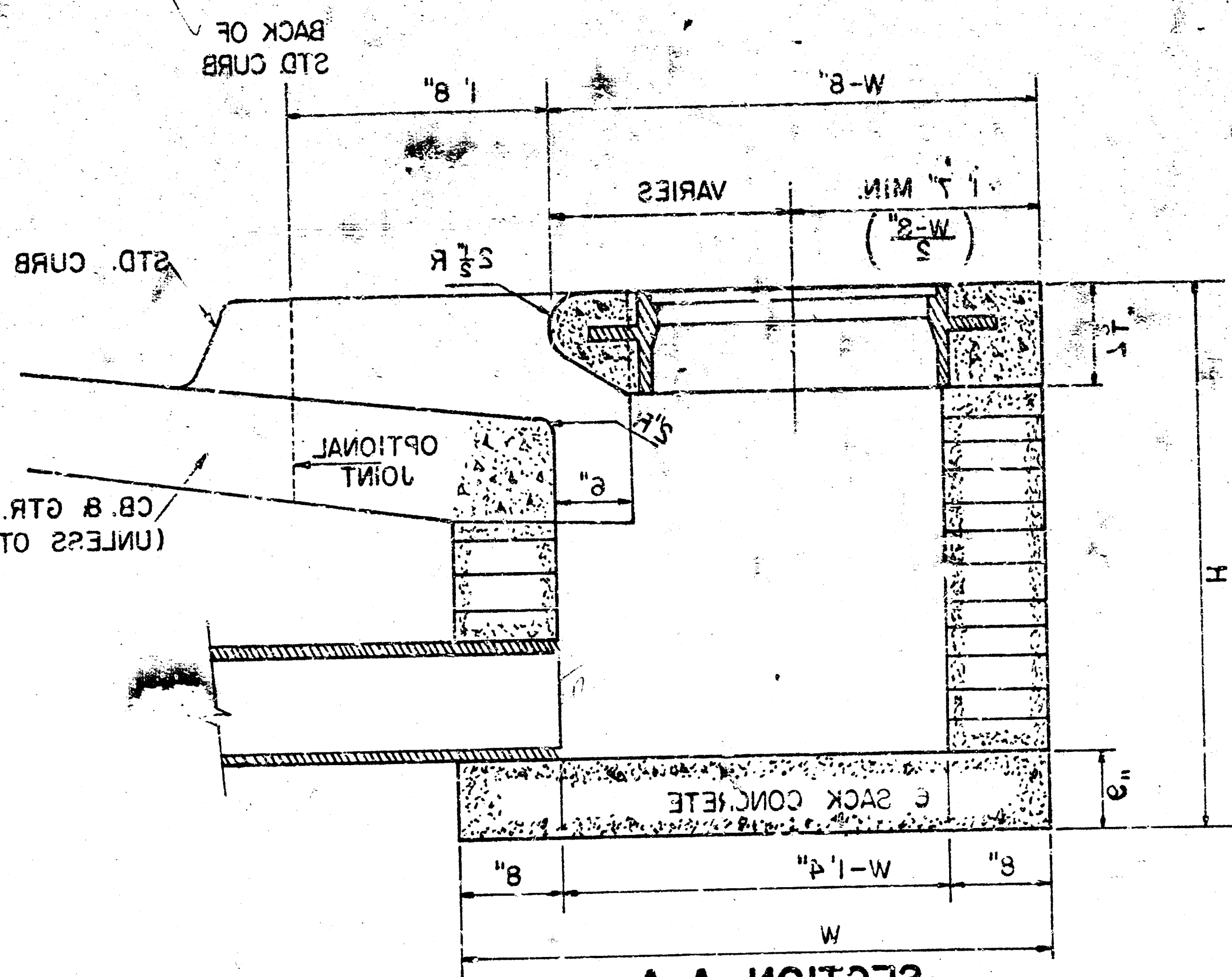
BENDING DIAGRAM



PLAN (SCALE: 1" = 1.0')

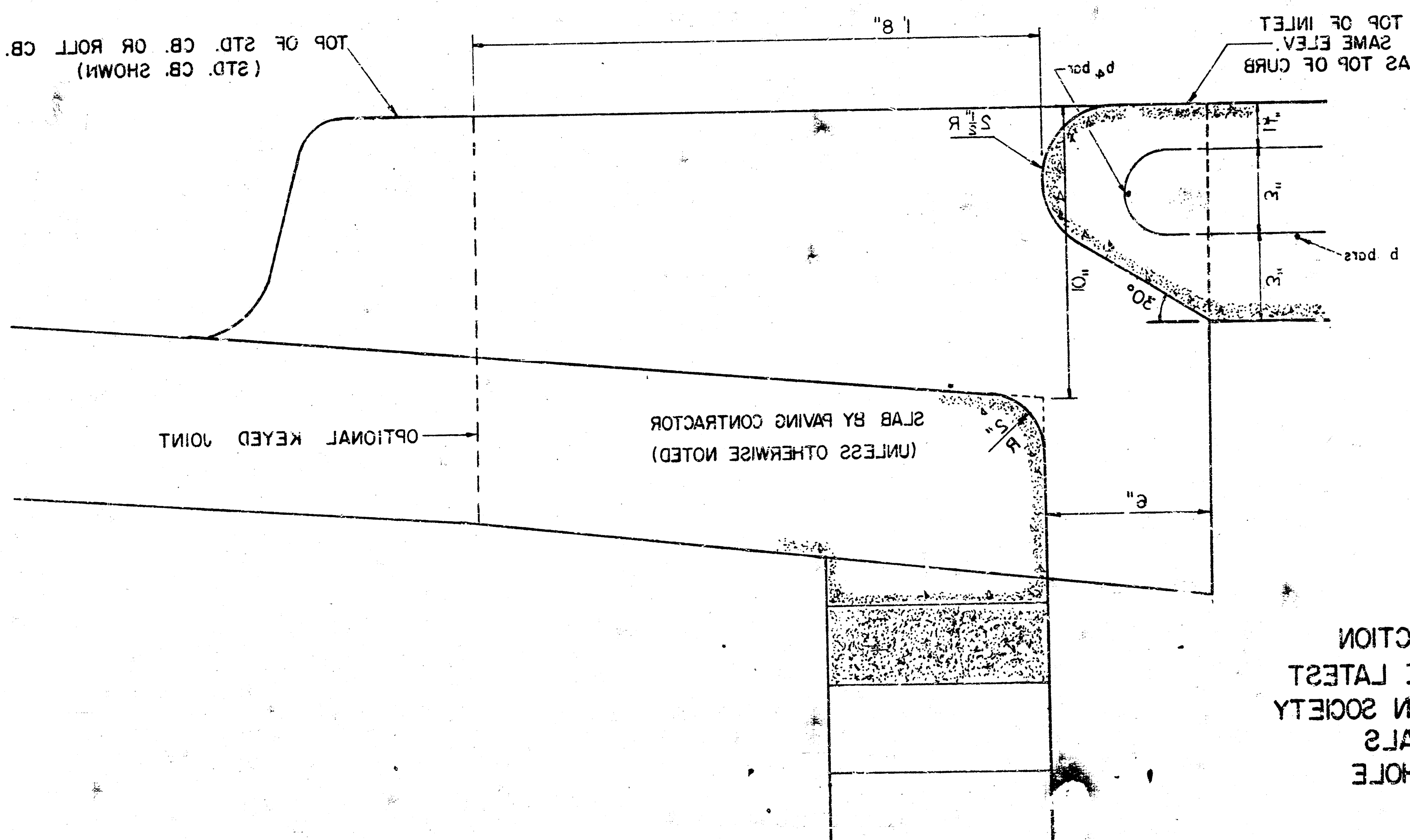
W	PRE-CAST TOP SIZE	PIPE SIZE	CONC.
6'10"	62"x28" $\frac{1}{2}$ "x12"	24"	0.82
6'0"	42"x28" $\frac{1}{2}$ "x12"	24"	0.80
5'10"	42"x28" $\frac{1}{2}$ "x12"	24"	0.80
4'10"	42"x28" $\frac{1}{2}$ "x12"	24"	0.78
3'10"	32"x28" $\frac{1}{2}$ "x12"	24"	0.45

SECTION A-A
SCALE 1" = 10'

