

INTERSECTION OF THIRD & RIVERVIEW RIVERVIEW AVE.

N. L. LOT 1, BLK. 2, PARK PLAZA 2ND ADDN. TO
N. L. LOT 44, ON RIVERVIEW, WATERMAN'S ADDN. TO WATERMAN'S ADDN.

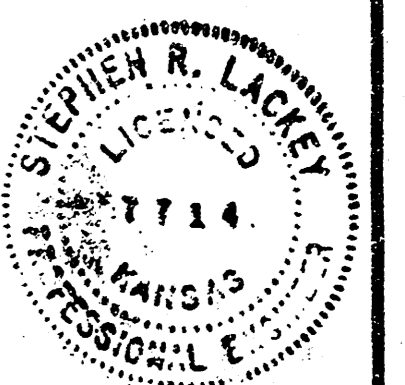
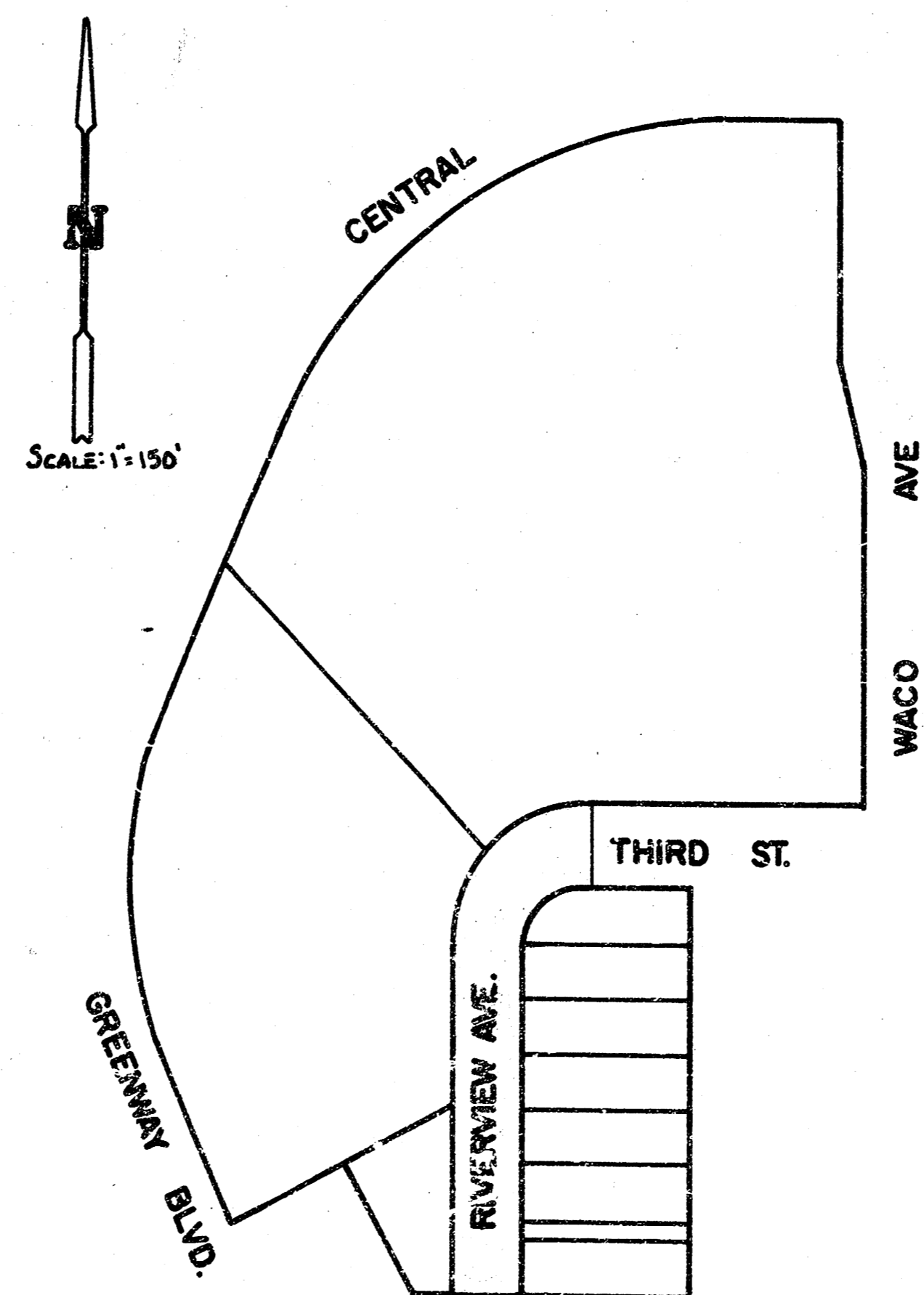
CITY OF WICHITA, KANSAS

DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN - DIRECTOR OF ENGINEERING/CITY ENGINEER

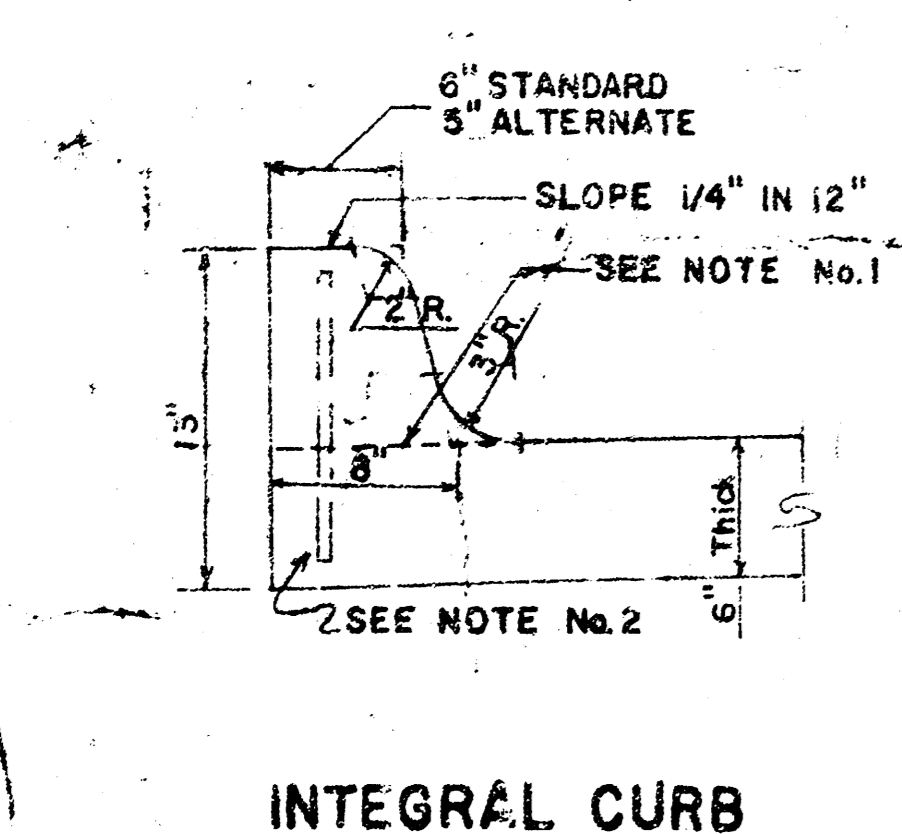
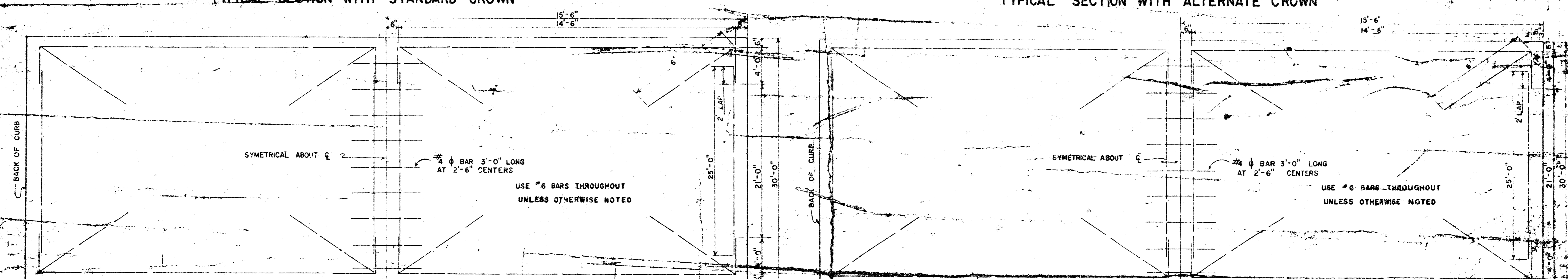
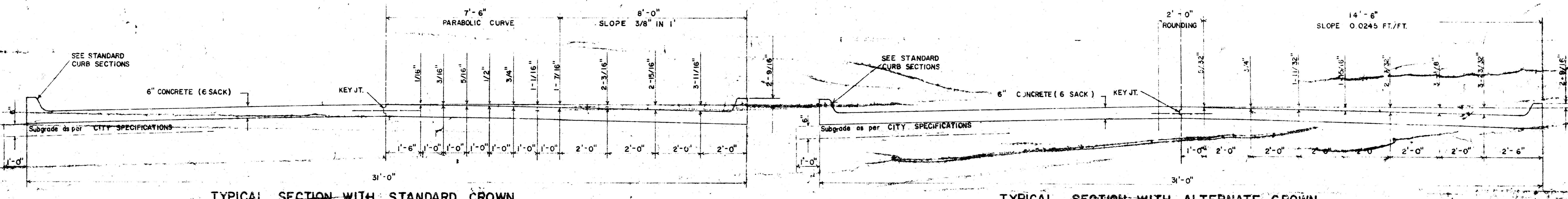
PROJ. No. 472 76 245 80943 000 000001

DATE:

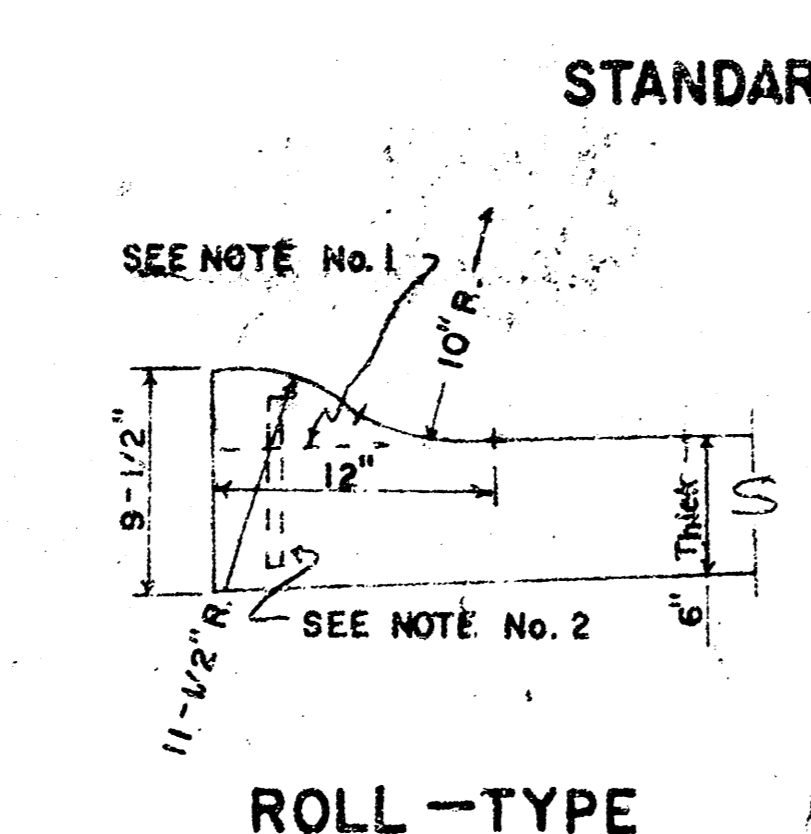


RIVERVIEW AVE.

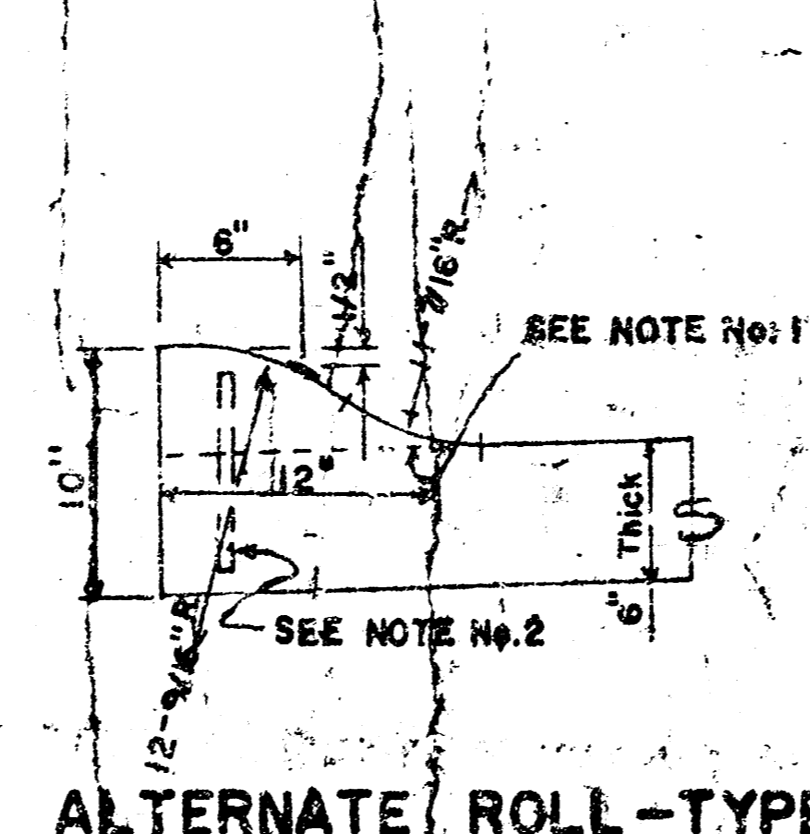
TYPICAL SECTIONS OF 30' CONCRETE PAVEMENT



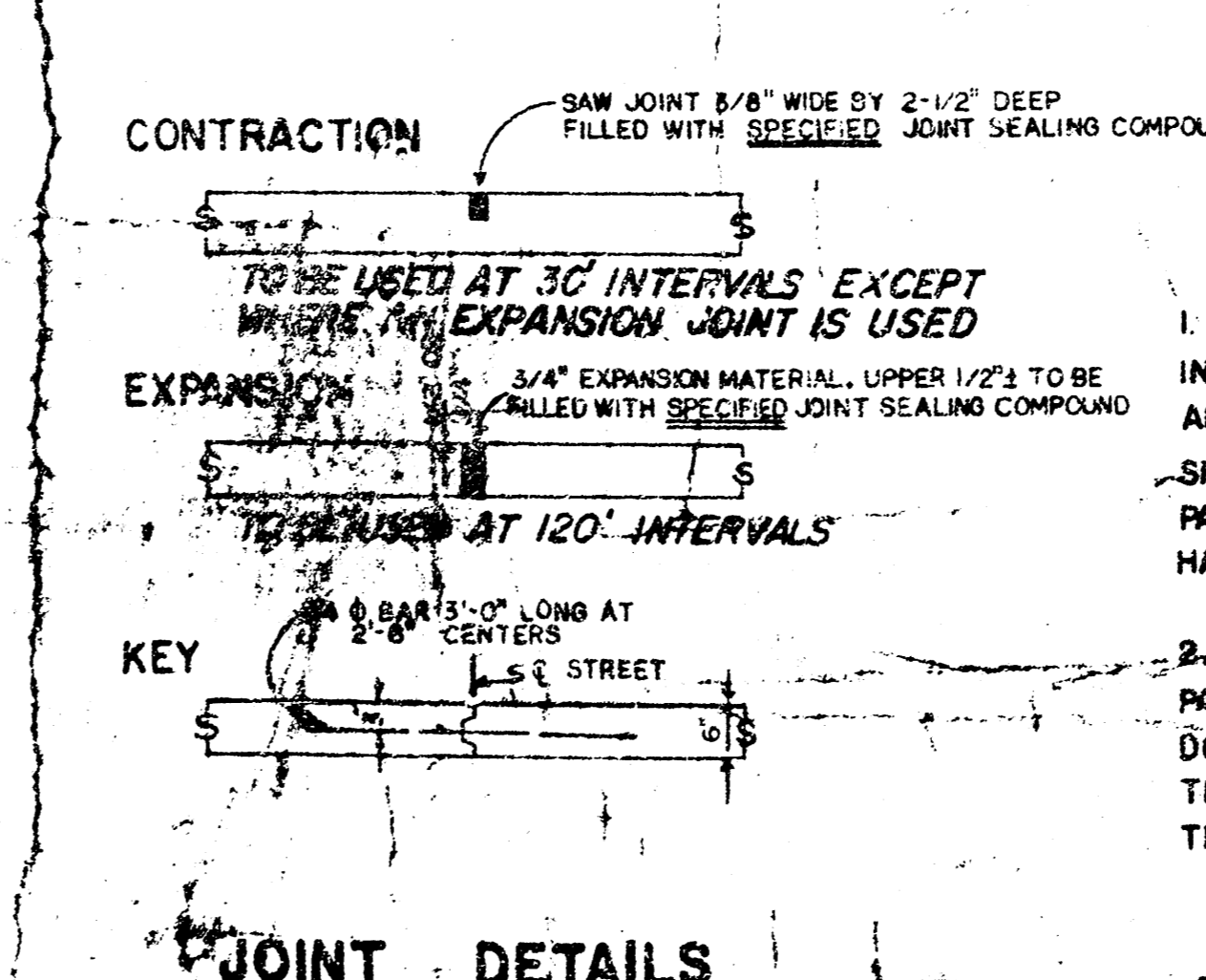
INTEGRAL CURB



ROLL-TYPE



ALTERNATE ROLL-TYPE



JOINT DETAILS

GENERAL NOTES

- 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'-6" INTERVALS. THESE DOWEL BARS SHALL NOT BE LESS THAN 1/2" OR MORE THAN 3/4" IN DIAMETER.

