

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, P.E., CITY ENGINEER
STORM WATER SEWER NO. 307
BRIARWOOD ESTATES 5TH ADDITION
 CITY OF WICHITA PROJECT NO. 468-76-245-81552-000-000-001

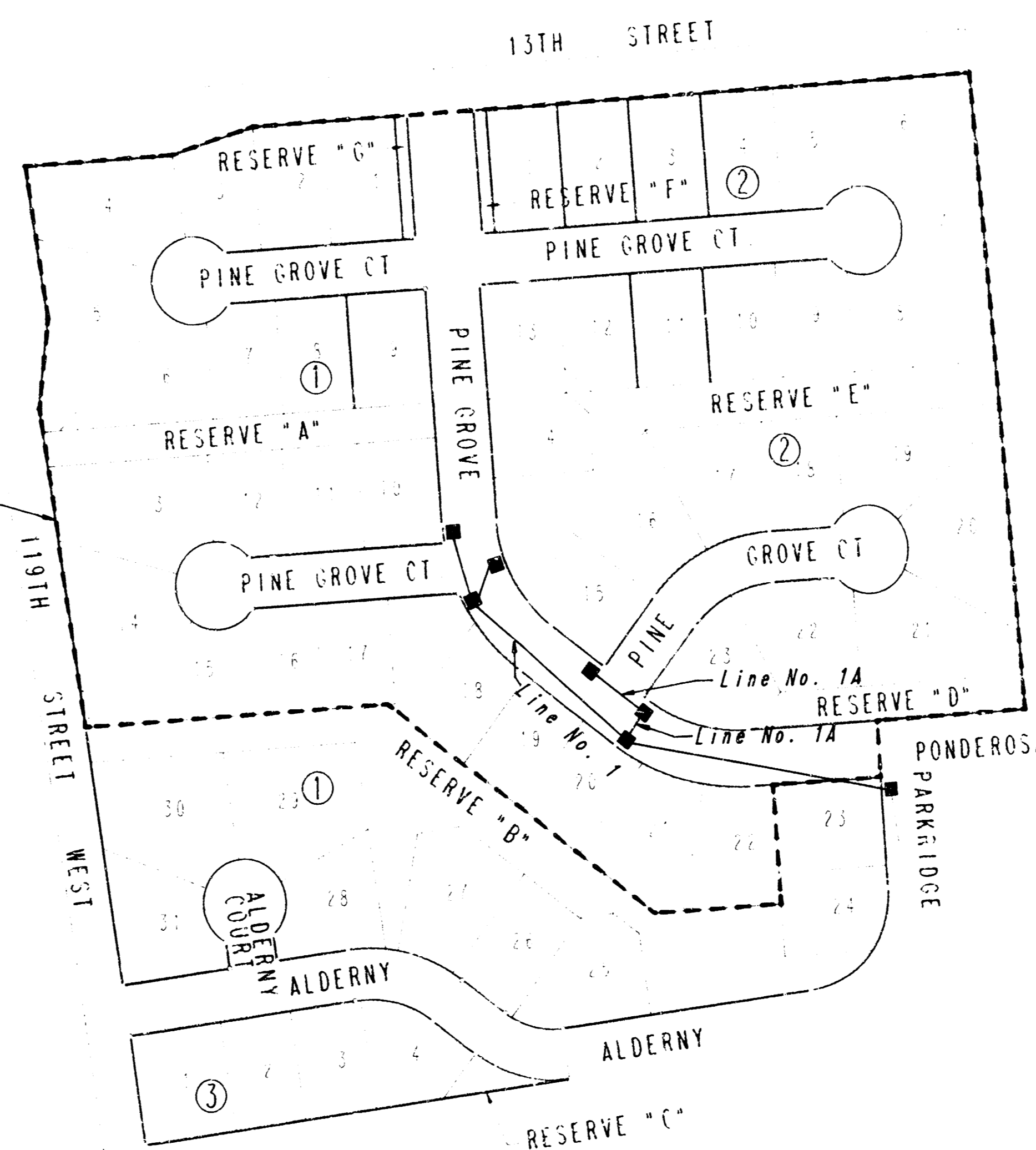
INDEX OF SHEETS

1. TITLE SHEET
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- 3.-4. STORM WATER SEWER PLAN AND PROFILE
5. DETAIL STANDARD TYPE 1A CURB INLET (L=6'-4")
6. MANHOLE FRAME AND COVER DETAIL

PROJECT SURVEY CONTROL

VERTICAL DATUM: CITY OF WICHITA DATUM
 DATUM BENCH MARK: C.O.W. BM DISC 1/2 MILE EAST OF 13TH ST. N. AND 119TH ST. W., 40.5' N. & 13TH ST. W. AT 1/4 CORNER. ELEV. +158.73
 BENCH MARK: CHISELED "D" ON BK. CB. N. SIDE 13TH ST. APPROX. 60' E. OF * PINE GROVE BY H.L.P. ELEV. +159.36
 BENCH MARK: N. HEADBOLT FIRE HYDRANT AT S.E. CORNER PONDEROSA AND PARKRIDGE. ELEV. +150.78

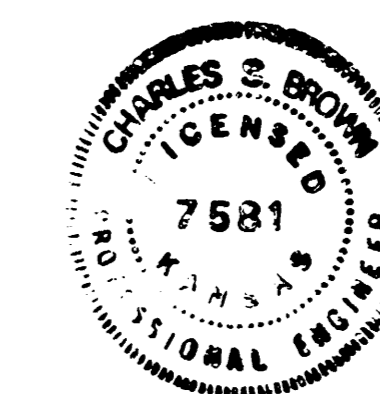
BENEFIT DISTRICT



*AS BUILTS
3/87
GREENE*

NOVEMBER, 1986

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



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BRIARWOOD ESTATES 5TH ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

N.W. Corner Section 18,
T27S, R1W of the 6th P.M.



N.W. Cor. Lot 16, Blk. 3
Briarwood Estates

SCALE: 1"=100'
B.M. - CITY STD. BRASS CAP IN CONC. 25' NORTH & 30' EAST OF S1/4 COR. SEC. 7, T27S, R1W OF 6TH P.M. ELEV. 1345.33 M.S.L.
C.A.C.=COMPLETE ACCESS CONTROL

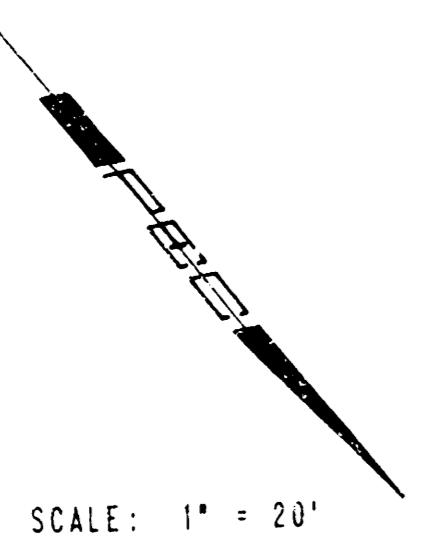
S.W. Cor. Lot 10, Blk. 3
Briarwood Estates

PLAT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Checked by
Drawn by DEP	Date SEPT. 1988 Job No. 06323-1

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SCALE: 1" = 20'

Sta. 17+92.27 @ Pine Grove/Ponderosa
Sta. 50+00.00 @ Pine Grove Ct.