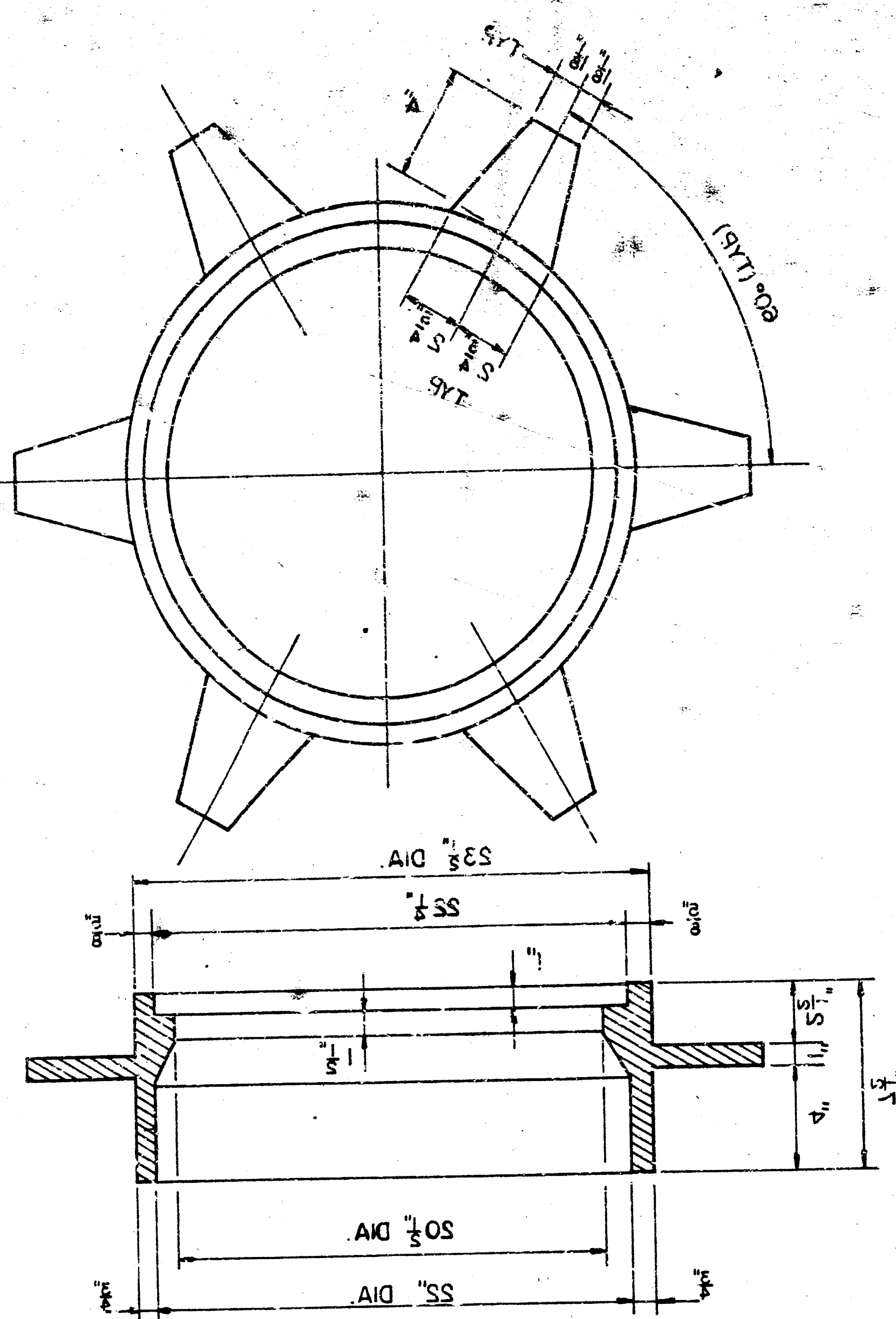


* GROSS VOLUME

NOTE:
PAVING MIX.
PRECAST CONCRETE FOR INLET TOPS
TOPS MAY BE CAST IN PLACE OR
THIN MORTAR CUSHION TO INSURE FULL
CONCRETE TOPS TO BE INSTALLED ON



SECTION B-B
(SCALE 3" = 1'0")



MANHOLE RING

SEE SHEET FOR MANHOLE COVER.
SEE SEWER APPURTENANCES DETAIL.

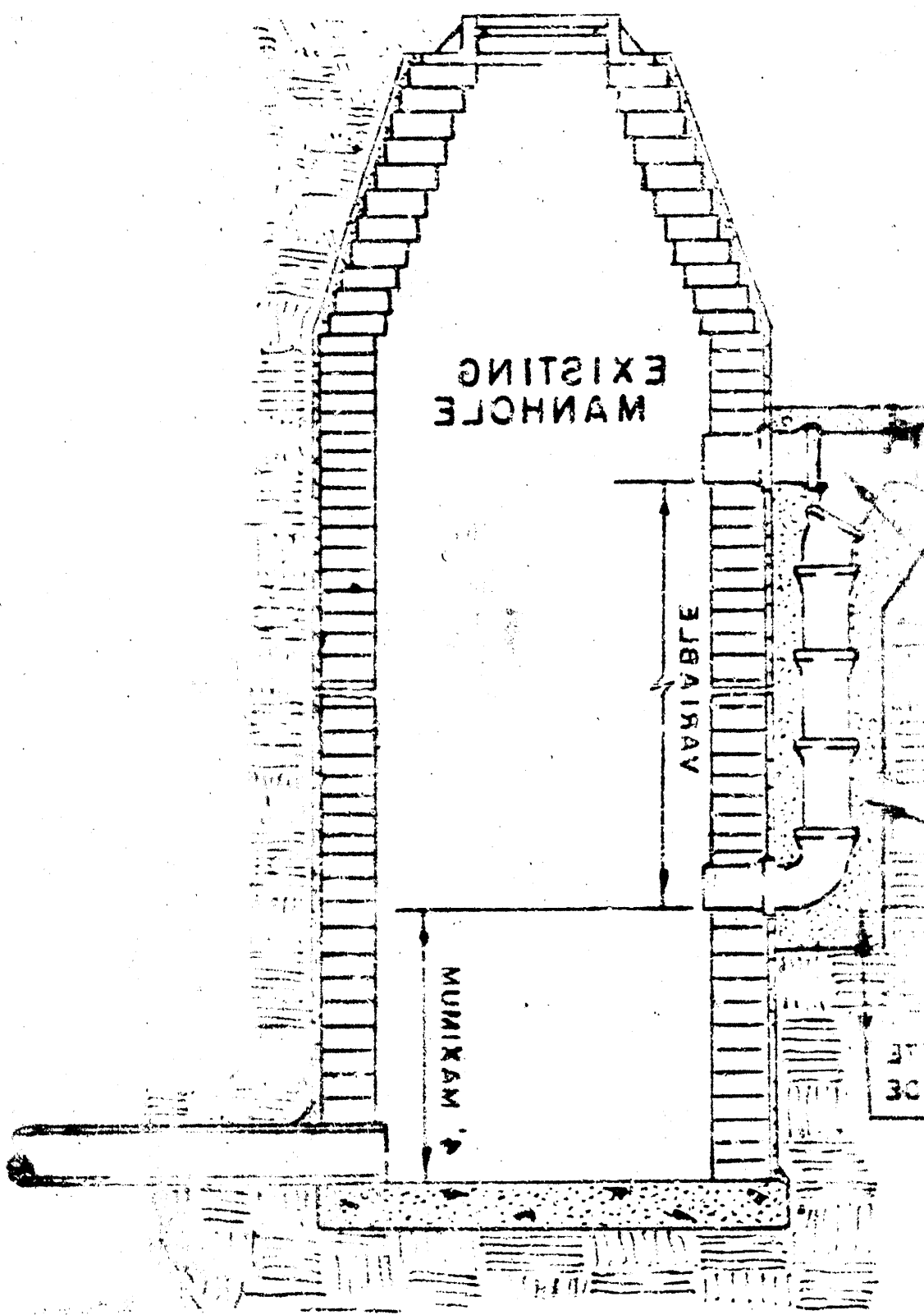
PAVEMENTS HAVE ROLL CURB ASPHALT BASE COURSE AND/OR WHEN PAVEMENT IS ASPHALT PAVEMENT WITH THIS TYPE INLET TO BE USED WHEN

MANHOLES

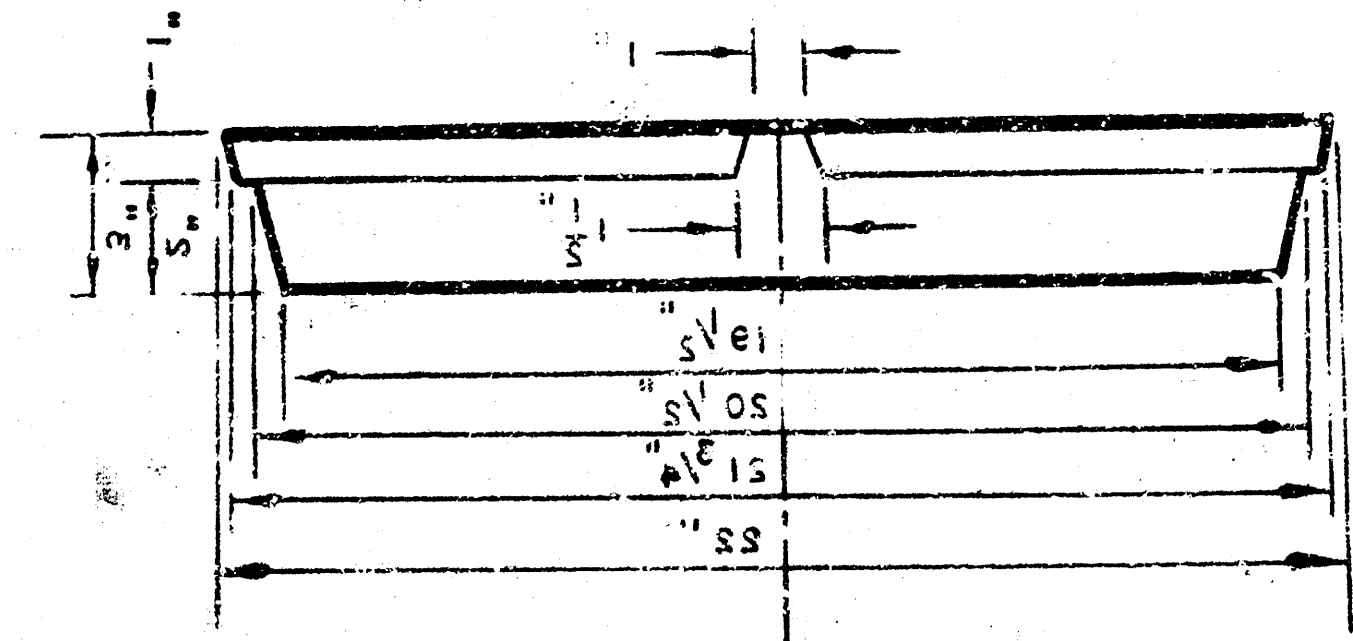
THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD, STANDARD MANHOLES AND DROP MANHOLES, REGARDLESS OF DIAMETER, SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.

DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.

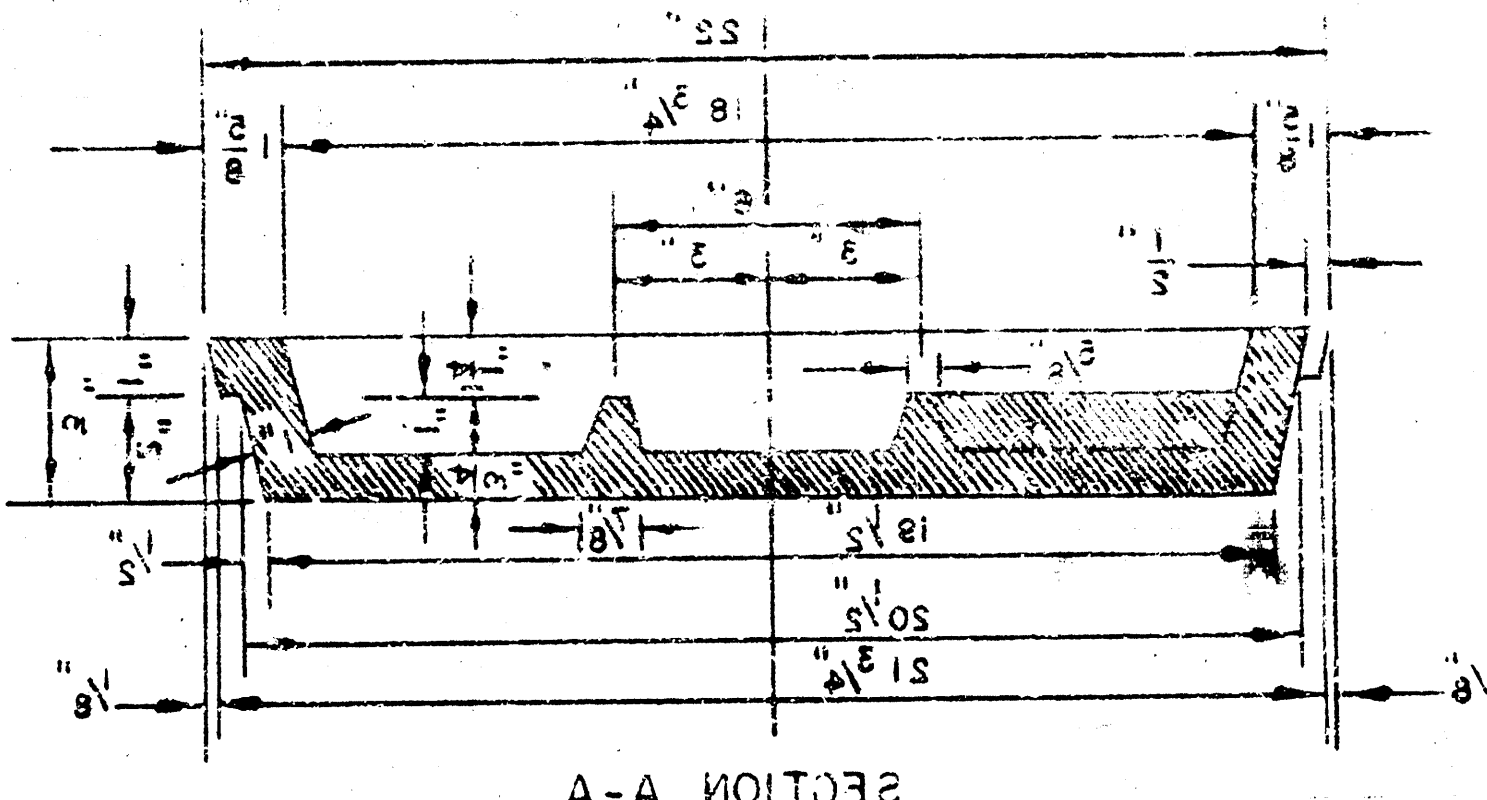
ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 2' DIAMETER UNLESS OTHERWISE SPECIFIED ON PLAN. ALL M.H.'S WITH PIPES 24" & SMALLER SHALL BE 4' DIA.