CITY OF WICHITA, KANSAS
DEPARTMENT OF ENGINEERING

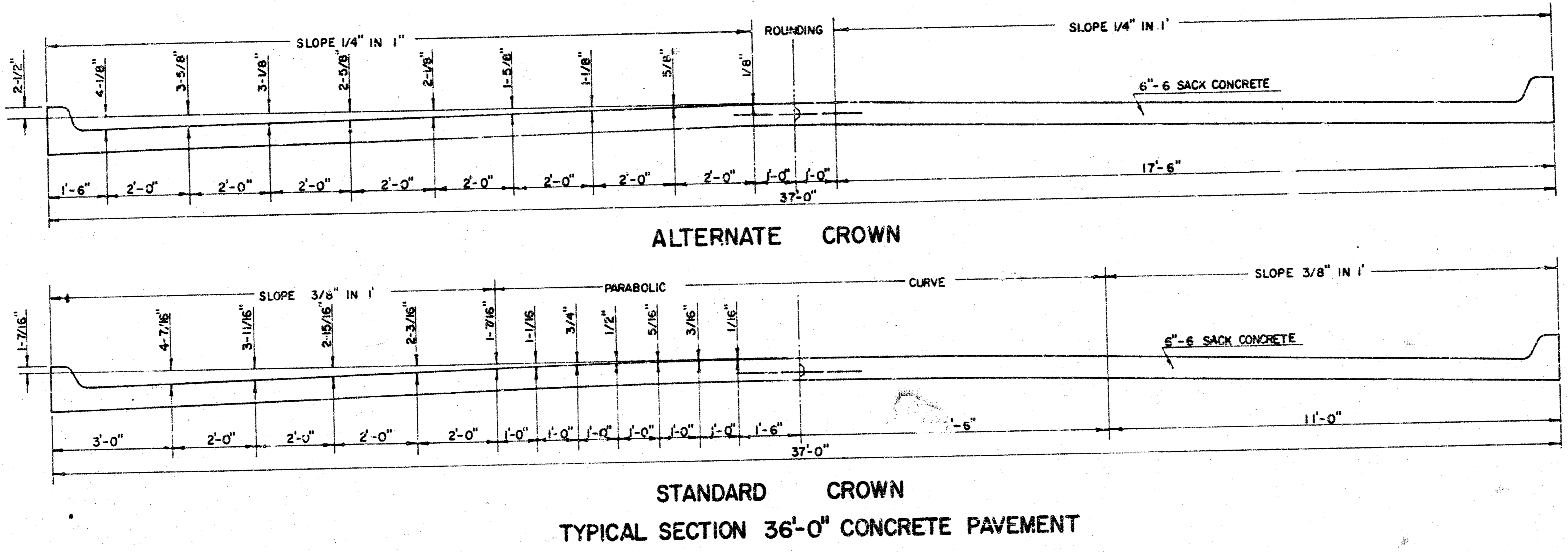
R. W. BRUGGEMAN - DIRECTOR OF ENGINEERING/CITY ENGINEER

DATE: PROJ. No. 472 76 245 80943 000 000 000 2/76

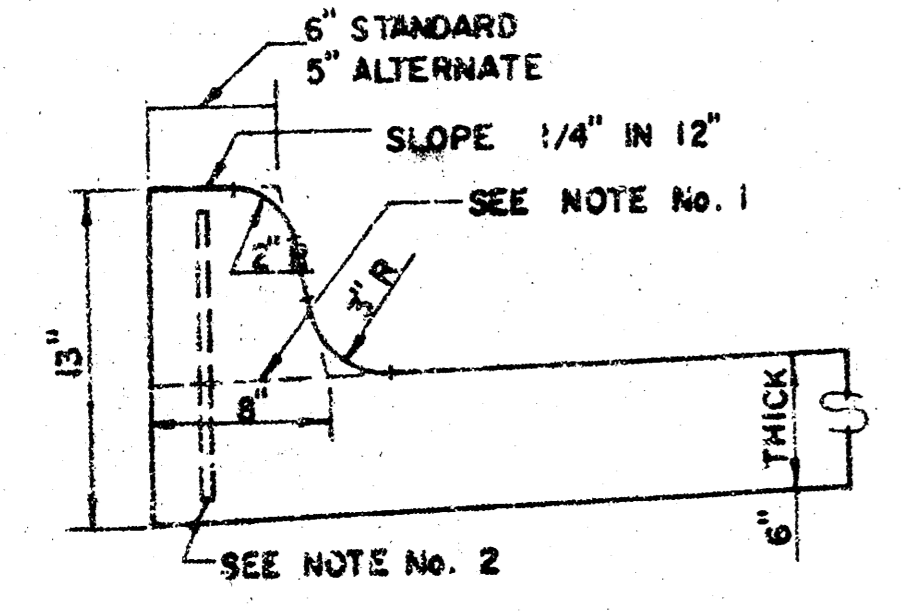
THIRD ST.

GENERAL NOTES

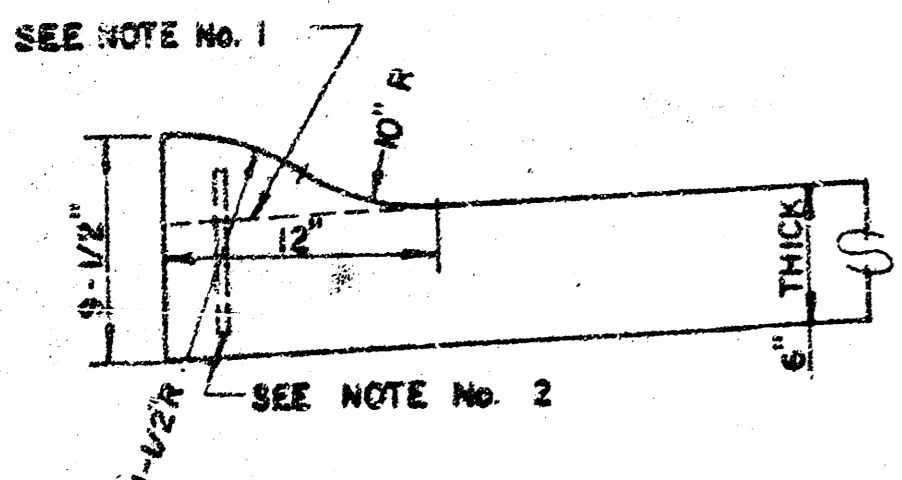
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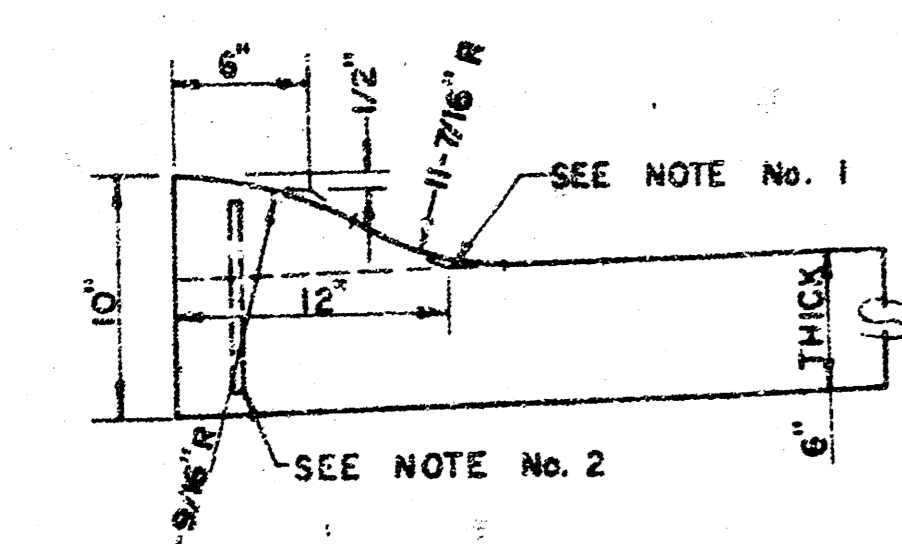
STANDARD CROWN
TYPICAL SECTION 36'-0" CONCRETE PAVEMENT



