

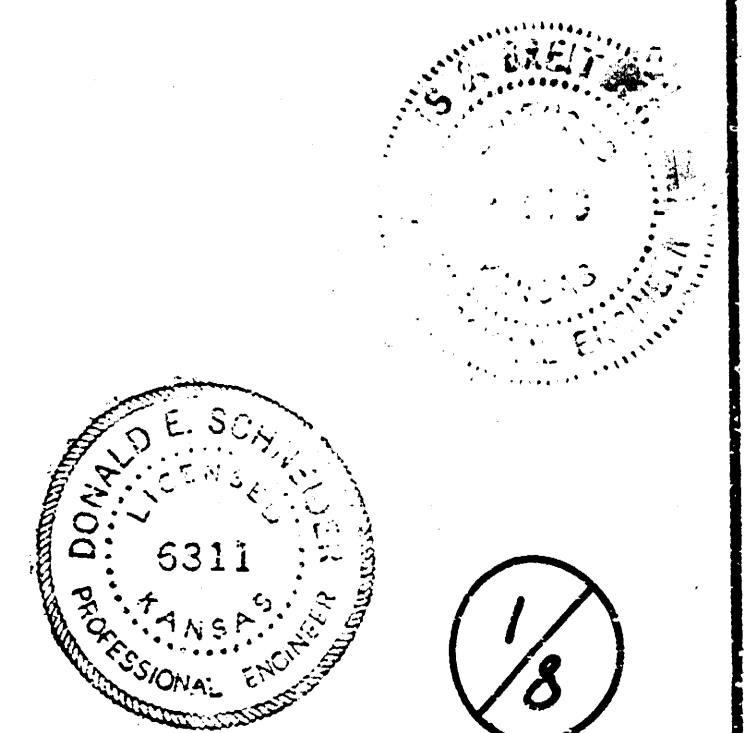
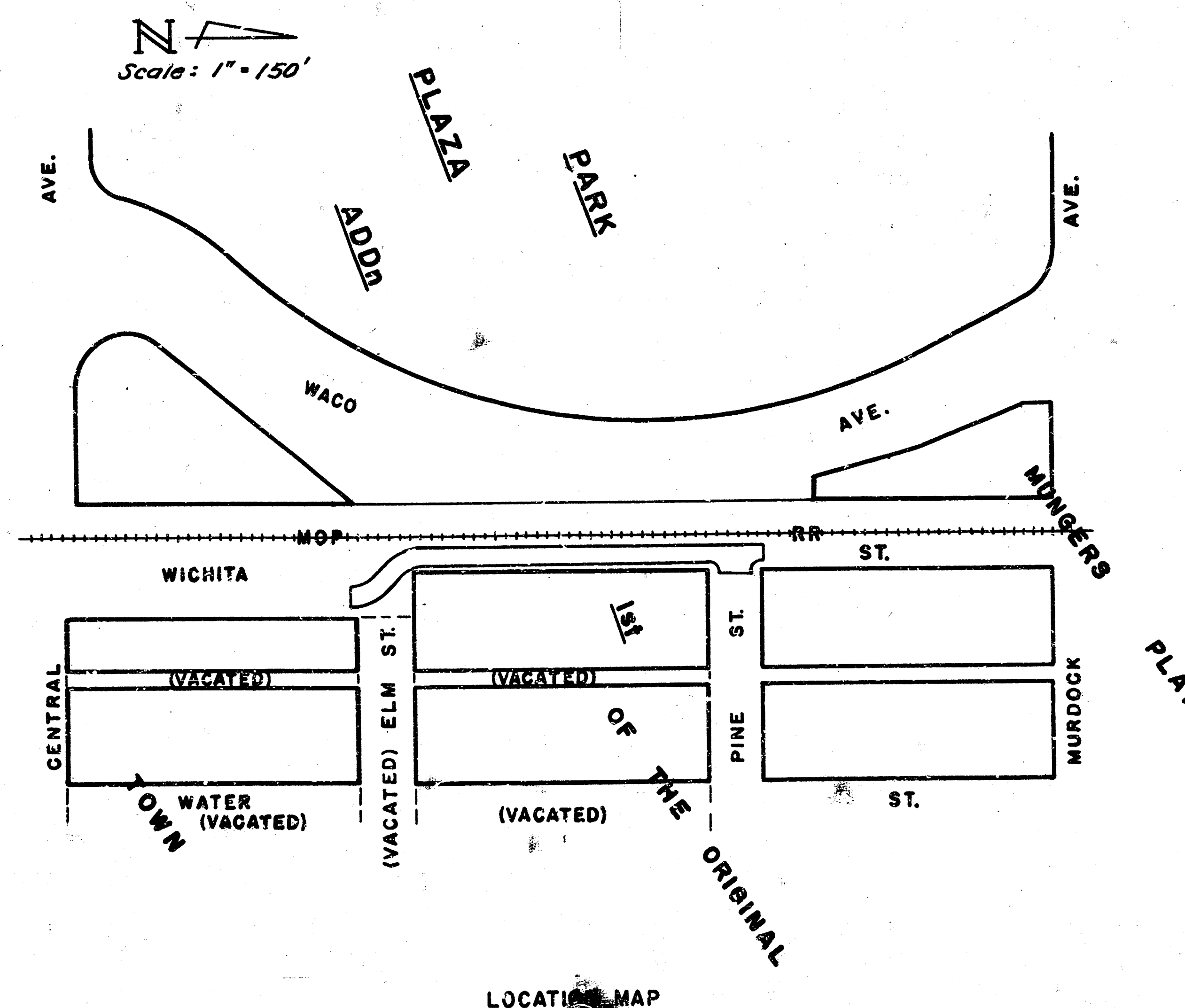
WICHITA STREET
10' S. OF S.L. ELM ST. TO N.L. PINE ST.
PARK PLAZA 1st ADDn

CITY OF WICHITA, KANSAS

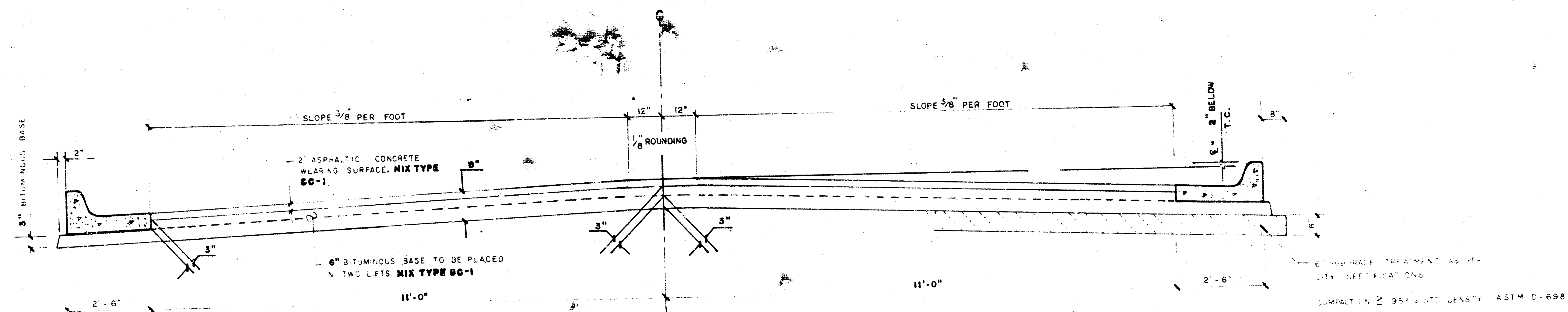
R.W. BRUGGEMAN DIRECTOR OF ENGINEERING / CITY ENGINEER

DATE:

PROJ. NO. 472 76 245 81183 000 000 001



PROJECT DESCRIPTION	
WICHITA STREET	
10' S. OF S.L. ELM ST. TO N.L. PINE ST.	
PARK PLAZA 1st ADDn	
PROJECT NUMBER	
472 76 245 81183 000 000 001	
BOOK NO. 200 266	APPROVED BY
DRAWN BY DEC	DATE
CITY OF WICHITA	
DEPARTMENT OF ENGINEERING	
DIRECTOR OF ENG./CITY ENGINEER	
R. W. BRUGGEMAN	
SCALE	



TYPICAL SECTION

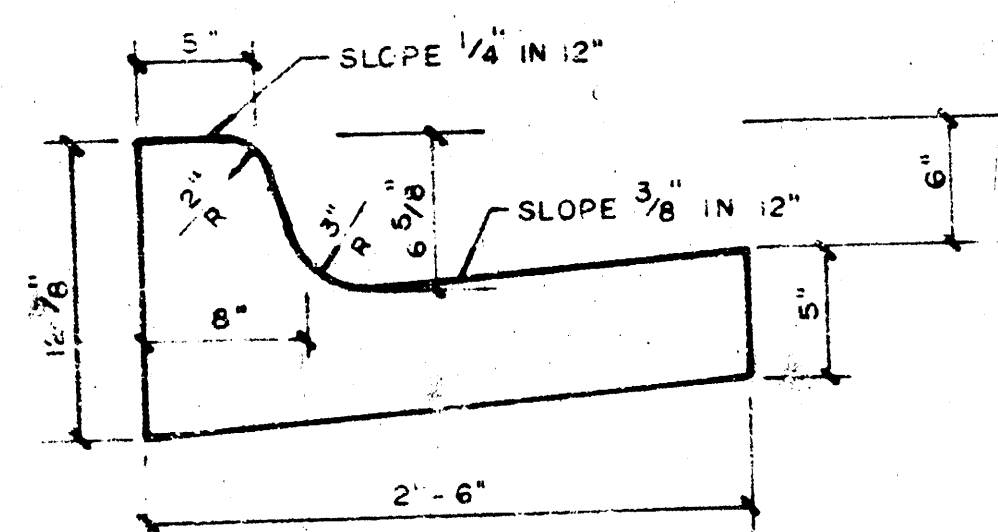
27' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPH(SS-1H or CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