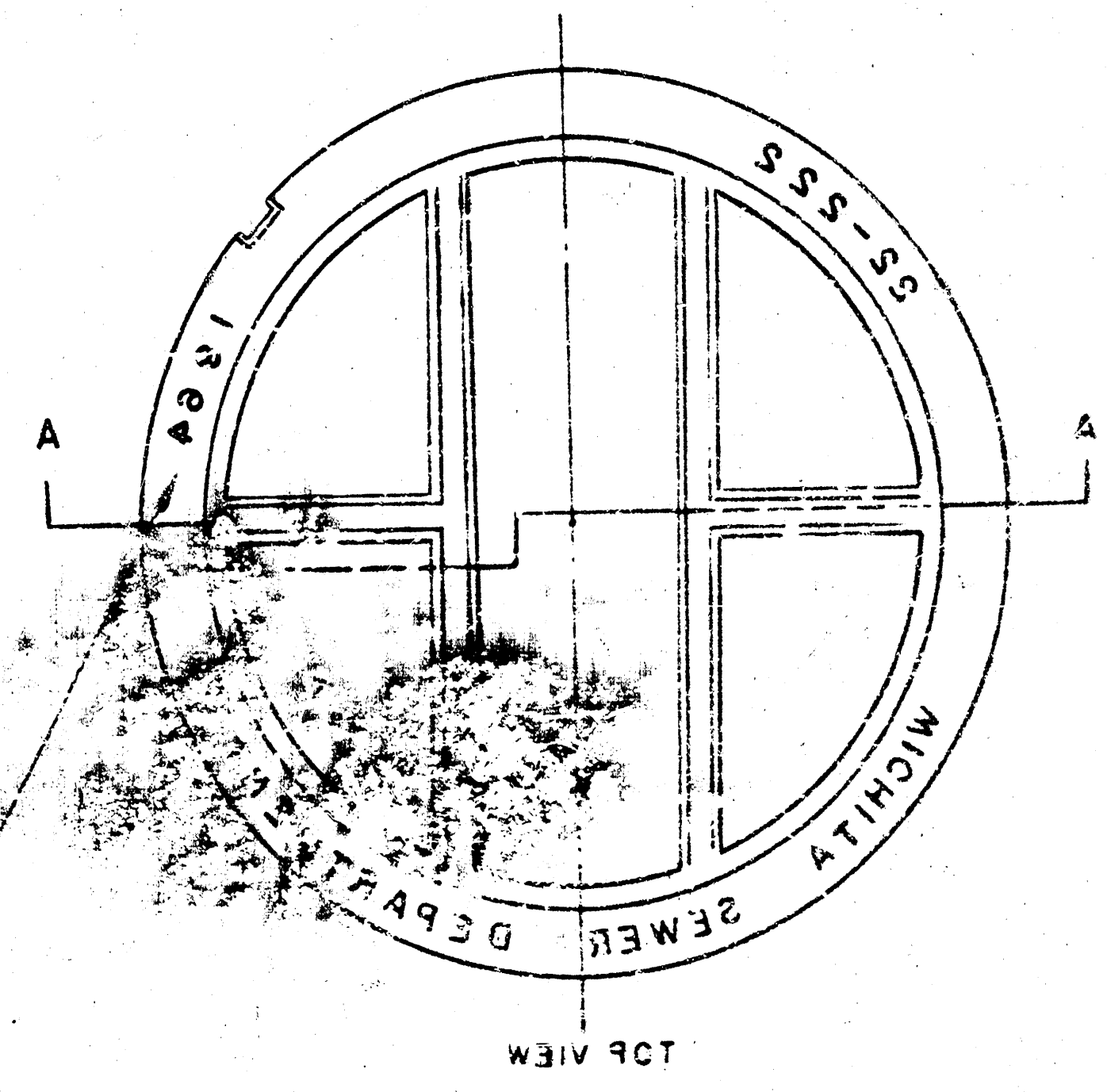
DETAIL OF DROP STACK FOR EXISTING MANHOLES IN GROUND WATER



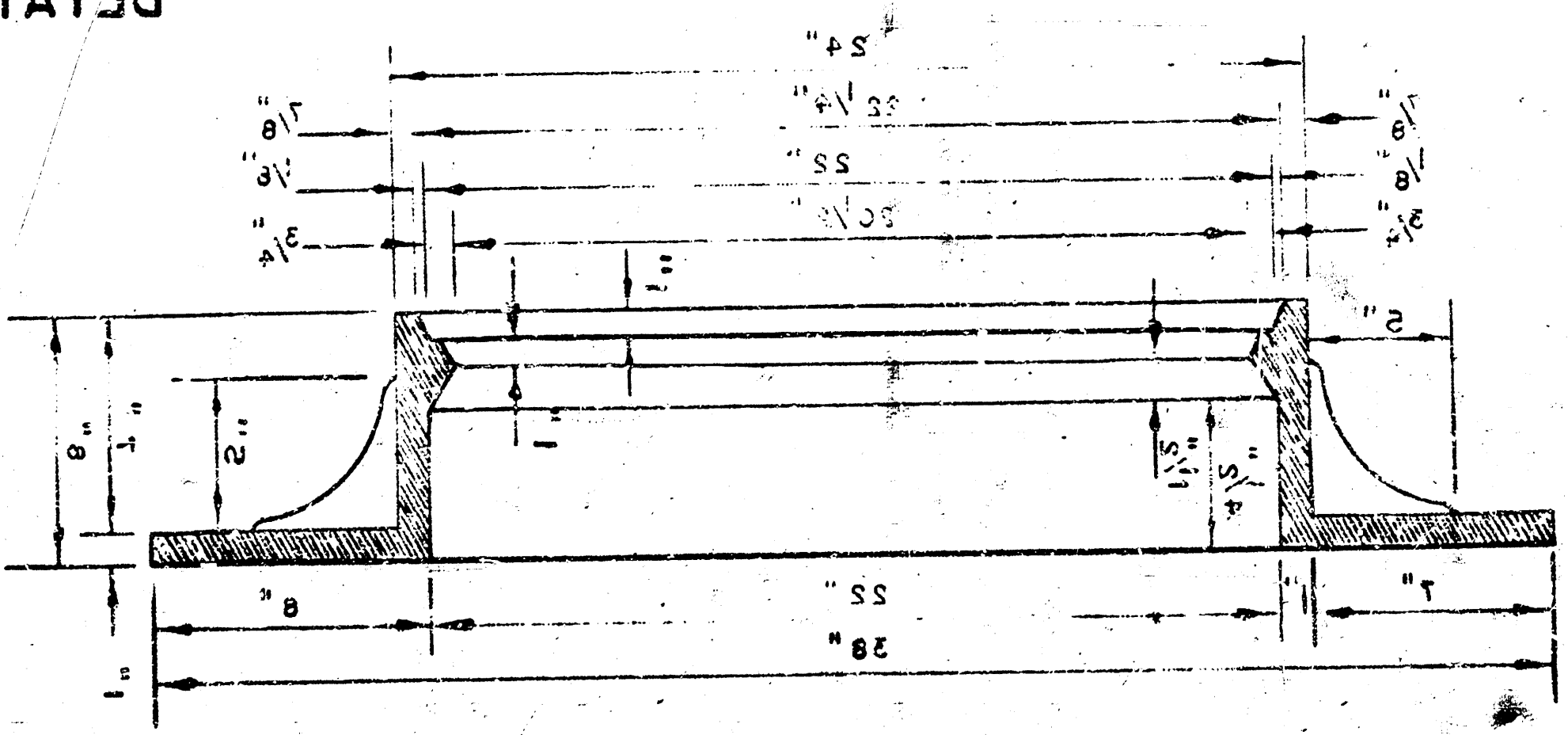
MANHOLE COVER



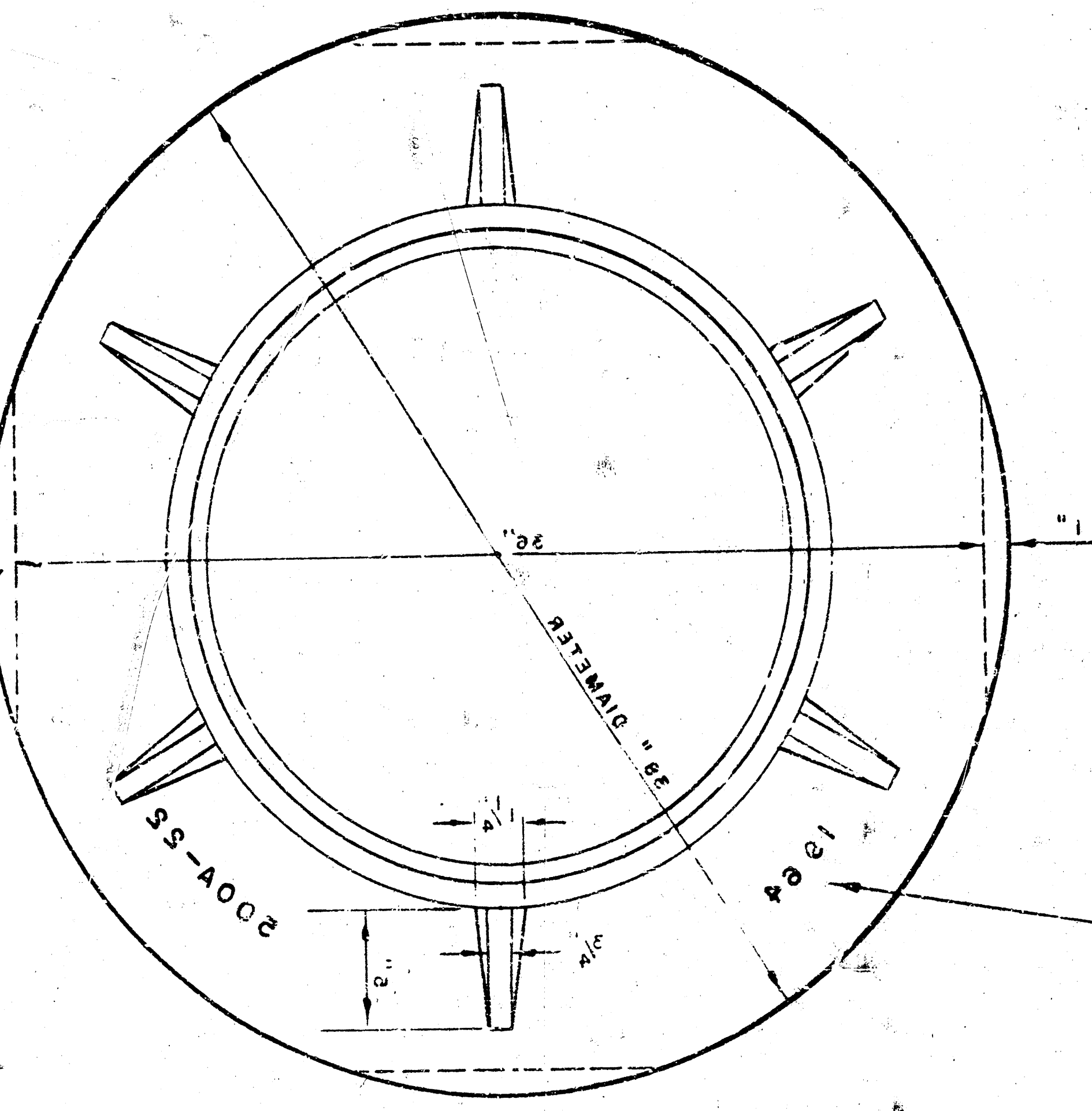
MANHOLE COVER