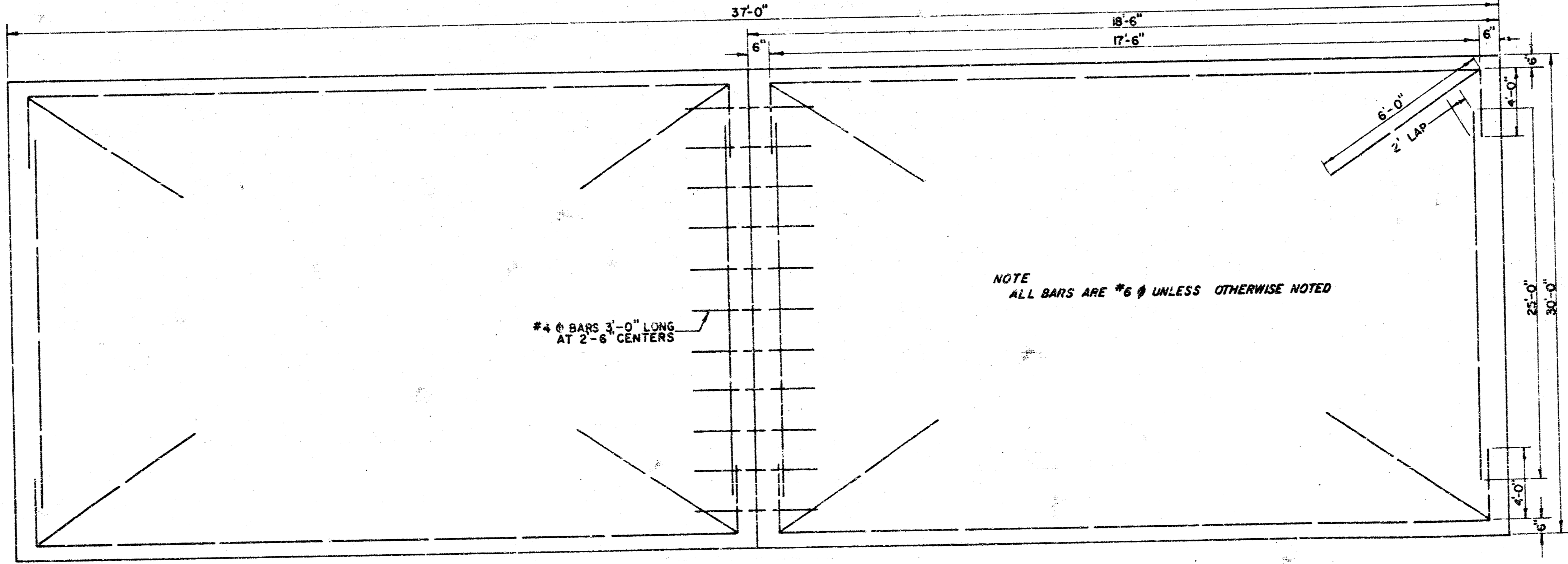
INTEGRAL CURB



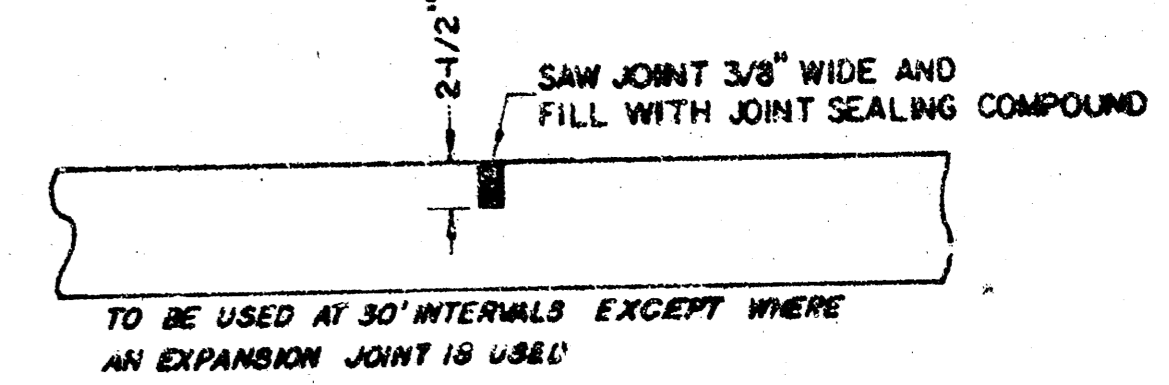
ROLL-TYPE



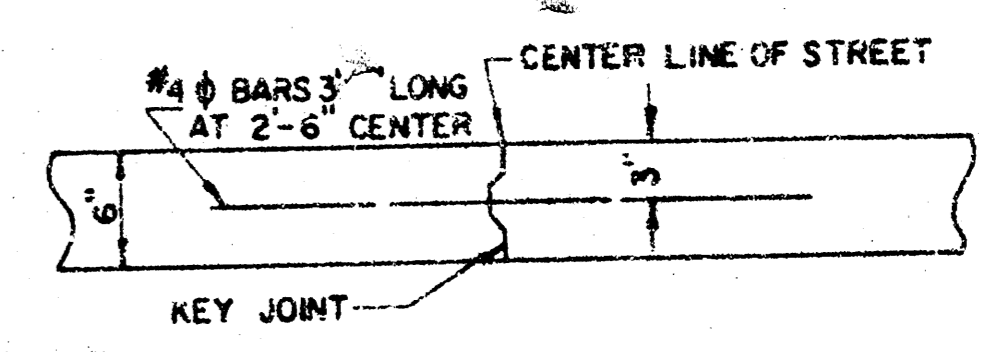
ALTERNATE ROLL-TYPE



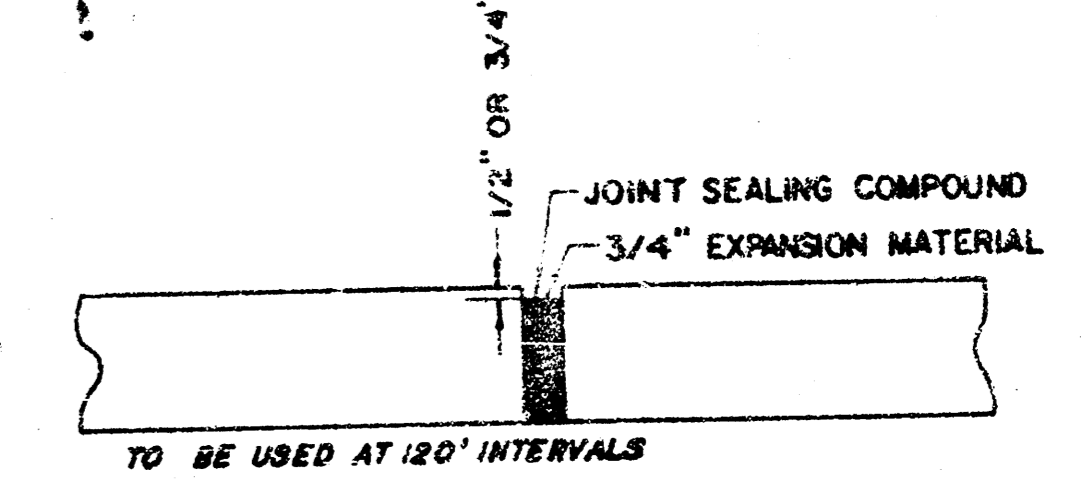
STEEL PATTERN
NO SCALE



CONTRACTION JOINT DETAIL



KEY JOINT DETAIL

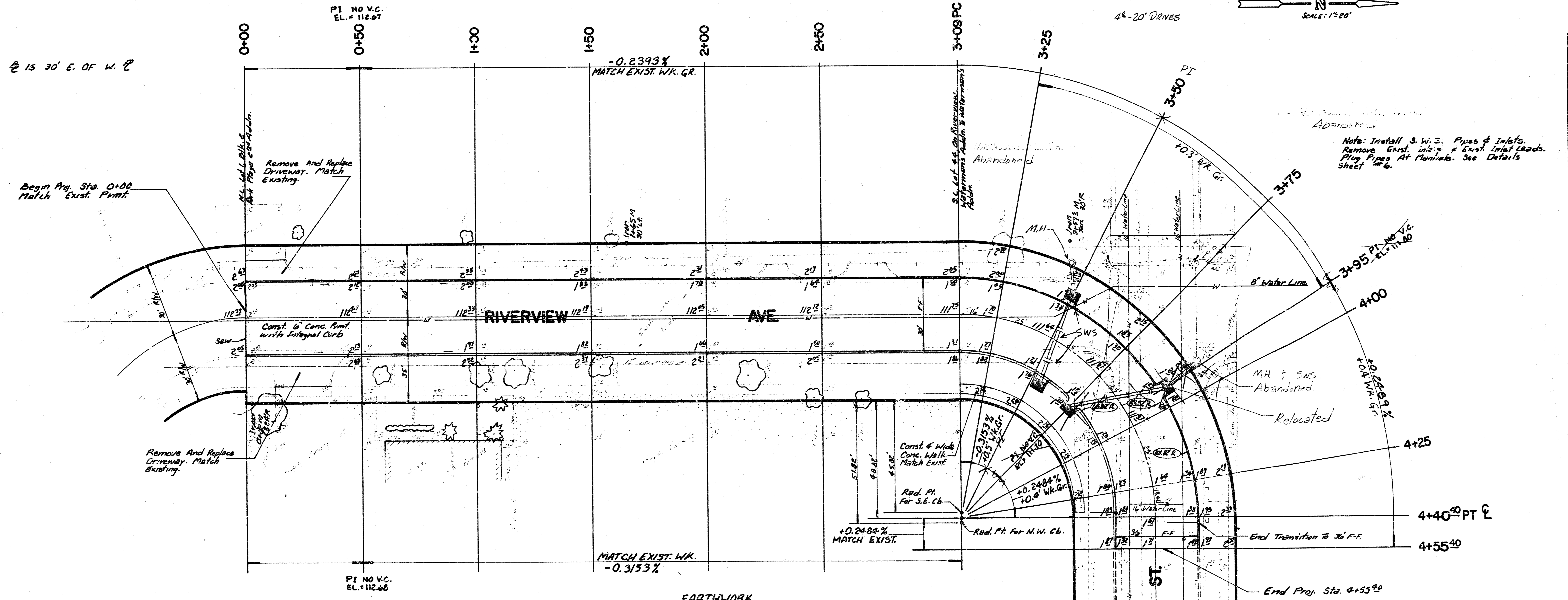
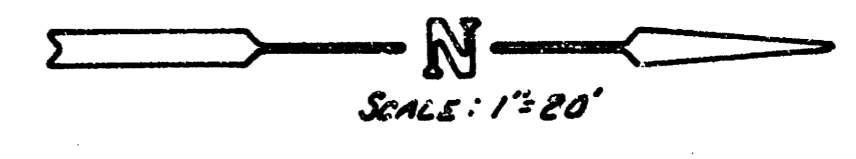


EXPANSION JOINT DETAIL

6" CONCRETE PAVEMENT /w INT. CURB
CITY OF WICHITA, KANSAS
 -DEPARTMENT OF ENGINEERING-
 R. W. BRUGGEMAN
 DIRECTOR OF ENGINEERING/CITY ENGINEER
 DATE: PROJ. No. 472.76 245 60943 000 000 001

B.M. 111.75 ~ R.R. Spike N. Fc. PP S.E. Cor. Waco & 3rd St.
 B.M. 113.87 ~ "X" On Walk N.W. Cor. OF Bldg. S.E. Cor. Main & Central
 B.M. 114.07 ~ N.E. Cor. Conc. Base R.R. Signal Box S.W. Cor. 3rd & Wichita.
 B.M. 112.15 ~ R.R. Spike N. Fc. PP S.W. Cor. 3rd & Riverview.

Begin Transition
 From 30' F.F. To 36' F.F.



± 15 30' E. OF W. C.

Begin Proj. Sta. 0+00
 Match Exst. Pmt.

Note: Install S.W. E. Pipes & Inlets.
 Remove Exst. Inlets & Exst. Inlet Leads.
 Plug Pipes At Manholes. See Details
 Sheet 46.

Survey ANBAR SH 518.00
 Plan KLAS
 L.S.
 Checked

CAUTION
 UNDERGROUND
 UTILITIES

SUB-GRADE
 TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

EARTHWORK

PROPERTY EXCAVATION	220.5 C.Y.
X-SECTION	10%
TOTAL	242.6 C.Y.

CURVE DATA S.W. CURB

R	= 65.82'
Δ	= 89° 49' 30"
L	= 103.19'
T	= 65.62'
C	= 92.92'
D	= 81.04816'/100'
D	= 0.81048'/ft.

CURVE DATA E

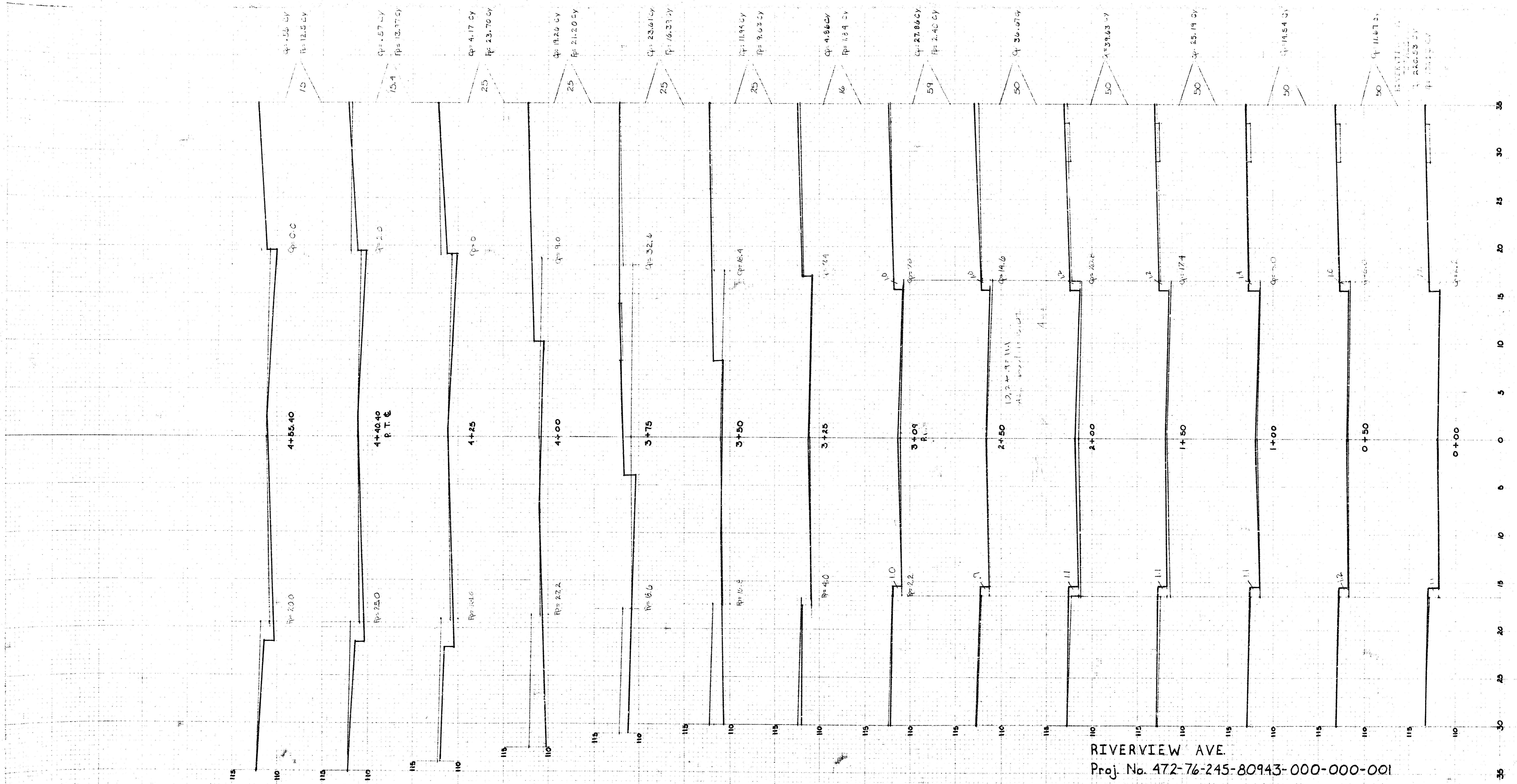
R	= 83.82'
Δ	= 89° 49' 30"
L	= 131.41'
T	= 83.56'
C	= 118.36'
D	= 68.35477'/100'
D	= 0.683548'/ft.

CURVE DATA N.W. CURB

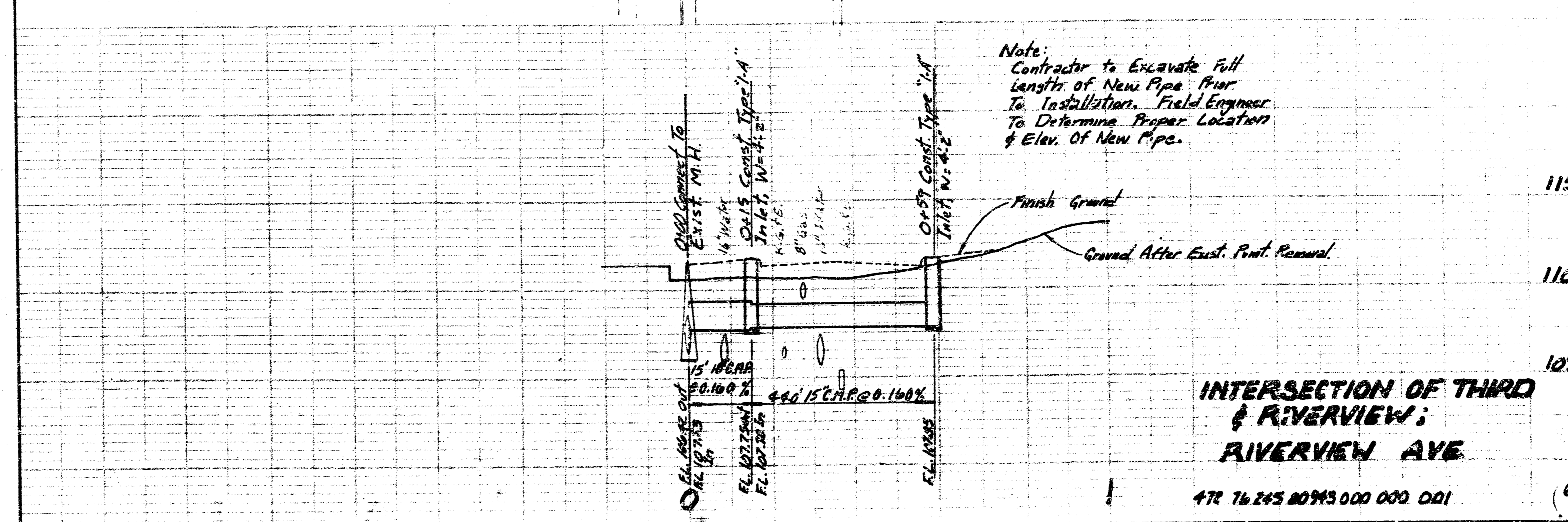
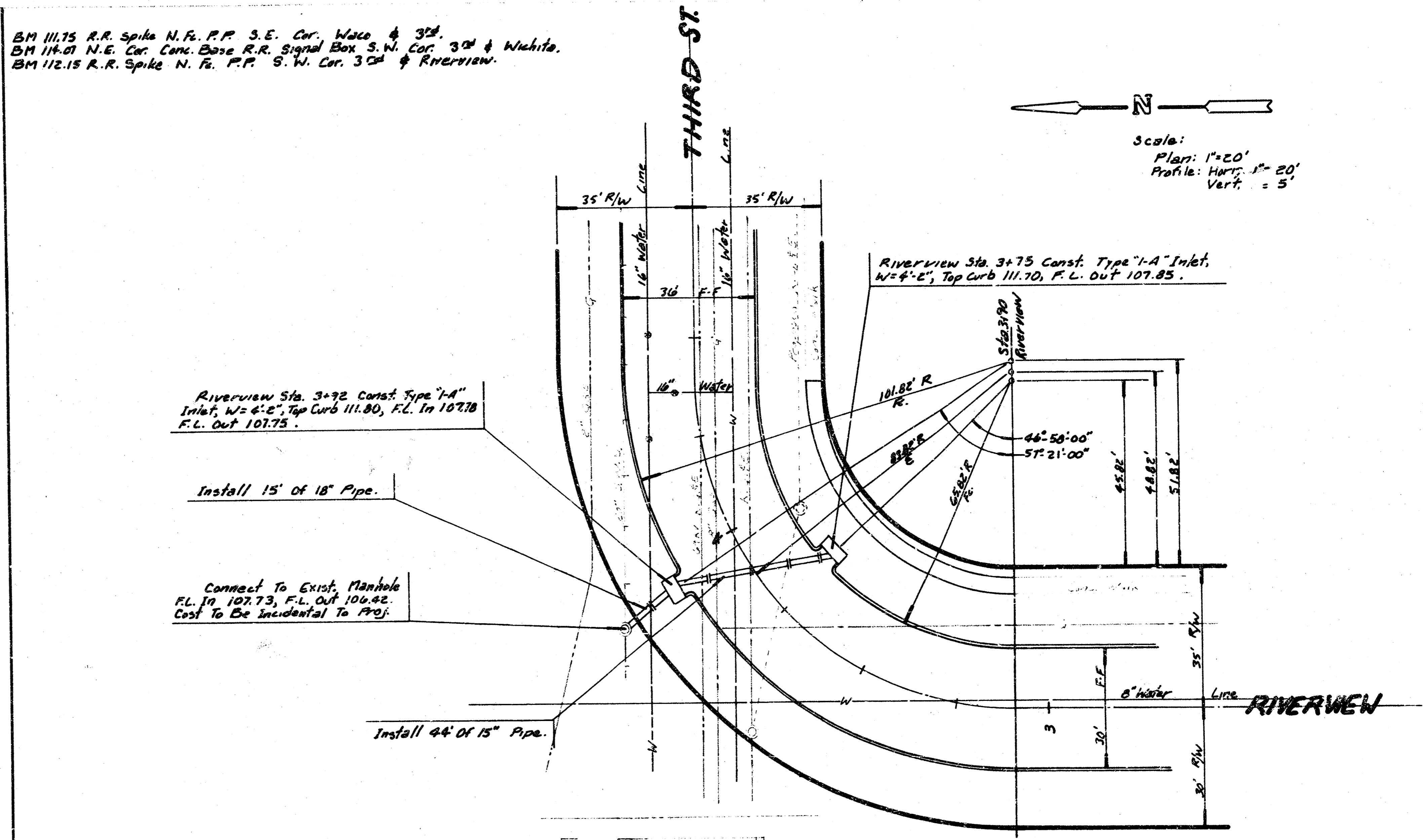
R	= 101.82'
Δ	= 89° 49' 30"
L	= 159.65'
T	= 101.51'
C	= 193.78'
D	= 56.27015'/100'
D	= 0.562708'/ft.