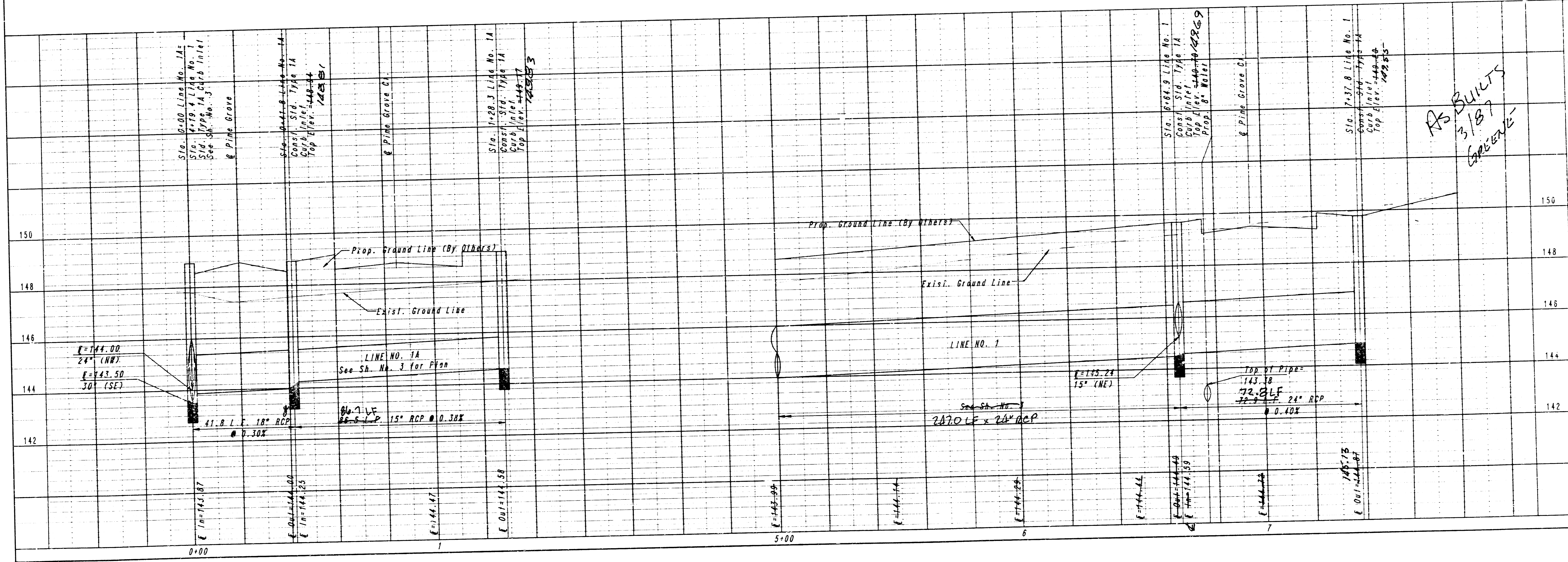
Sta. 15+67.56 @ Pine Grove/Ponderosa
Sta. 40+00.00 @ Pine Grove Ct.

Sta. 6+64.9, Line No. 1
@ Pine Grove Sta. 15+92.89, 21.17' RI.
Const. Std. Type 1A Curb Inlet
(L=6'-4" W=5'-4")
Top Elev. = 149.79 (149.69)
Install 22'-0" LF 24" RCP SWS (NNW) 72.8 LF
Install 60'-0" LF 15" RCP SWS (NE) 51.0 LF
See Sh. No. 5

Sta. 7+37.8, Line No. 1
@ Pine Grove Sta. 15+26.85, 21.17' RI.
Const. Std. Type 1A Curb Inlet
(L=6'-4" W=5'-4")
Top Elev. = 149.66 (149.55)
See Sh. No. 5

@ Pine Grove Sta. 15+63.73, 20.67' LI.
Const. Std. Type 1A Curb Inlet
(L=6'-4" W=5'-4")
Top Elev. = 149.66 (149.47)
E. Out = 145.44 (145.47)
See Sh. No. 5

Curve Data
Δ = 49° 22' 30"
R = 193.00'
T = 88.72'
L = 166.32'

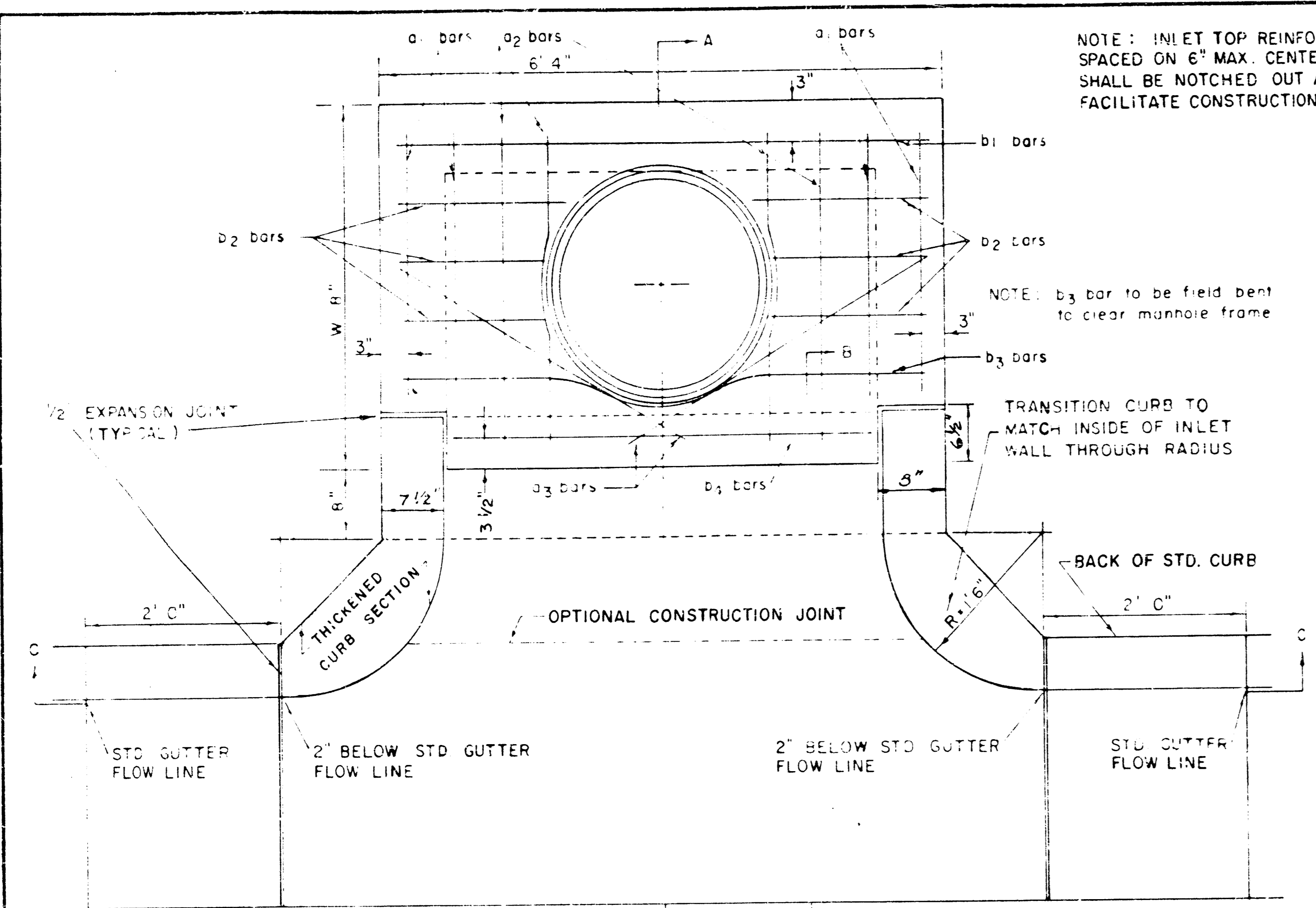


*AS BUILT
3/8/87
GREENE*

CITY OF WICHITA, KANSAS
S.W.S. NO. 307 IMPROVEMENTS
STA. 5+00 TO STA. 7+79.2
LINE NOS. 1 AND 1A

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
WICHITA, KANSAS
ENGINEERS
Designed By: CCB, BUB
Job No.: 52-86323.1
Date: OCTOBER, 1986
Drawn By: DLP