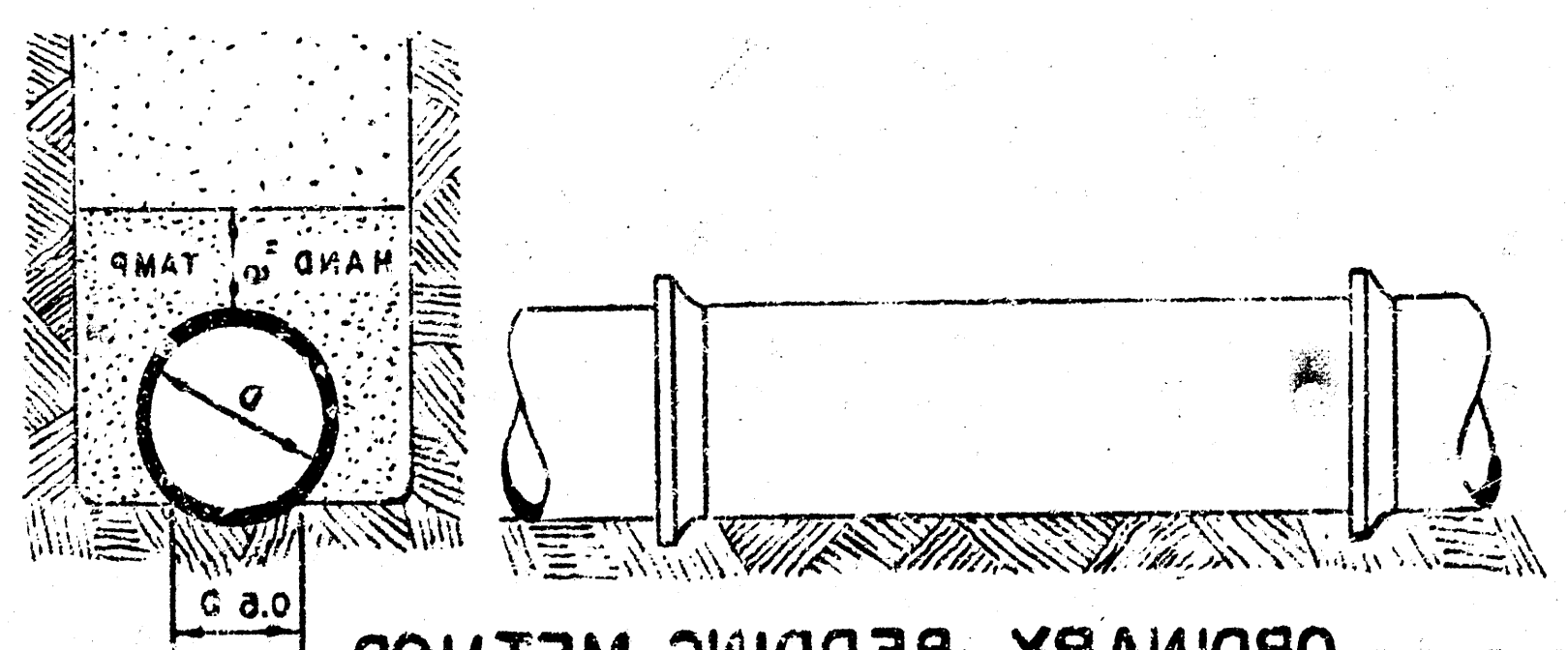
MANHOLE COVER



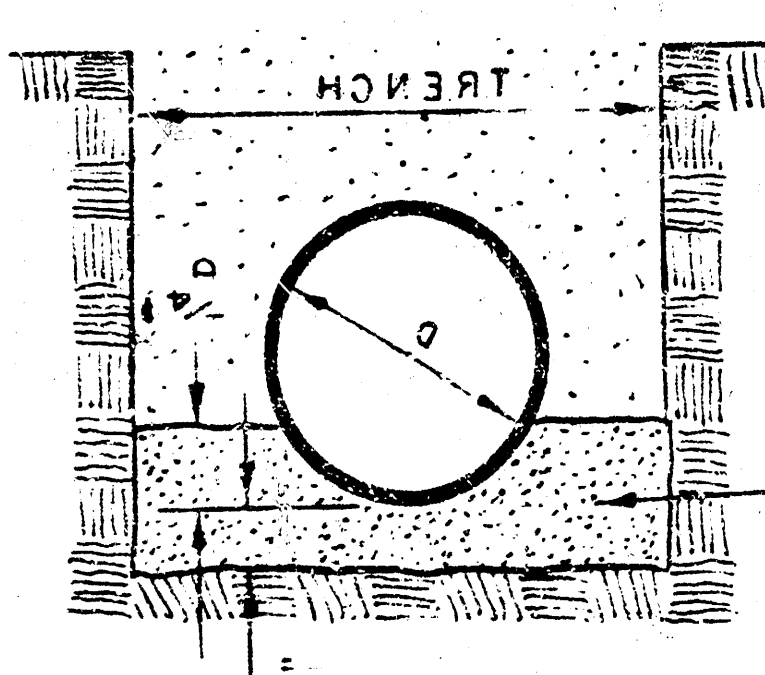
MANHOLE RING



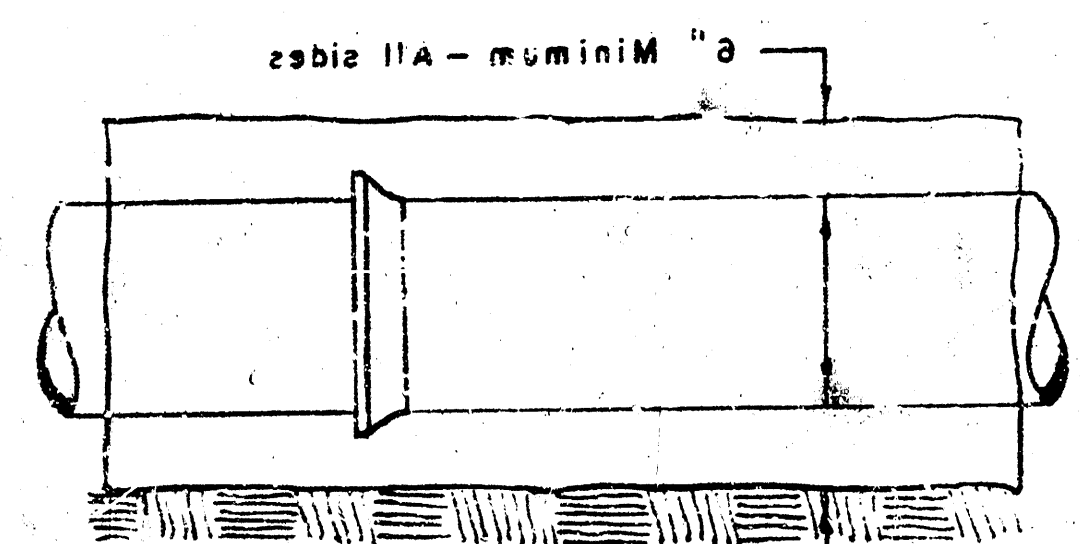
MANHOLE RING



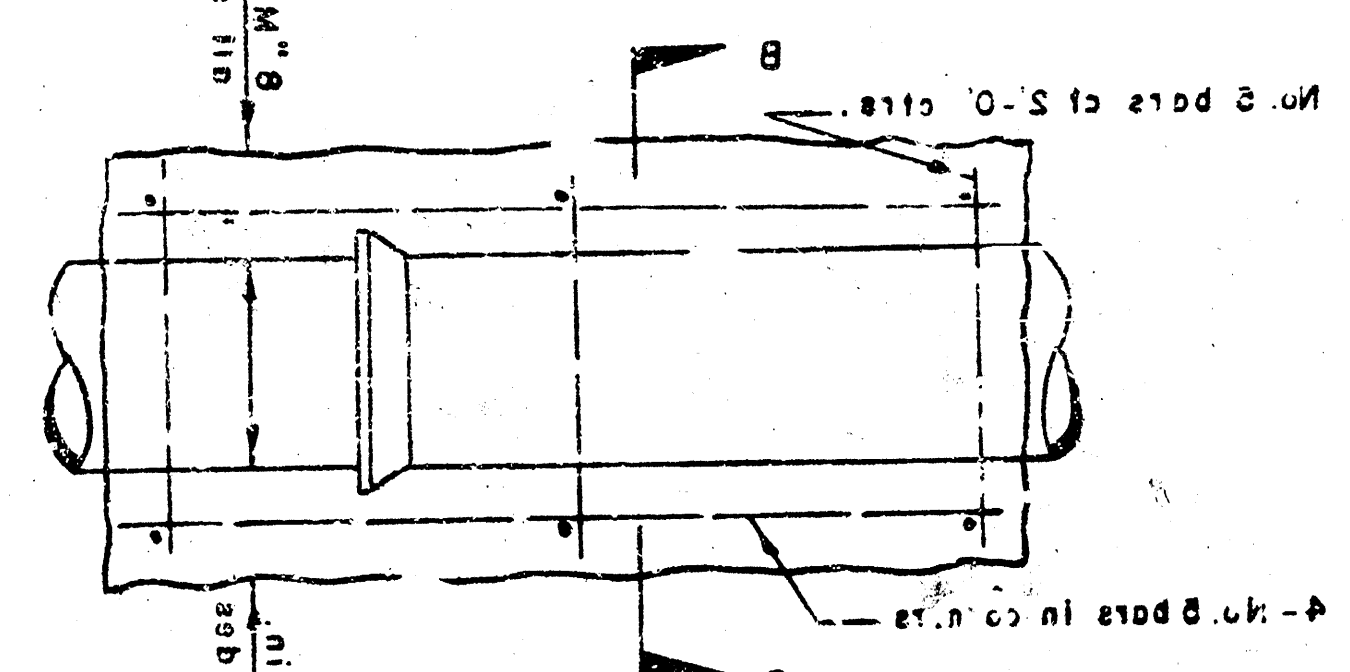
ORDINARY BEDDING METHOD FOR REINFORCED CONCRETE PIPE