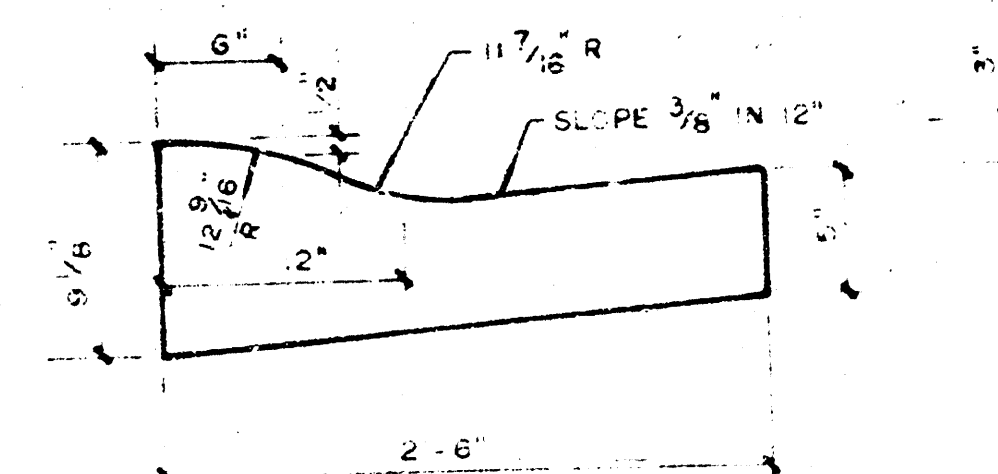
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 10' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

THE A.C. PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 8" A.C. PAVEMENT (6" BITUMINOUS BASE). THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 3" BITUMINOUS BASE.

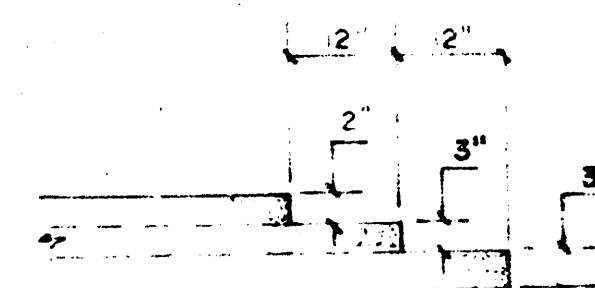
COMBINED CURB & GUTTER



ROLL TYPE CURB & GUTTER



DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF A.C. PAVEMENT.

CITY OF WICHITA, KANSAS

WICHITA STREET
10' S. OF S.L. ELM ST. TO N.L. PINE ST.
PARK PLAZA 1st ADDN

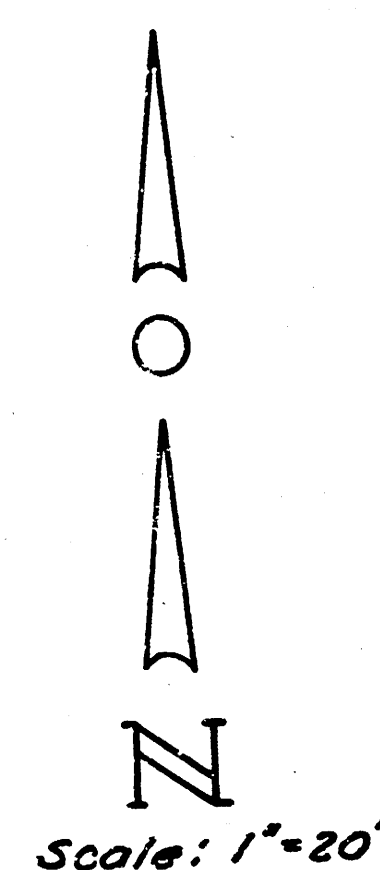
472 76 245 81183 000 000 001

B.M. 118.82 Std. in N. end sidewalk @ N.W. Cor. Arkansas River Bridge @ Murbok (Stamped 1306.22)
 B.M. 116.47 " on top curb @ S. end Median @ N. Side Murbok on Waco
 B.M. 113.36 Top curb @ N. end, E. side Wichita @ N. end Pine curb

$\Delta = 58.28^\circ$ R = 60.86' T = 30.00' L = 55.75' LC = 53.82'

CURVE DATA BASED ON Δ			RAD $\Delta = 26.14^\circ$		
STA.	ARC.	CHORD LENGTH		TOTAL	
		Δ OFF Δ C.	Δ OFF Δ R.	DEFLECTION	DEFLECTION
0+00				0°00'00"	0°00'00"
0+06.36	6.36	6.16	8.55	2°57'37"	2°57'37"
0+12.71	9.71	6.35	13.03	4°54'14"	7°53'51"
0+19.07	13.30	9.99	20.51	7°12'05"	14°55'56"
0+25.79	16.42	10.72	23.02	7°49'44"	22°49'40"
C+33.75	7.96	5.21	10.75	3°44'48"	26°14'28"
8.167m					
0+44.71				0°00'00"	0°00'00"
0+50	25.29	33.77	16.94	11°52'14"	11°52'14"
1+20.66	30.46	40.54	19.74	14°21'14"	26°16'28"

Back of Proposed Curb



Remove exist. leads & Inlets.
Plug @ M.H. Plugs incidental
to Inlet & Lead Removal.

Inlet #1- Construct Type 1A Inlet, W=4'-2", T.C.=111.85
Install 28 L.F. 12" D.I. Pipe from Inlet #1 to Inlet #2
U.S. FL. @ Inlet #1 = 109.49
D.S. FL. @ Inlet #2 = 109.39

Inlet #2- Construct Type 1A Inlet, W=4'-2", T.C.=111.85
Install 67 L.F. 12" D.I. Pipe from Inlet #2 to M.H.
U.S. FL. @ Inlet #2 = 109.39
D.S. FL. @ M.H. = 109.19

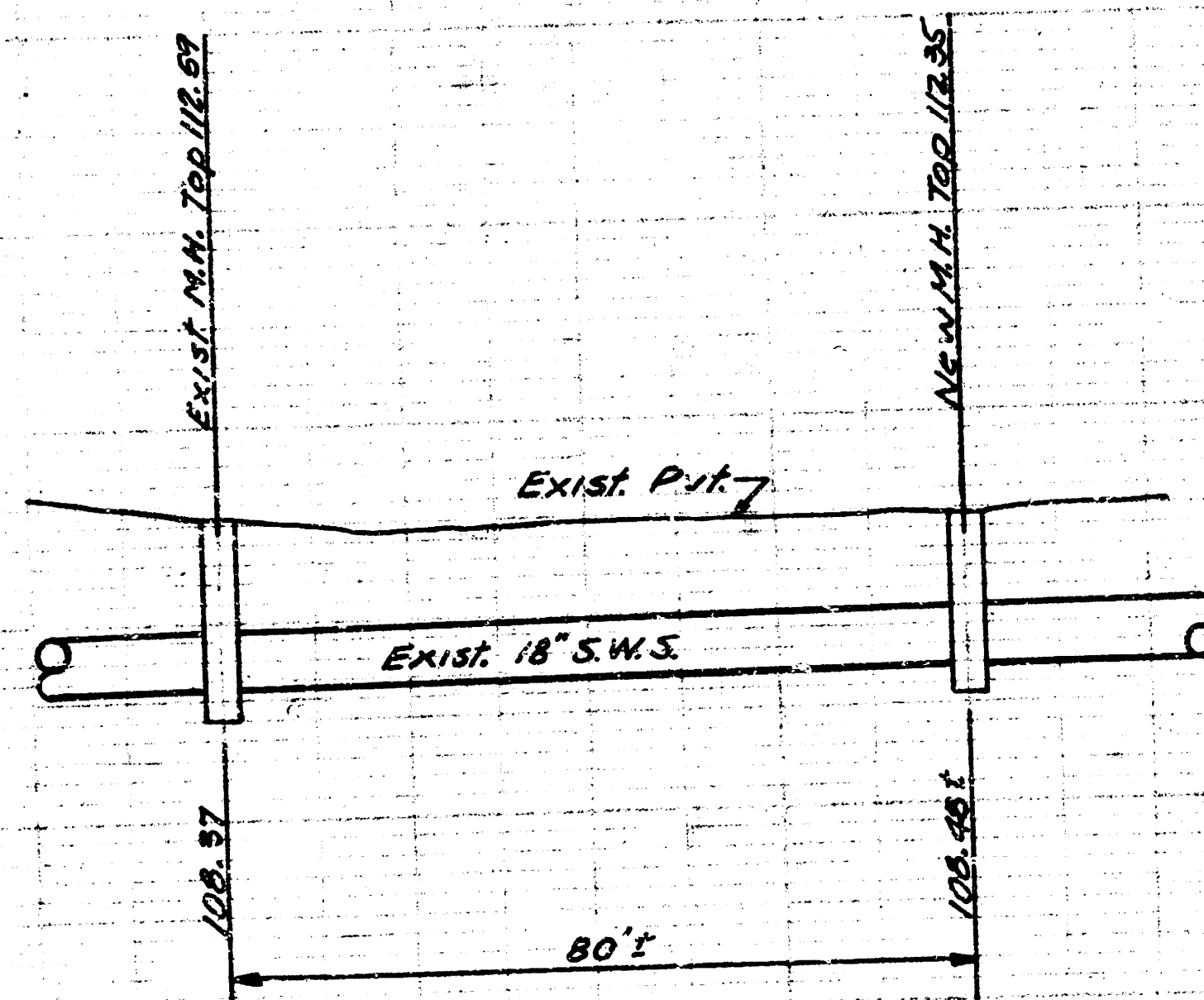
Construct Type 1A Inlet, W=4'-2", T.C.=112.08
Install 22 L.F. 12" D.I. Pipe from Inlet to M.H.
U.S. FL. @ Inlet = 109.72
D.S. FL. @ M.H. = 109.62