1,724 S.Y. MANIPULATION

INTERSECTION OF THIRD & RIVERVIEW;
RIVERVIEW AVE.
 472 76 145 80943 000 000 001 4/8

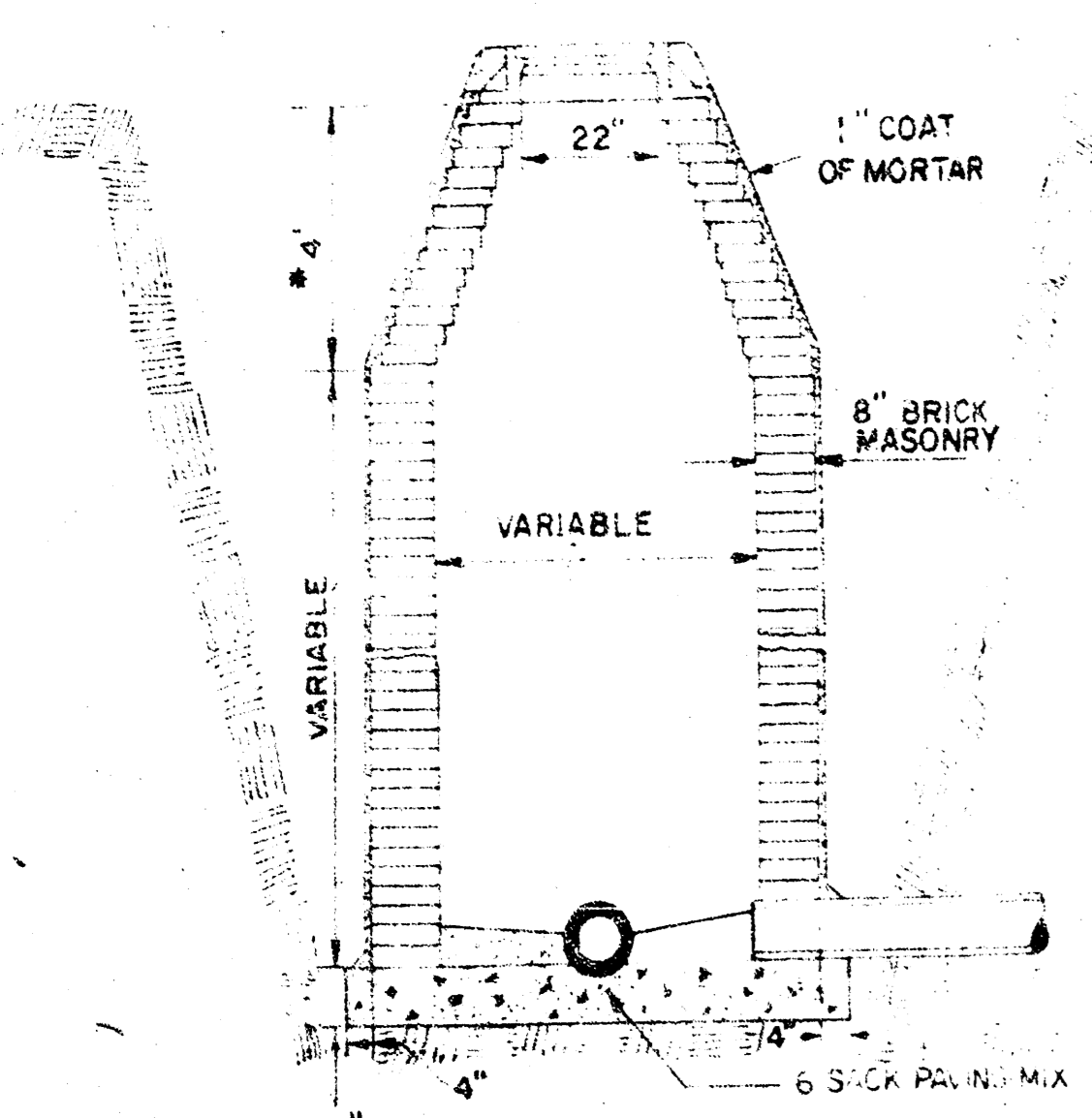


RIVERVIEW AVE.
 Proj. No. 472-76-245-80943-000-000-001

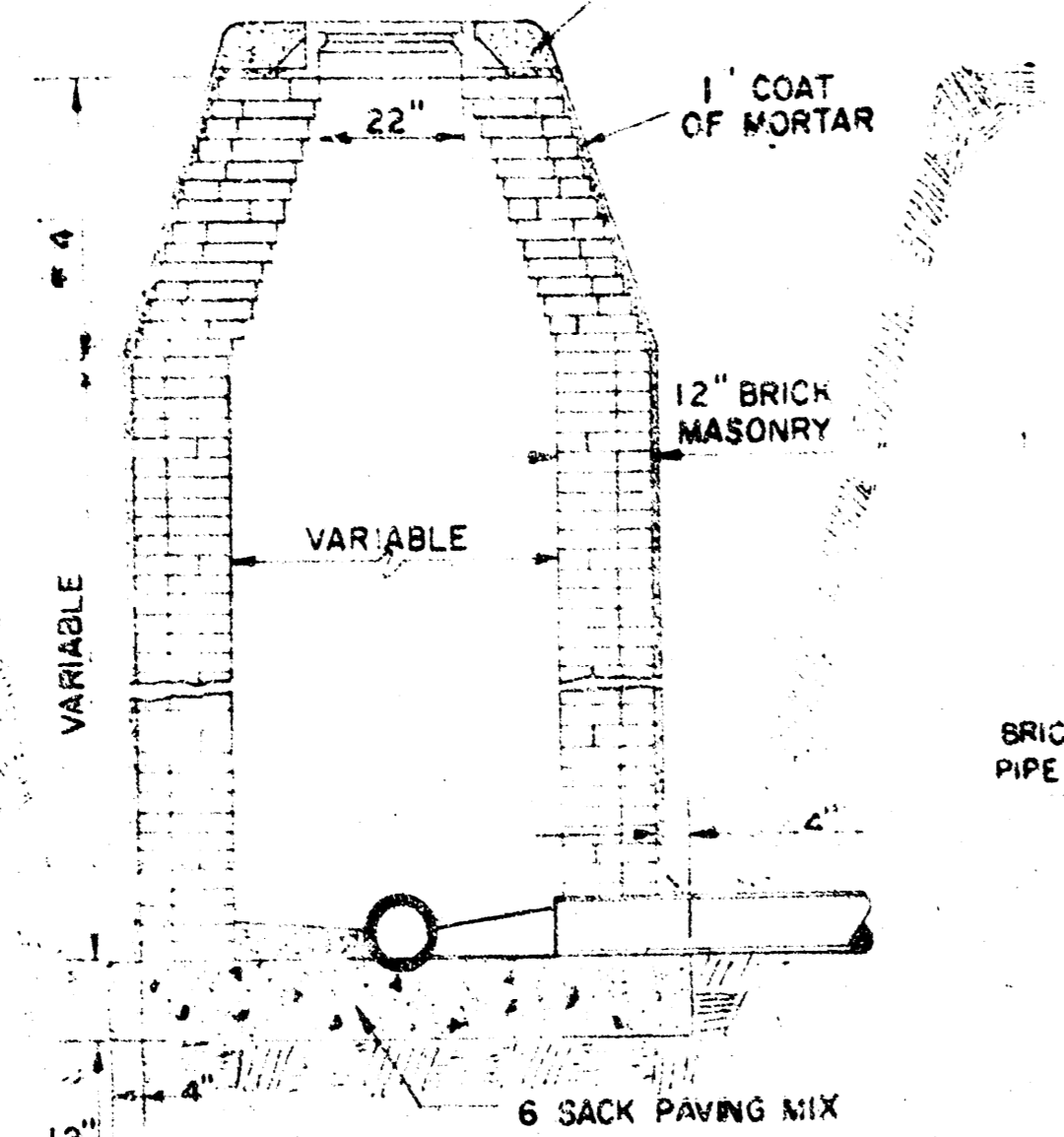


NOTE: CROWN OF BOTTOM PIPE ON OUTSIDE DROP SHALL ALWAYS BE SET 0.1 FT. HIGHER THAN CROWN OF PIPE CARRYING FLOW OUT OF THE MANHOLE.

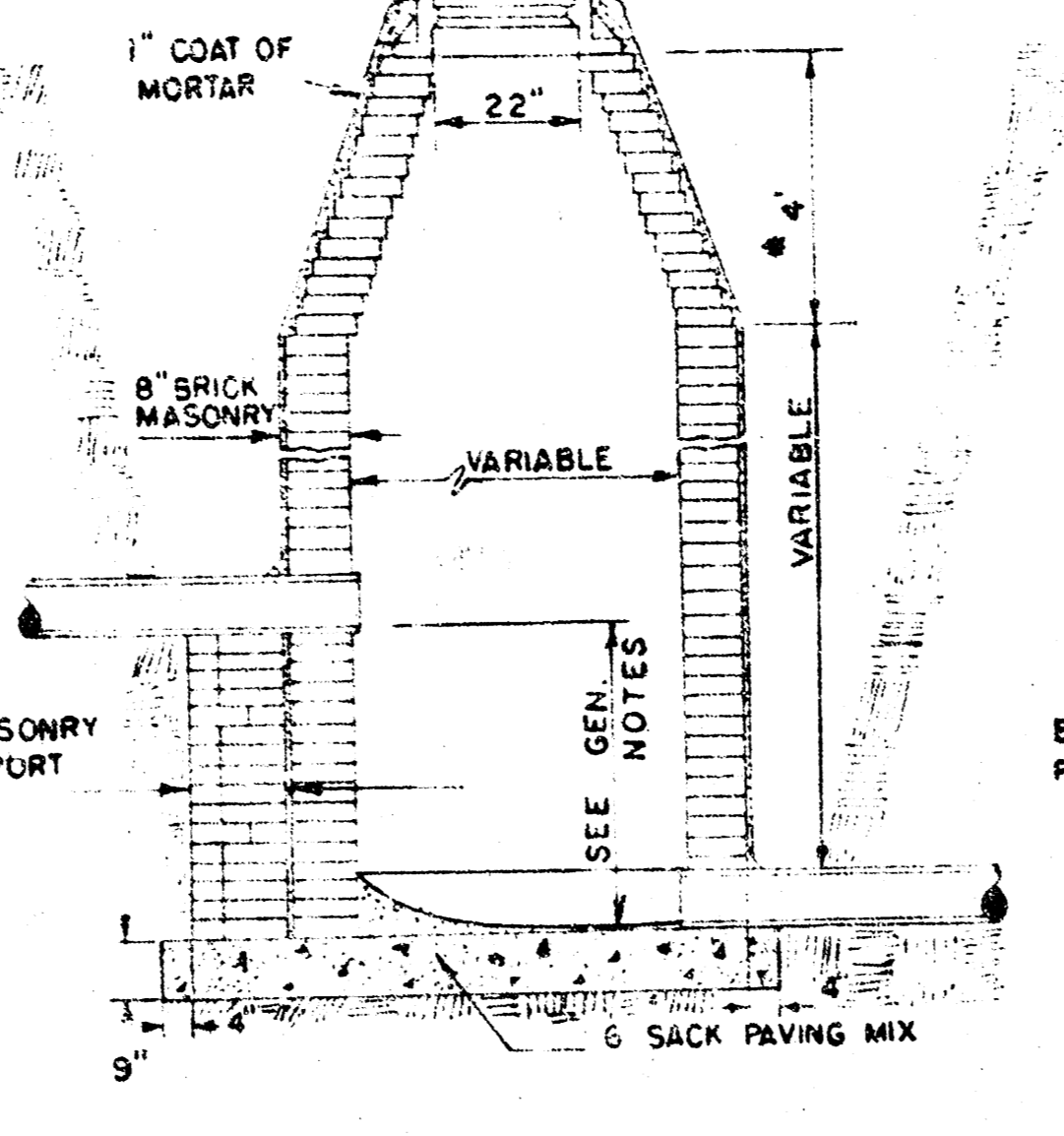
GROUT TO BE PLACED AROUND MANHOLE RING ONLY WHEN MANHOLE IS CONSTRUCTED IN UNPAVED AREAS. (TYPICAL ALL MANHOLES)



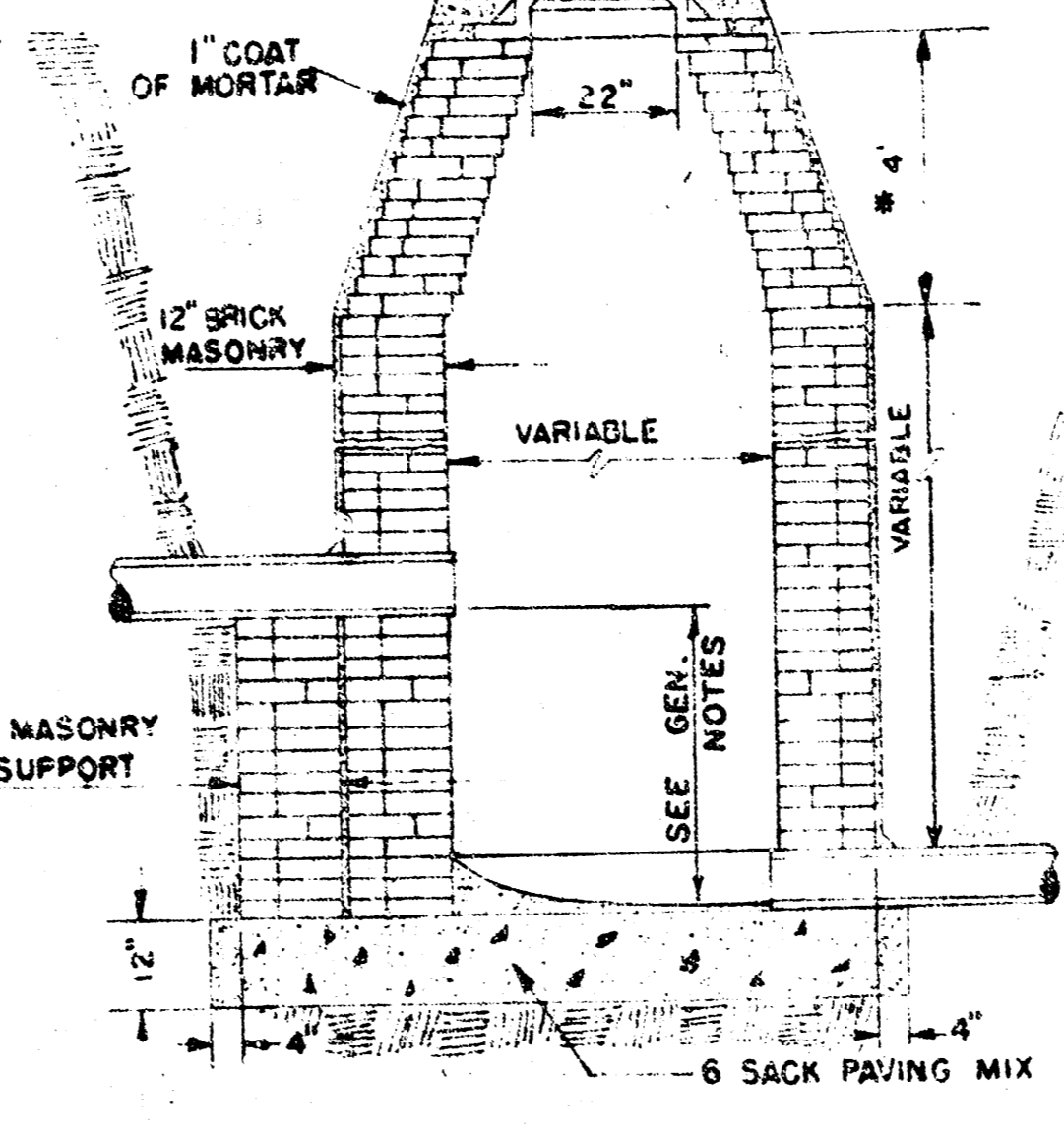
STANDARD MANHOLE TYPE "A"



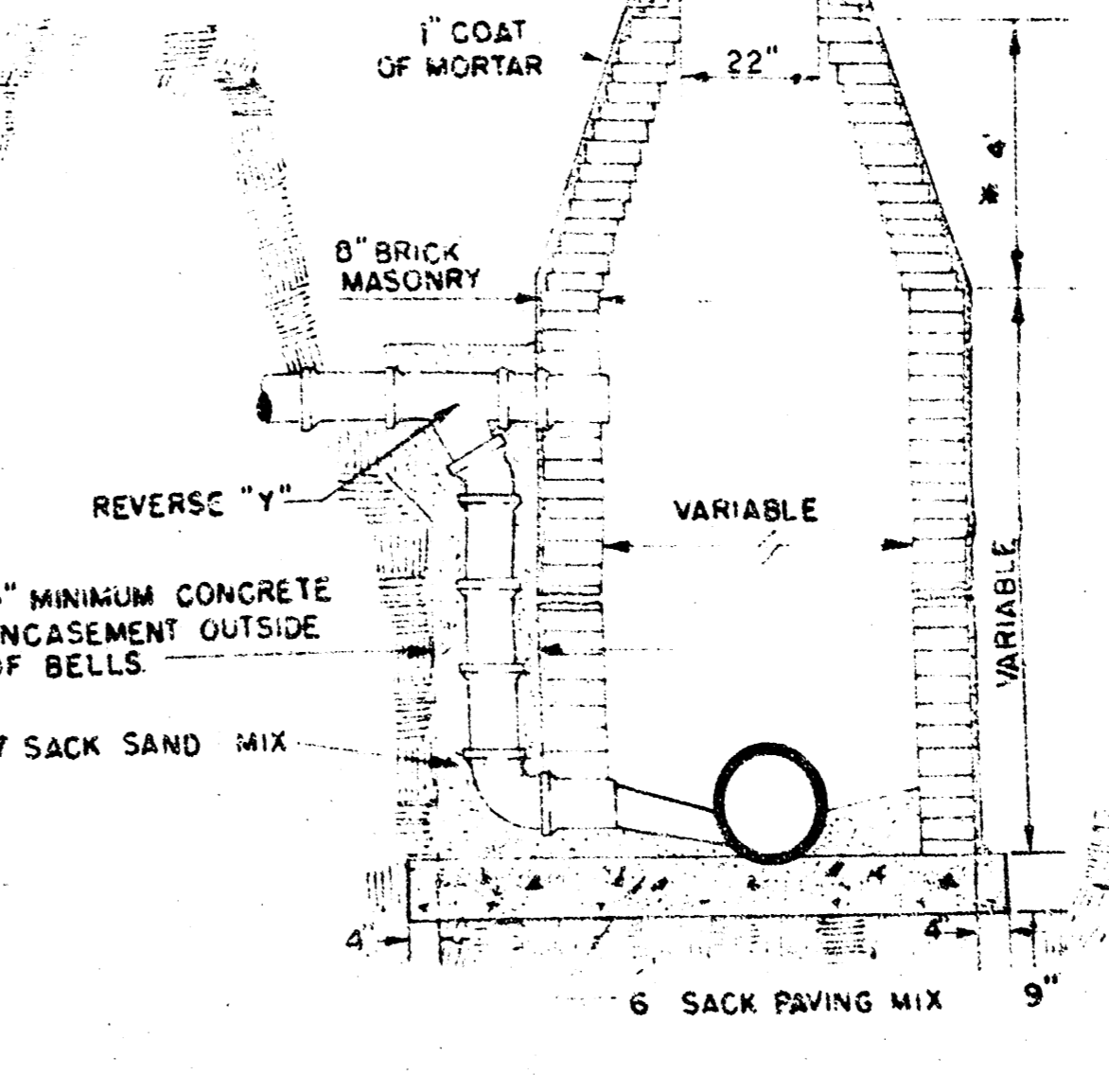
STANDARD MANHOLE TYPE "B"