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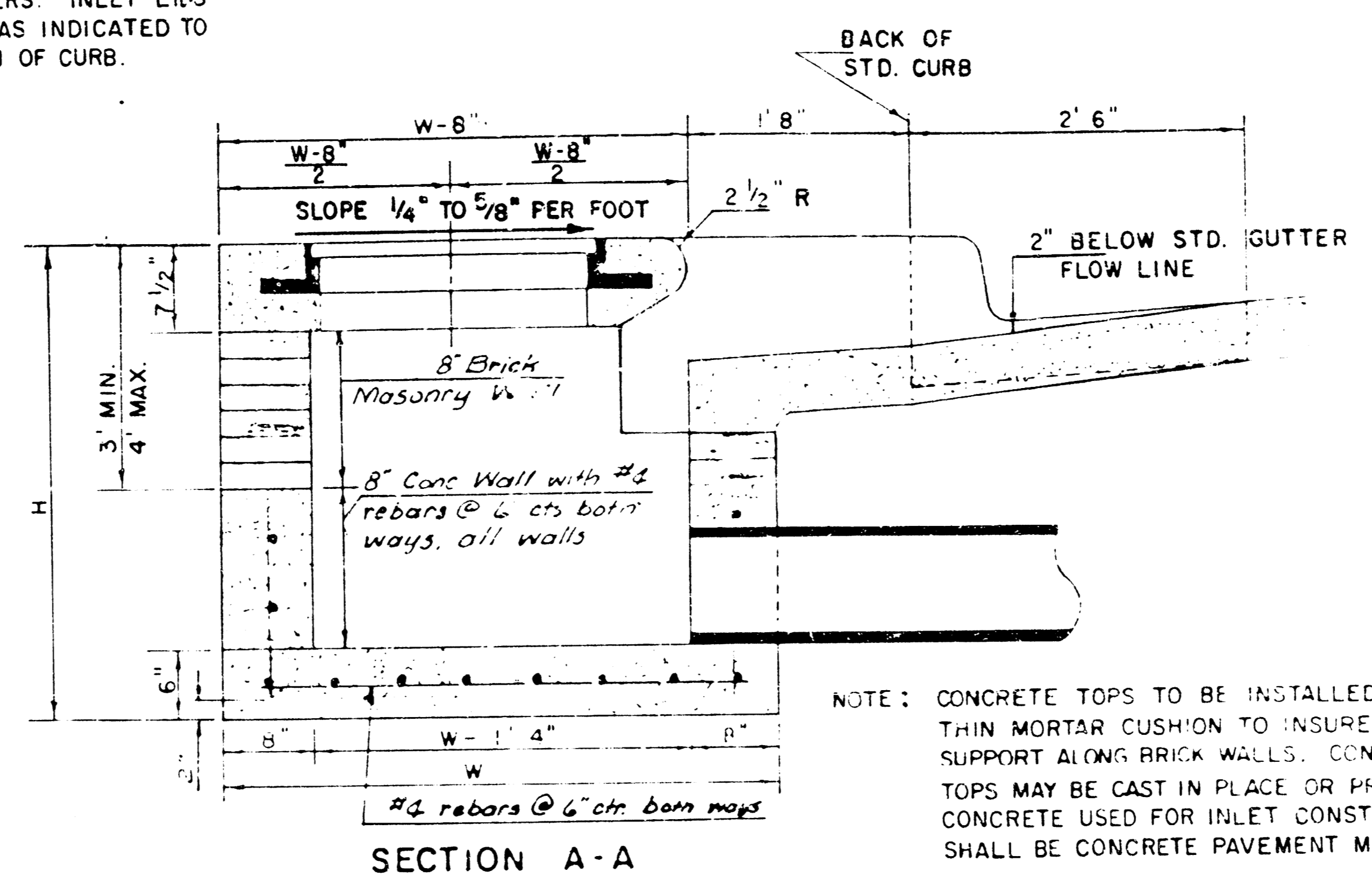


PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: b₃ bar to be field bent to clear manhole frame

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS



SECTION A-A

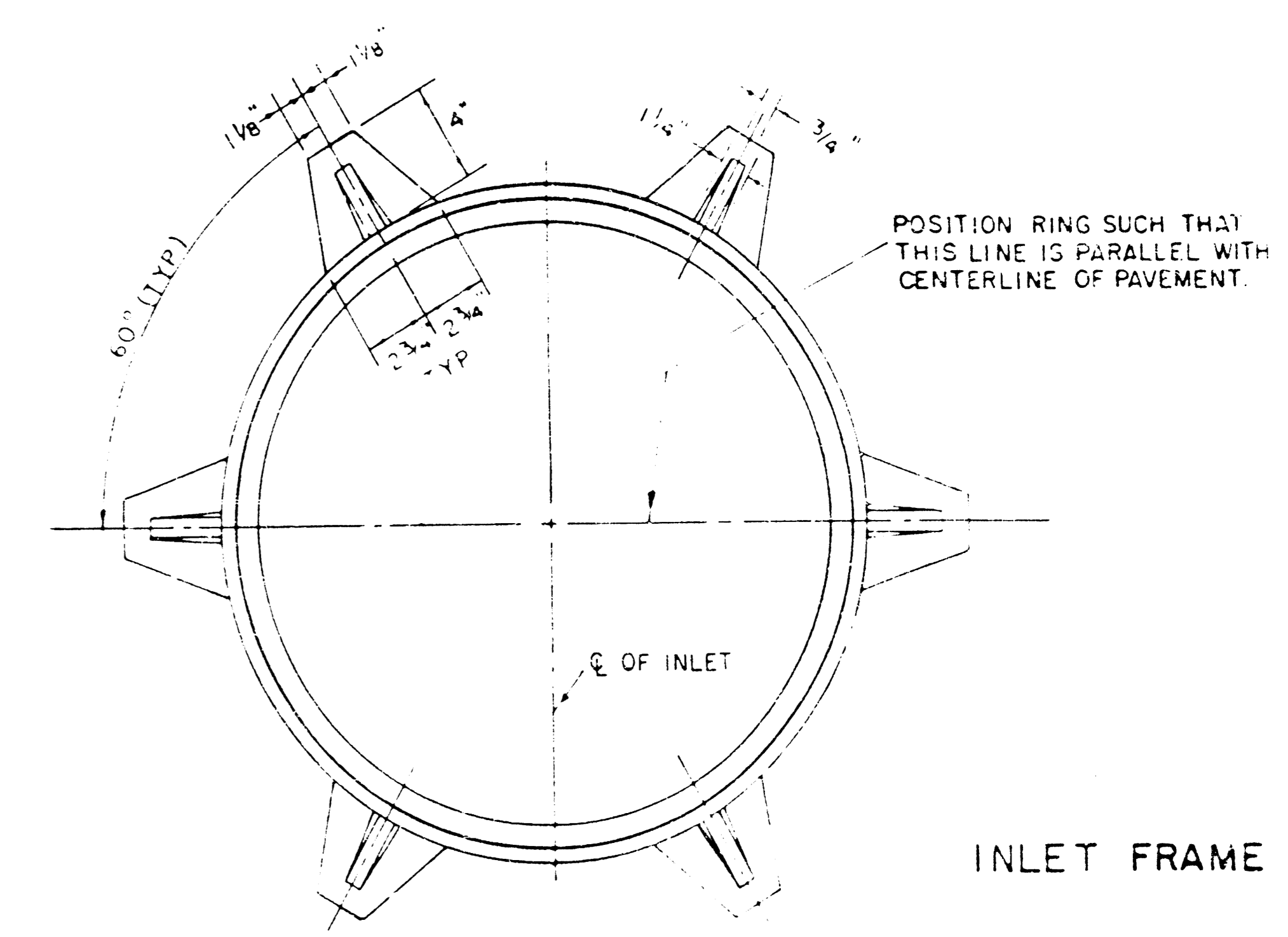
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 6" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