Construct Type B,
2'-3" Dia. M.H., Top 112.35

Construct Type 1A Inlet, W=4'-2", T.C.=112.08
Install 18 L.F. 12" D.I. Pipe from Inlet to M.H.
U.S. FL. @ Inlet = 109.72
D.S. FL. @ M.H. = 109.62

WICHITA

B.M. 113.36 Top curb @ N. end, E. side Wichita & N. end Pine curb
B.M. 116.57 " on top curb @ S. end Median @ N. side Murdock on Waco
B.M. 110.82 Std. in N. end sidewalk @ N.W. Cor. Arkansas River Bridge @ Murdock (Stamped 1306.22)



Construct Type 1A Inlet, W=4'-2", T.C.=112.91
Install 24 L.F. 12" D.I. Pipe from Inlet to M.H.
U.S. FL. @ Inlet = 110.55
D.S. FL. @ M.H. = 110.45

Construct Type B, 2'-3" Dia. M.H., Top 113.37

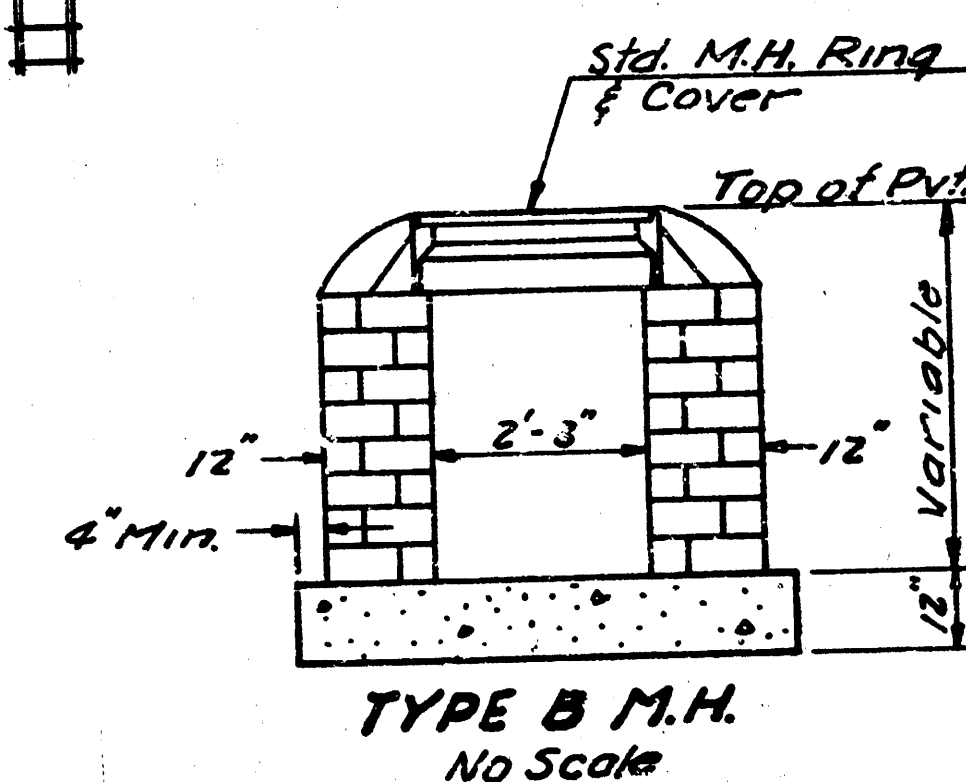
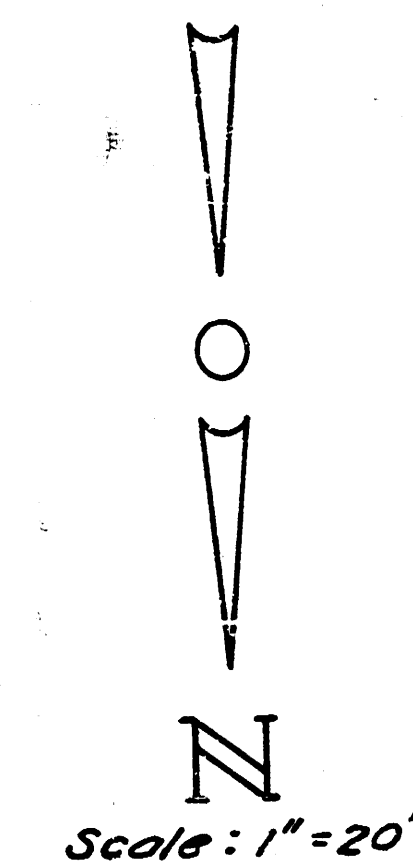
(Construction subsidiary work)
Construct 3 L.F. of concrete arch
cradle over top of 18" San Sewer,
t=4". Clearance req'd for
lead between Inlet & M.H.

Construct Type 1A Inlet, W=4'-2", T.C.=113.27
Install 24 L.F. 12" D.I. Pipe from Inlet to M.H.
U.S. FL. @ Inlet = 110.40
D.S. FL. @ M.H. = 110.80

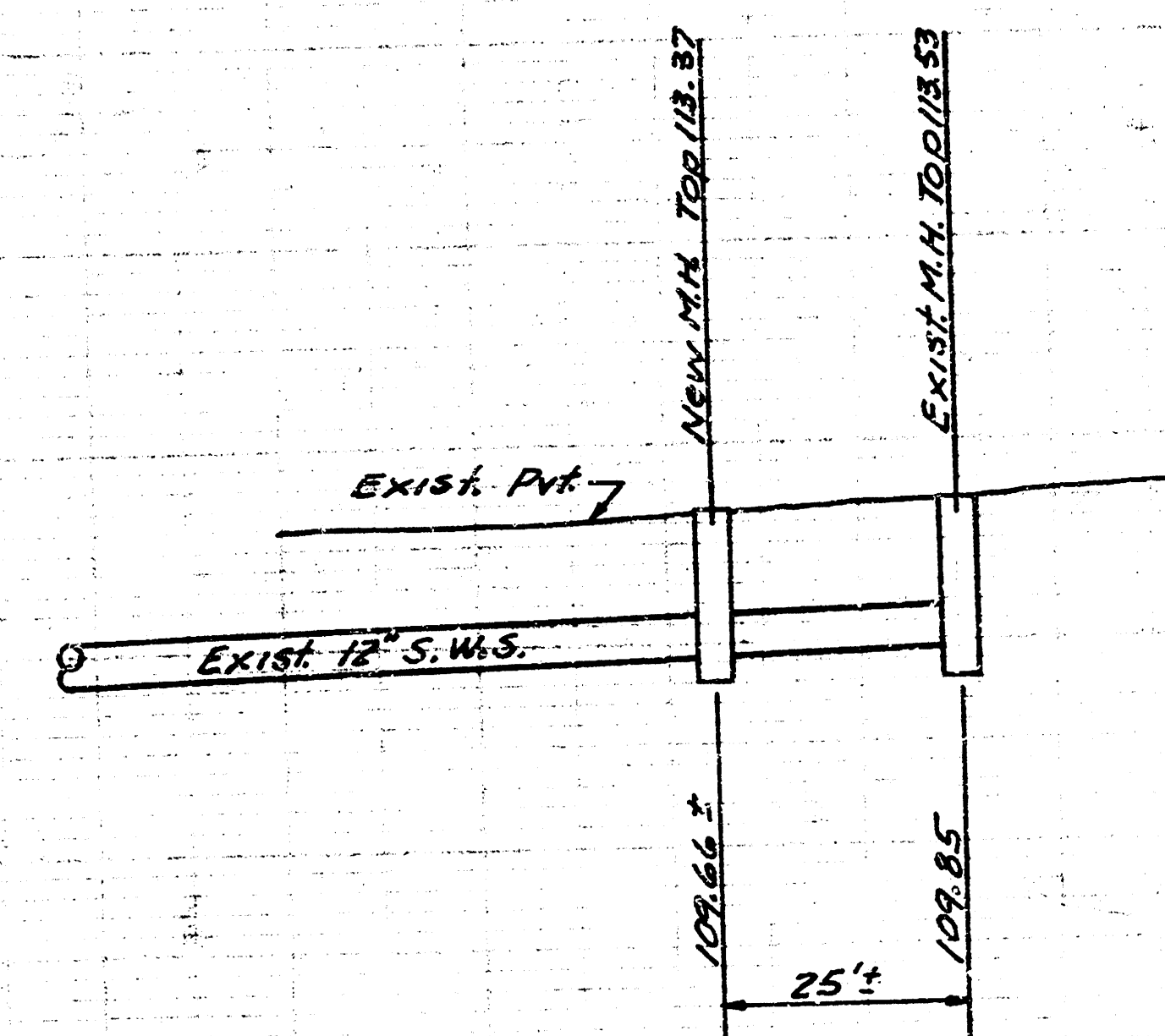
Back of Proposed Curb

Remove exist. M.H., exist. leads
and Inlets & 12" S.W.S. between
new M.H. & exist. M.H.