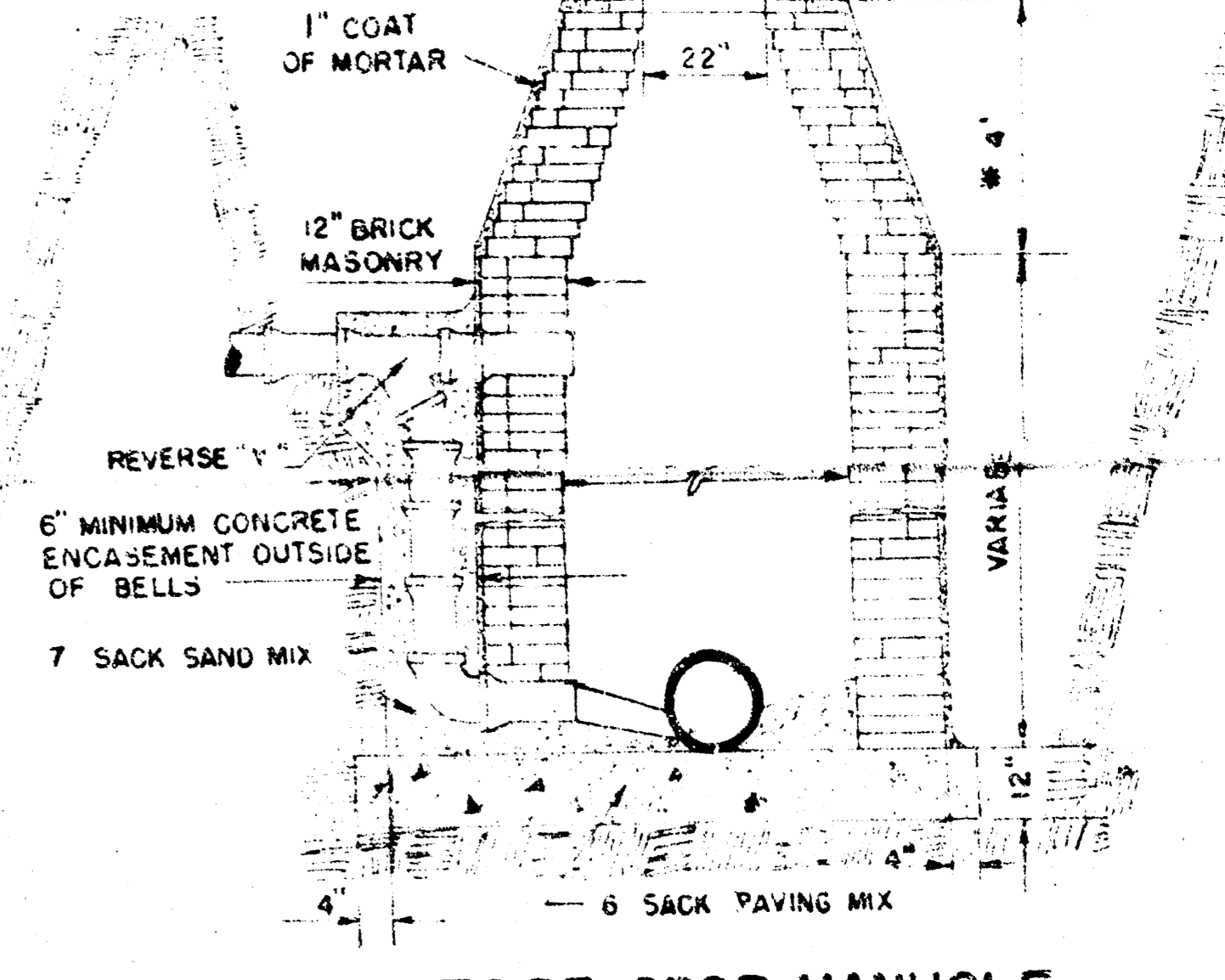
INSIDE DROP MANHOLE TYPE "A"



INSIDE DROP MANHOLE TYPE "B"



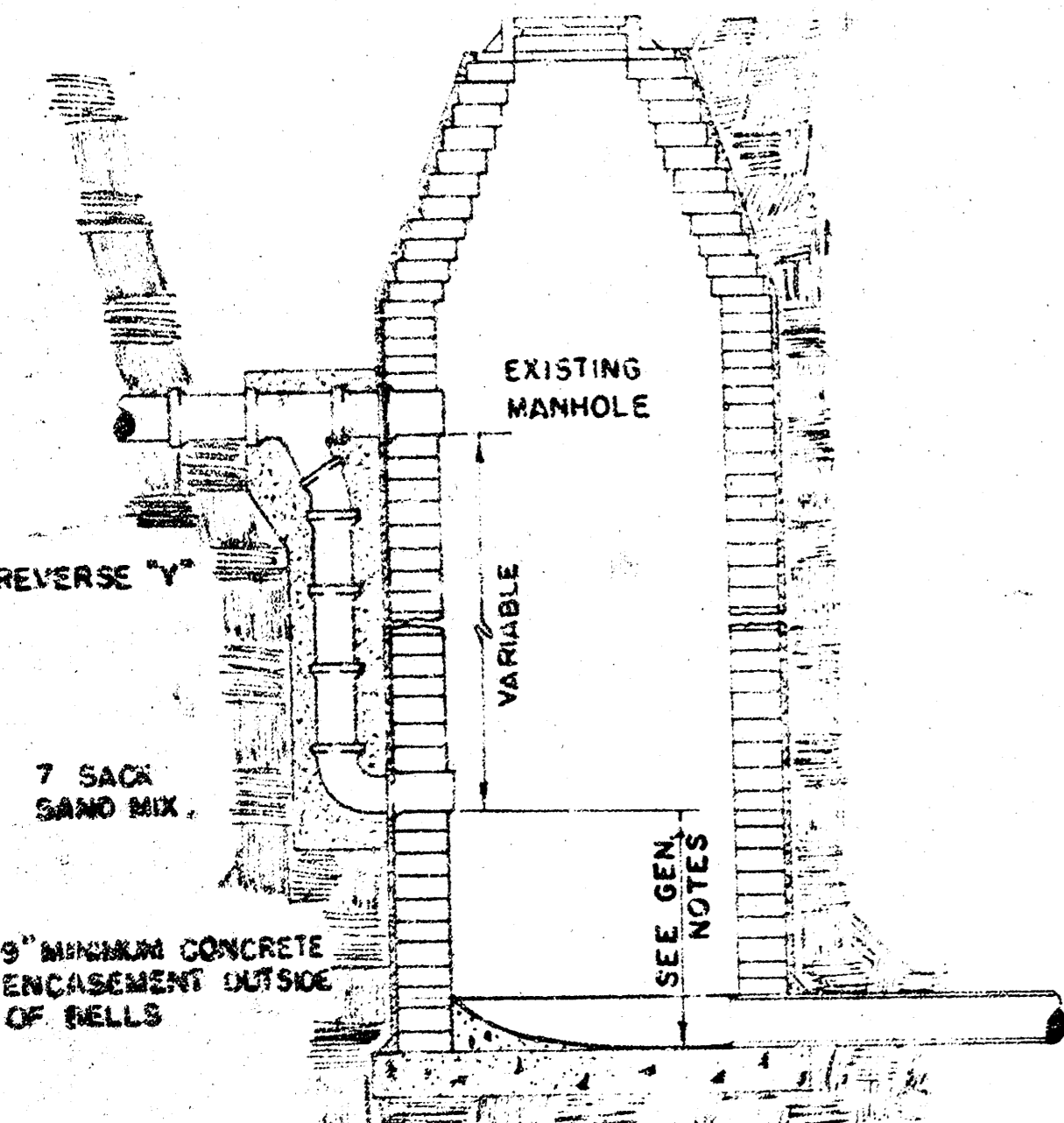
OUTSIDE DROP MANHOLE TYPE "A"



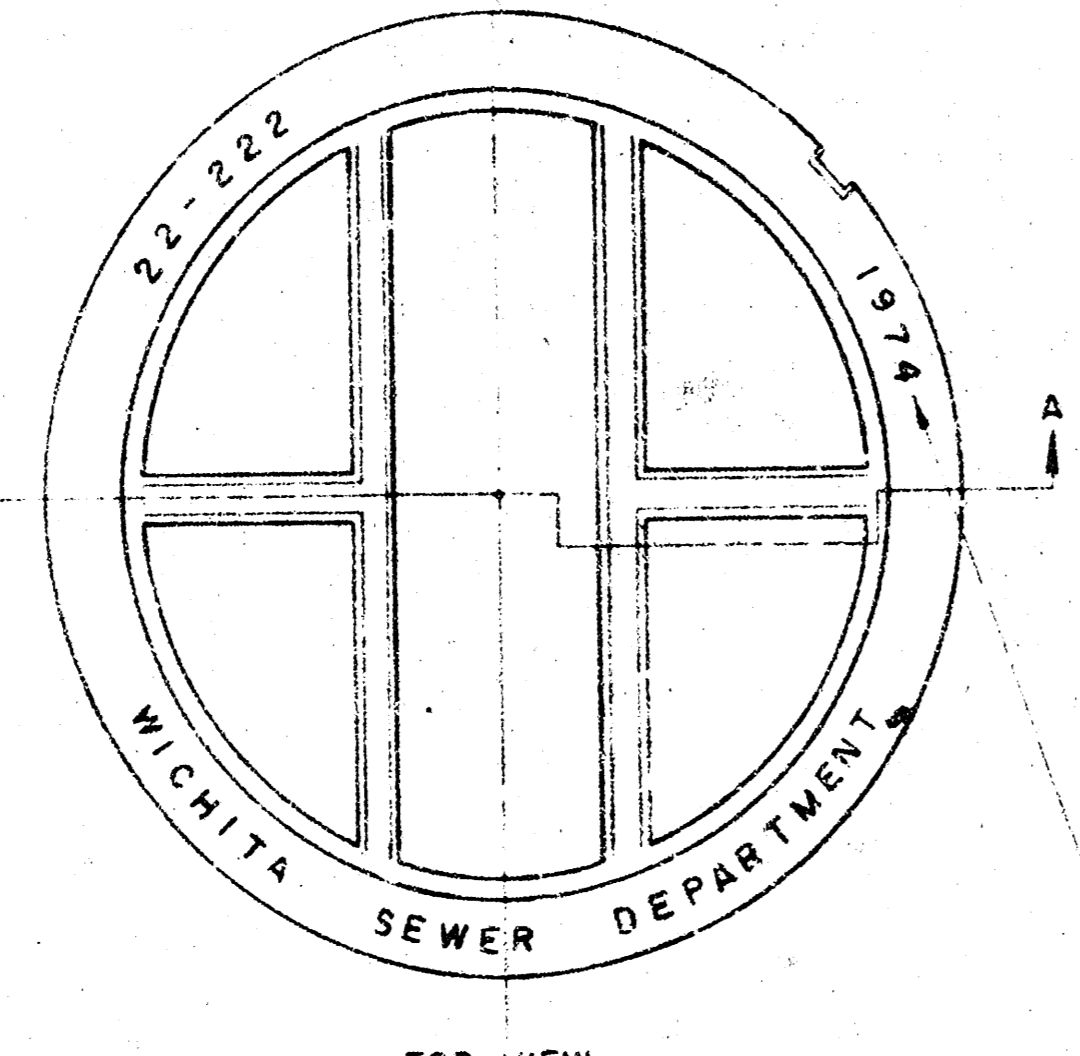
OUTSIDE DROP MANHOLE TYPE "B"

* DRAW = 6' ON 5' DIA. MH.

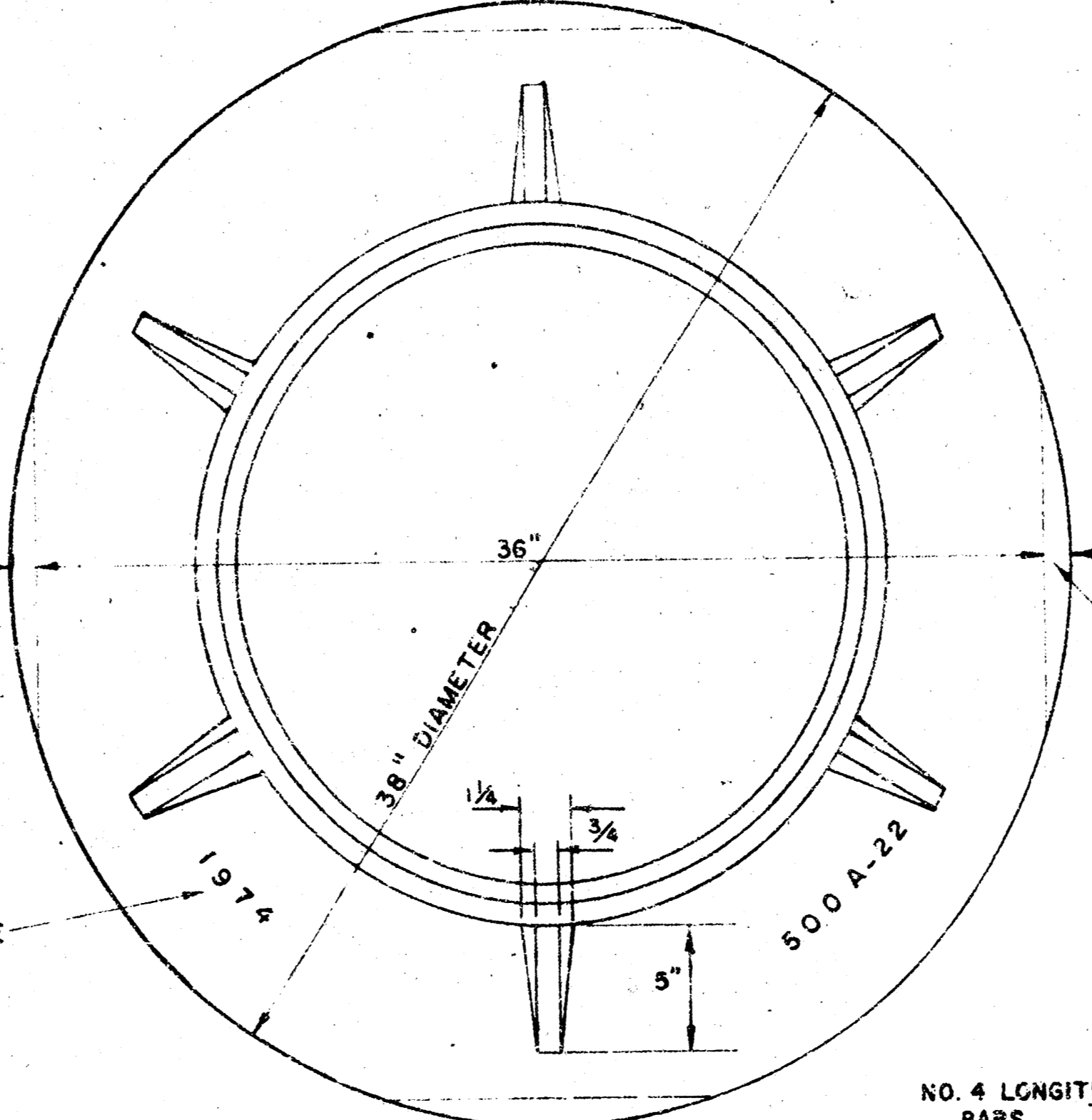
NOTE: REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES 6" ABOVE THE BOTTOM. REINFORCING STEEL SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE COST OF REINFORCING STEEL IS TO BE INCLUDED IN THE PRICE BID FOR THE MANHOLE.



