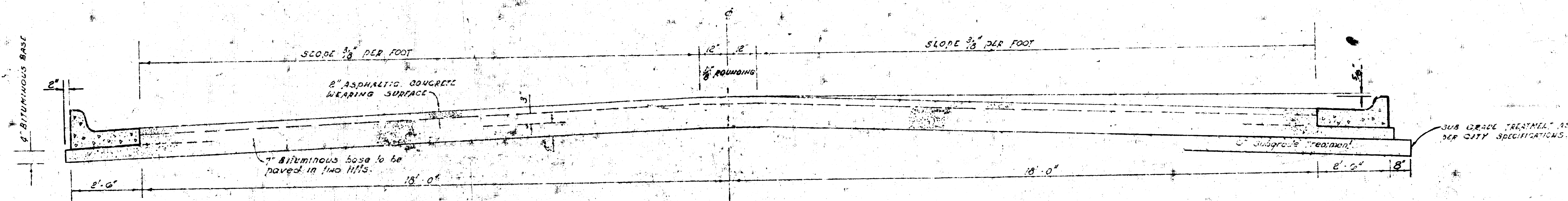


WATER STREET

From the S.L. of 48th STREET SOUTH to & including Cul-de-Sac
Project No. 472-76-245-80697-000-000-001



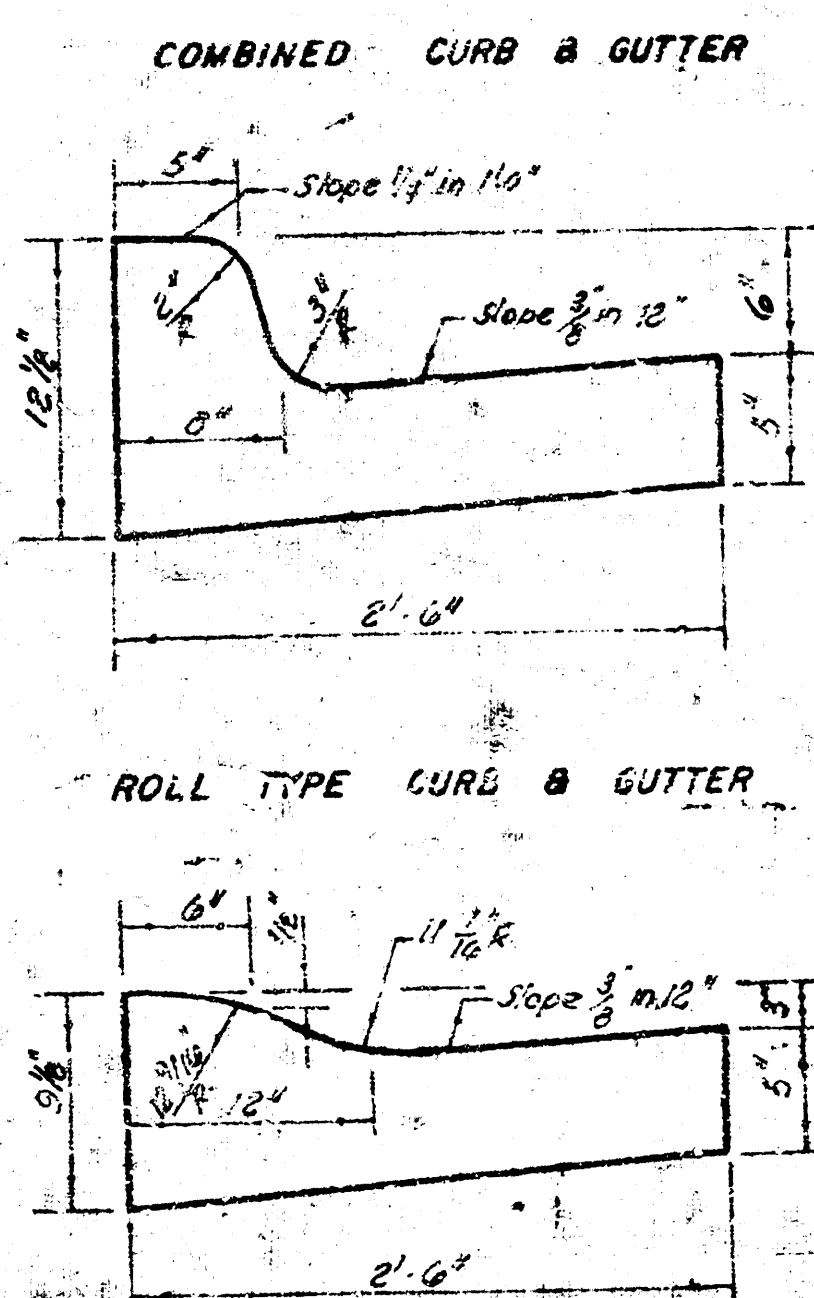
TYPICAL SECTION

41' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

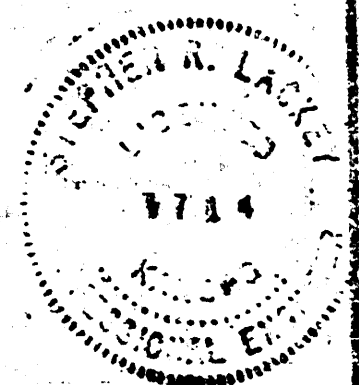
A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIAL. WHEN ORDERED BY THE ENGINEER, TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT. BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC ELECTRONIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.

DETAIL OF TRANSVERSE CONSTRUCTION JOINTS

TRANSVERSE CONSTRUCTION JOINT SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENT. 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 ASPHALTIC CONCRETE PAVEMENT.



The A.C. pavement between the curb & gutter shall be paid as 30 yds 9" A.C. pavement (1" bituminous base). The bituminous base under the curb & gutter shall be paid as 50 yds 4" bituminous base.



CITY OF WICHITA, KANSAS
DEPARTMENT OF ENGINEERING

R. W. BRUGGENAN

DIRECTOR OF ENGINEERING/CITY ENGINEER

DATE

1/5 1/8

B.M. = 86.84 City Std. 28' E. & 28.3 N. of Sec. Corner at 47th St. So. & Broadway
 B.M. = 86.65 40" Nail Step Bench S-face PP. ±54' E. of E.L. of Water St. on N-side of 47th St. So.
 @ Parallel to & 60' E. of W.L. of Water St.

NORTH
 SCALE 1" = 20'

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.

PI. NO. V.C.
 ELEV. 85.30

PI. NO. VC
 ELEV. 86.43

PI 100' VC
 ELEV. 88.48

PI NO VC
 ELEV. 86.43

PI 100' VC
 ELEV. 88.48

INLETS ON
 8' CENTERS

CAUTION
 UNDERGROUND
 UTILITIES
 Please check with R.O. & E.
 for location

NO MORE THAN 8-30' DRIVES OR EQUIVALENT
 TO BE CONSTRUCTED ON THIS PROJECT

NOTE: ENGINEER TO RE-CROSS SECTION PRIOR TO CONST.

