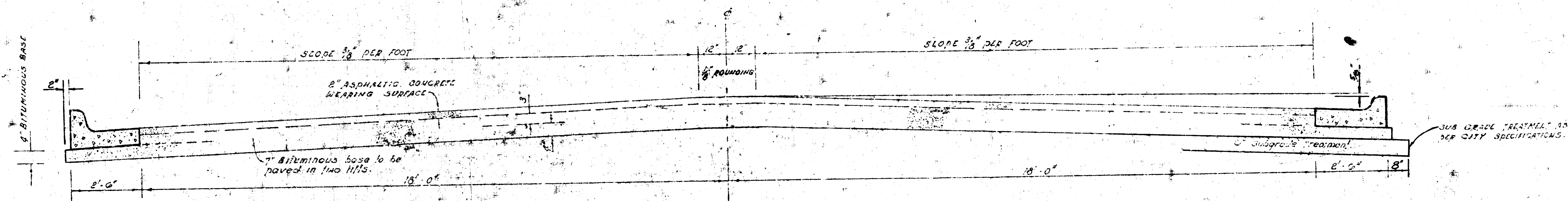


WATER STREET

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



TYPICAL SECTION

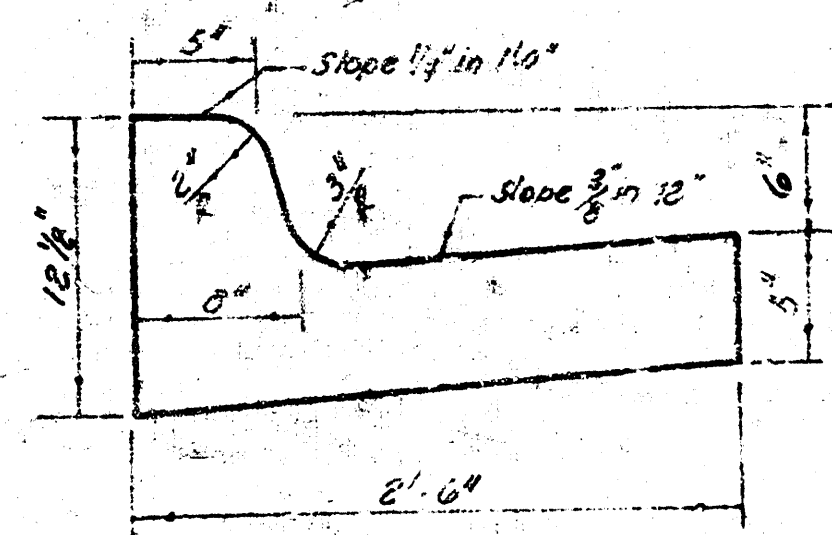
41' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

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.

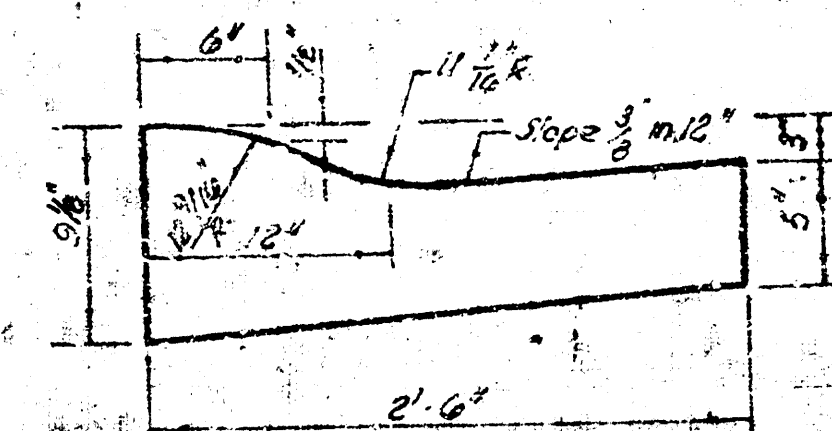
DETAIL OF TRANSVERSE CONSTRUCTION JOINTS

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.

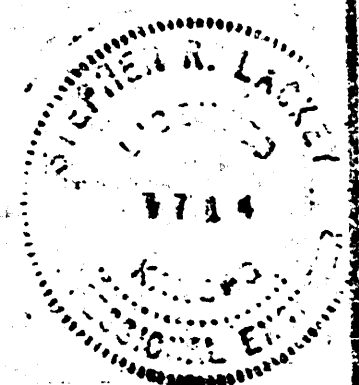
COMBINED CURB & GUTTER



ROLL TYPE CURB & GUTTER



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

WATER

STREET

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 1,637.3 C.Y.
 + 10% 1,801.0 C.Y.
 1,801.0 C.Y.

Compacted Fill 552 C.Y. + 10% = 607.7 C.Y.
 Manipulation 487.5 S.Y.