Back of Proposed Curb



TYPE B M.H.
No Scale



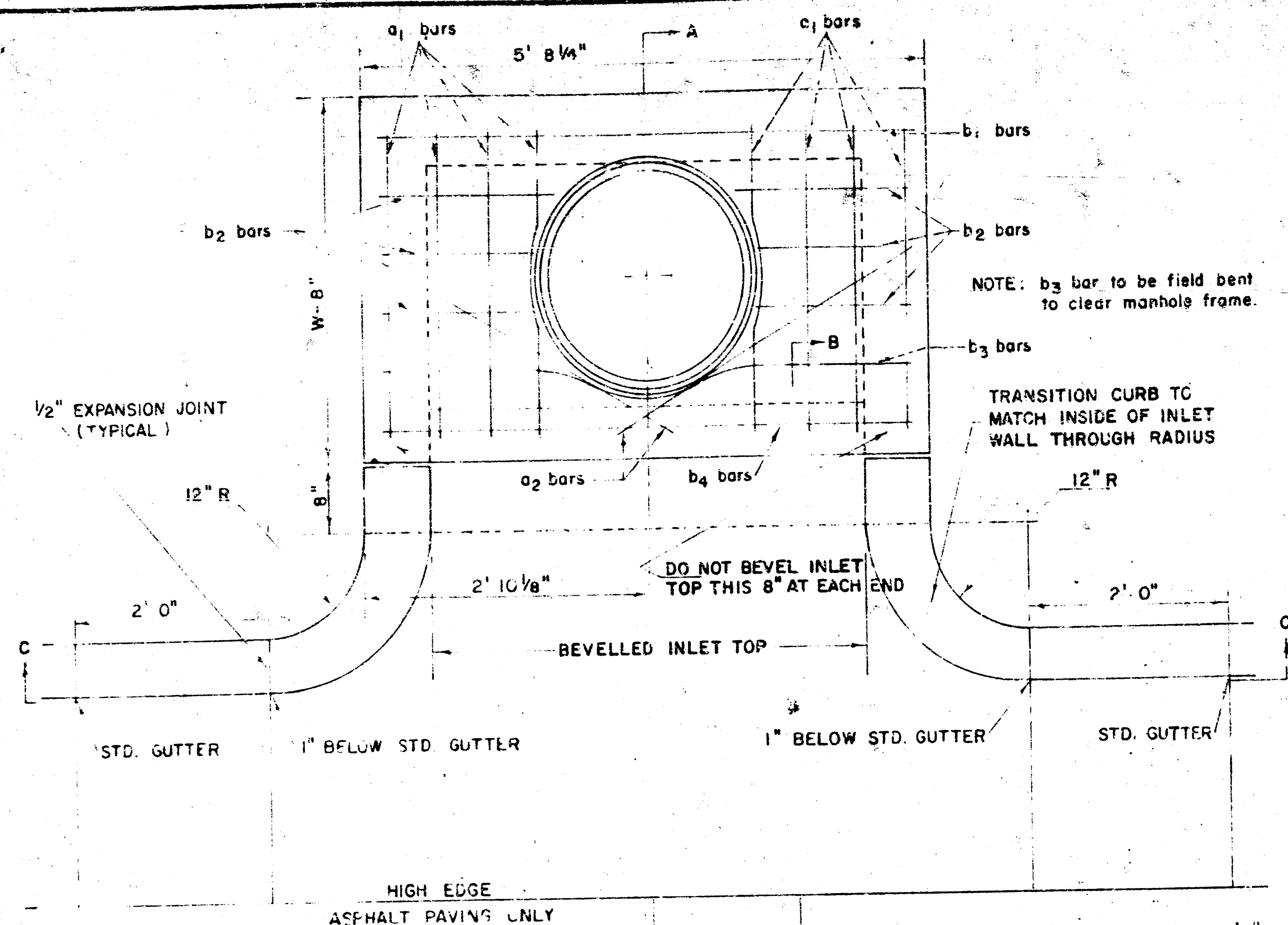
115.00

110.00

105.00

4/8

PROJECT DESCRIPTION
WICHITA STREET - DRAINAGE
10' S. OF S.L. ELM ST. TO N.L. PINE ST.
PARK PLAZA 1st ADDN
PROJECT NUMBER
472 76 245 81183 000 300 001



PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE

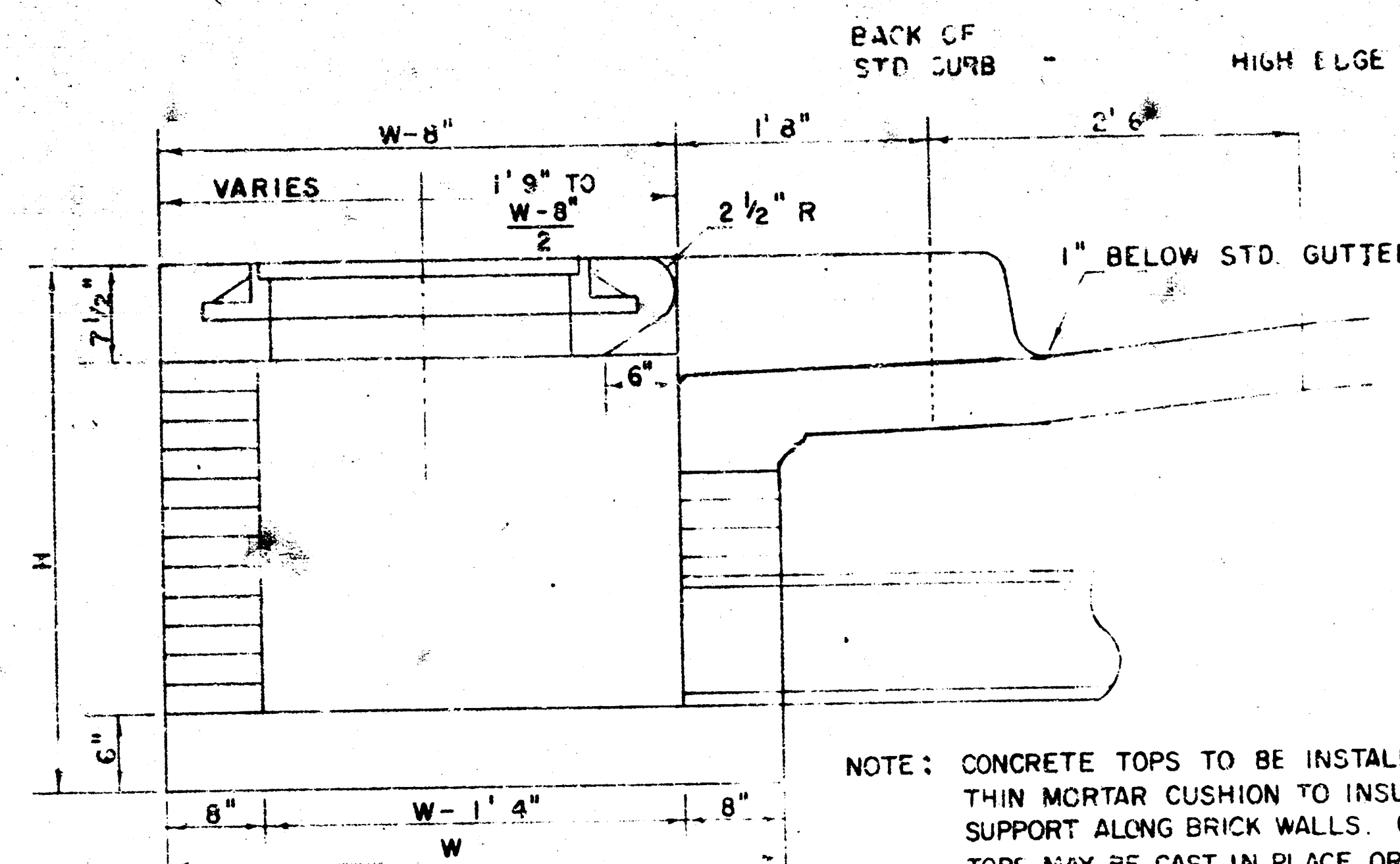
BAR	a ₁	a ₂	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	8	2	1	3	5	7	
SIZE	#4	#4	#4	#4	#4	#4	
W=4'2"	6'5"	3'4"	5'5"	-	-	-	60*
W=5'0"	8'1"	4'4"	5'5"	-	-	-	77*
W=6'0"	10'1"	5'4"	5'5"	-	-	-	97*
W=7'0"	11'1"	6'4"	5'5"	-	-	-	111*
W=8'0"	12'1"	7'4"	5'5"	-	-	-	124*