EARTHWORK
 Property

Excavation	1,373	C.Y.	Compacted Fill	552	C.Y. + 10% = 607 C.Y.
+ 10%	147	C.Y.	Manipulation	4875	S.Y.
	5192	C.Y.			
	2414	C.Y. TO 48th ST. CONST.			
	2778	C.Y. END AMOUNT			
	1,801.0				

WATER STREET

SL. 48th St. So. to and including Cul-de-Sac
 (4' BB. A.C. Pavt. w/Comb. Cb. & Gtr.)

CITY OF WICHITA, KS.

R.W. Linn City Engineer
 Proj. No. 472-76-245-80697-000-000-001

Date 3/8
 Revised 4-3-82

Survey D.L.K.
 Plan A.A.H.
 Exc.
 Checked

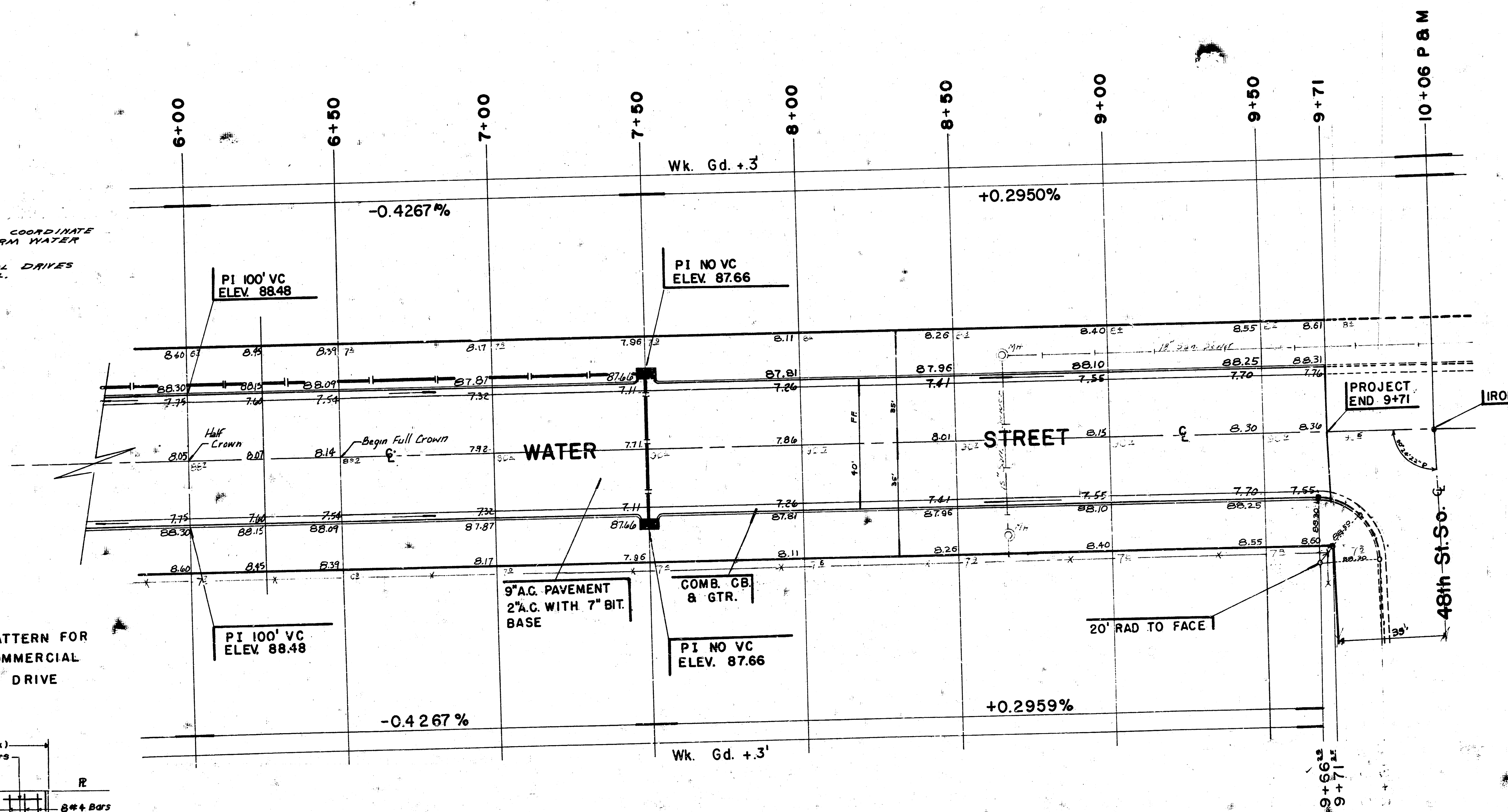
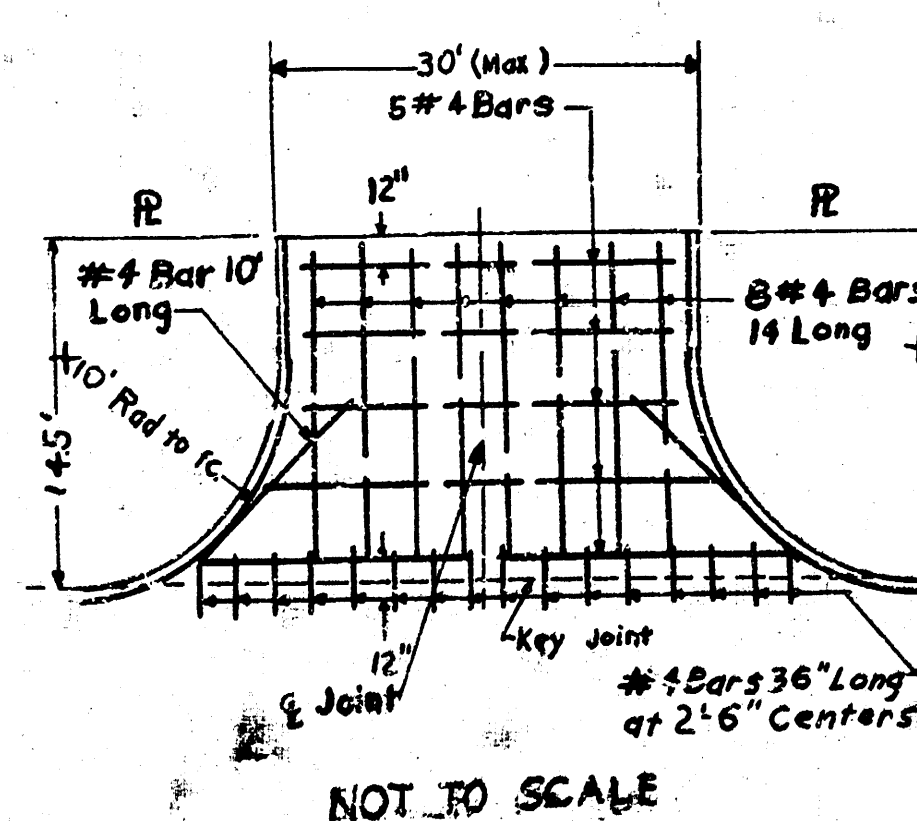
Survey DLK
Plan N.A.H.
Exc
Checked

GENERAL NOTES:

PAVING CONTRACTOR TO COORDINATE
CONSTRUCTION WITH STORM WATER
SEWER CONDUCTOR.