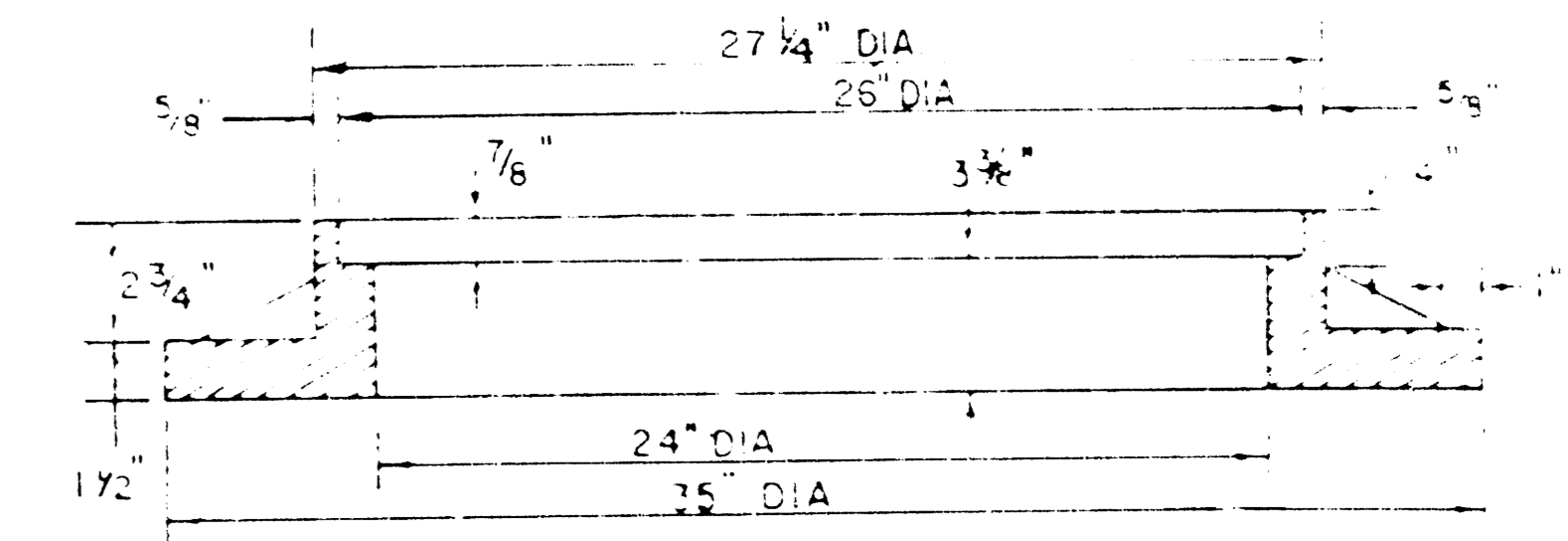
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF-CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



INLET FRAME

WEIGHT = 180 LBS



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

STEEL SCHEDULE

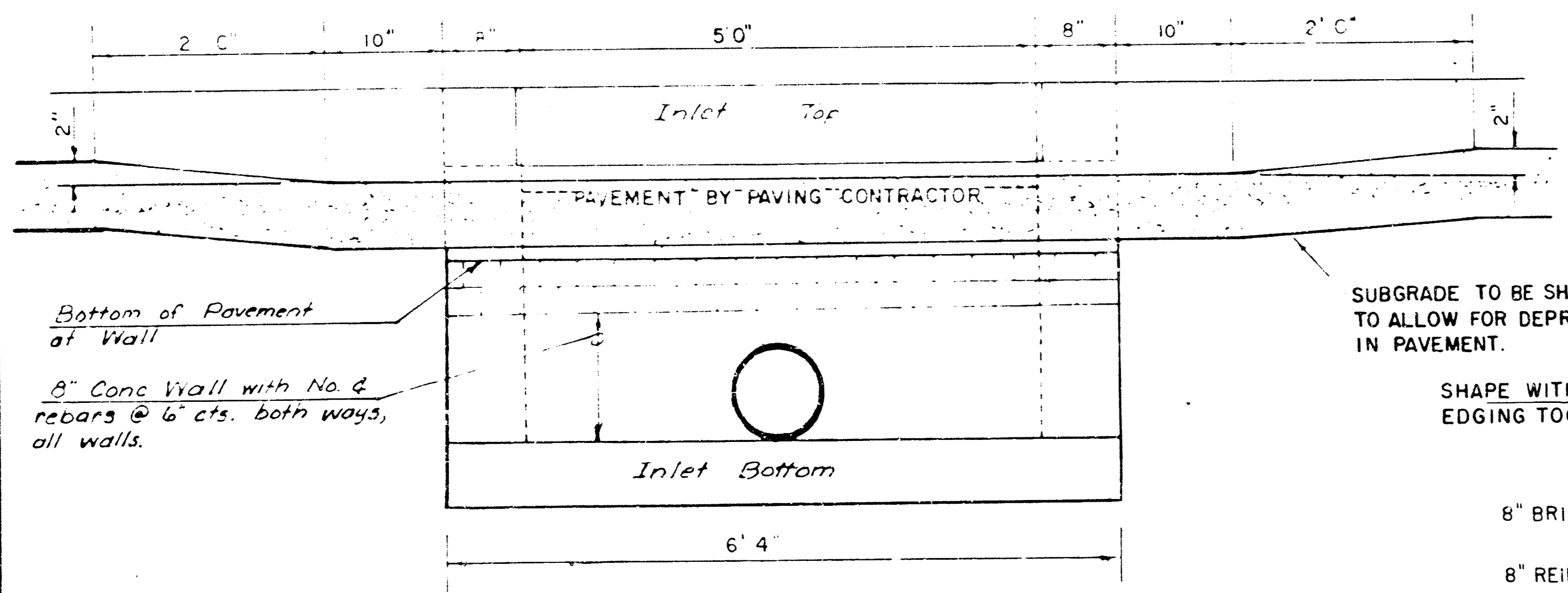
BAR NUMBER	a ₁	a ₂	a ₃	c	b ₂	b ₃	b ₄	WT LBS
4	4	4	2	1 3/4	3	5	7	5
SIZE	"4	"4	"4	"4	"4	"4	"4	"6
LENGTH	W=4'4"	5'7"	6'7"	4'0"	6'1"	-	-	-
	W=5'4"	7'7"	8'7"	5'0"	6'1"	-	-	-
	W=6'4"	9'7"	10'7"	6'0"	6'1"	-	-	-
	W=7'4"	11'7"	12'7"	7'0"	6'1"	-	-	-
	W=8'4"	13'7"	14'7"	8'0"	6'1"	-	-	-