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

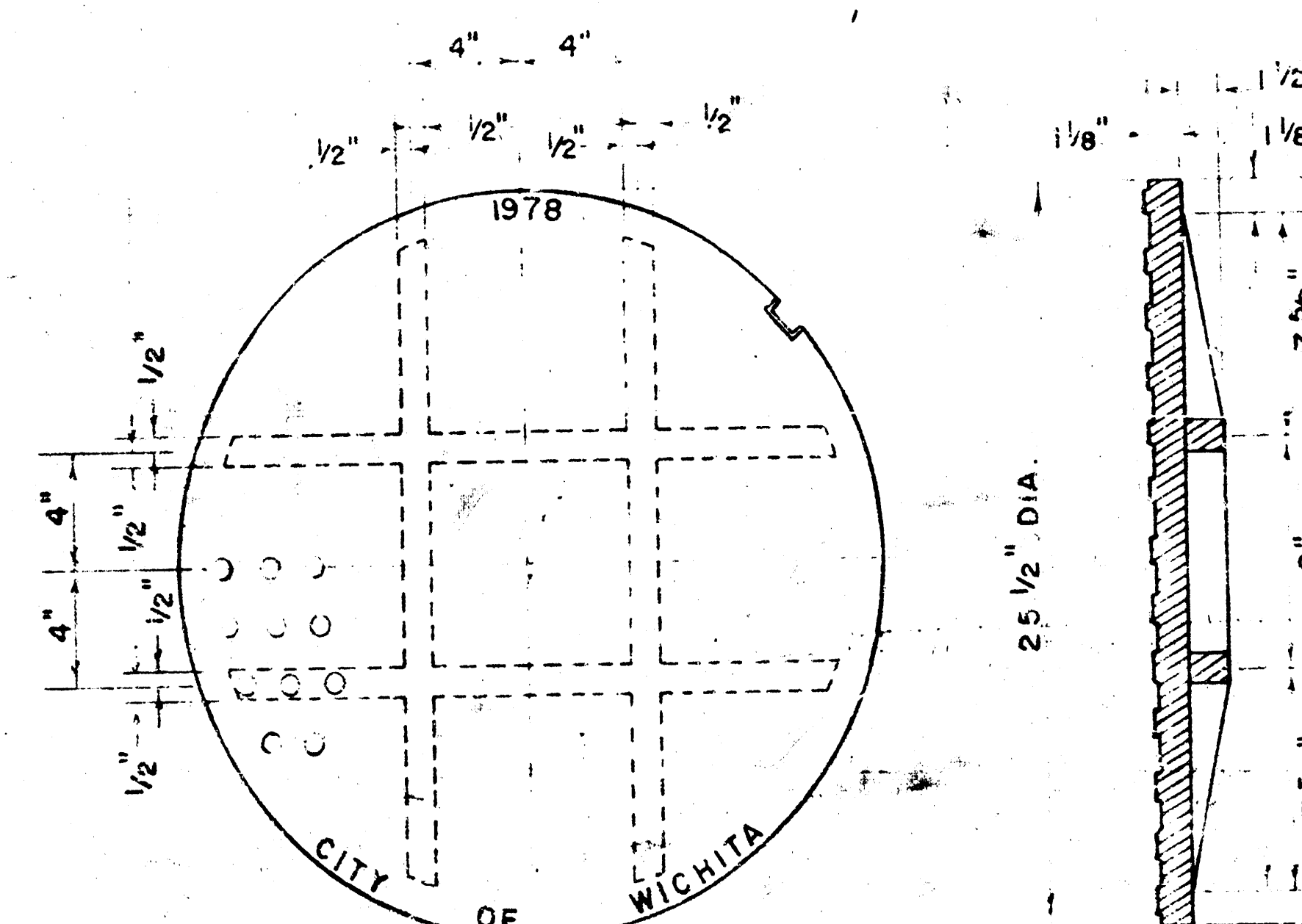
BENT BAR DIAGRAM

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

* GROSS VOLUME

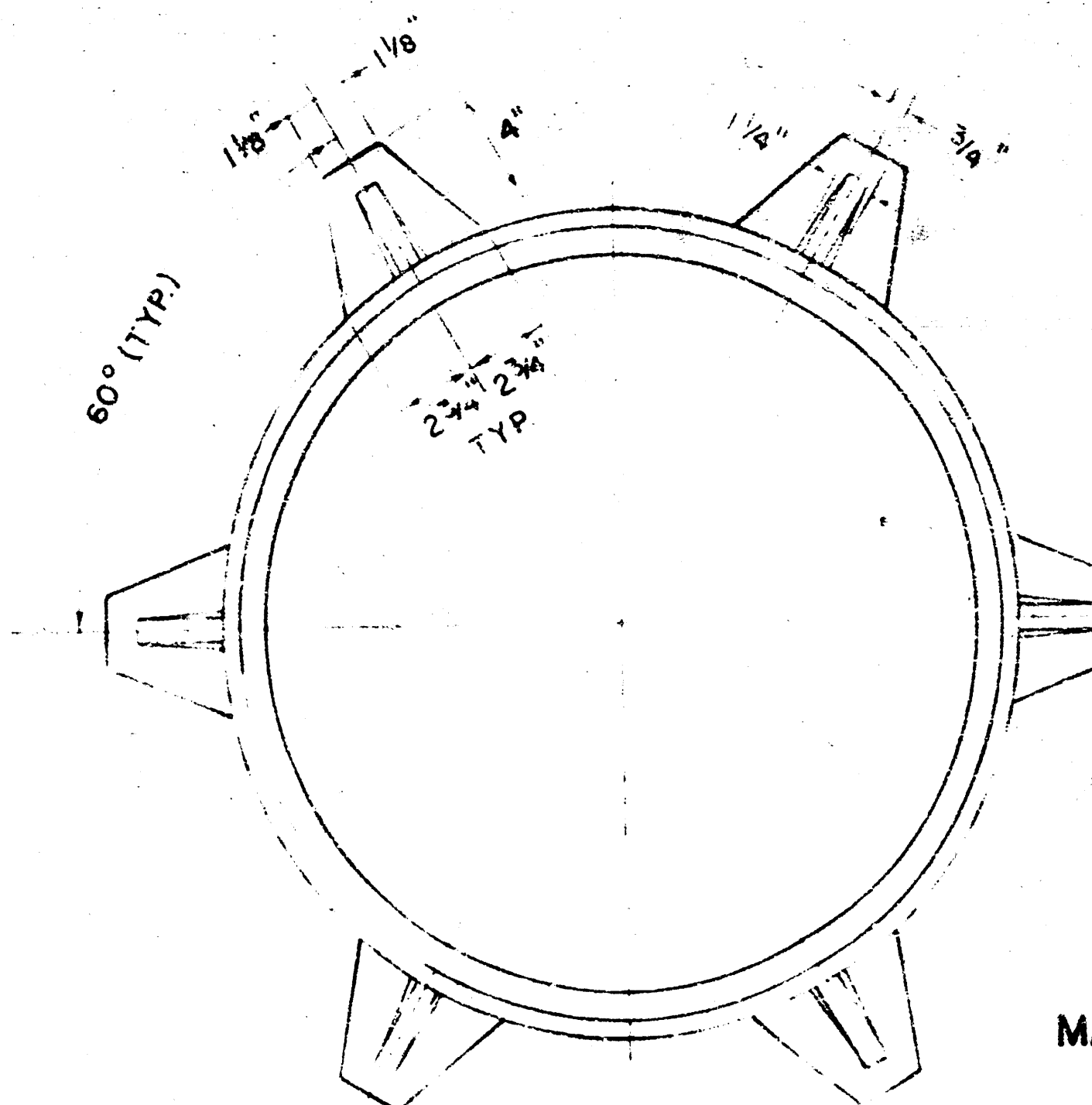


SECTION A-A (SCALE 1" = 1' 0")