FILL UNDER INDUSTRIAL DRIVES
SHALL BE COMPACTED FILL.

REIN. STEEL PATTERN FOR
10' RADIUS COMMERCIAL
OR INDUSTRIAL DRIVE

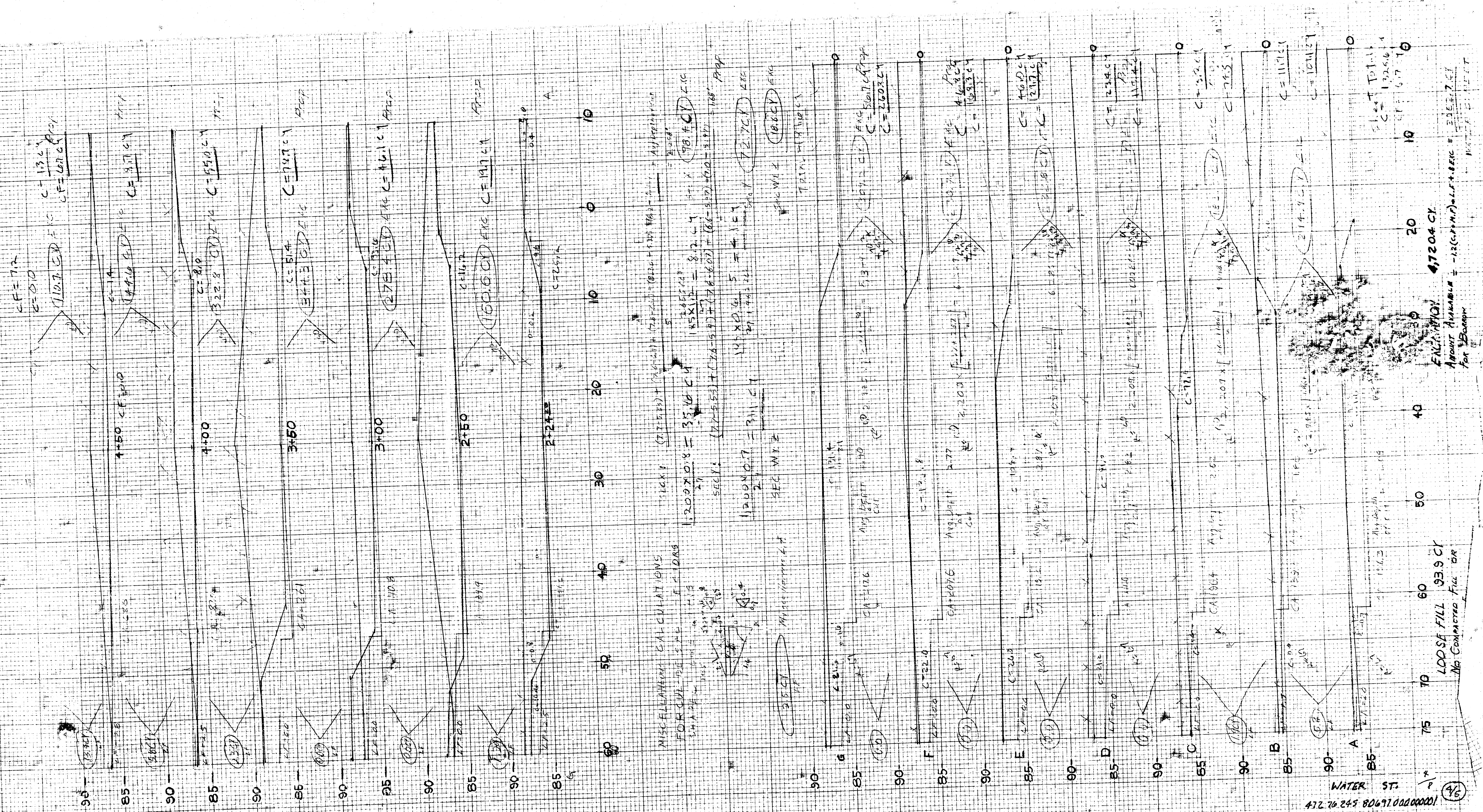


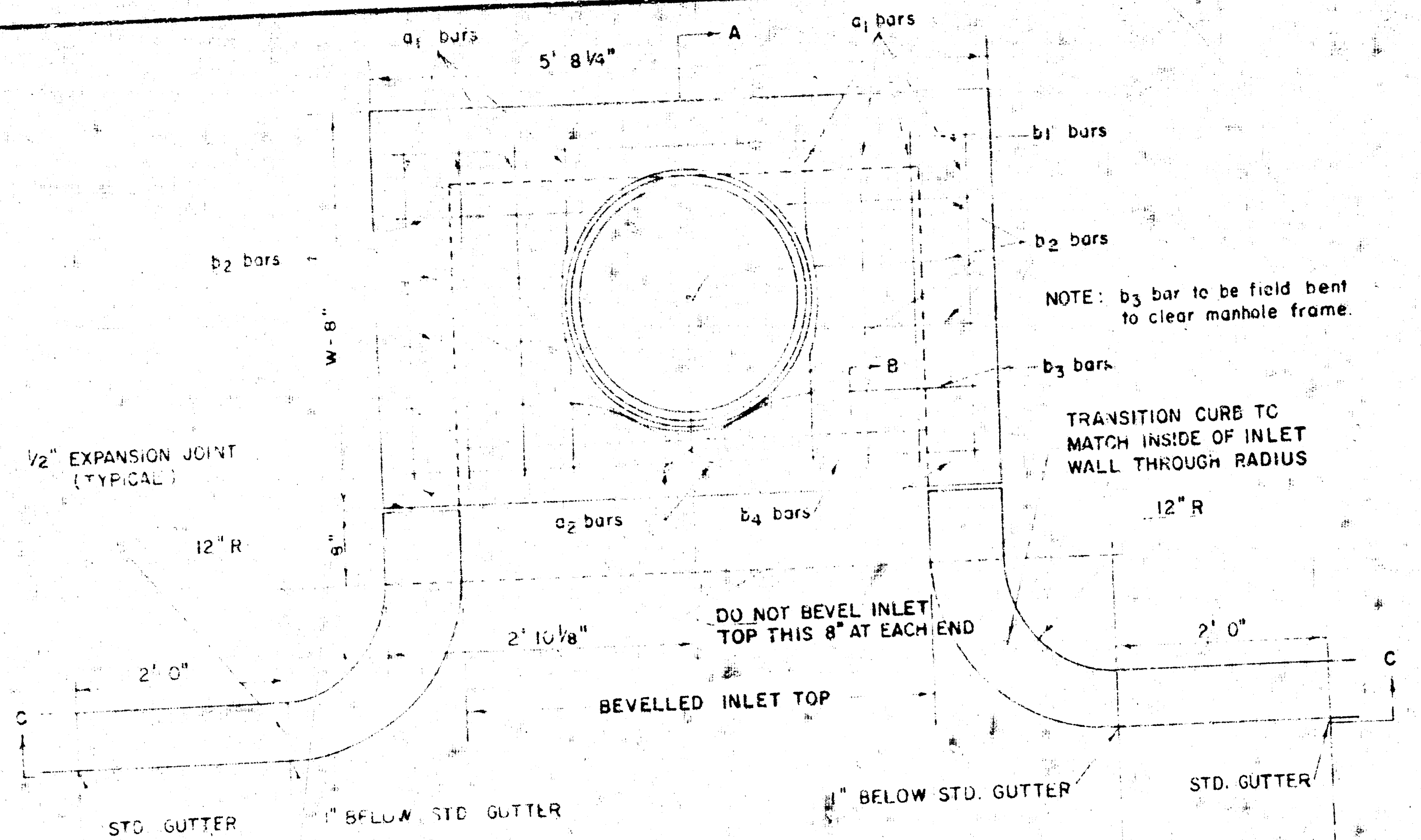
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY INSIDE. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ANY AND ALL ITEMS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATION. SUCH ITEMS SHALL BE REPLY BLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