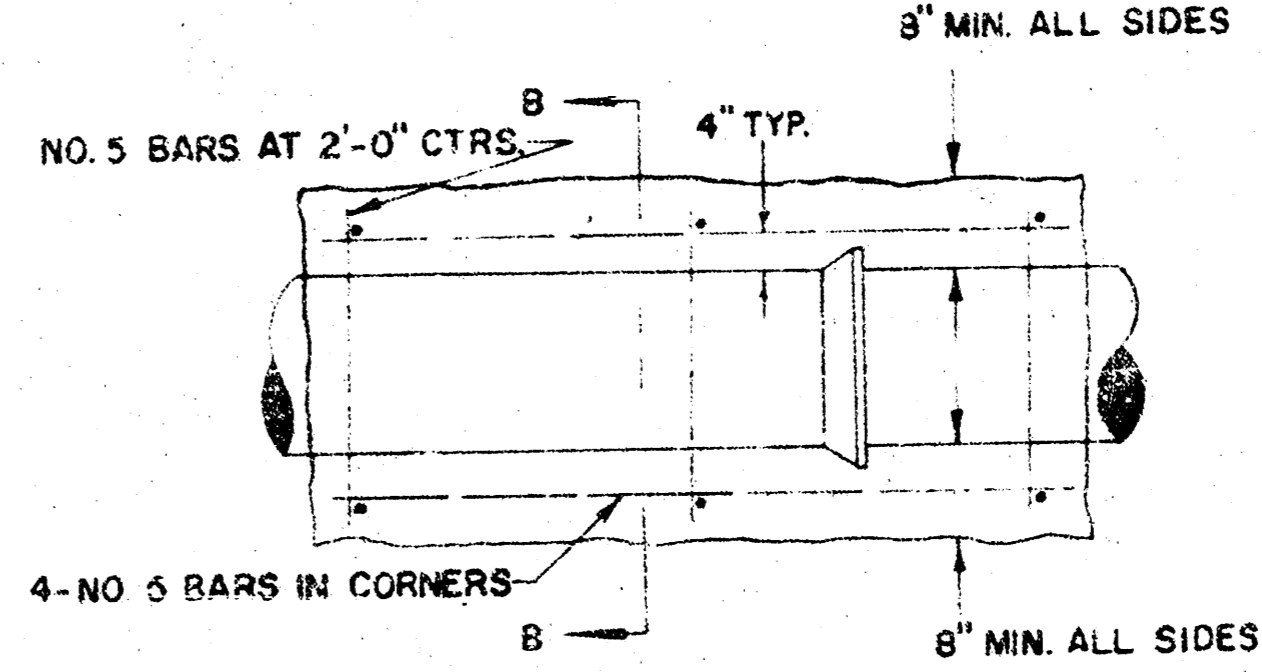
DETAIL OF OUTSIDE DROP STACK
CONSTRUCTED ON EXISTING MANHOLE (USE ONLY WHEN NO OTHER PIPE ARE FLOWING INTO MANHOLE)



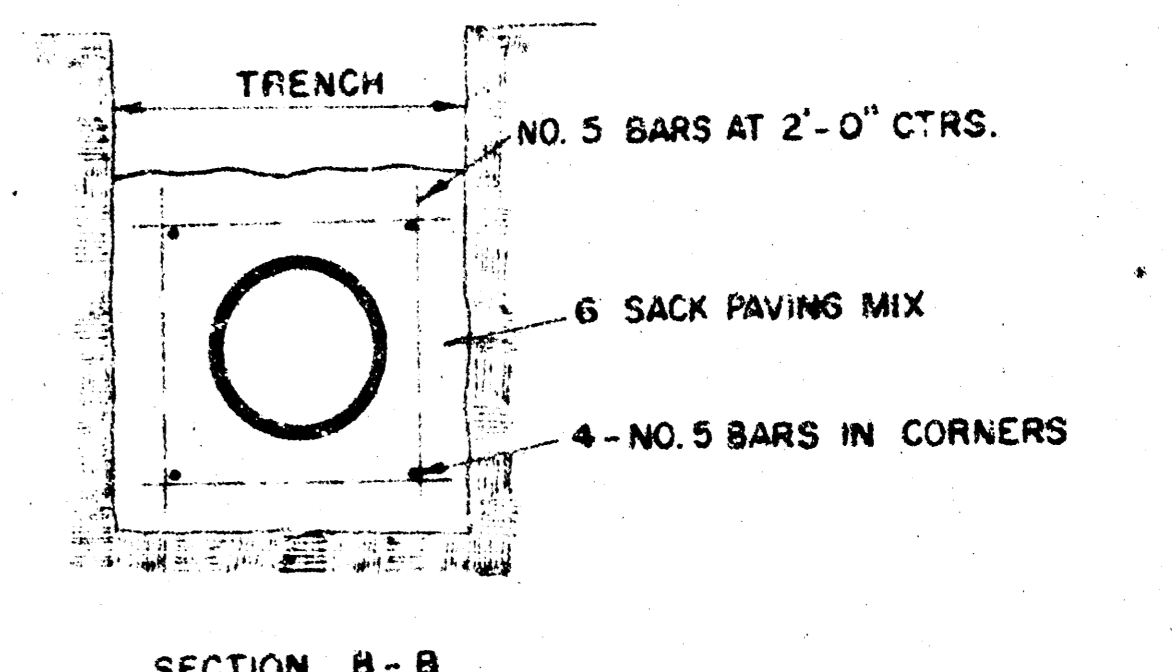
TOP VIEW
MANHOLE COVER
WEIGHT 110 LBS.



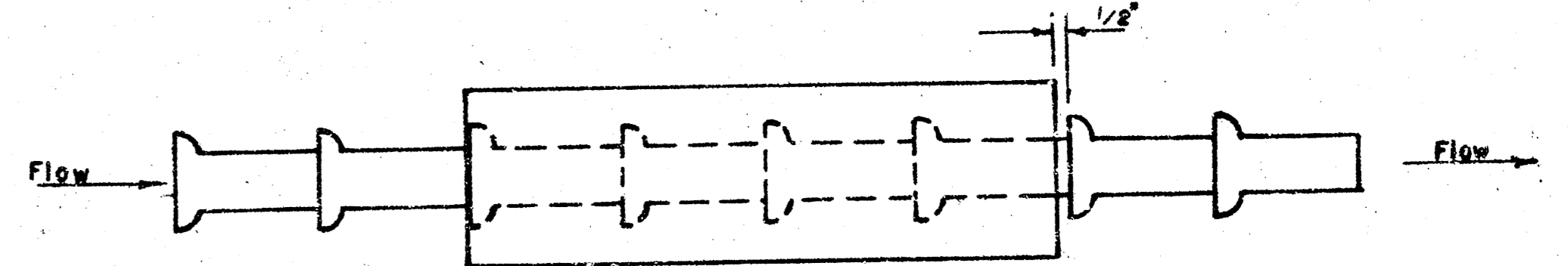
TOP VIEW
MANHOLE RING
WEIGHT 325 LBS. RING NO. 500A
WEIGHT 800 LBS. RING NO. 500AS



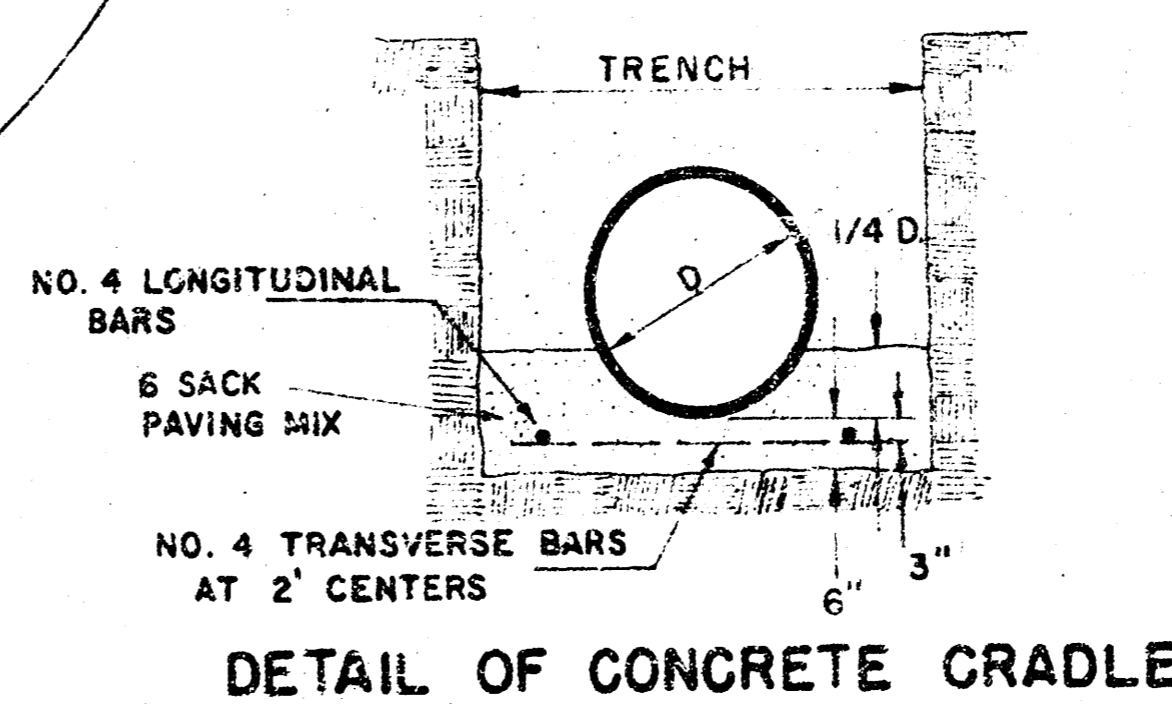
REINFORCED CONCRETE ENCASUREMENT



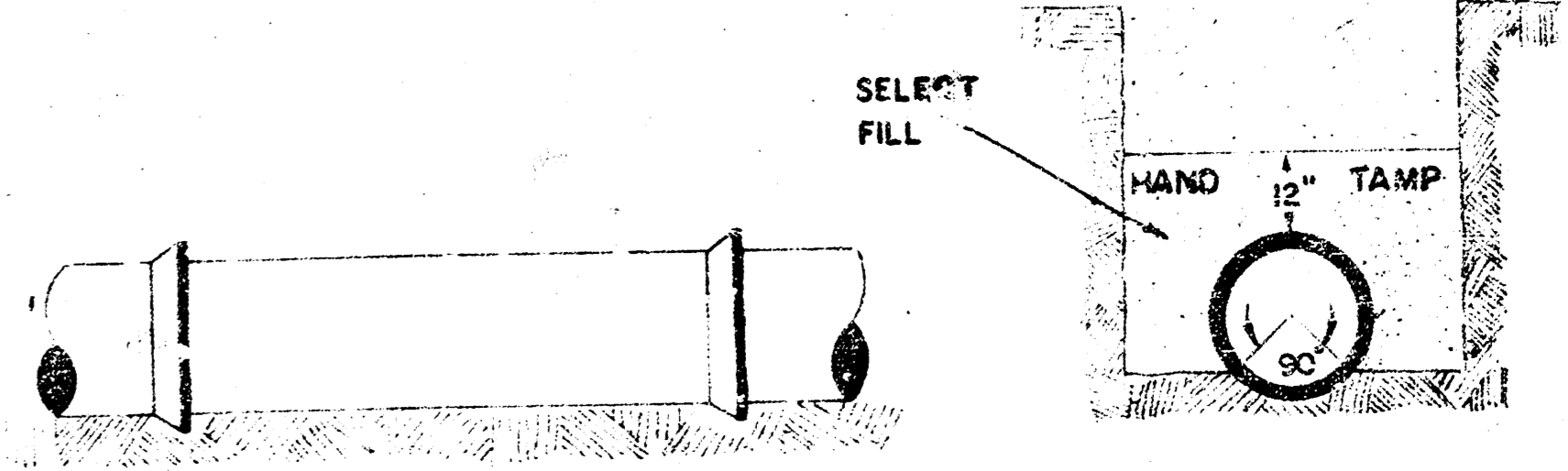
SECTION B-B



DETAIL IN CONNECTION WITH THE TERMINATION OF CONCRETE ENCASUREMENT OR CRADLE FOR CLAY PIPE



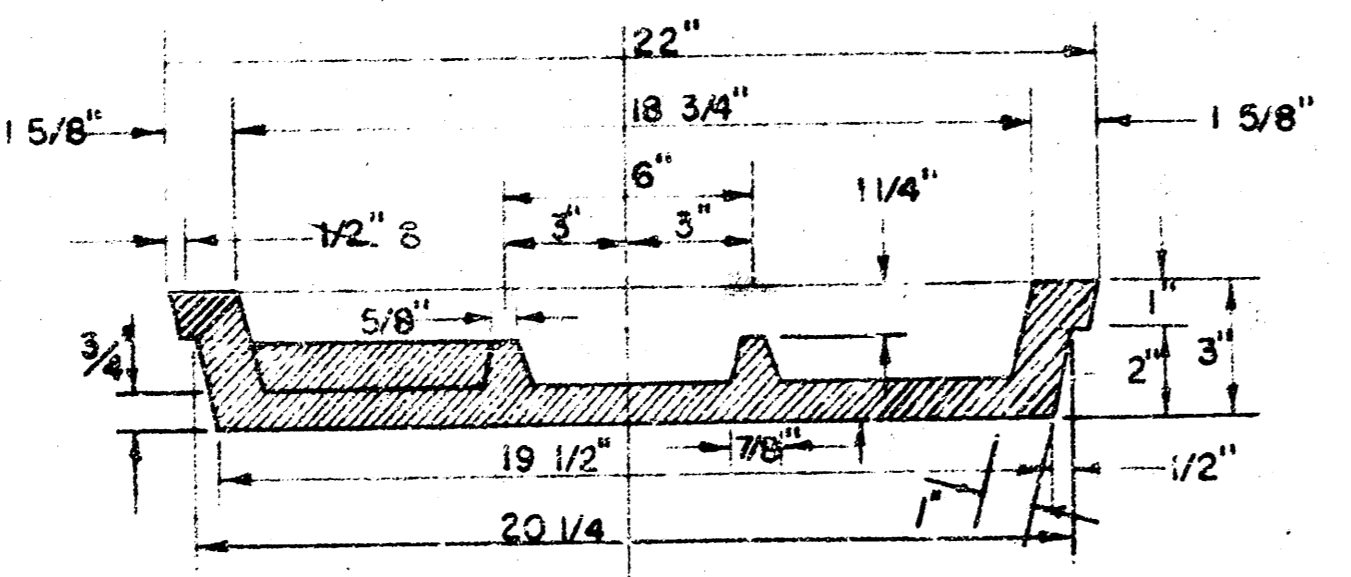
DETAIL OF CONCRETE CRADLE



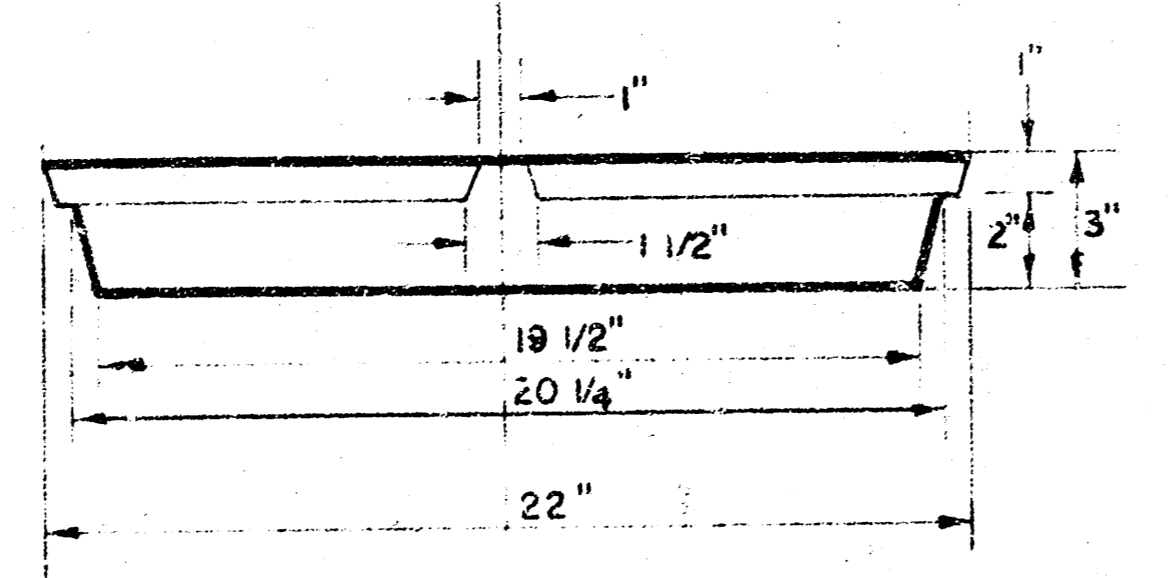
ORDINARY BEDDING METHOD
STORM SEWER PIPE