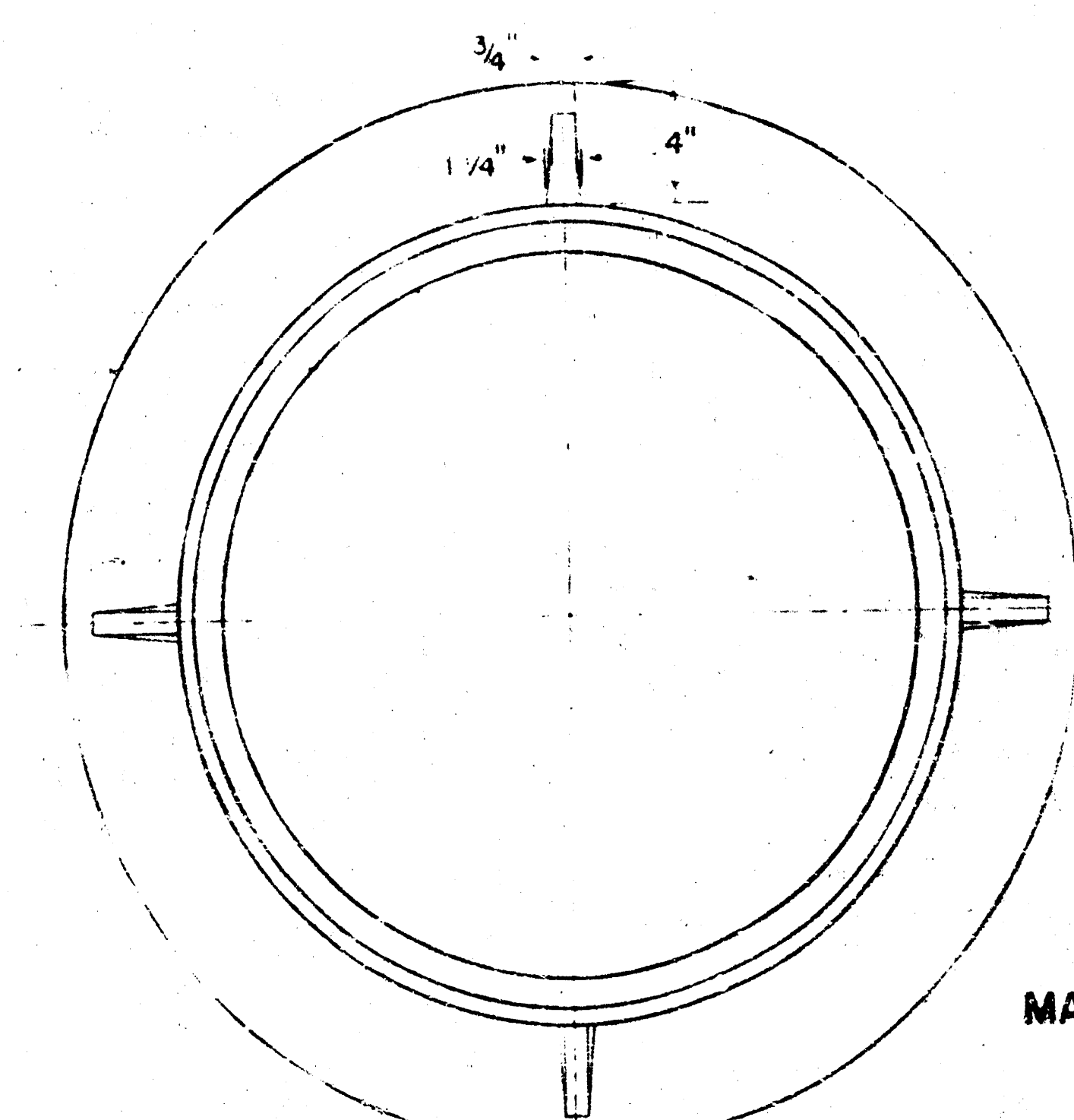
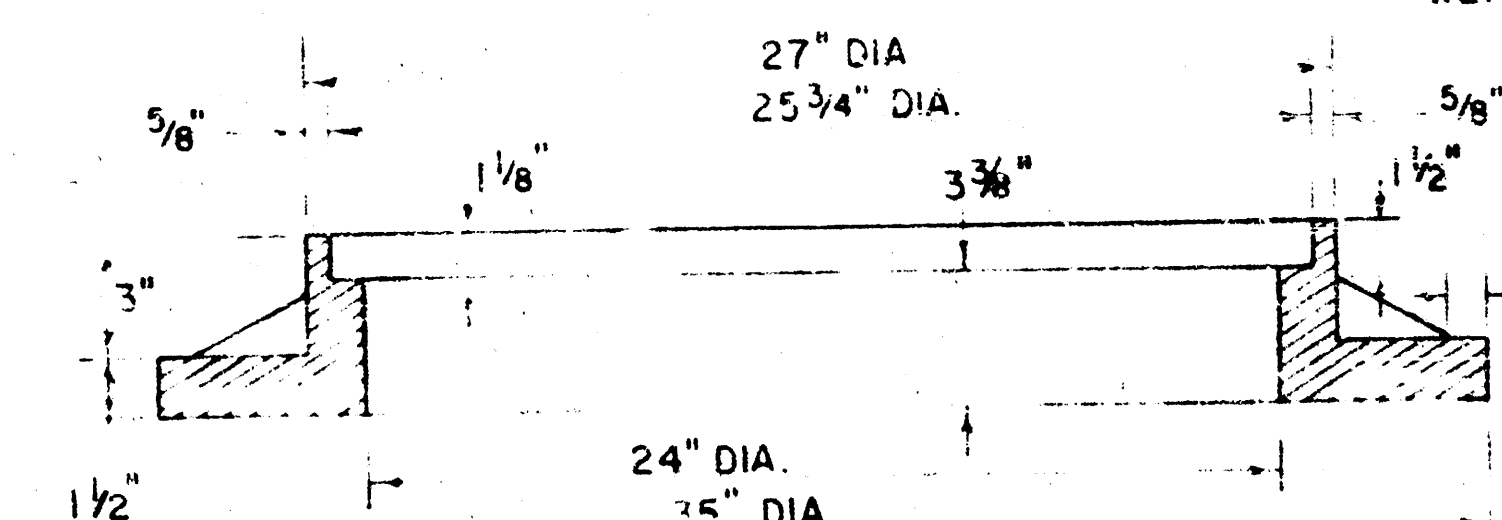
MANHOLE COVER

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



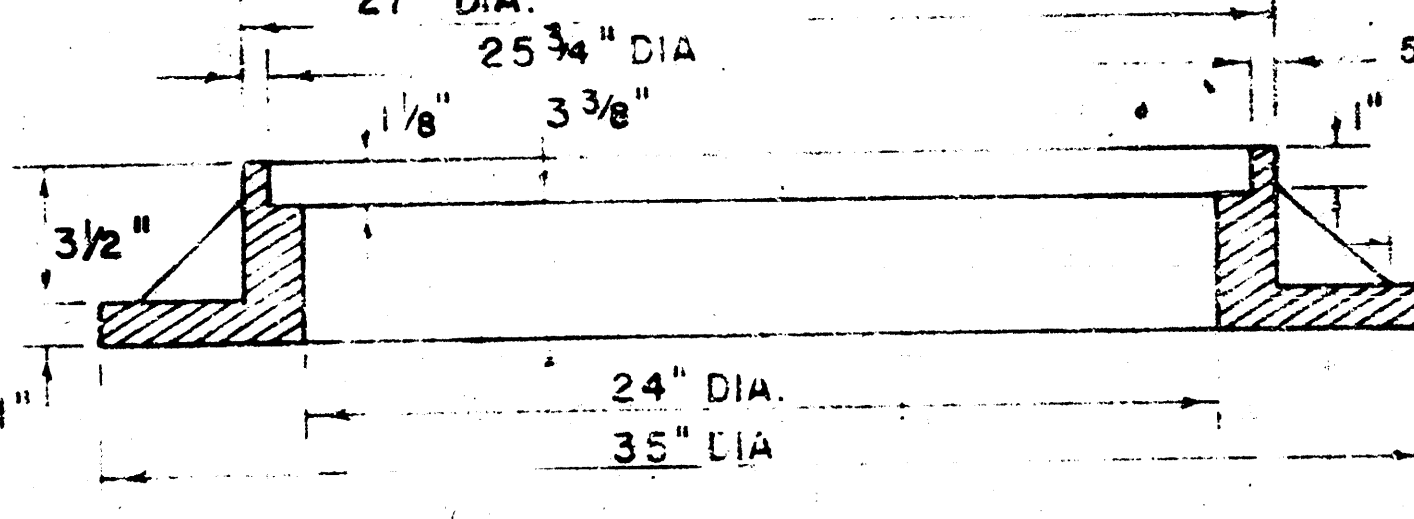
MANHOLE FRAME

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



MANHOLE FRAME (ALTERNATE)