SCALE 1" = 20'

WATER STREET
472 76 245 80697 000 000 001

 $\left(\frac{3}{5}\right)_3$





HIGH EDGE
ASPHALT PAVING ONLY

PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE*

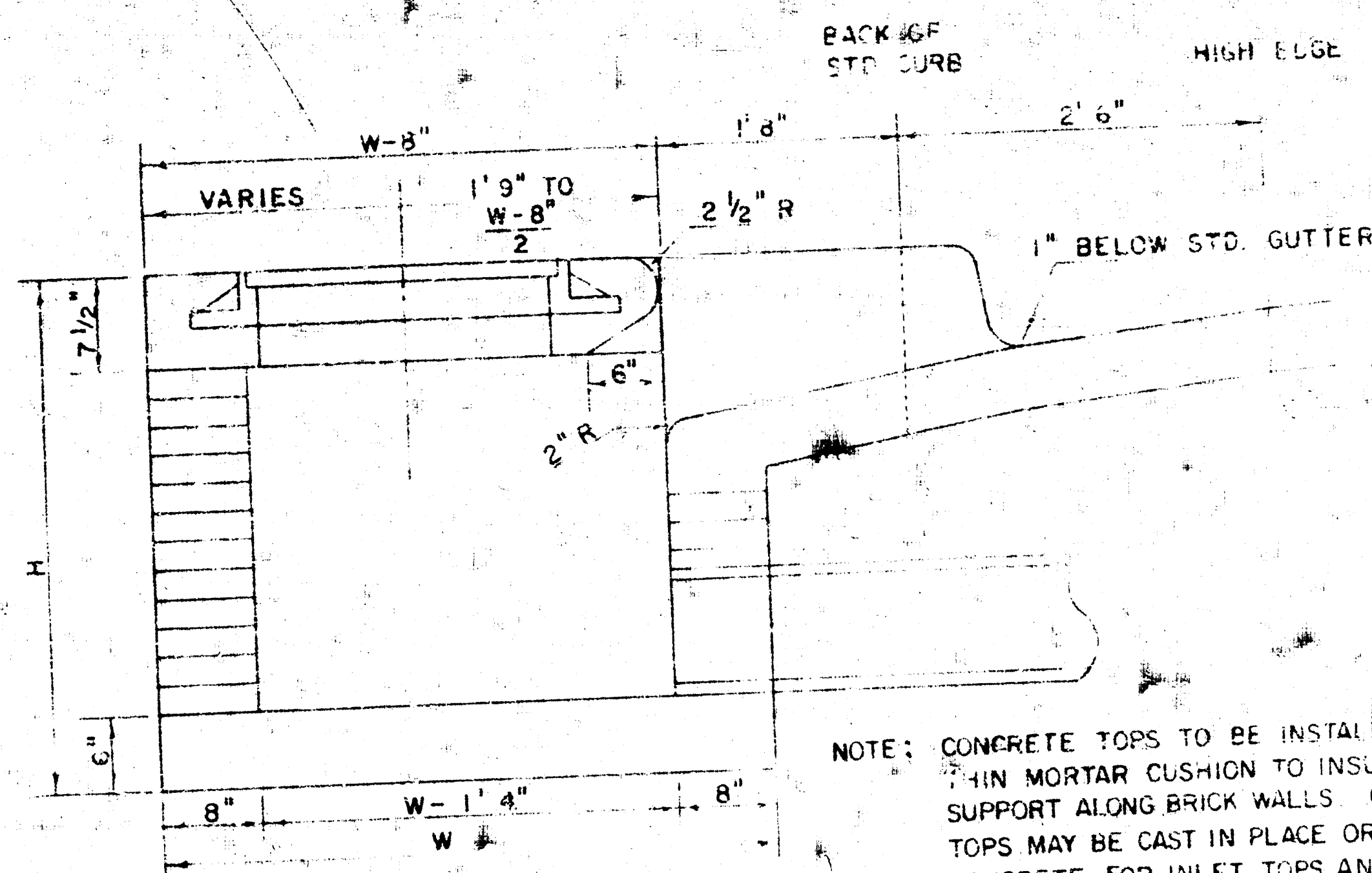
BAR	a1	a2	b1	b2	b3	b4	WT. LBS.
NUMBER	8	2	1	3	5	7	9
SIZE	#4	#4	#4	#4	#4	#4	#6
W=4'2"	6'5"	5'4"	5'5"	-	-	-	-
W=5'0"	8'1"	4'4"	-	5'5"	-	-	-
W=6'0"	10'1"	5'4"	-	5'5"	-	-	-
W=7'0"	11'1"	6'4"	-	5'5"	-	-	-
W=8'0"	12'1"	7'4"	-	5'5"	-	-	-