GENERAL NOTES

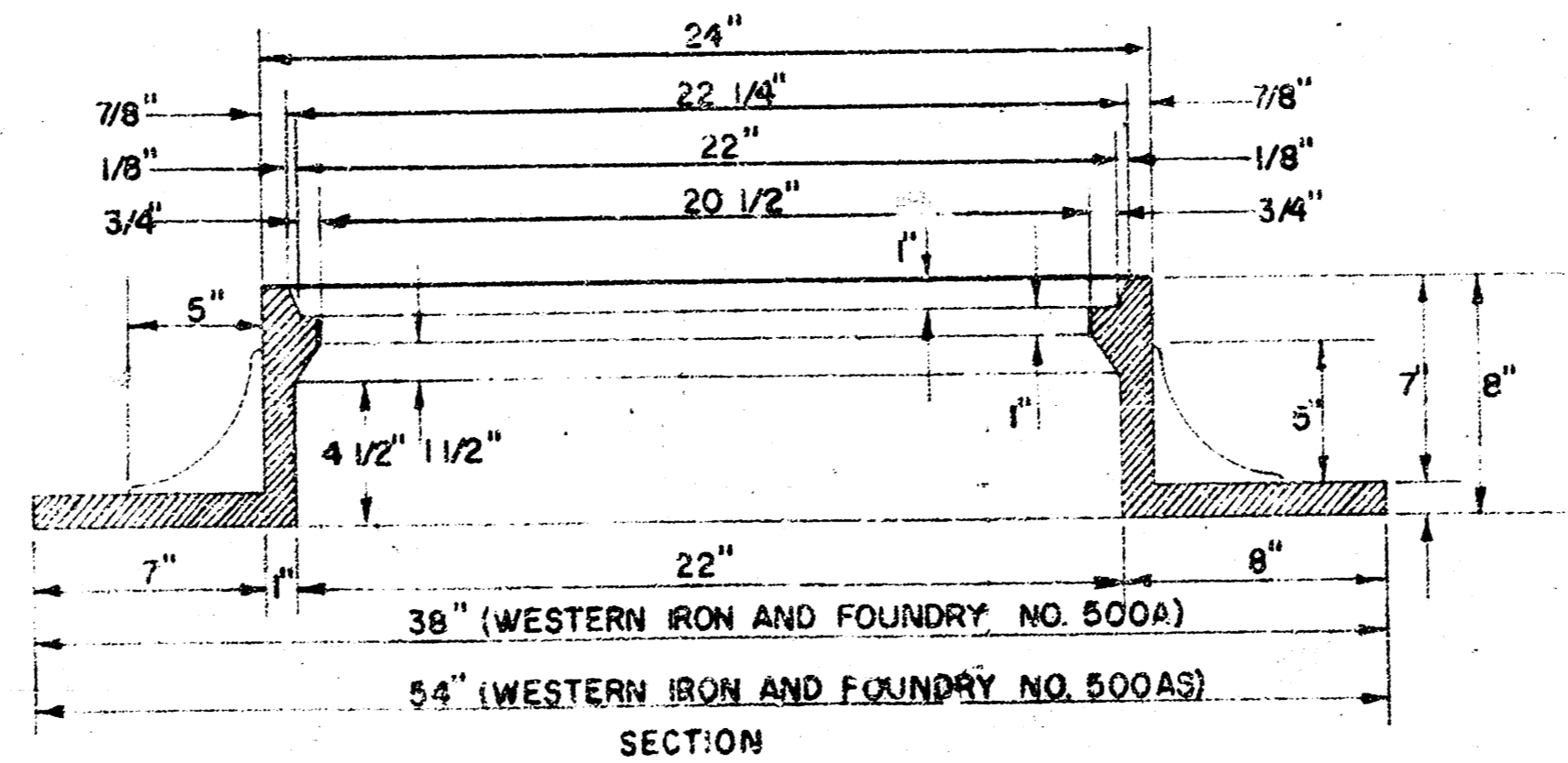
- MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 9 SACKS OF CEMENT PER CUBIC YARD.
- STANDARD MANHOLES TYPE "A" OR TYPE "B" AND STANDARD INSIDE DROP MANHOLES TYPE "A" OR TYPE "B" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.
- OUTSIDE DROP MANHOLES SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.
- MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5' DIAMETER.
- THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 6 SACK SAND MIX CONCRETE.
- PIPES INSTALLED WITHIN THE MANHOLE EXCAVATION SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE WHOLE EXCAVATION. COST OF CRADLE WITHIN MANHOLE EXCAVATION SHALL BE INCLUDED IN THE PRICE BID FOR THE MANHOLE. CRADLE SHALL EXTEND TO FIRST JOINT OUTSIDE OF MANHOLE WHEN CLAY PIPE IS USED.



SECTION A-A
MANHOLE COVER



SIDE VIEW
MANHOLE COVER



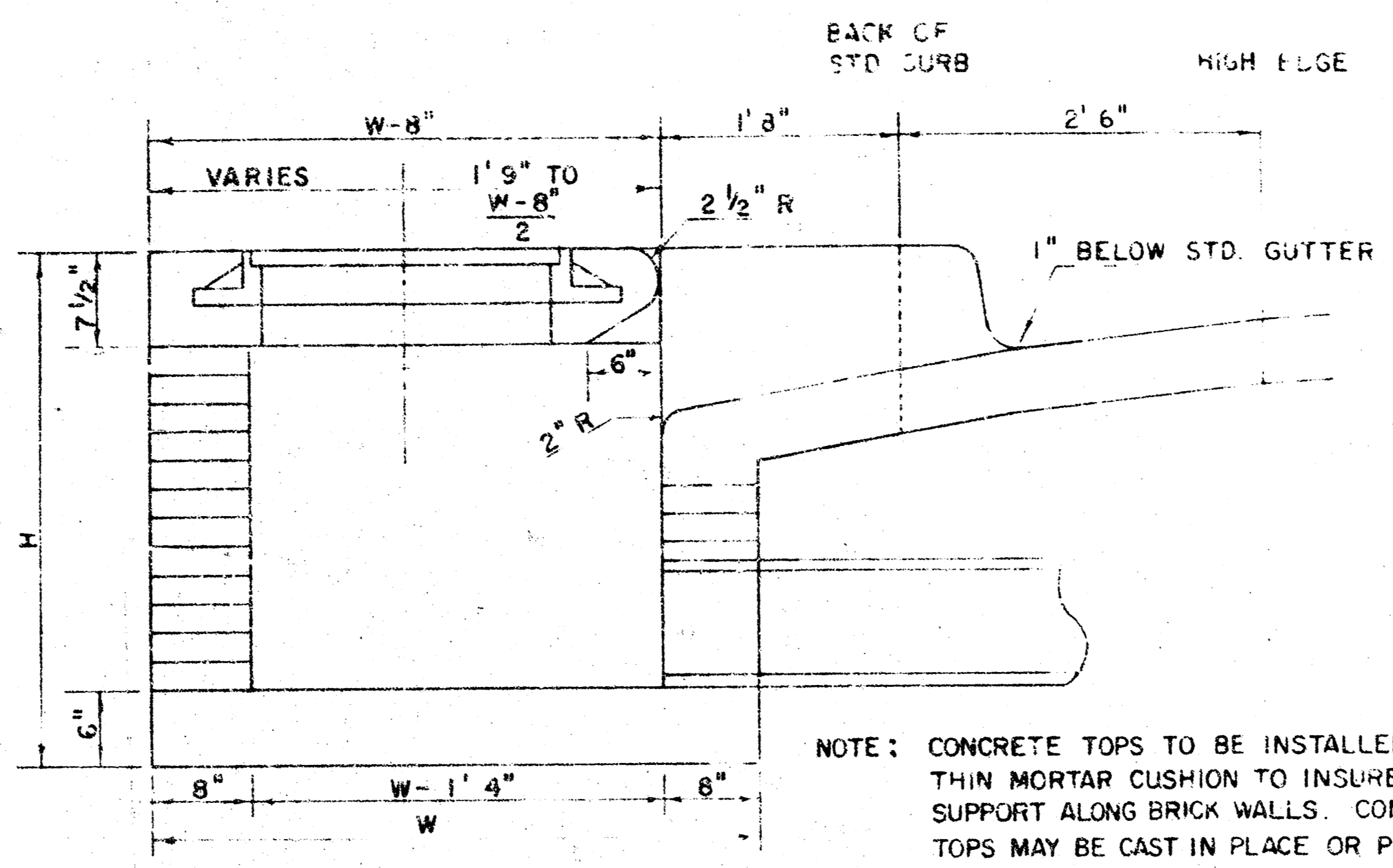
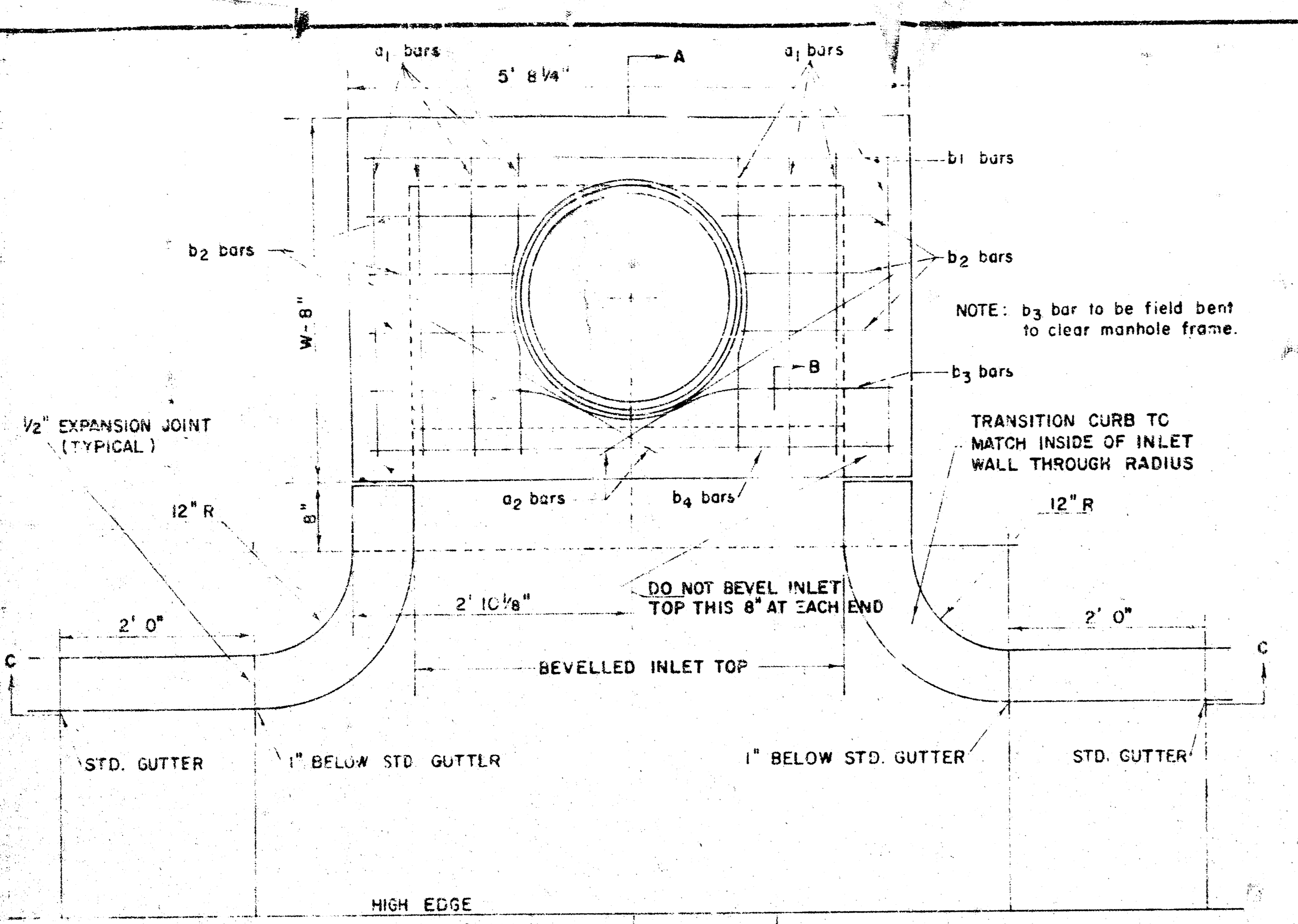
SECTION
MANHOLE RING

OUTSIDE CIRCUMFERENCE OF COVER AND THE INNER FACE AND SEAT OF RING TO BE MACHINE FIT.

REVISED 4-4-80
DETAILS OF
SEWER APPURTENANCES
ADOPTED AS STANDARD DESIGN
BY
ENGINEERING DIVISION
CITY OF WICHITA, KANSAS

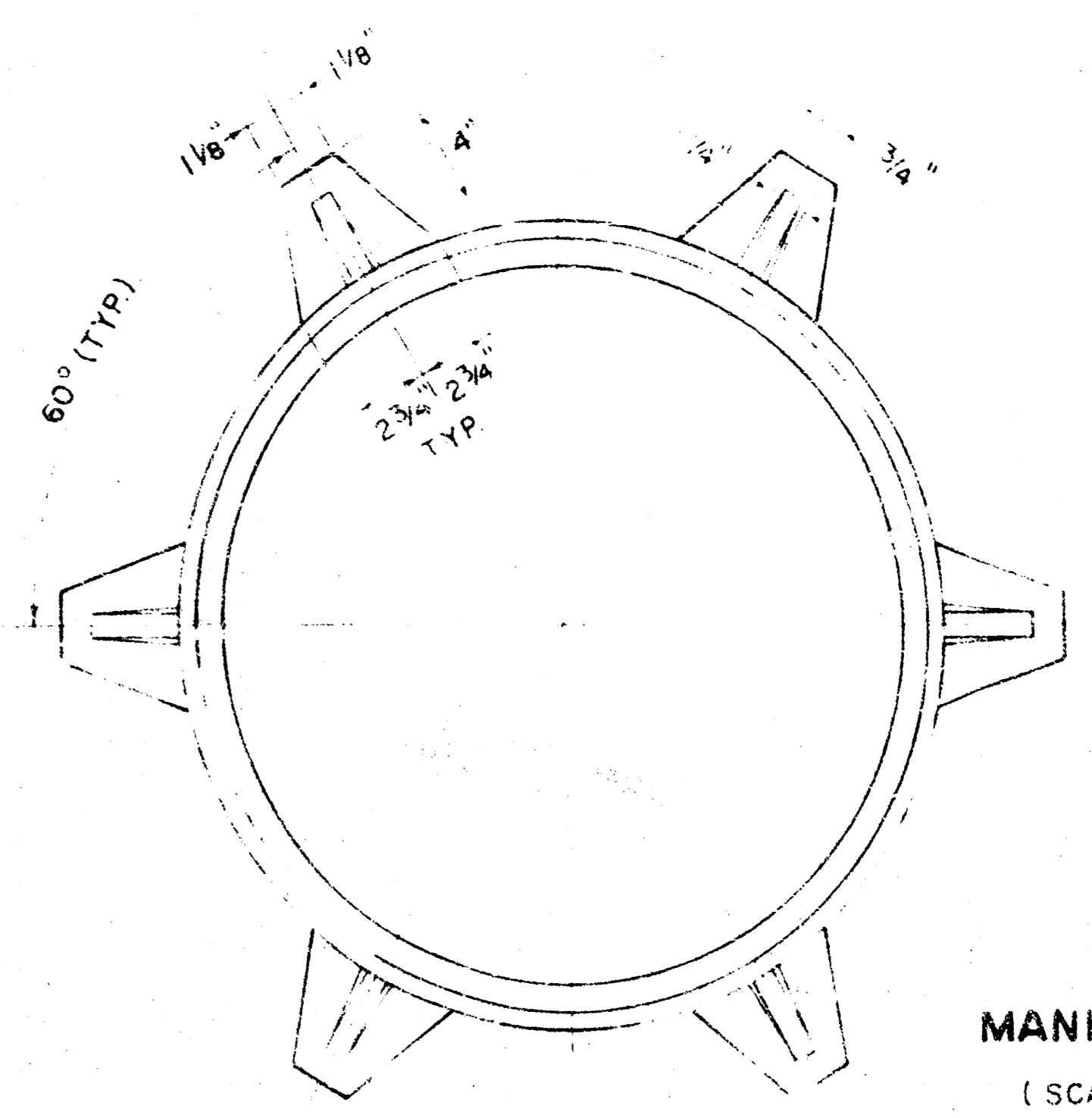
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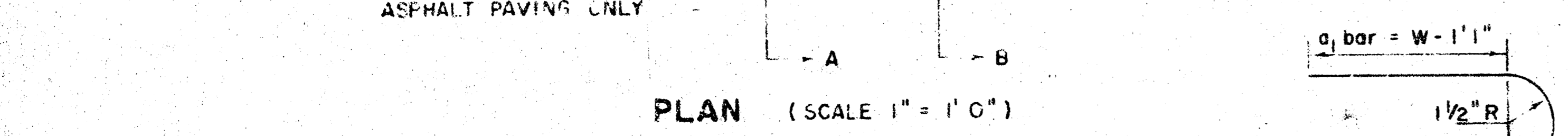


SECTION A-A
(SCALE 1" = 1'0")

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST CONCRETE FOR INLET TOPS AND FLOORS SHALL BE 6-SACK PAVING MIX.