* NOTE: a₃ BARS TO BE PLACED APPROX 2" BELOW TOP OF INLET COVER

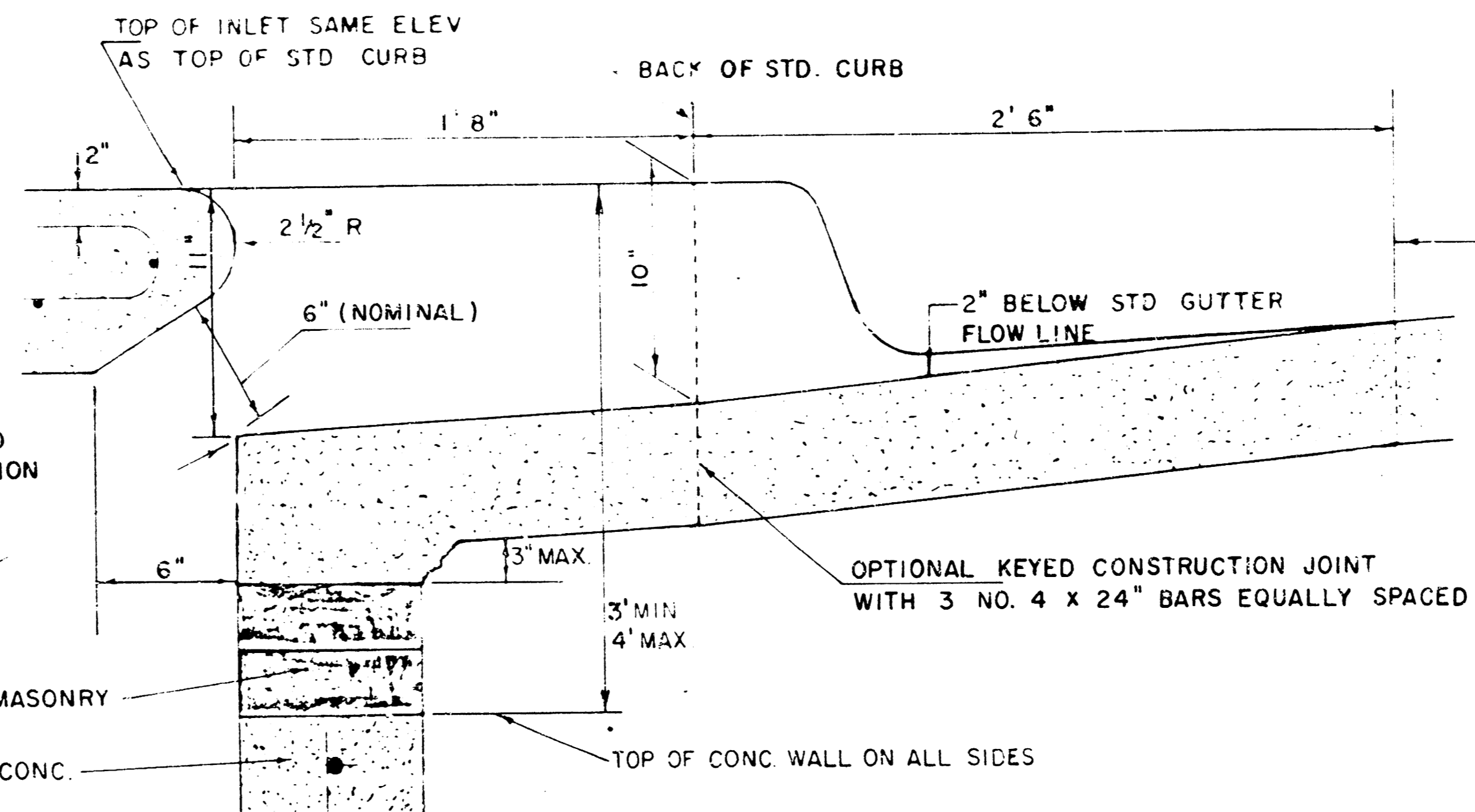
STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD CONC
4'4"	3'8" x 6'4" x 7 1/2"	21" B SMALLER	0.38 ±
5'4"	4'8" x 6'4" x 7 1/2"	24" B 30"	0.51 ±
6'4"	5'8" x 6'4" x 7 1/2"	36" B 42"	0.64 ±
7'4"	6'8" x 6'4" x 7 1/2"	48" B 54"	0.77 ±
8'4"	7'8" x 6'4" x 7 1/2"	60" B 66"	0.90 ±

BENDING DIAGRAM



SECTION C-C



SECTION B-B

LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER

REVISED 12-21-1984 Proj. No. 468 16 245 81552 000 000 001

DETAIL STANDARD TYPE IA CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"
JUNE 1984

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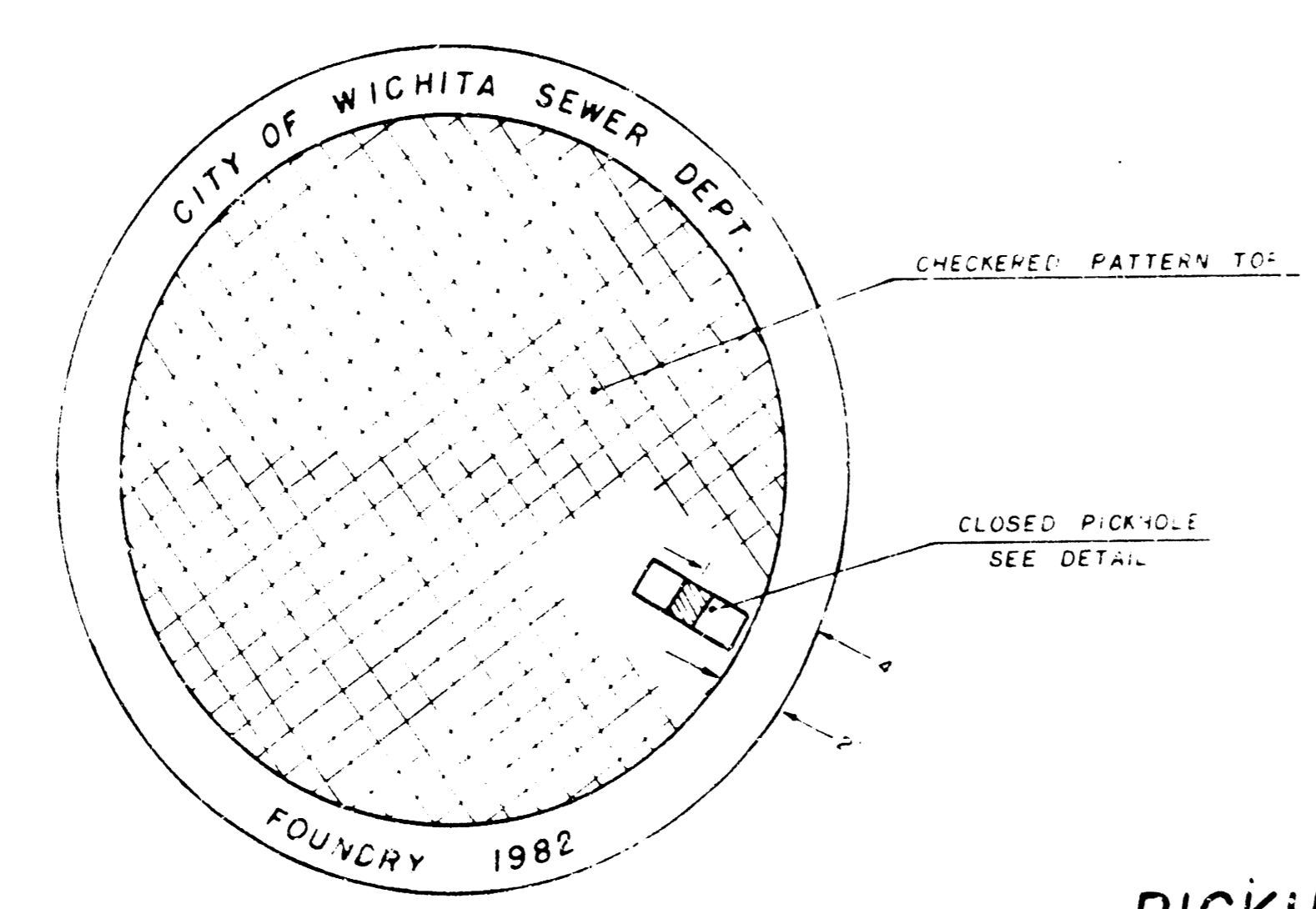
MANHOLE FRAME AND COVER DETAIL