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

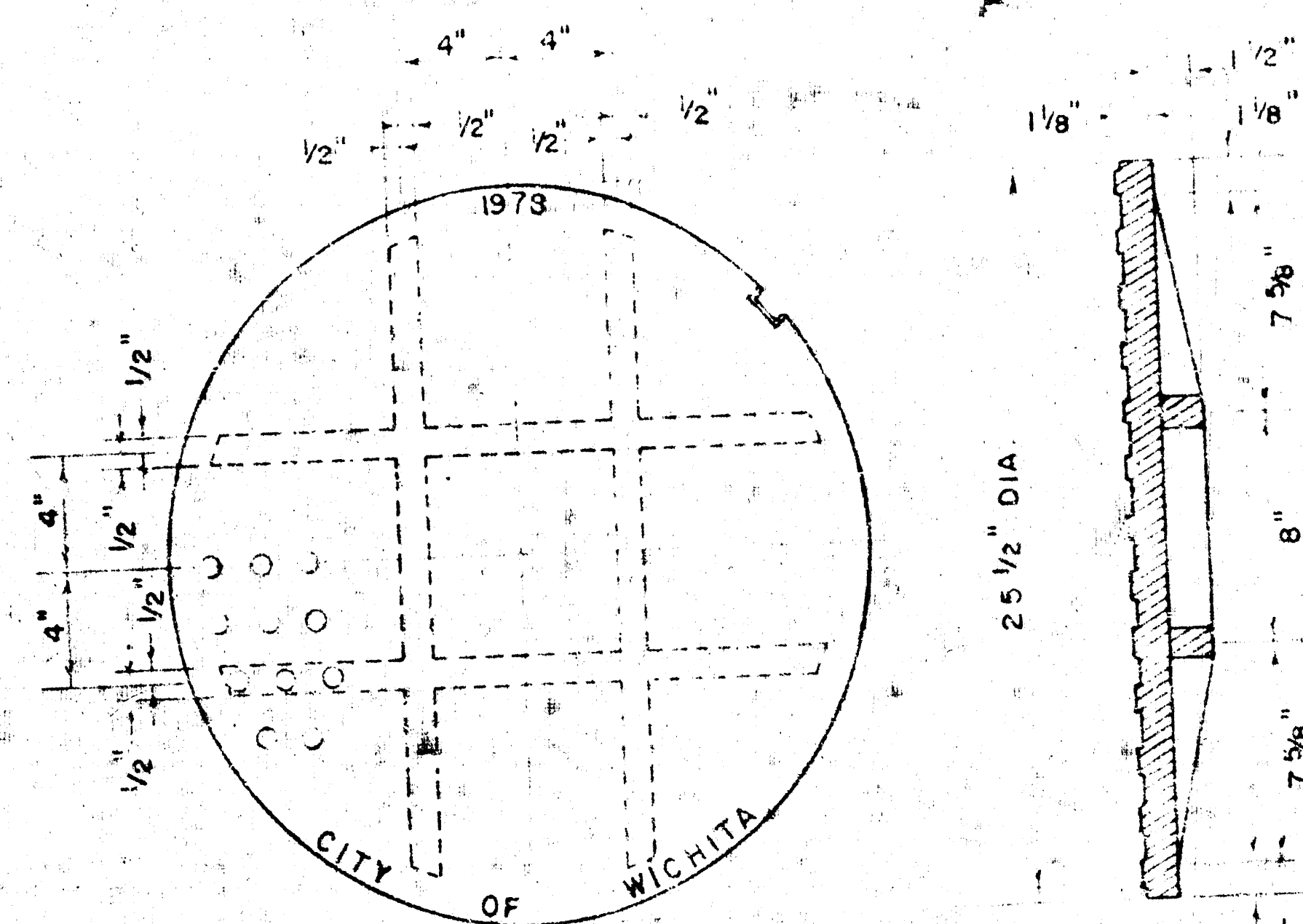
BENDING DIAGRAM

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" B SMALLER	0.46 *
5' 0"	44" x 5' 8 1/4" x 7 1/2"	24" B 30"	0.57 *
6' 0"	54" x 5' 8 1/4" x 7 1/2"	36" B 42"	0.71 *
7' 0"	64" x 5' 8 1/4" x 7 1/2"	48" B 54"	0.84 *
8' 0"	74" x 5' 8 1/4" x 7 1/2"	60" B 66"	0.97 *