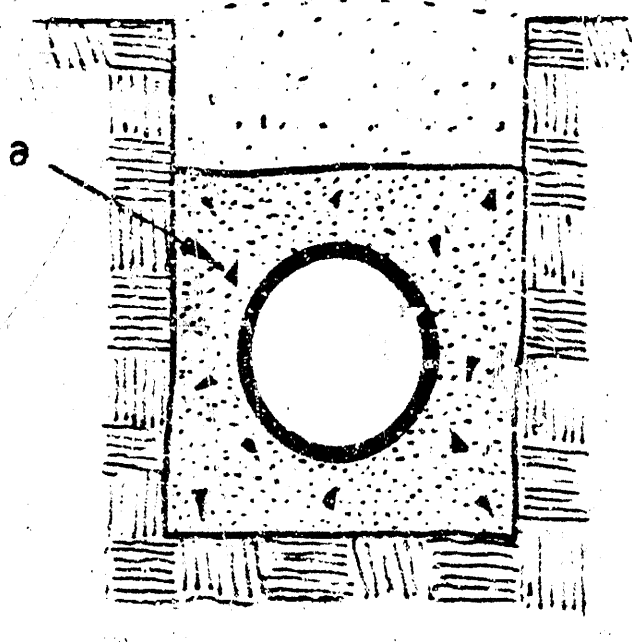
DETAIL OF CONCRETE CRADLE



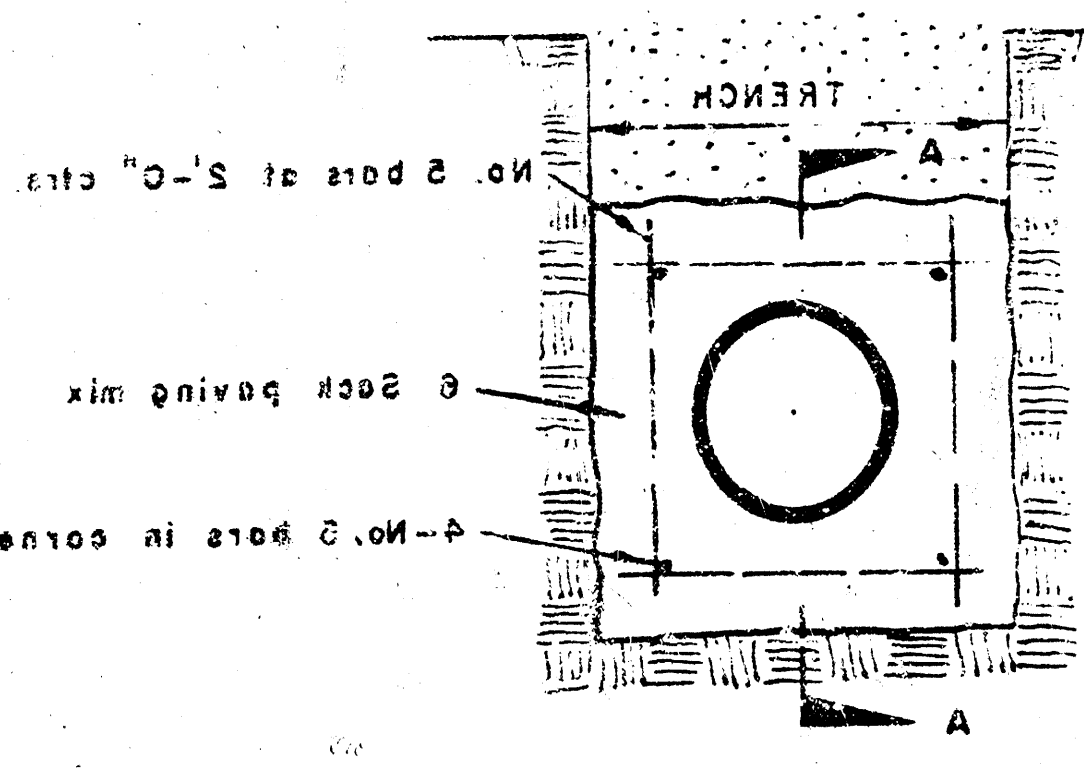
CONCRETE ENCASMENT FOR COVER



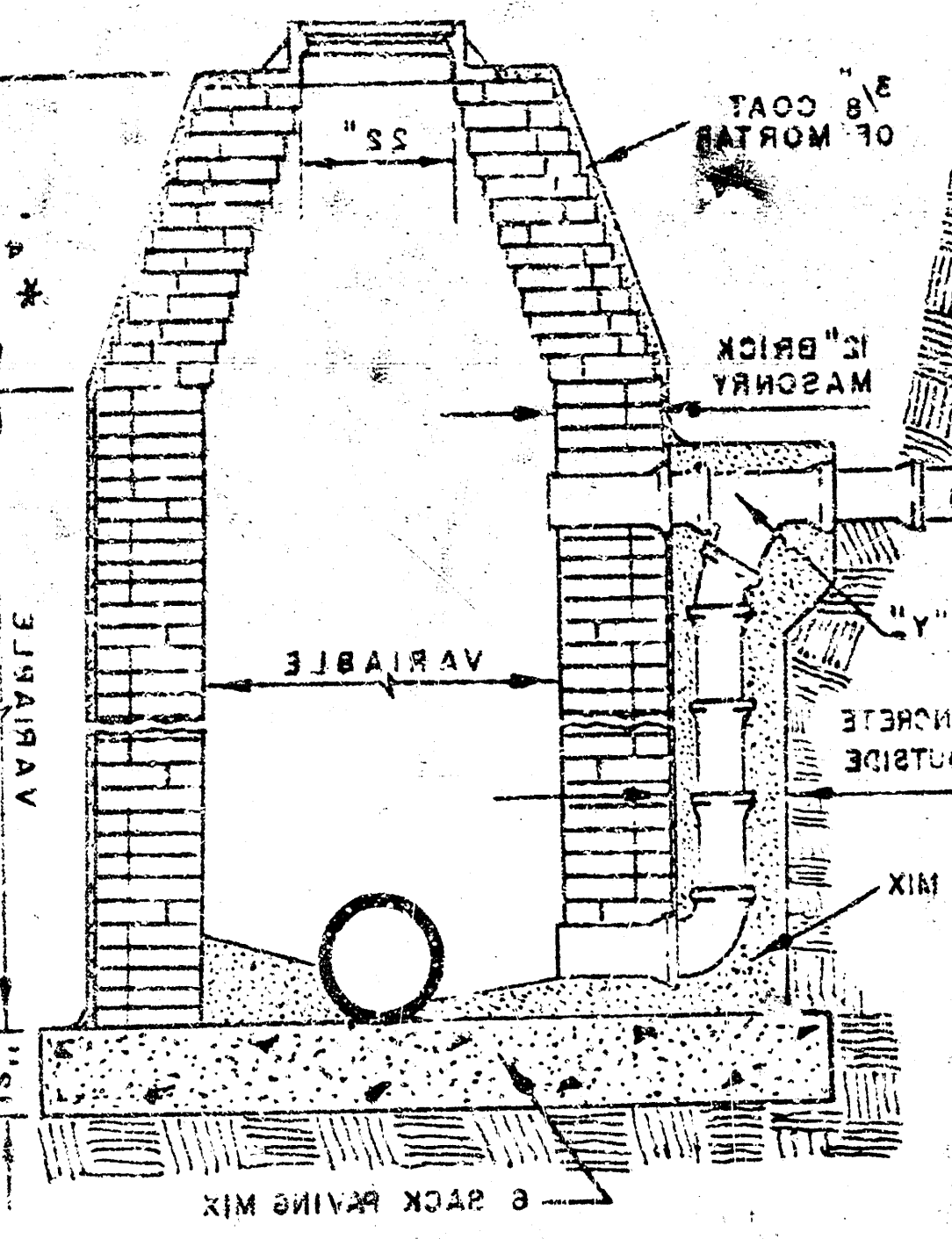
REINFORCED CONCRETE ENCASMENT FOR STRENGTH