ADOPTED AS STANDARD DESIGN

BY

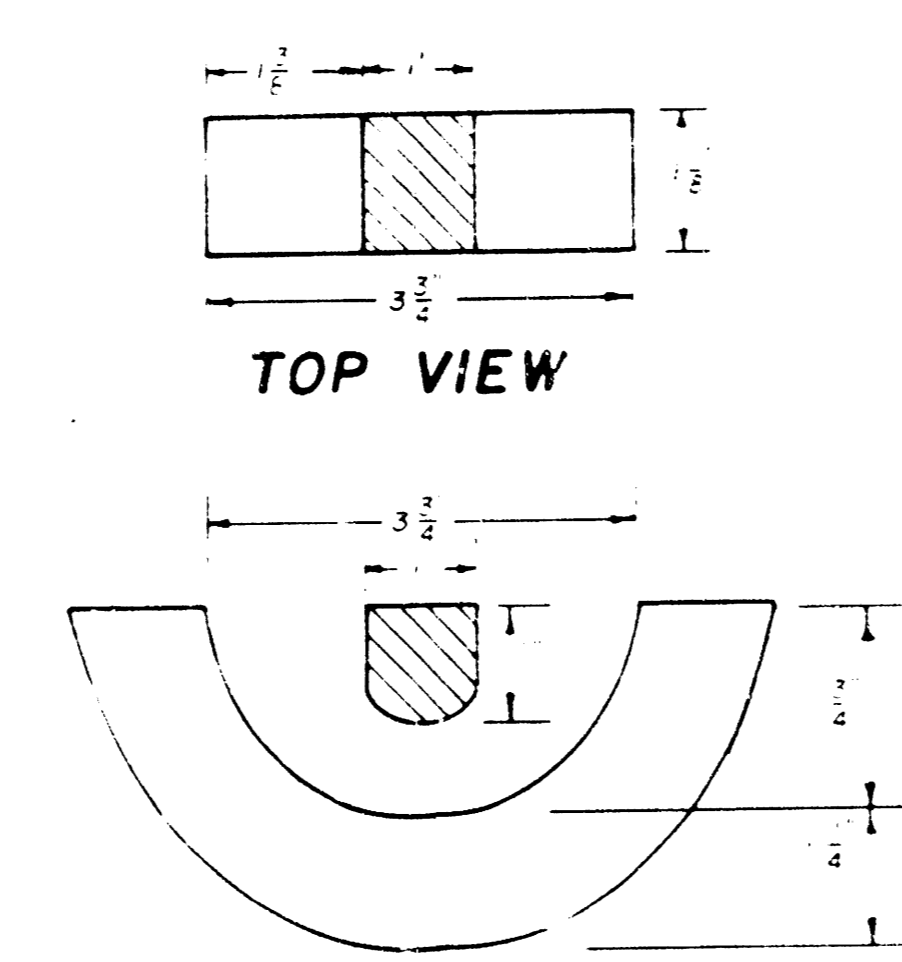
City of Wichita, Kansas

MANHOLE COVER
Weight: 180 Lbs.