WATER STREET

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

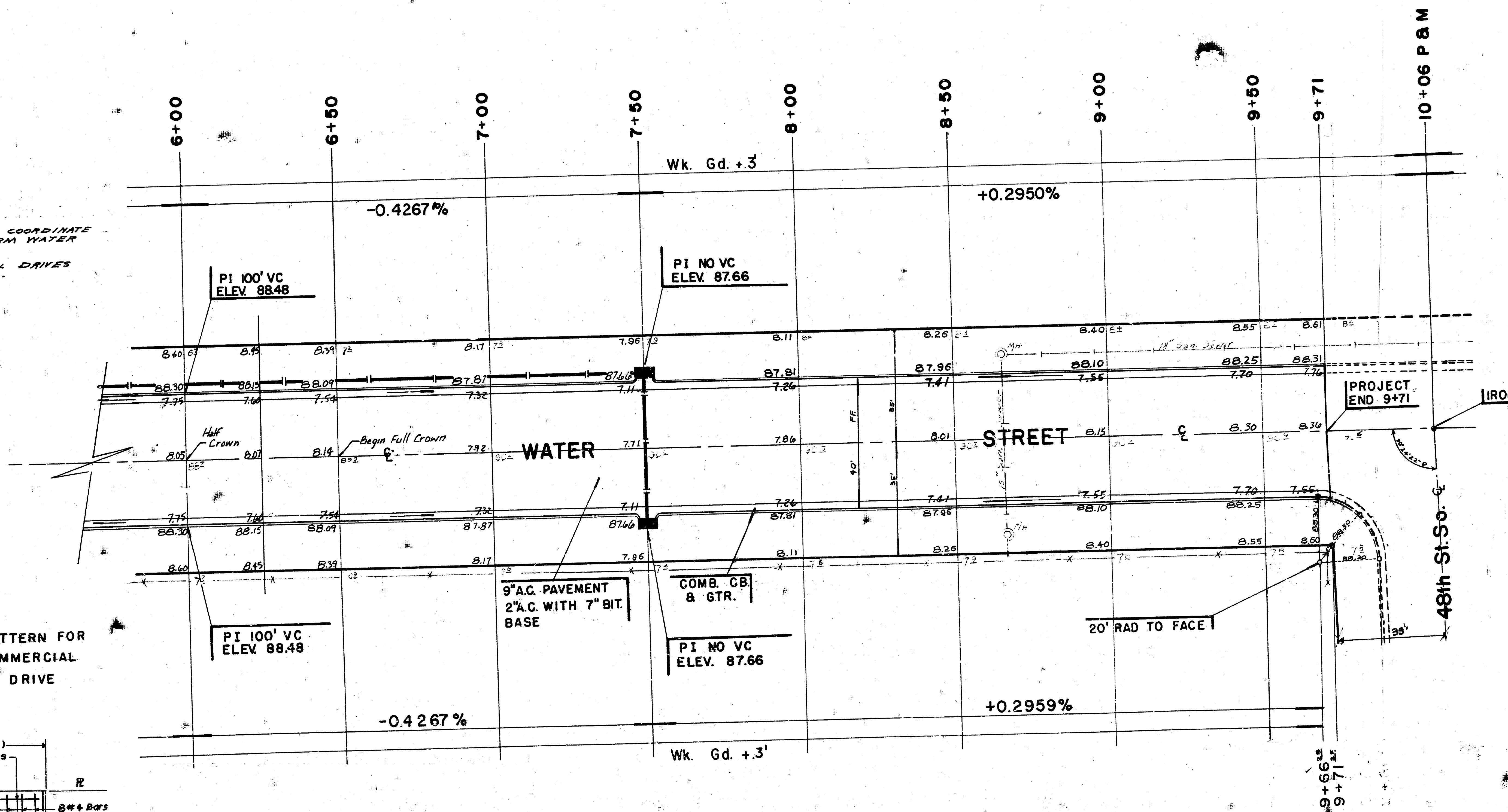
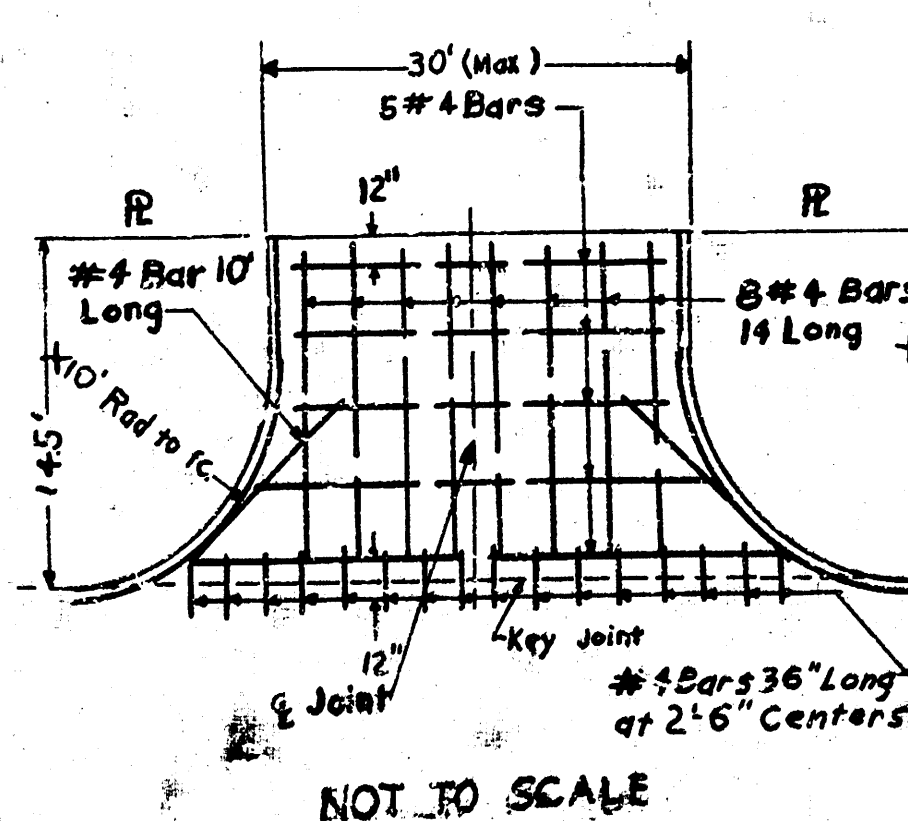
CITY OF WICHITA, KS.
 R.W. Linn City Engineer
 Proj. No. 472-76-245-80697-000-000-001
 Date 3/8
 Revised 4-3-82

Survey DLS
Plan A.A.H.
Exc
Observed

GENERAL NOTES:

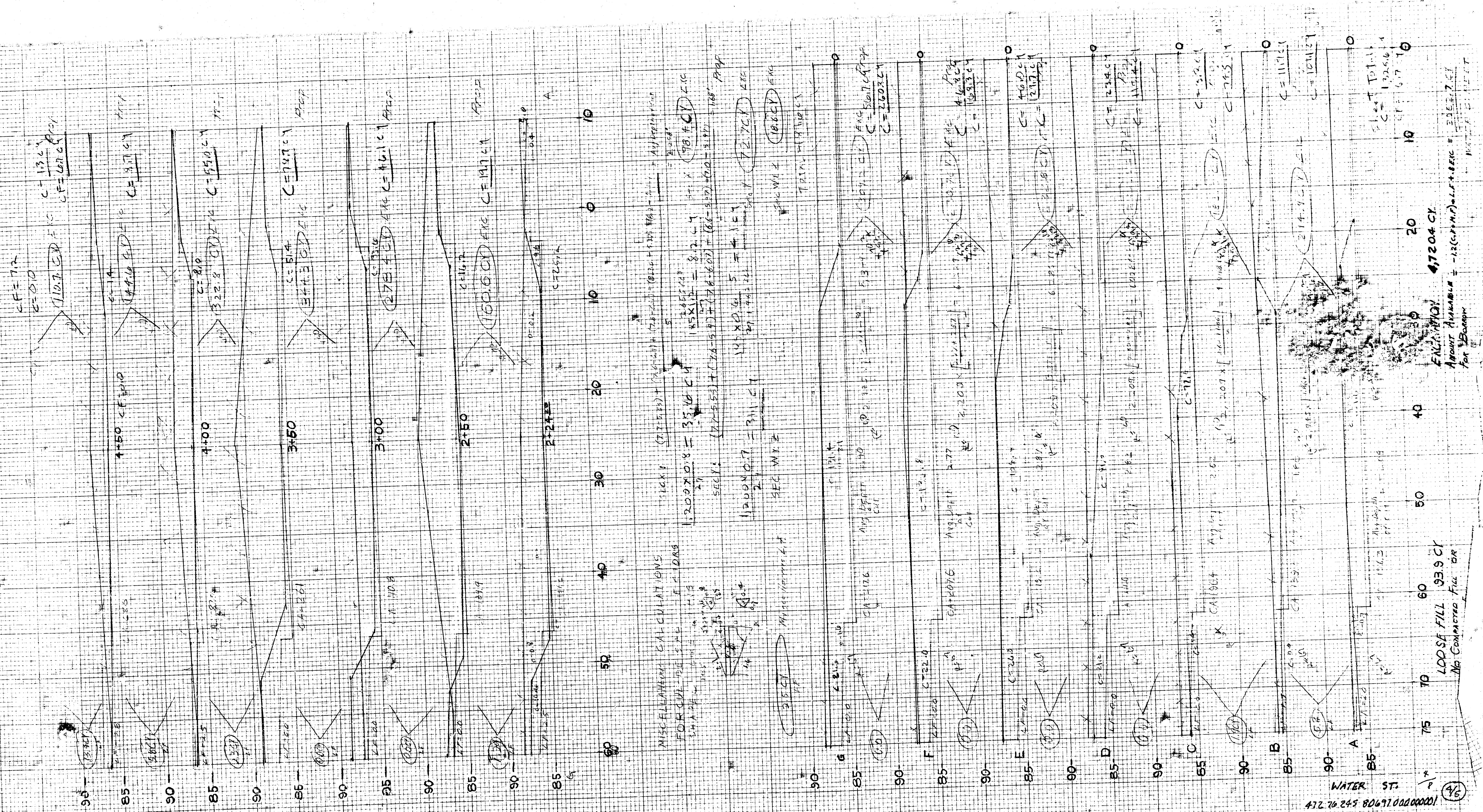
PAVING CONTRACTOR TO COORDINATE
CONSTRUCTION WITH STORM WATER
SEWER CONDUCTOR
FILL UNDER INDUSTRIAL DRIVES
SHALL BE COMPACTED FILL.

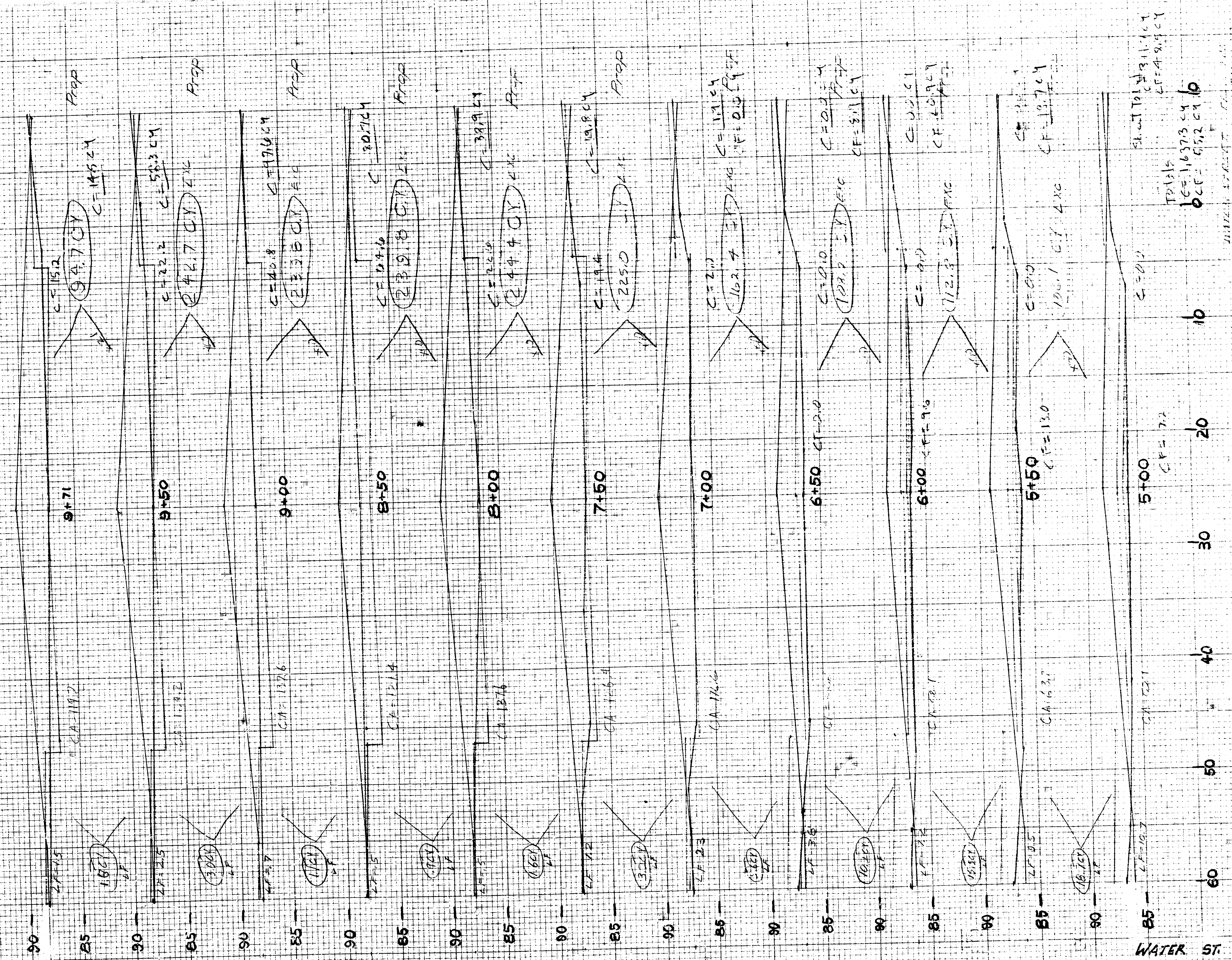
REIN. STEEL PATTERN FOR
10' RADIUS COMMERCIAL
OR INDUSTRIAL DRIVE



NORTH
SCALE 1" = 20'

CONTRACTOR SHALL BE RESPONSIBLE
FOR PREPARING PROPERTY MAPS. THE
CONTRACTOR SHALL BE REQUIRED TO RE-
VIEW ANY E.O. CITY MAPS WHICH
ARE DATED OR DATED BY HIS OWN
STREETING DEPARTMENT. CONTRACTORS SHALL
BE RESPONSIBLE FOR A LICENSED LAND
SURVEYOR OR A LICENSED PROFESSIONAL
ENGINEER IN ACCORDANCE WITH STATE LAWS.