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

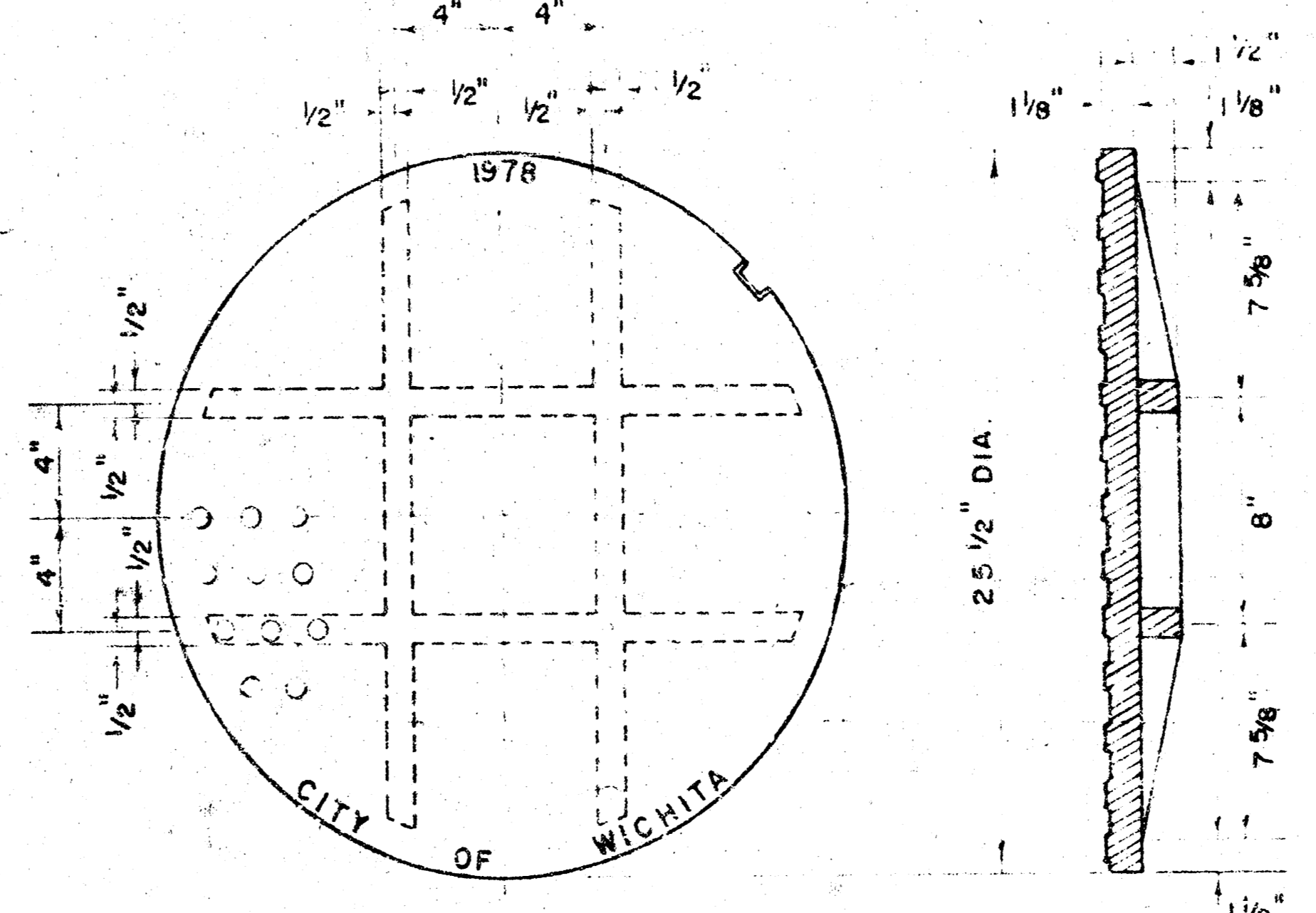


PLAN (SCALE 1" = 1'0")

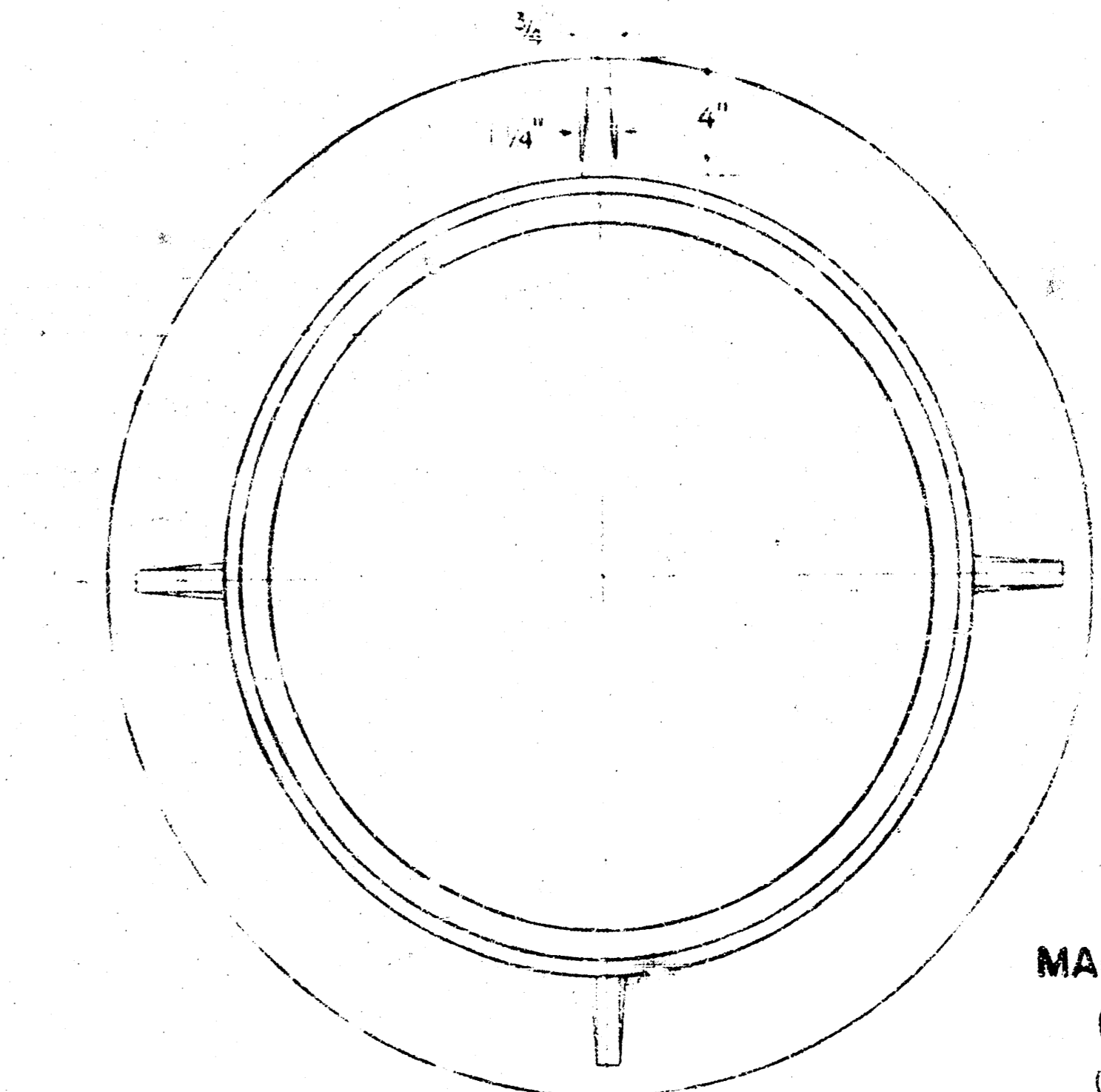
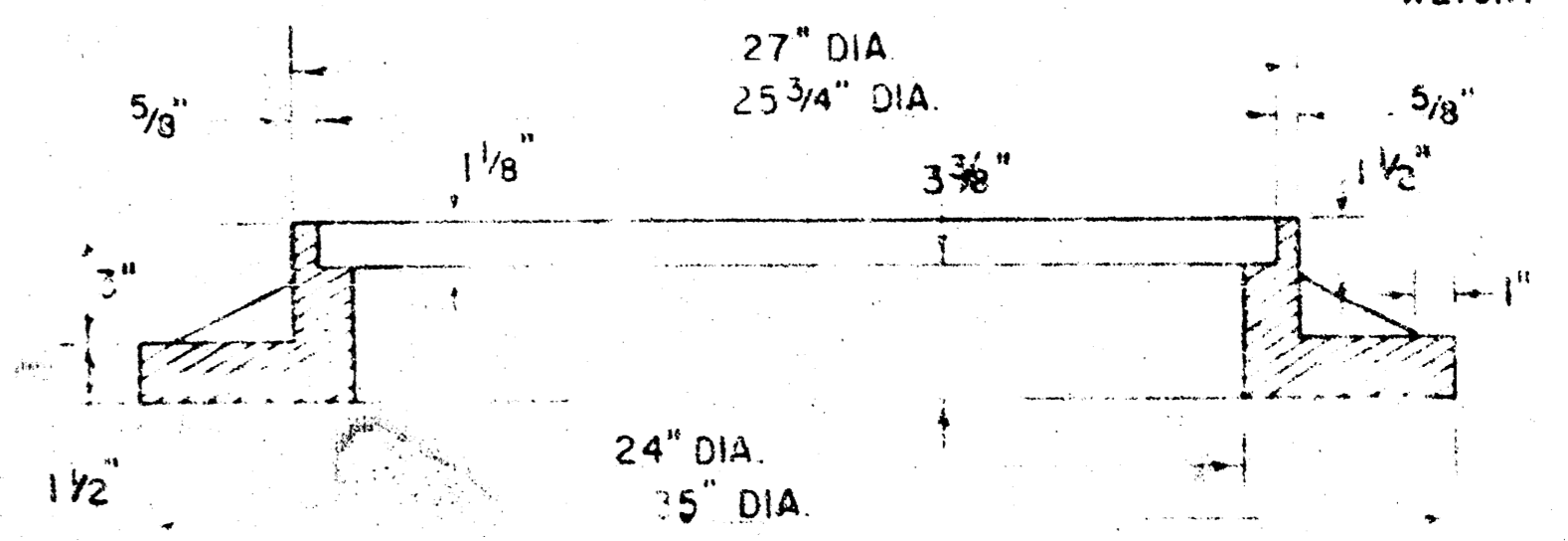
STEEL SCHEDULE										
BAR	a1	a2	b1	b2	b3	b4	WT.			
NUMBER	2	1	3	5	7	6	LBS.			
SIZE	#4	#4	#4	#4	#4	#4				
W=4'2"	6'5"	3'4"	5'5"	-	-	-	1'5"	5'6"	5'5"	60*
W=5'0"	8'1"	4'4"	5'5"	-	-	-	1'5"	5'6"	5'5"	77*
W=6'0"	10'1"	5'4"	5'5"	-	-	-	1'5"	5'6"	5'5"	97*
W=7'0"	11'1"	6'4"	5'5"	-	-	-	1'5"	5'6"	5'5"	111*
W=8'0"	12'1"	7'4"	5'5"	-	-	-	1'5"	5'6"	5'5"	124*

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
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 *

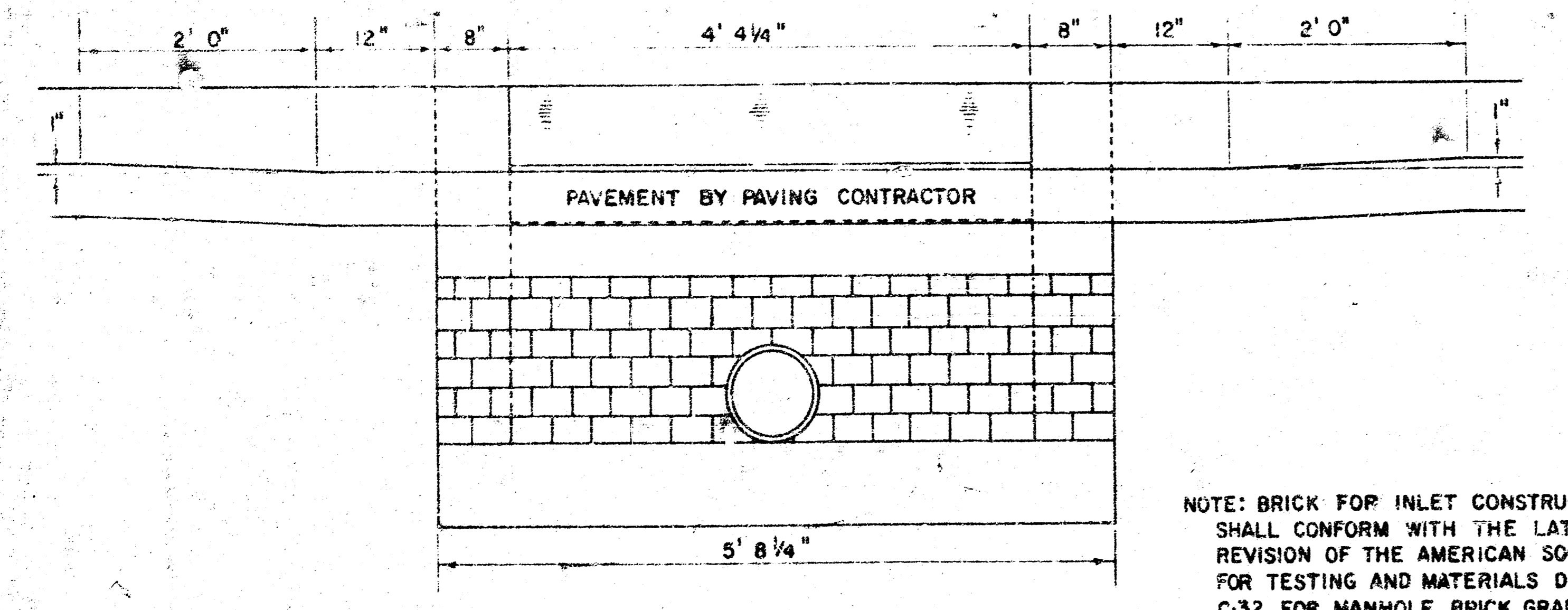
* GROSS VOLUME



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

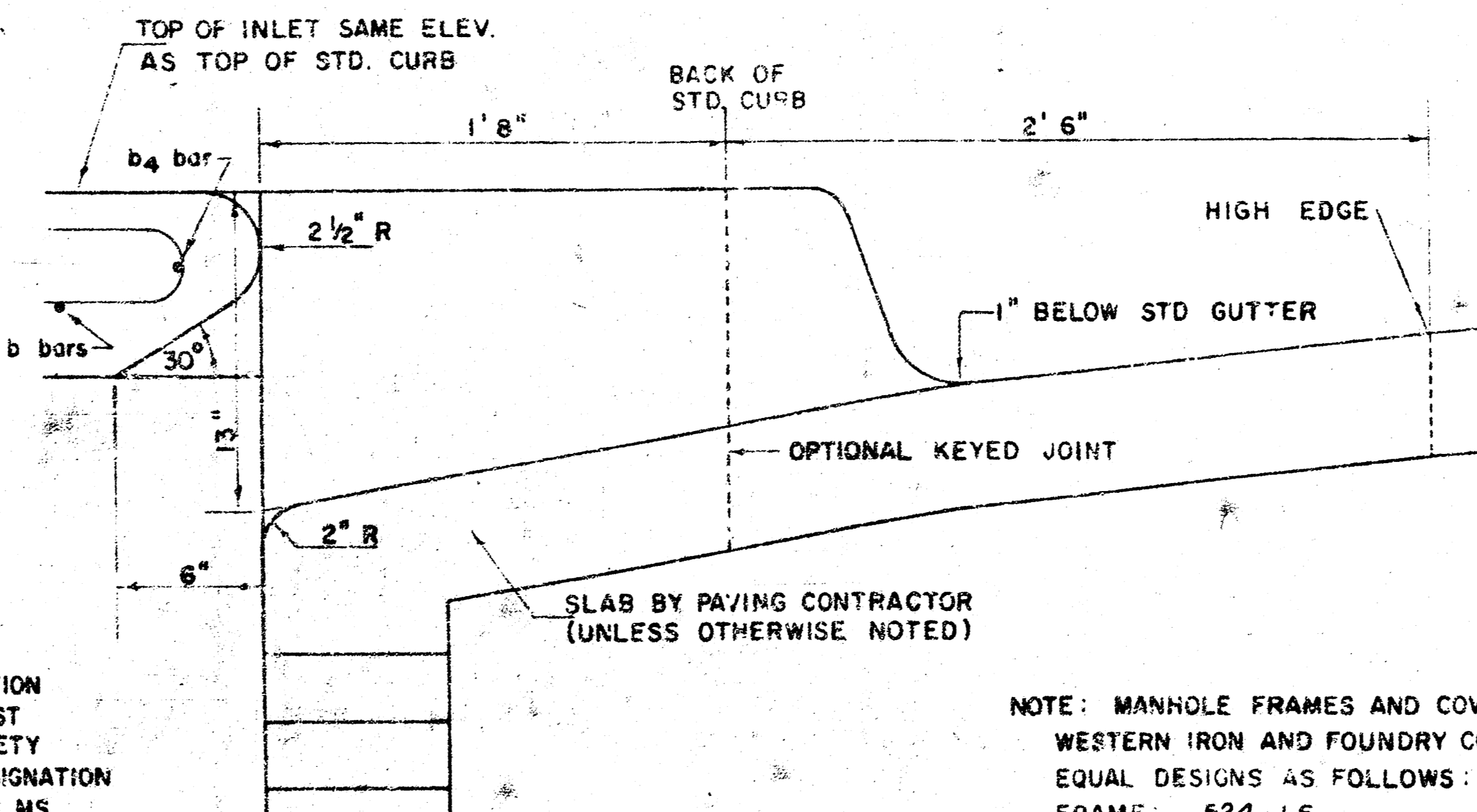


MANHOLE FRAME (ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.



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): 500 A4
COVER: 222 S4 "NOBBY"

DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
R. W. LINN - CITY ENGINEER
OCTOBER 1978