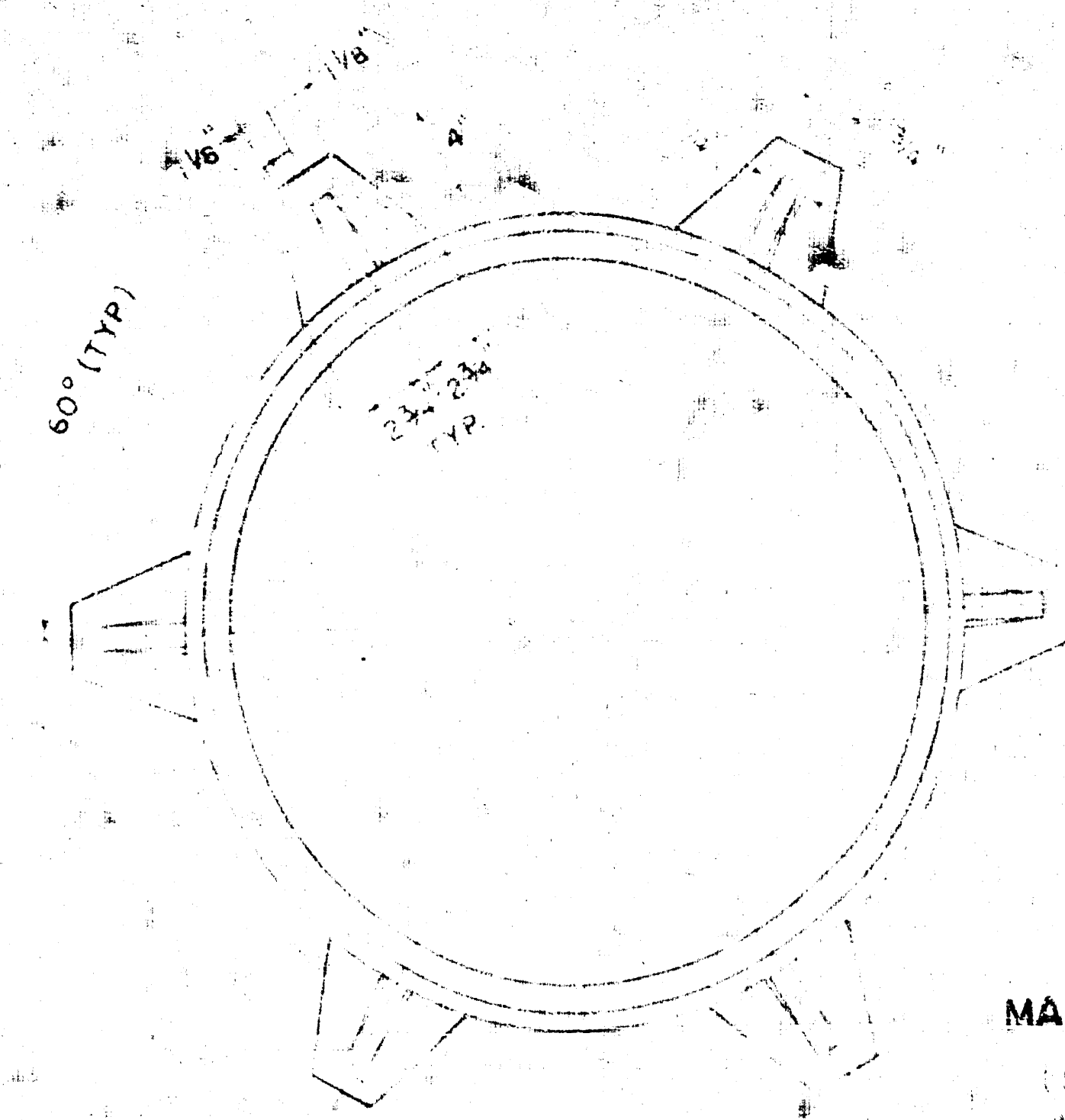
* GROSS VOLUME



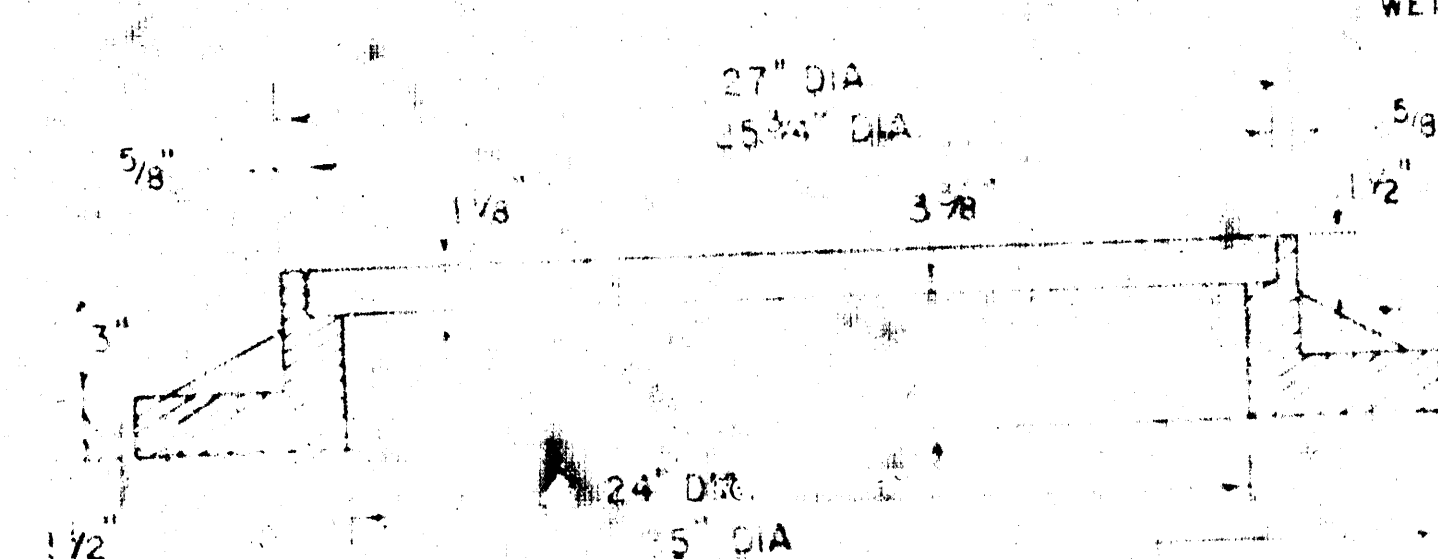
SECTION A-A
(SCALE 1" = 1' 0")



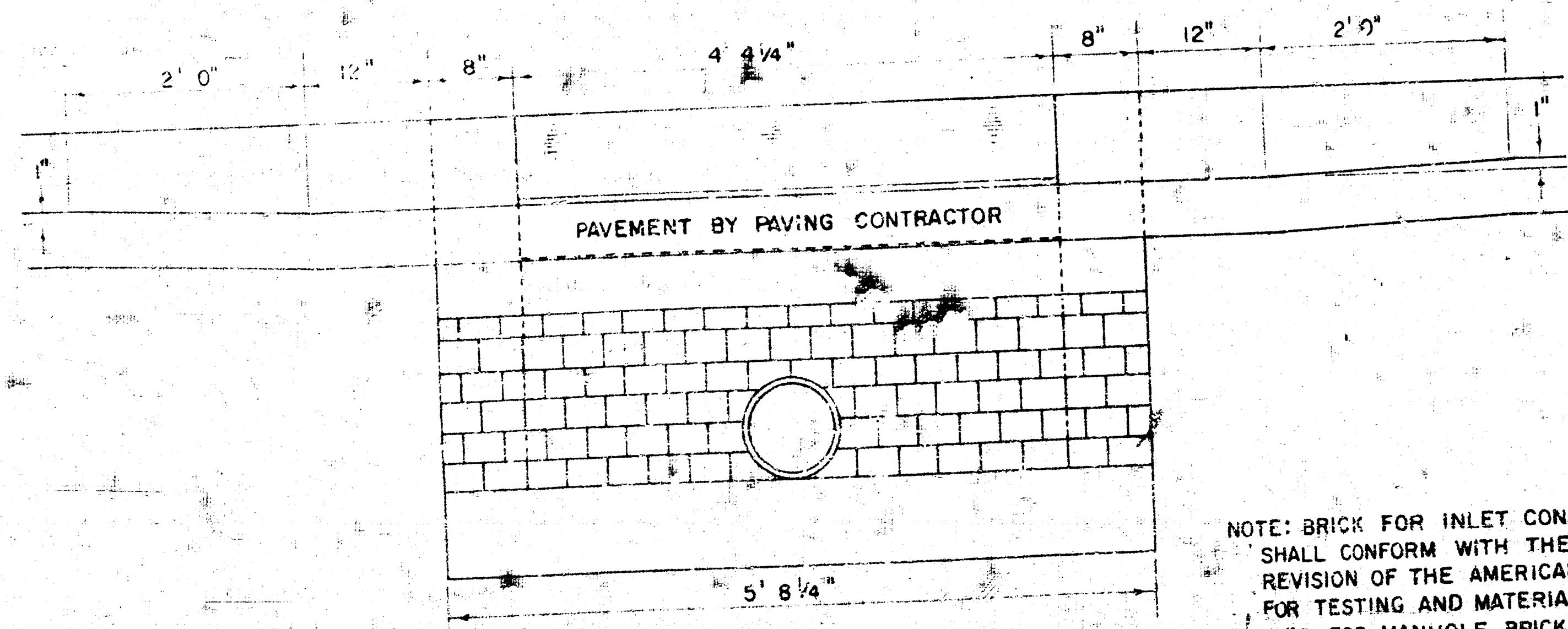
MANHOLE COVER
(SCALE 1" = 6")
WEIGHT = 170 LBS