WATER ST.
 472 76 245 80697 000000
 001

STATION 9+71
 C=152
 C=145.24
 C=122.2
 C=104.6
 C=82.0
 C=59.4
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 9+50
 C=145.24
 C=122.2
 C=104.6
 C=82.0
 C=59.4
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 9+00
 C=122.2
 C=104.6
 C=82.0
 C=59.4
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 8+50
 C=104.6
 C=82.0
 C=59.4
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 8+00
 C=82.0
 C=59.4
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 7+50
 C=59.4
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

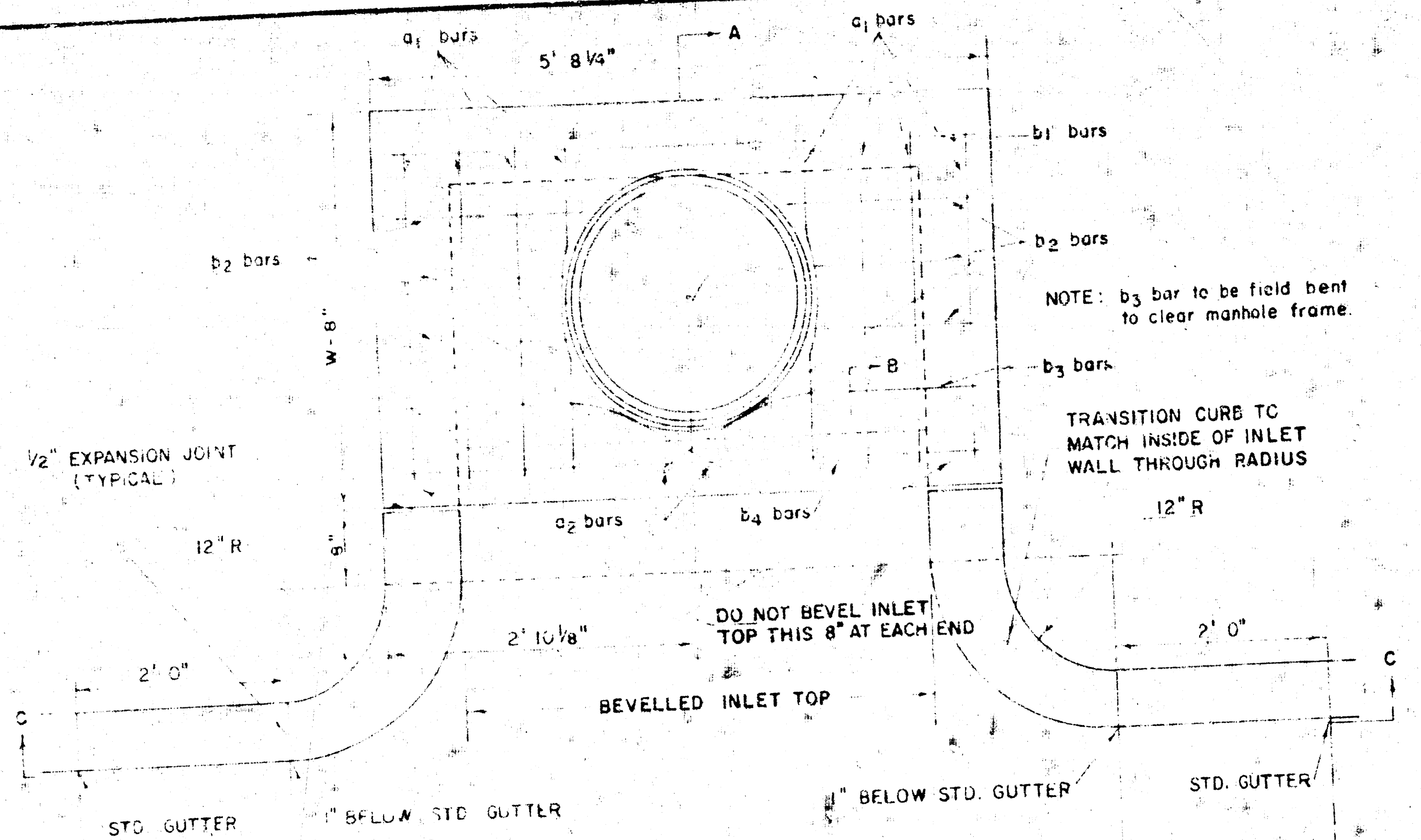
STATION 7+00
 C=36.0
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 6+50
 C=12.0
 C=0.0
 C=0.0
 C=0.0

STATION 6+00
 C=0.0
 C=0.0
 C=0.0

STATION 5+50
 C=0.0
 C=0.0

STATION 5+00
 C=0.0



PLAN (SCALE 1" = 1' 0")