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



Rev. 5-18-81

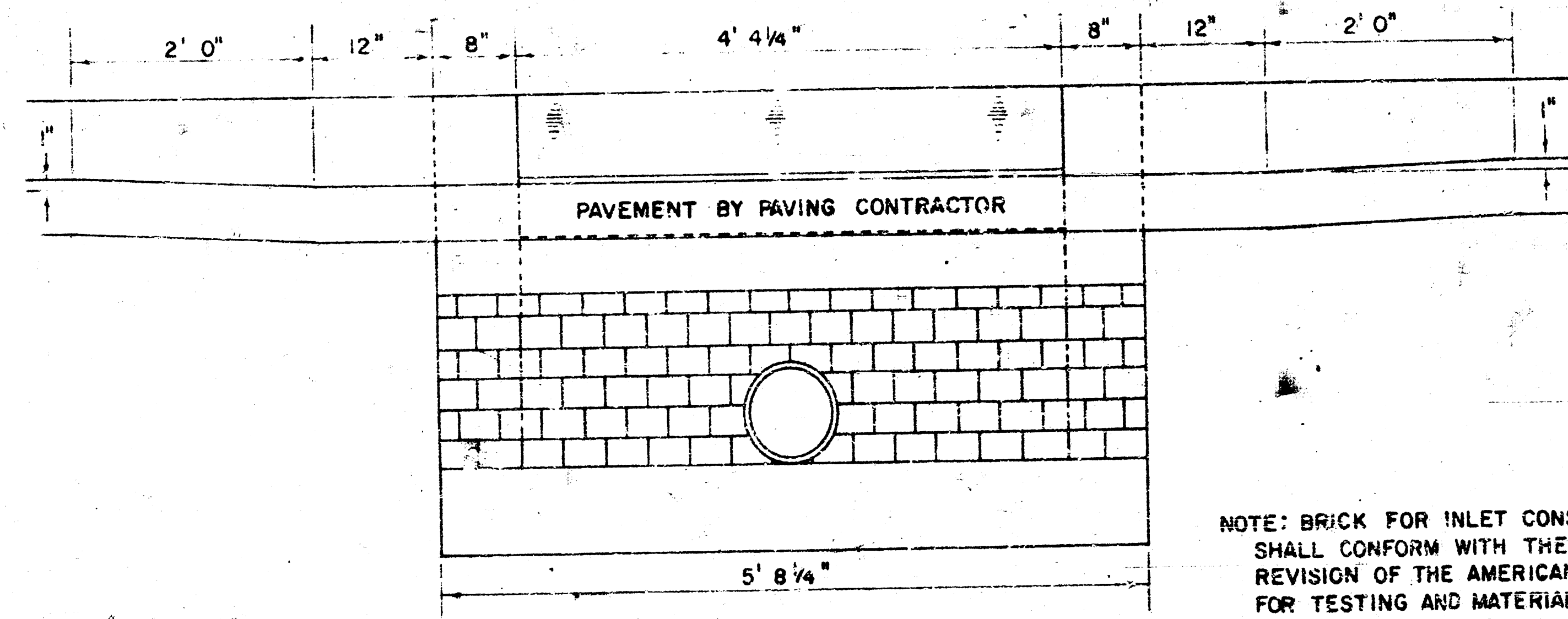
DETAIL STANDARD TYPE 1A CURB INLET

CITY OF WICHITA, KANSAS

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

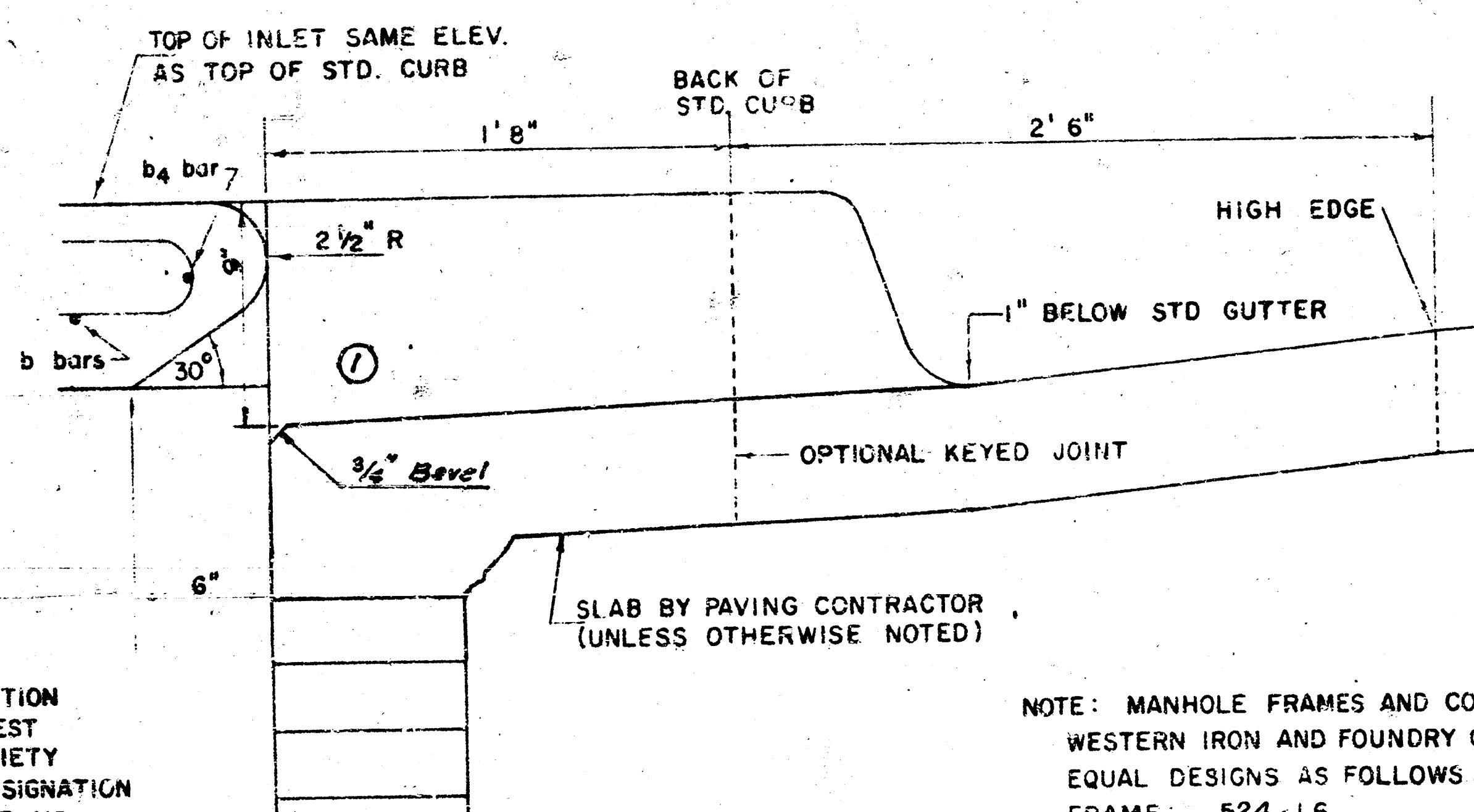
JUNE, 1981

472 76 245 81183 000 000 001



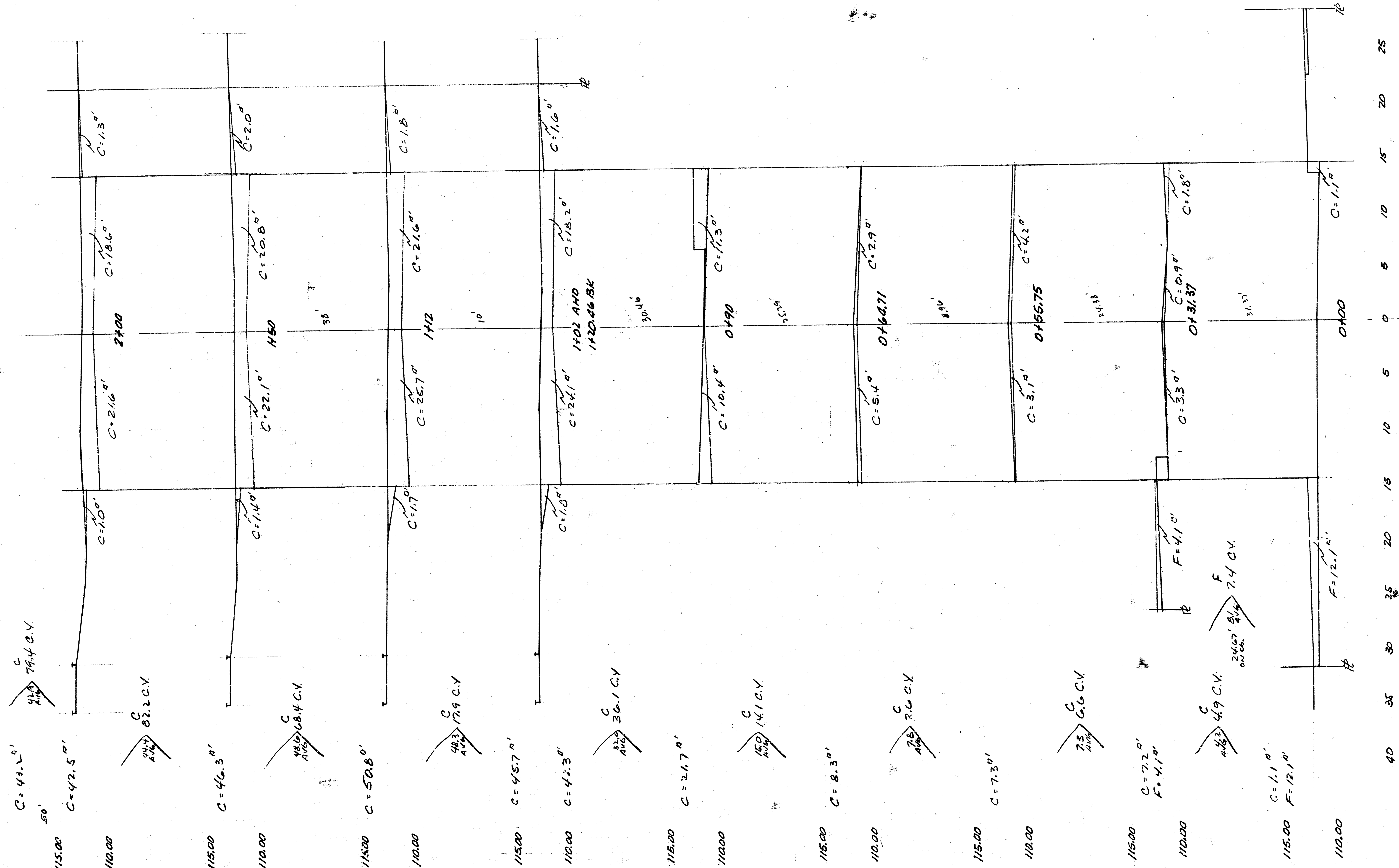
SECTION C-C (SCALE 1" = 1' 0")