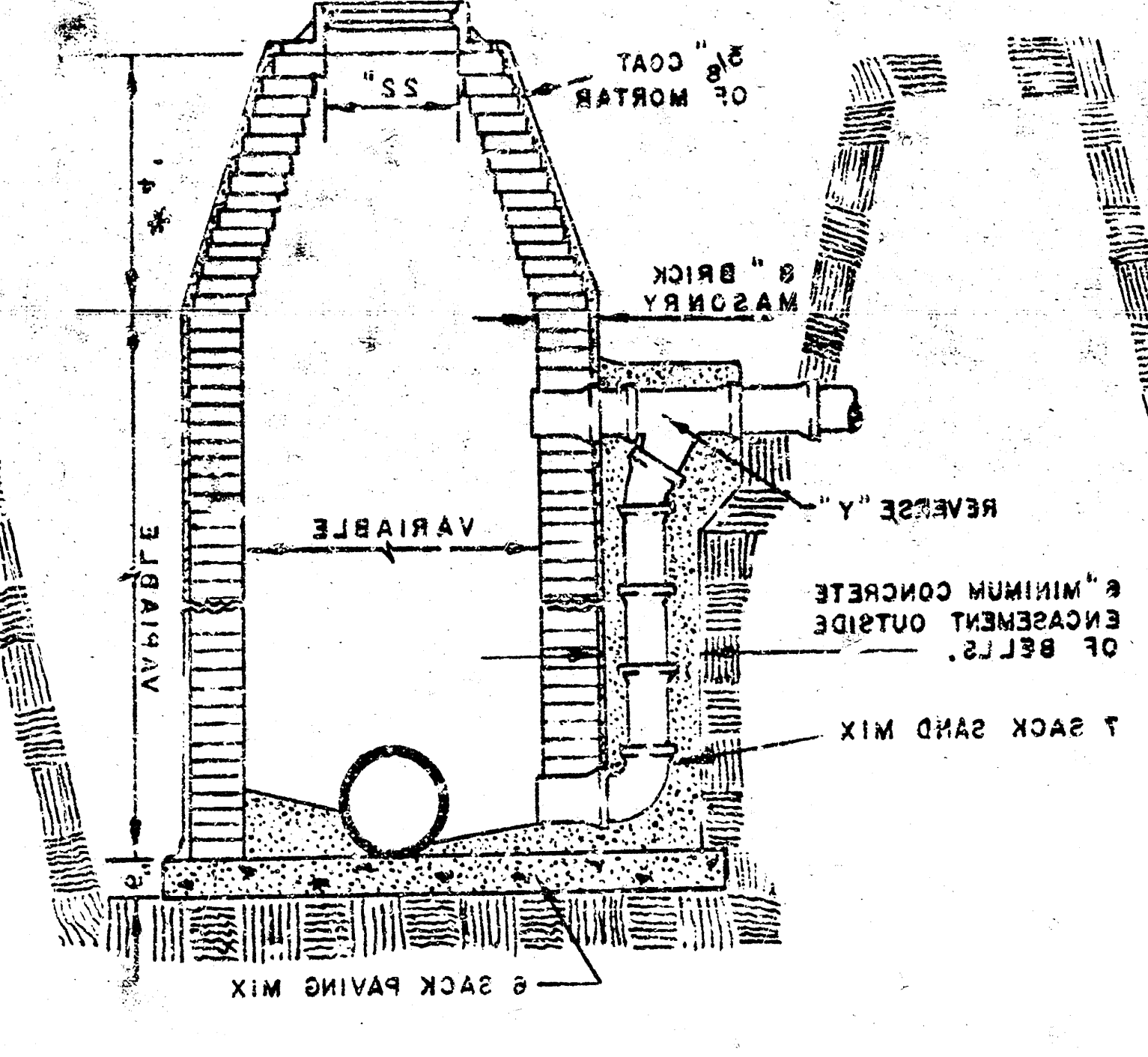
CONCRETE ENCASMENT



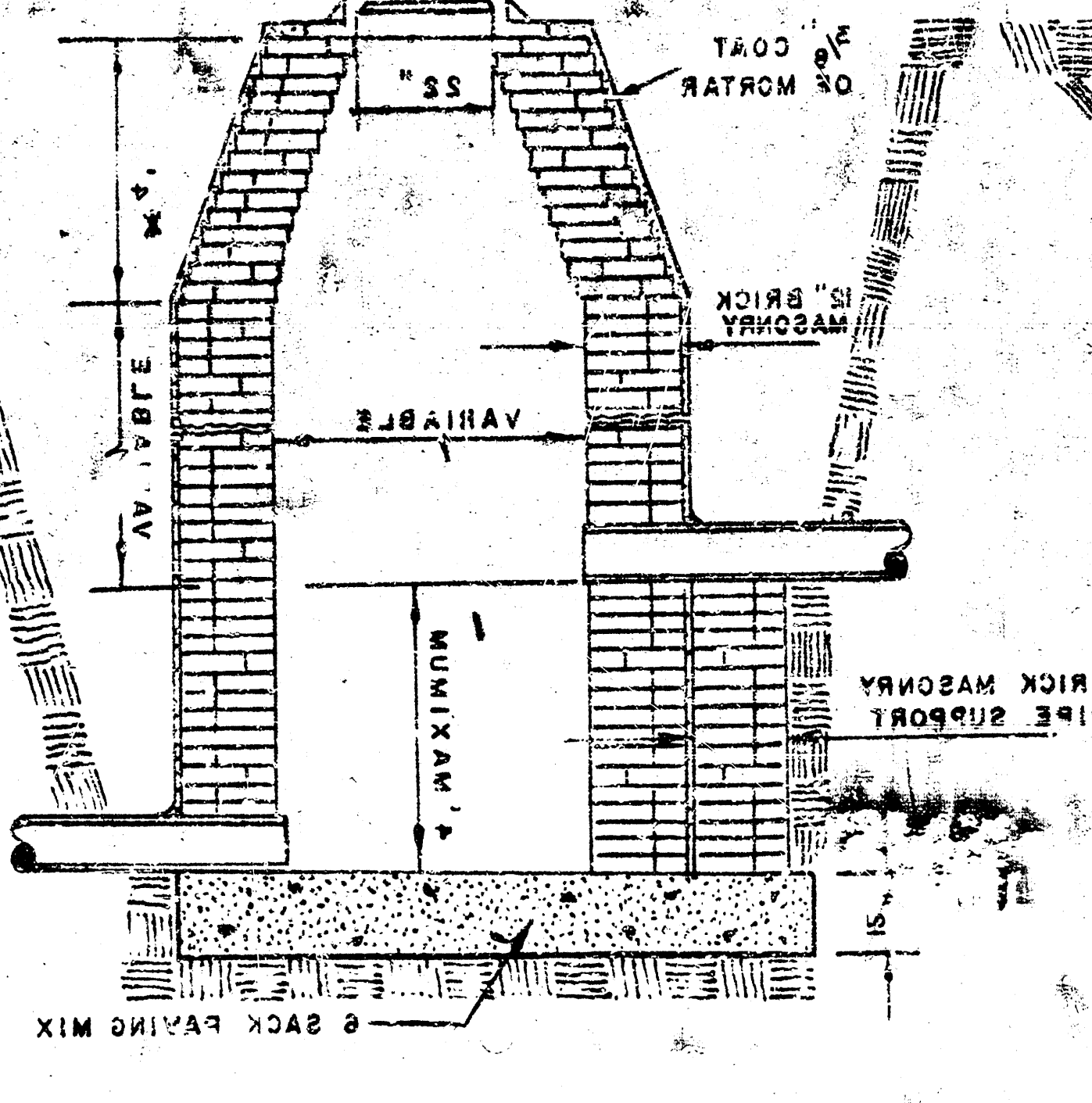
REINFORCED CONCRETE ENCASMENT



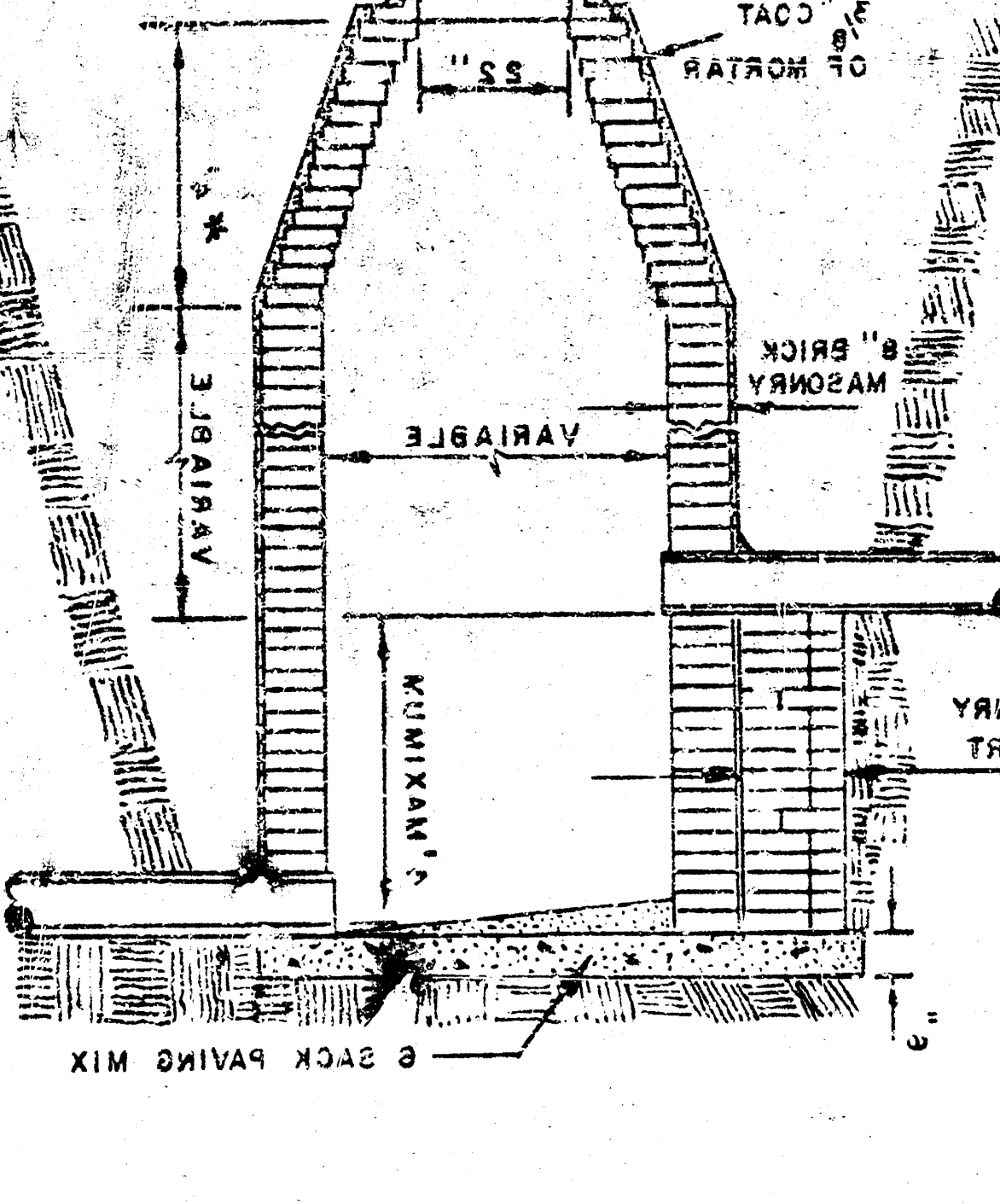
OUTSIDE DROP MANHOLE TYPE B



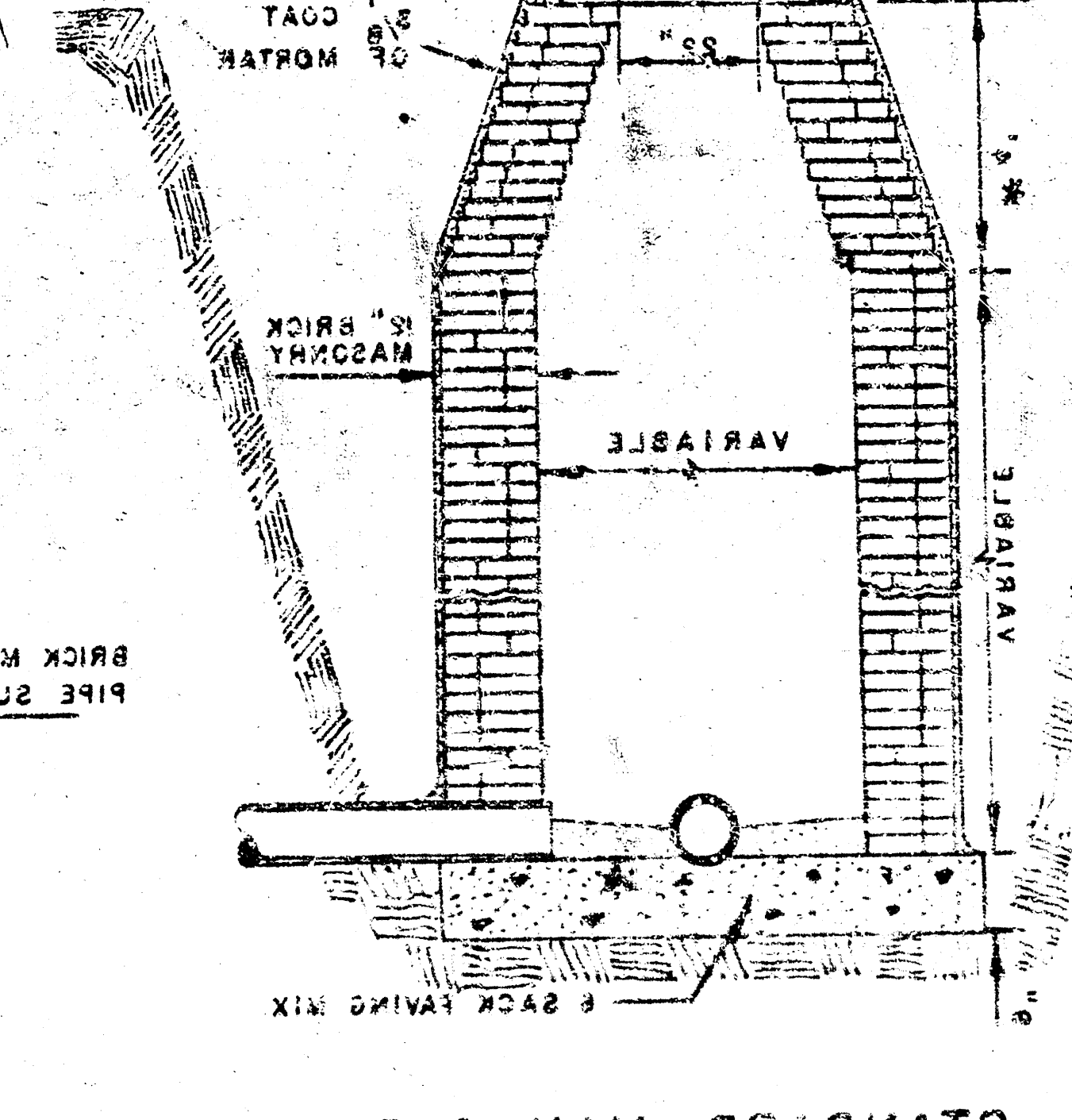
OUTSIDE DROP MANHOLE TYPE A