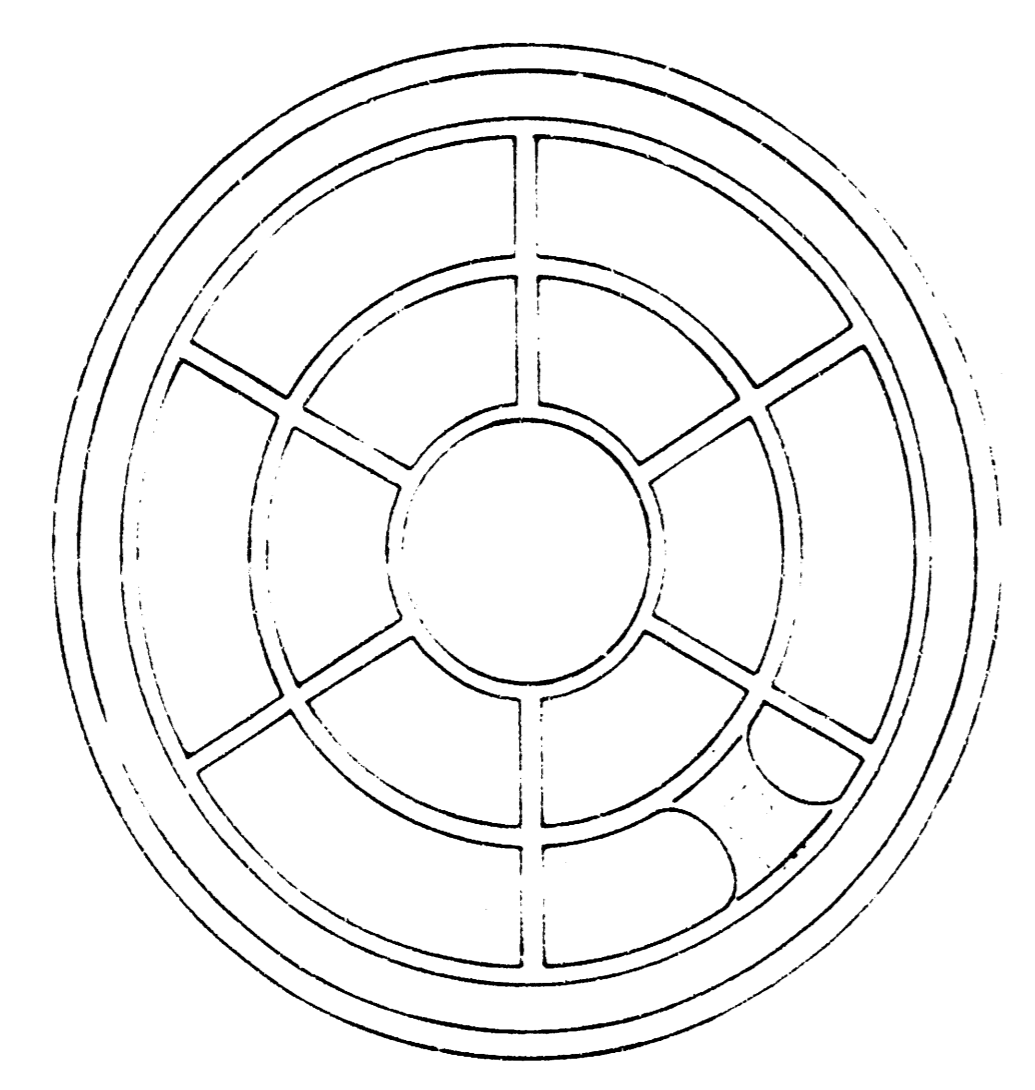
TOP VIEW

PICKHOLE DETAIL

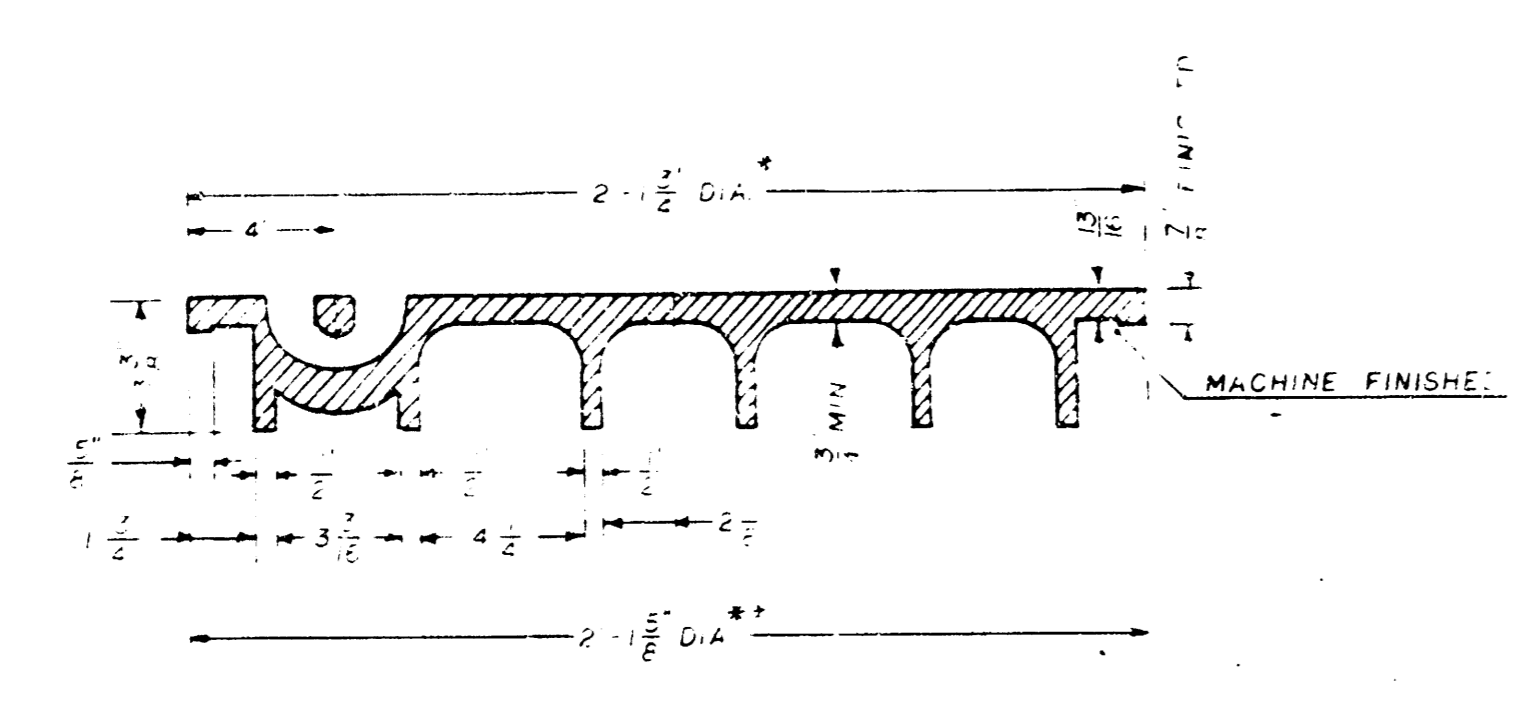


TOP VIEW

SECTION VIEW



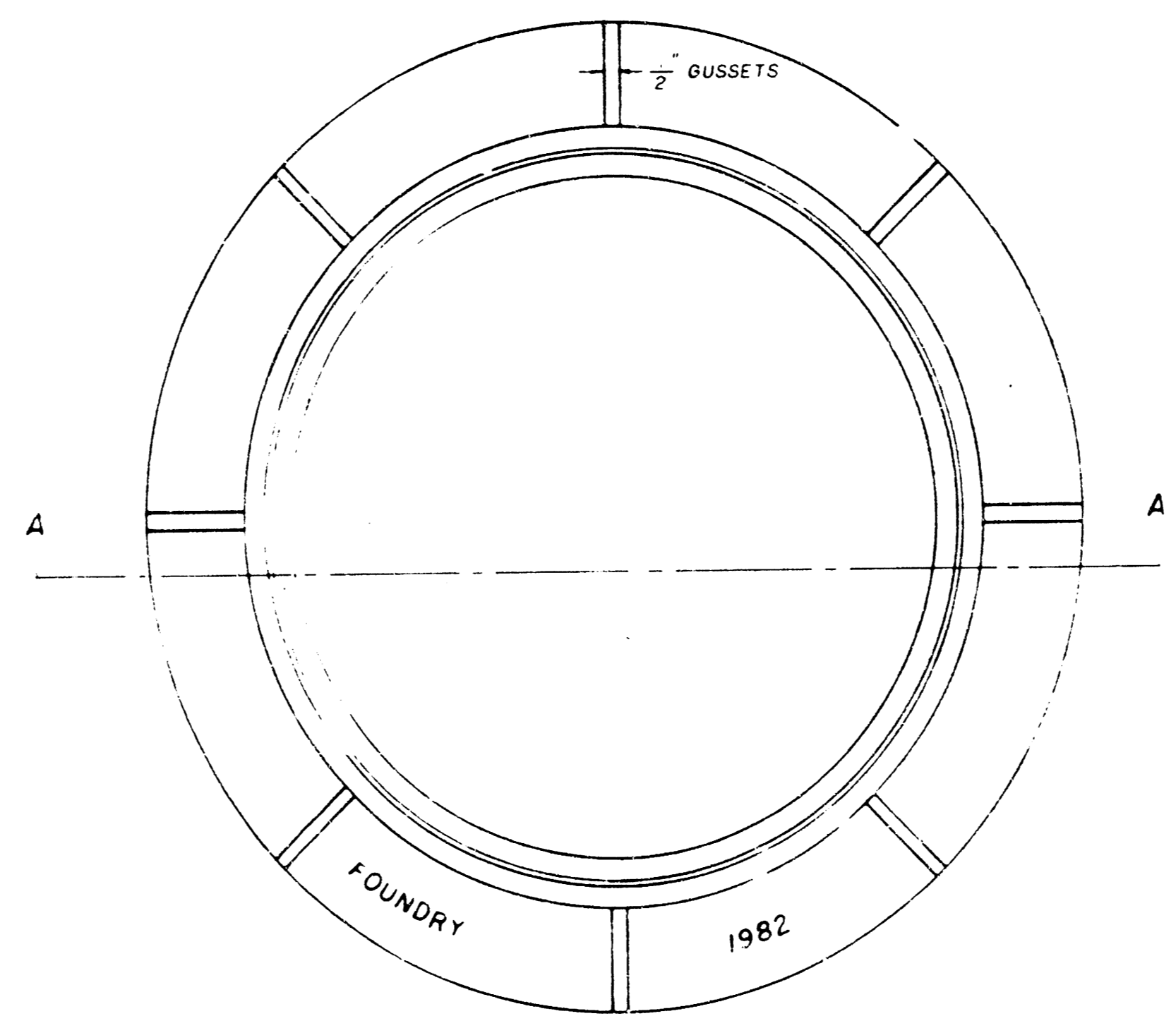
BOTTOM VIEW



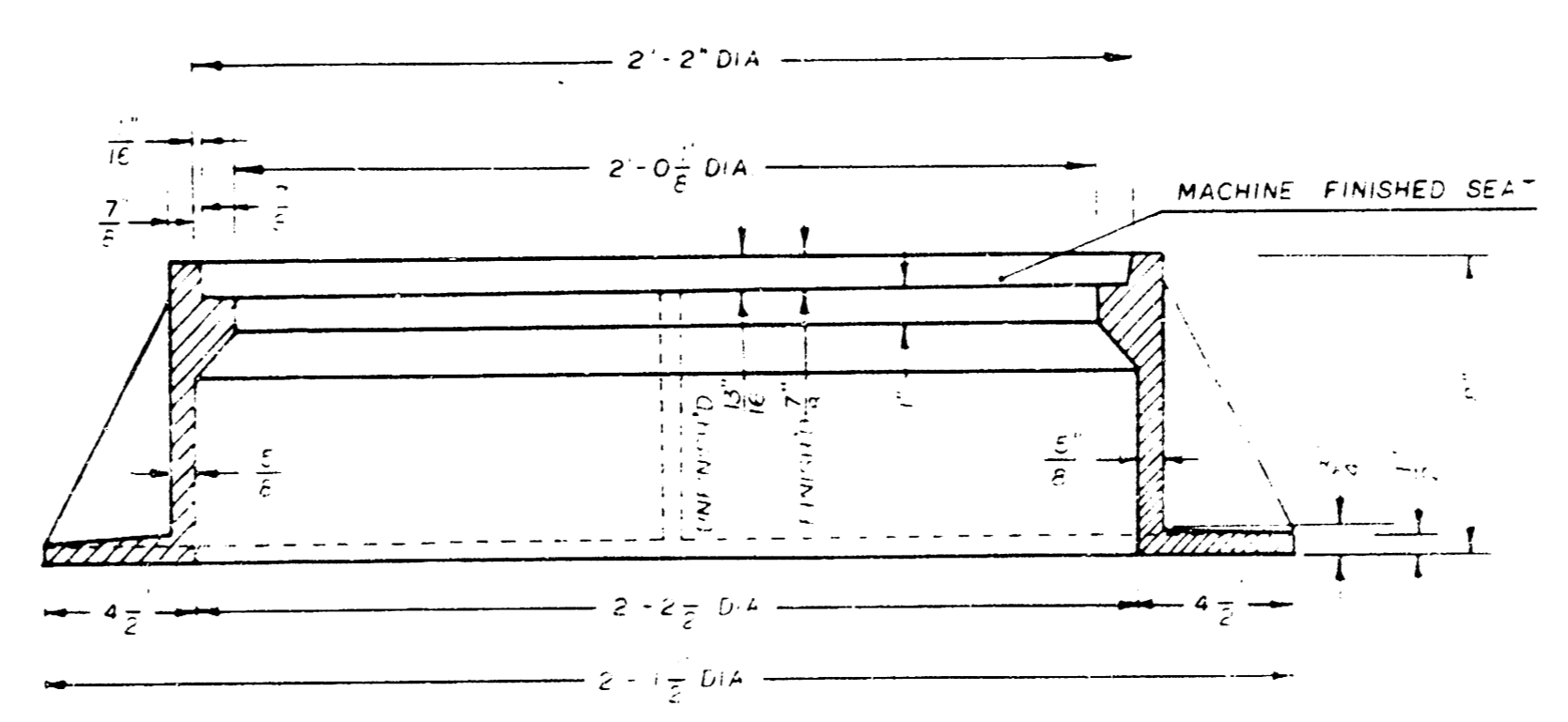
SECTION VIEW

* OUTSIDE D.A. TOP OF COVER
** OUTSIDE D.A. BOTTOM OF COVER

MANHOLE FRAME
Weight: 240 Lbs.



TOP VIEW



SECTION A-A

GENERAL NOTE

1. MANHOLE CASTINGS SHALL BE MANUFACTURED USING GOOD QUALITY GRAY IRON CONFORMING TO CLASS 30 OF A.S.T.M. DESIGNATION. DIMENSIONS AND WEIGHTS SHOWN ON THE DETAILED DRAWINGS SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS AND ANY DEVIATIONS FROM THE DIMENSIONS SHOWN MUST BE SPECIFICALLY APPROVED. THE FINISHED CASTINGS SHALL BE OF UNIFORM QUALITY, FREE FROM BLOWHOLES, POROSITY, HARD SPOTS, SHRINKAGE DISTORTION, OR OTHER DEFECTS.
2. MANHOLE CASTINGS SHALL BE COATED WITH AN ASPHALT PAINT RESULTING IN A SMOOTH, TEND AND TENACIOUS COATING WHICH IS NOT BRITTLE OR TACKY.
3. MANHOLE CASTINGS SHALL BE MANUFACTURED SUCH THAT A COVER MANUFACTURED BY ANY ONE FOUNDRY WILL FIT INTERCHANGEABLY INTO A FRAME MANUFACTURED BY ANOTHER FOUNDRY AND STILL MEET ALLOWABLE CLEARANCES AND NON-ROCKING REQUIREMENTS. THIS WILL REQUIRE MANUFACTURING OF THE MATCHING FACES ON THE COVER AND THE FRAME TO CLOSE TOLERANCES.