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

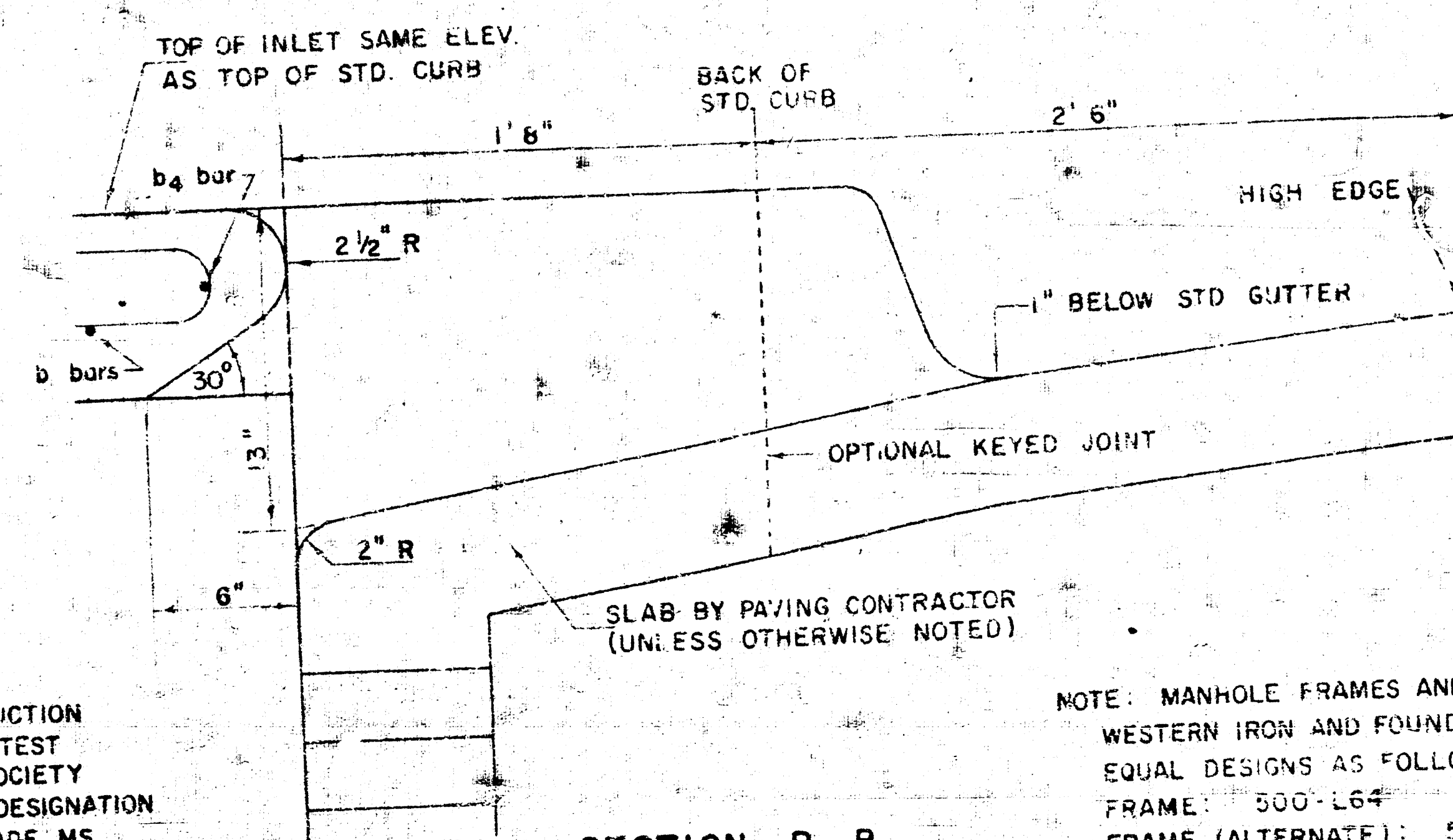


MANHOLE FRAME
(ALTERNATE)
(SCALE 1" = 6")
WEIGHT = 180 LBS.



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: 500-L64
FRAME (ALTERNATE): 500 A4
COVER: 222 S4 "NOBBY"

DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
R. W. BRUGGEMAN
DIRECTOR OF ENGINEERING/CITY ENGINEER
OCTOBER 1975

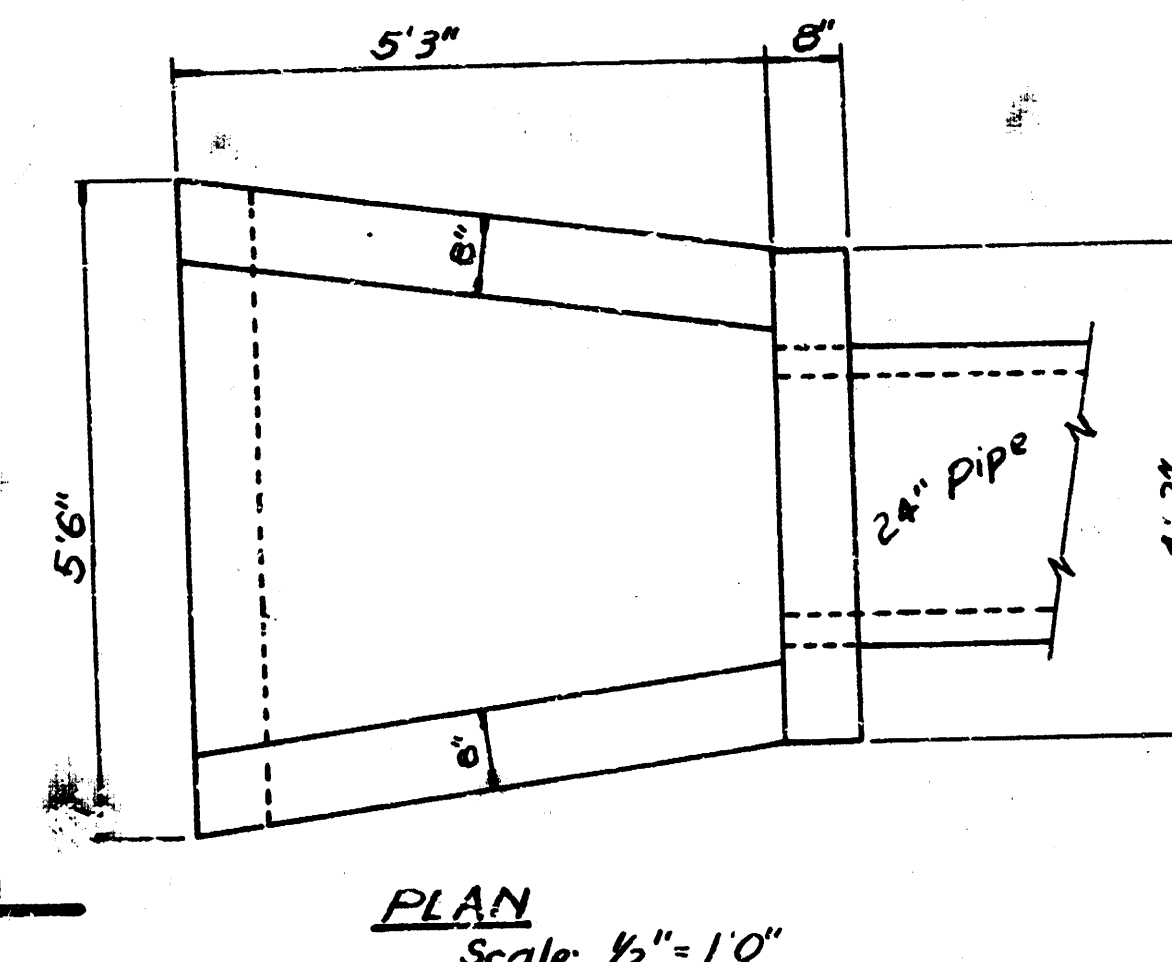
6/8 (13)

B.M. = 86.84 CITY STD. 28' E. & 28.3' N. OF SEC. CORNER AT 47TH ST. SO. & BROADWAY
 B.M. = 86.65 40" NAIL STEP BENCH S-FACE PP ± 54' E. OF EL. OF WATER ST ON N-SIDE OF 47TH ST. SO.