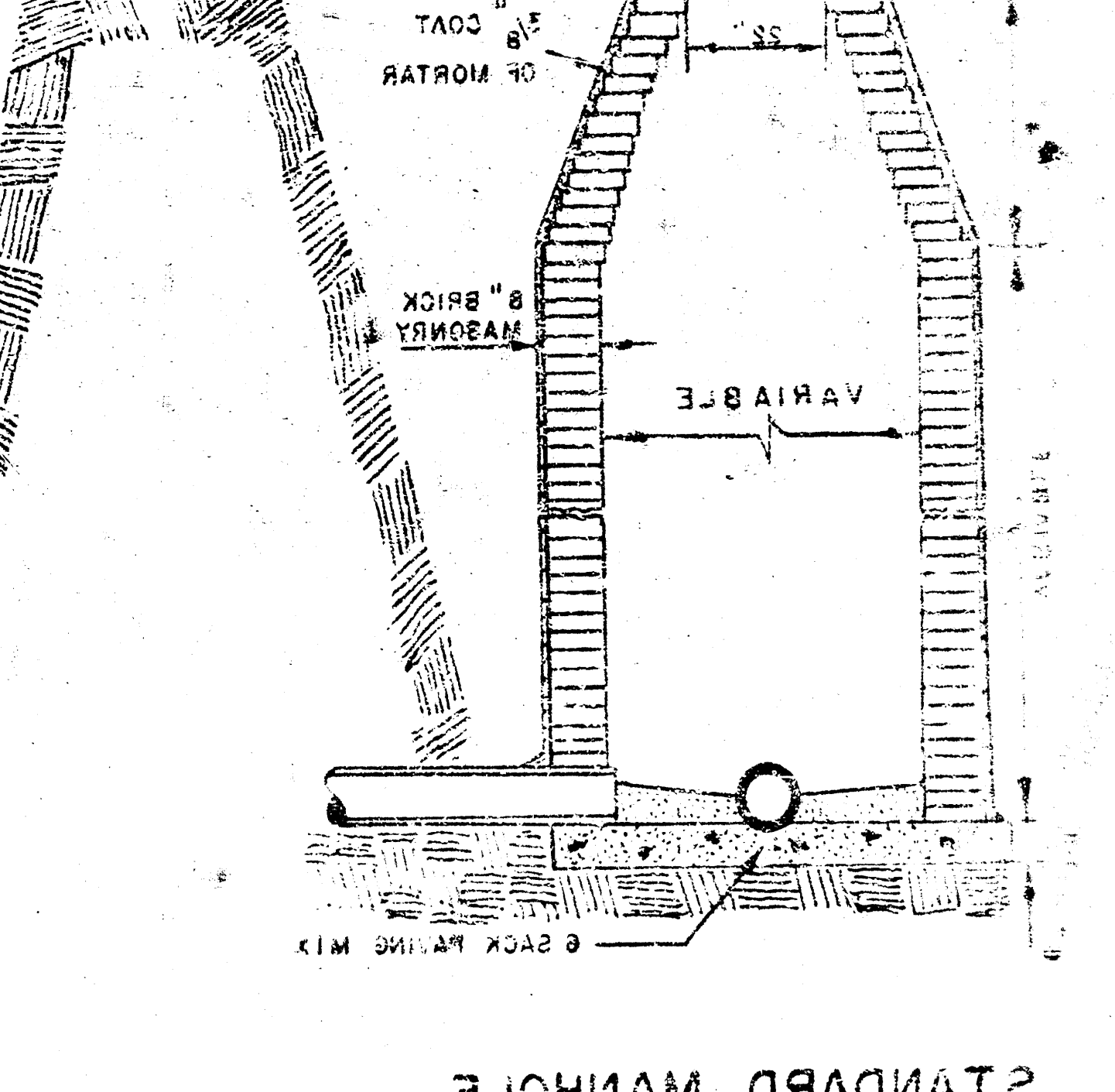
DROP MANHOLE TYPE B



DROP MANHOLE TYPE A



STANDARD MANHOLE TYPE B



STANDARD MANHOLE TYPE A

* DRAW = 6' ON 2' DIA. M.H.

SEWER APPURTENANCES

ADOPTED AS STANDARD DESIGN BY

ENGINEERING DIVISION

CITY OF WICHITA, KANSAS

R. W. LINN