STEEL SCHEDULE*

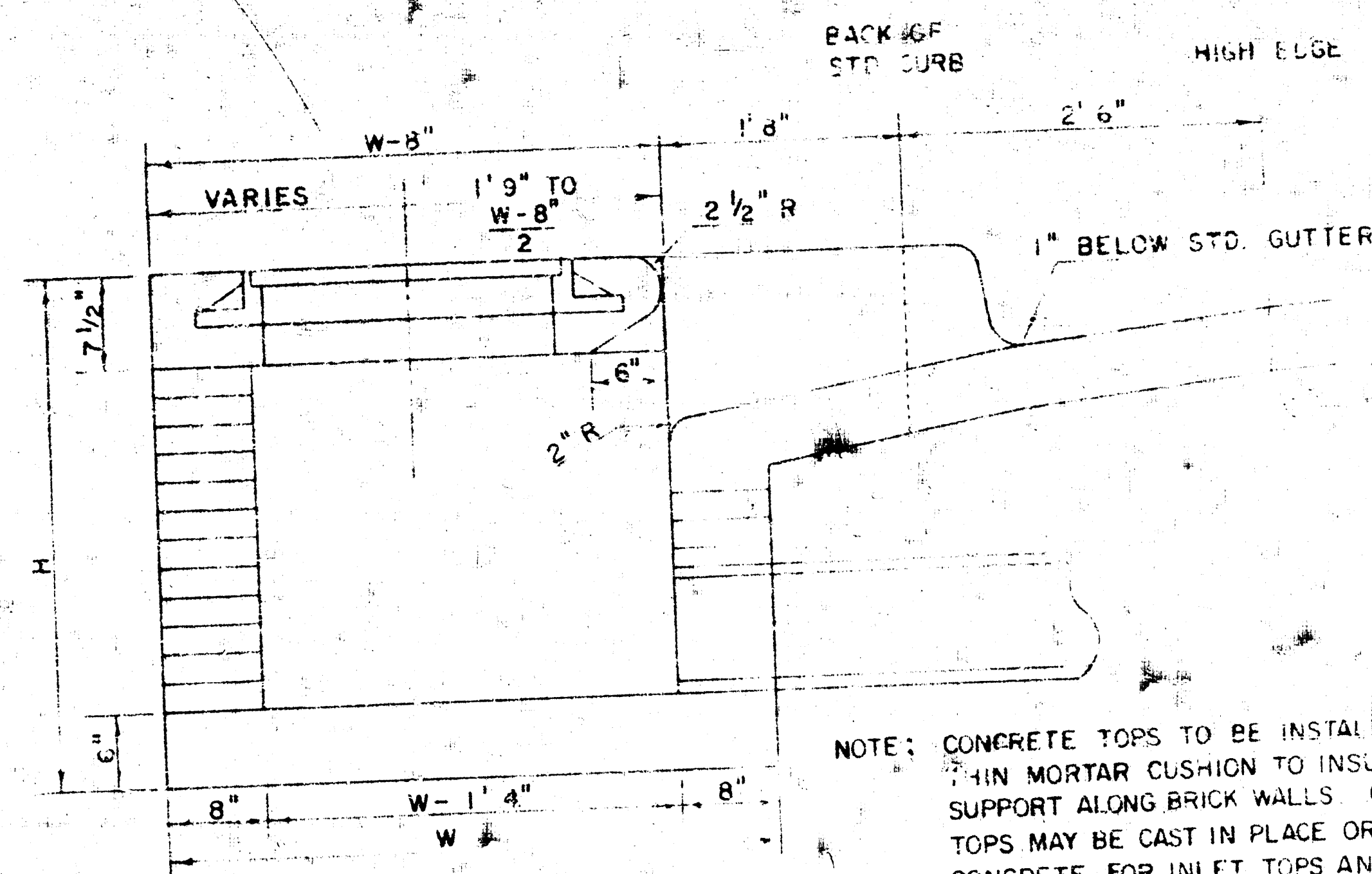
BAR	a1	a2	b1	b2	b3	b4	b5	WT. LBS.
NUMBER	8	2	1	3	5	7	9	
SIZE	#4	#4	#4	#4	#4	#4	#4	#6
W=4'2"	6'5"	5'4"	5'5"	-	-	-	-	1'5" 5'6" 5'5" 60"
W=5'0"	8'1"	4'4"	-	5'5"	-	-	-	1'5" 5'6" 5'5" 77"
W=6'0"	10'1"	5'4"	-	5'5"	-	-	-	1'5" 5'6" 5'5" 97"
W=7'0"	11'1"	6'4"	-	5'5"	-	-	-	1'5" 5'6" 5'5" 111"
W=8'0"	12'1"	7'4"	-	5'5"	-	-	-	1'5" 5'6" 5'5" 124"