4. THE OUTSIDE CIRCUMFERENCE OF THE VERTICAL FACE OF THE COVER AND THE INSIDE CIRCUMFERENCE OF THE VERTICAL FACE IN THE FRAME RECESS SHALL BE MANUFACTURED TO TOLERANCE, SUCH THAT THE CLEARANCE BETWEEN THE COVER AND FRAME WILL NOT EXCEED 1/8" AT ANY POINT AROUND THE CIRCUMFERENCE OF THE COVER. THE SEATING SURFACES BETWEEN THE COVER AND FRAME SHALL BE MACHINED SUCH THAT THESE SURFACES SHALL MAKE FULL CONTACT FOR THEIR FULL CIRCUMFERENCE TO PRECLUDE THE COVER FROM ROCKING IN THE FRAME.
5. THE MANHOLE FRAME AND COVER SHALL BE MARKED WITH LETTERING INDICATING THE NAME OF THE MANUFACTURER AND THE YEAR WHEN THE COVER OR FRAME WAS CAST. THE COVER SHALL BE FURTHER IDENTIFIED WITH REGARDS TO OWNERSHIP USING LETTERS AT LEAST 1" IN HEIGHT. THIS IDENTIFICATION SHALL BE "CITY OF WICHITA SEWER DEPARTMENT". THE WORD "DEPARTMENT" MAY BE ABBREVIATED. THE TEXTURE OF THE TOP SURFACE OF THE COVER SHALL BE MANUFACTURED IN A CHECKERED PATTERN DESIGN AS INDICATED ON THE DRAWINGS. SMOOTH BLOCKOUTS SHALL BE UTILIZED TO HIGHLIGHT THE LETTERING ON THE COVER SURFACE. THE TOTAL AREA OF SMOOTH SURFACE BLOCKOUTS SHALL NOT EXCEED THE AREA AS INDICATED ON THE DRAWING. POSITIONING OF SMOOTH BLOCKOUTS AND LETTERING MAY VARY FROM THAT SHOWN ON THE DETAILED DRAWING.