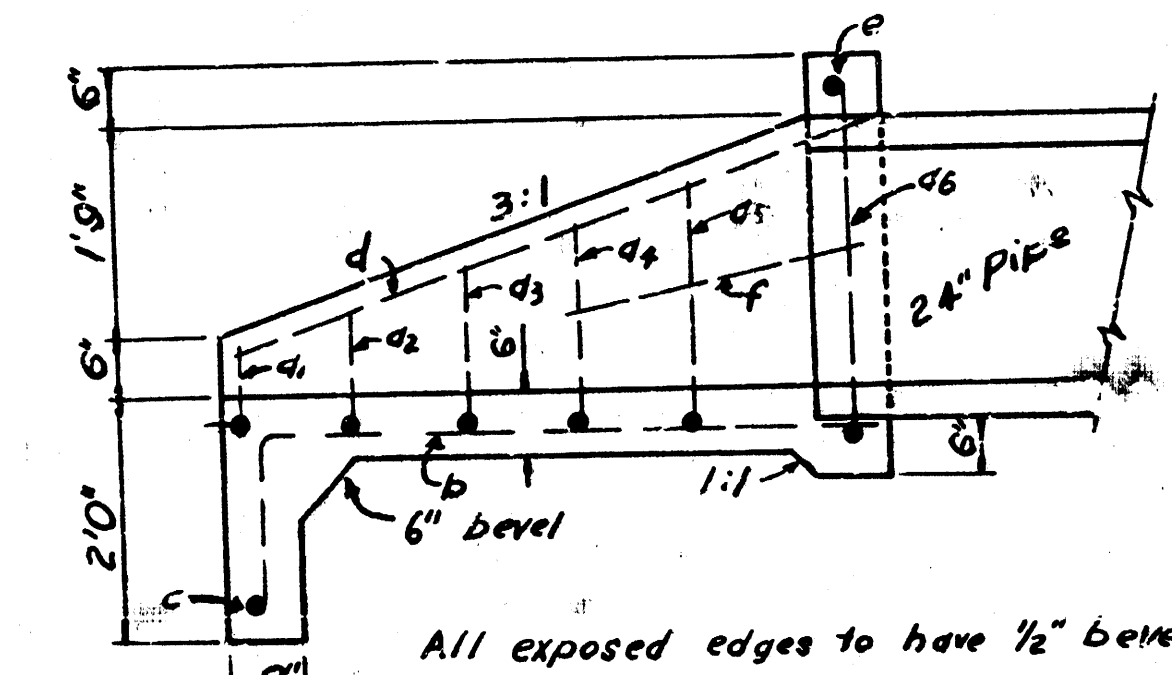
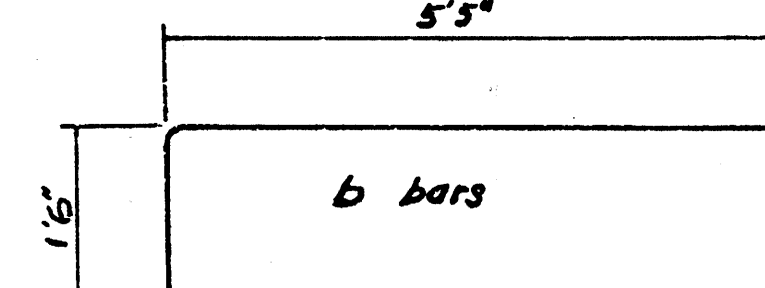
TWO 4' LENGTHS OF 15" RCP (ALT.
 15" CWR) USFL 8152 DSFL 81.42

SCALE 1" = 20'

HEADWALL DETAIL



a bars	8"	10"	12"	14"	16"	18"	20"
d ₁	4'8"						
d ₂	4'6"						
d ₃	4'3"						
d ₄	4'0"						
d ₅	3'9"						
d ₆	3'5"						



BAR	NUMBER	LENGTH	SHAPE	WEIGHT
d ₁	1	6'1"		4.06
d ₂	1	6'4"		4.23
d ₃	1	6'9"		4.51
d ₄	1	7'2"		4.79
d ₅	1	7'7"		5.07
d ₆	1	8'5"		6.29
b	6	6'11"		27.72
c	1	5'0"		3.37
d	2	5'10"		7.79
e	1	3'10"		2.55
f	2	2'9"		3.67
Total Rebar, lbs				144.03
Concrete, CY				1.40

All Rebar to be #4

GENERAL NOTES

- ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED ALL METAL PIPES SHALL BE HELICALLY CORRUGATED METAL PIPES FOR SIZES 21" IN DIAMETER OR SMALLER, AND FULLY PAVED CORRUGATED METAL PIPE FOR SIZES 24" IN DIAMETER OR LARGER.
- THE RIP-RAP ON THIS PROJECT SHALL BE TYPE 3 AS PER SPECIFICATION EXCEPT THAT 6" SAND AND GRAVEL BEDDING SHALL BE OMITTED.
- HEADWALLS AT PIPE OUTFALL SHALL BE CONSTRUCTED TO ALIGN WITH THE SLOPE OF BANK IN ORDER THAT WALL PROTRUSION IS MINIMUM. WHERE SUCH PROTRUSION CANNOT BE AVOIDED, FILL AROUND THE WALLS AT APPROXIMATELY 5:1 SIDE SLOPES SO HEADWALL APPEARS ENTIRELY RECESSED.
- CENTERLINE OF HEADWALL SHALL BE ON THE CENTERLINE OF THE CHANNEL FLOWING SOUTH EXTENDED.
- ALL CURB INLETS TO BE TYPE "I-A".
- CONTRACTOR TO COORDINATE WORK WITH PAVING CONTRACTORS.

Drainage in Connection with
 Paving WATER STREET
 From the SL. of 48th STREET SO.
 to & including Cul-de-Sac
 City of Wichita
 R.W. Linn City Engineer
 Proj. No. 472-76-245-80697-000-000-002
 Date 7/8