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

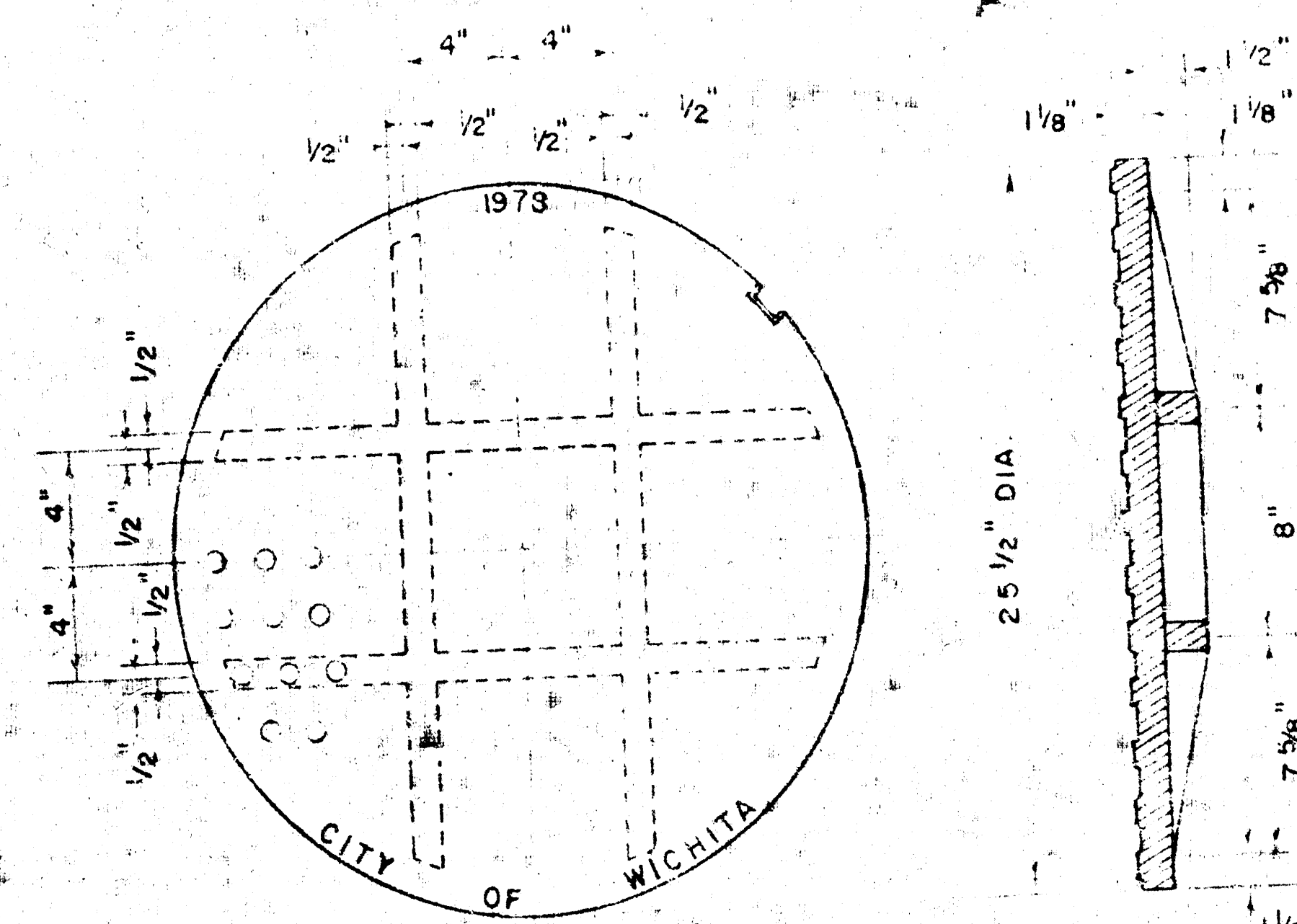
BENDING DIAGRAM

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

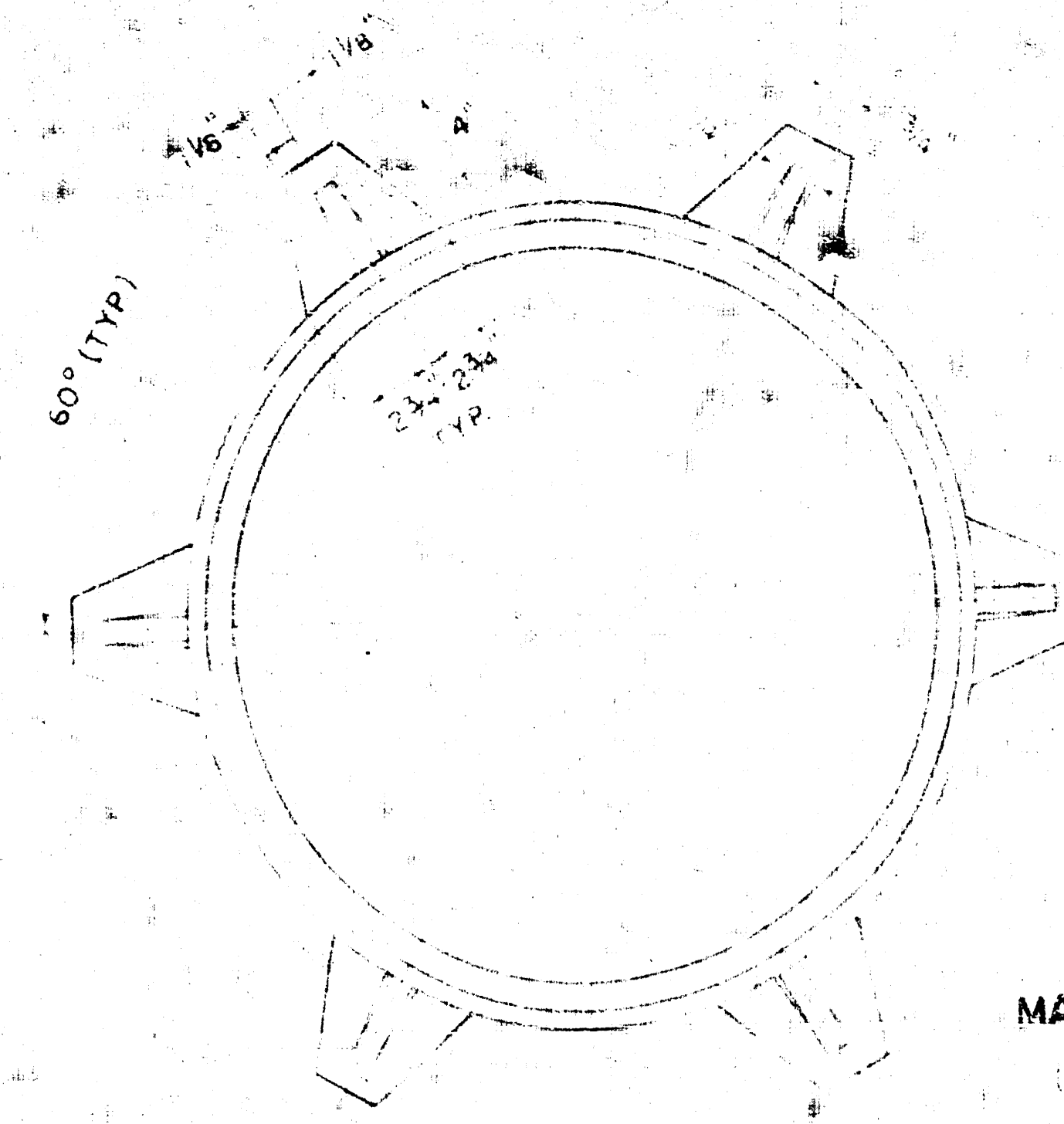


SECTION A-A (SCALE 1" = 1' 0")