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"



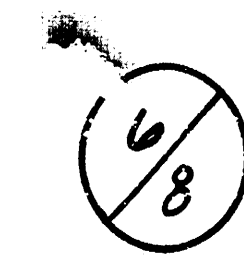
EARTHWORK - THIS SHEET

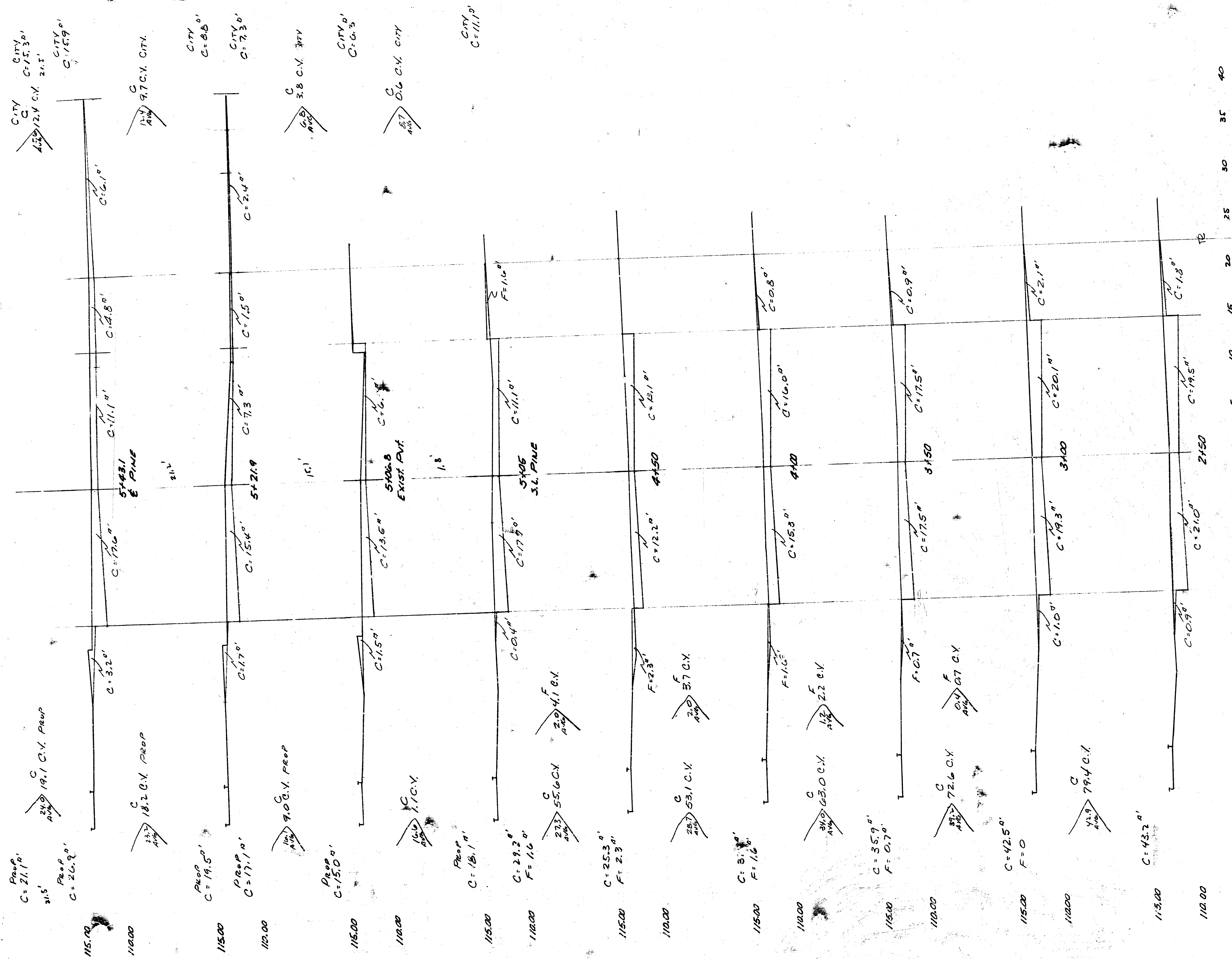
EXCAV	PROP	312.2 CY	FILL	PROP	7.4 CY
CITY	CITY	0	CITY	CITY	0

EARTHWORK TOTAL - ALL SHEETS

EXCAV	PROP	692.1 CY	FILL	PROP	88.0 CY
CITY	CITY	37.7 CY	CITY	CITY	0

WICHITA STREET
10' S. OF S.L. ELM ST. TO N.L. PINE ST.
PARK PLAZA 1st ADDn
472 76 245 81183 000 000 001

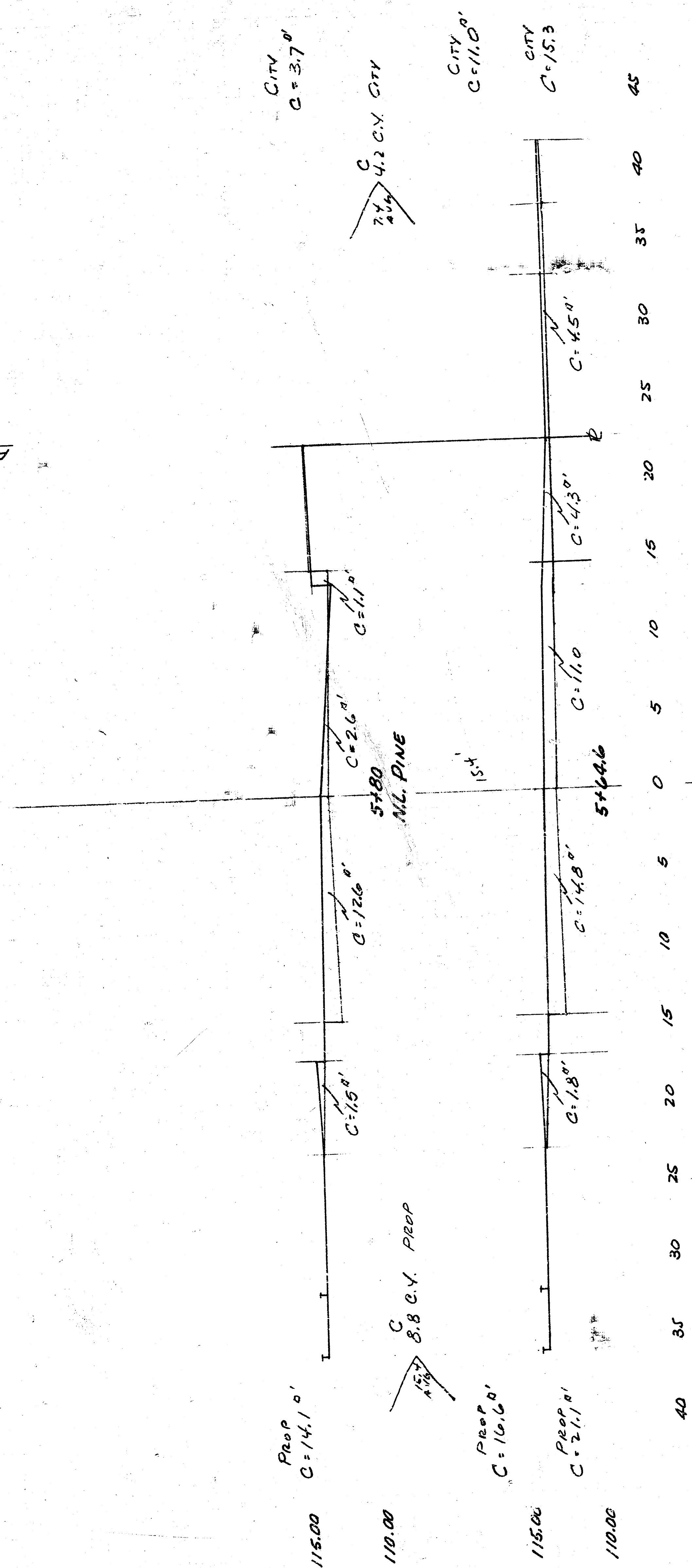




EARTHWORK - THIS SHEET

Excav.	Fill	Prop	City
371.1 CY	10.7 CY		
26.5 CY	0		

WICHITA STREET
10' S. OF S.L. ELM ST. TO N.L. PINE ST.
PARK PLAZA 1st ADDN
472 76 245 81183 000 000 001



EARTHWORK - THIS SHEET

<u>EXCAV.</u>	<u>PROP</u>	<u>FILE</u>
8.8 C.Y.	0	69.9 C.Y.
<u>CITY</u>	<u>CITY</u>	
11.2 C.Y.		

10 3 1 10

$$\frac{8}{8}$$
 $\frac{1}{10}$