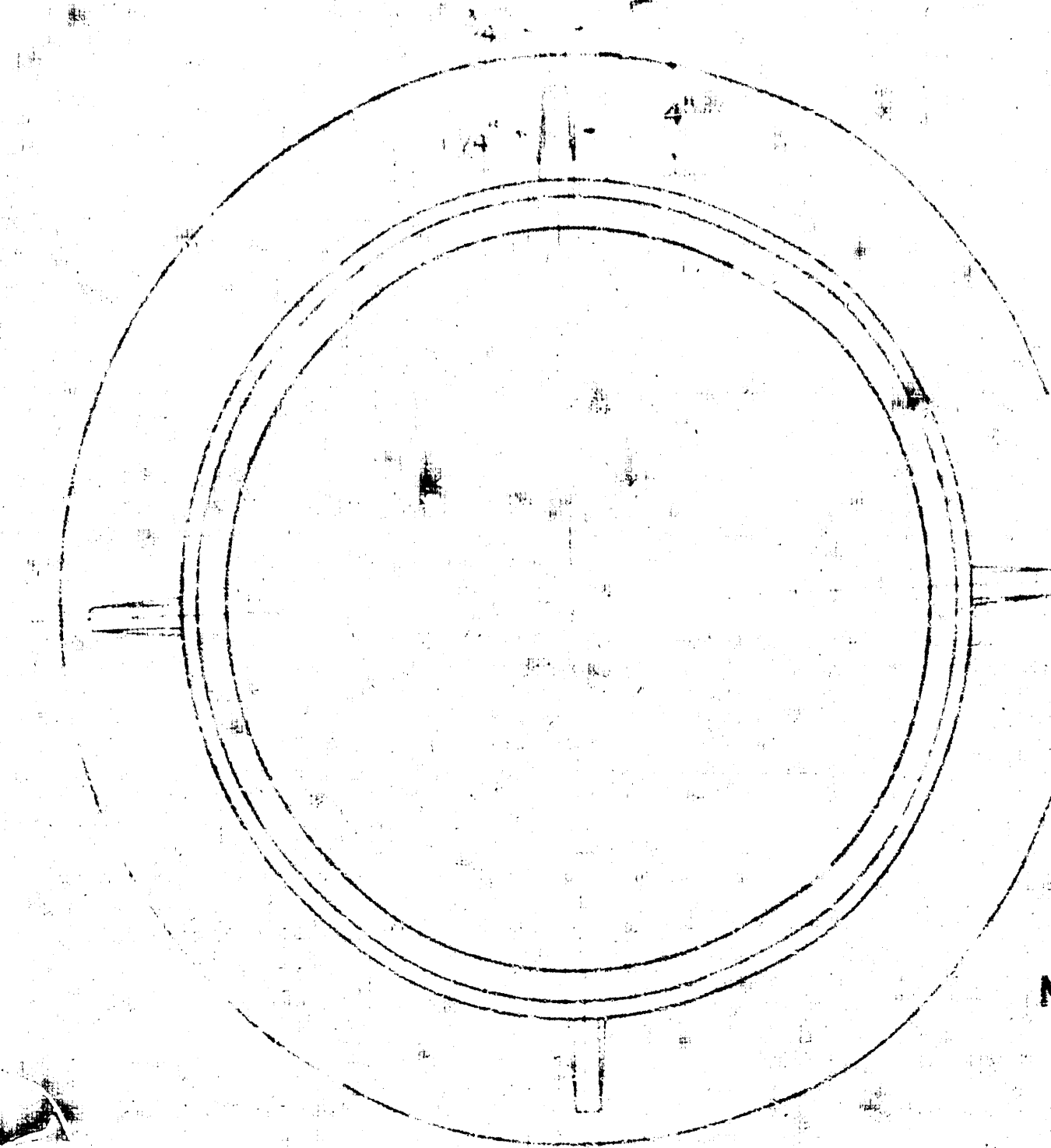
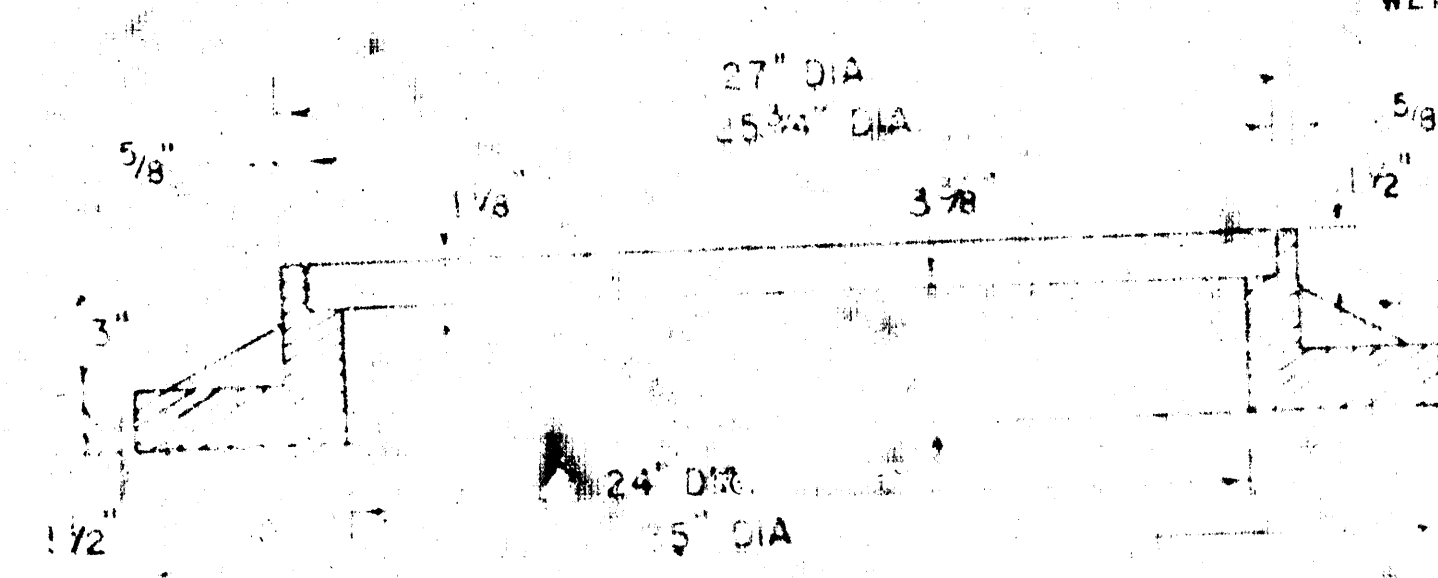
MANHOLE COVER

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



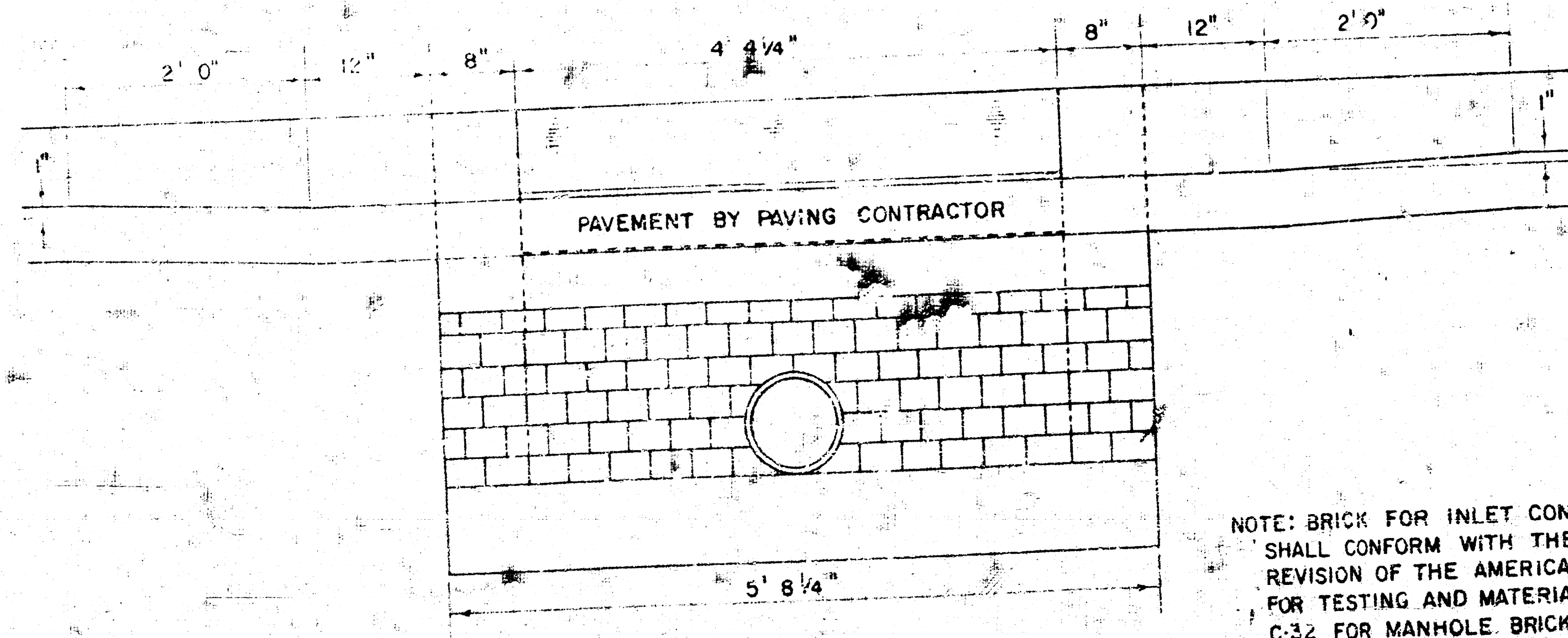
MANHOLE FRAME

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

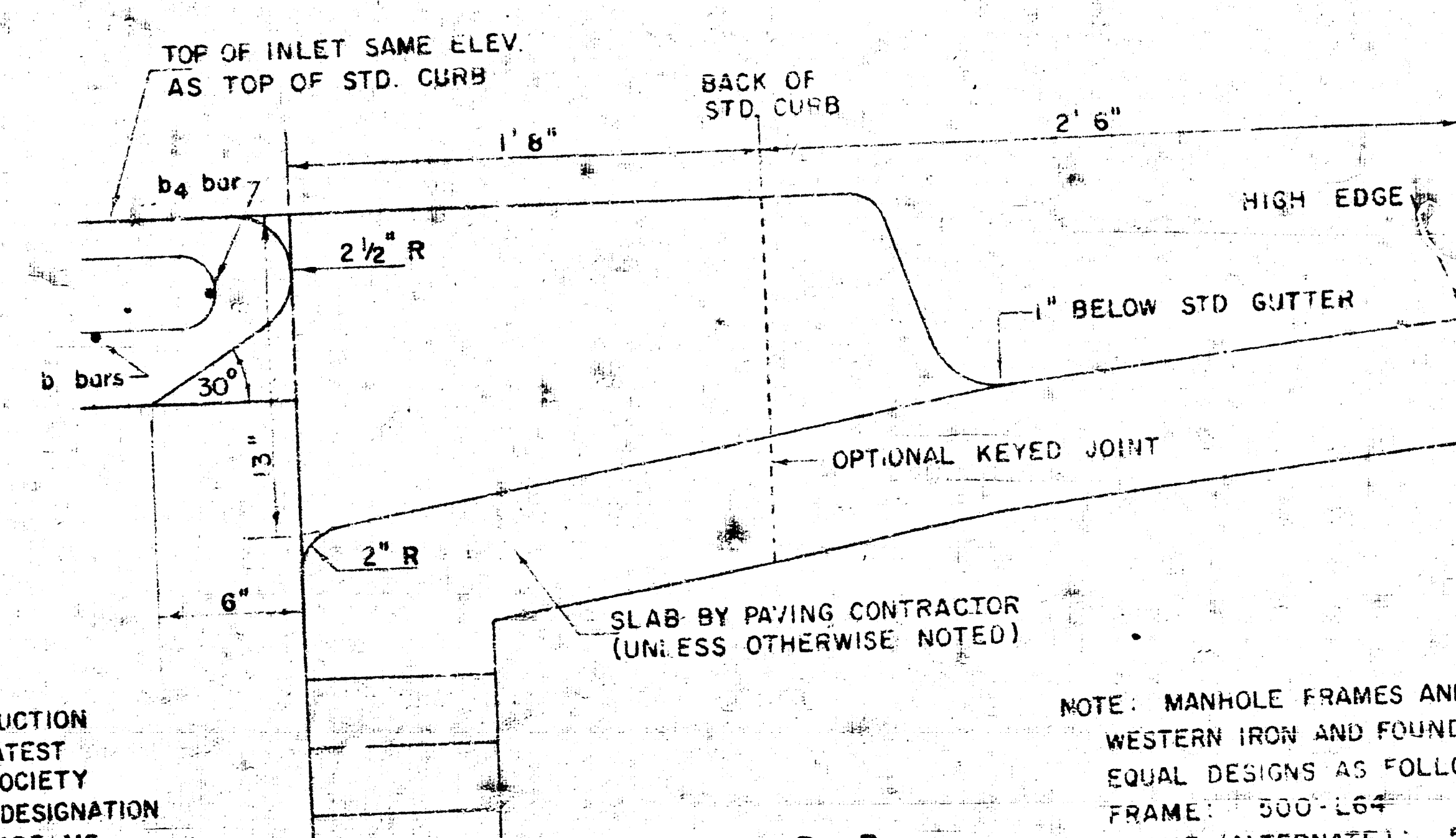


MANHOLE FRAME (ALTERNATE)

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



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



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

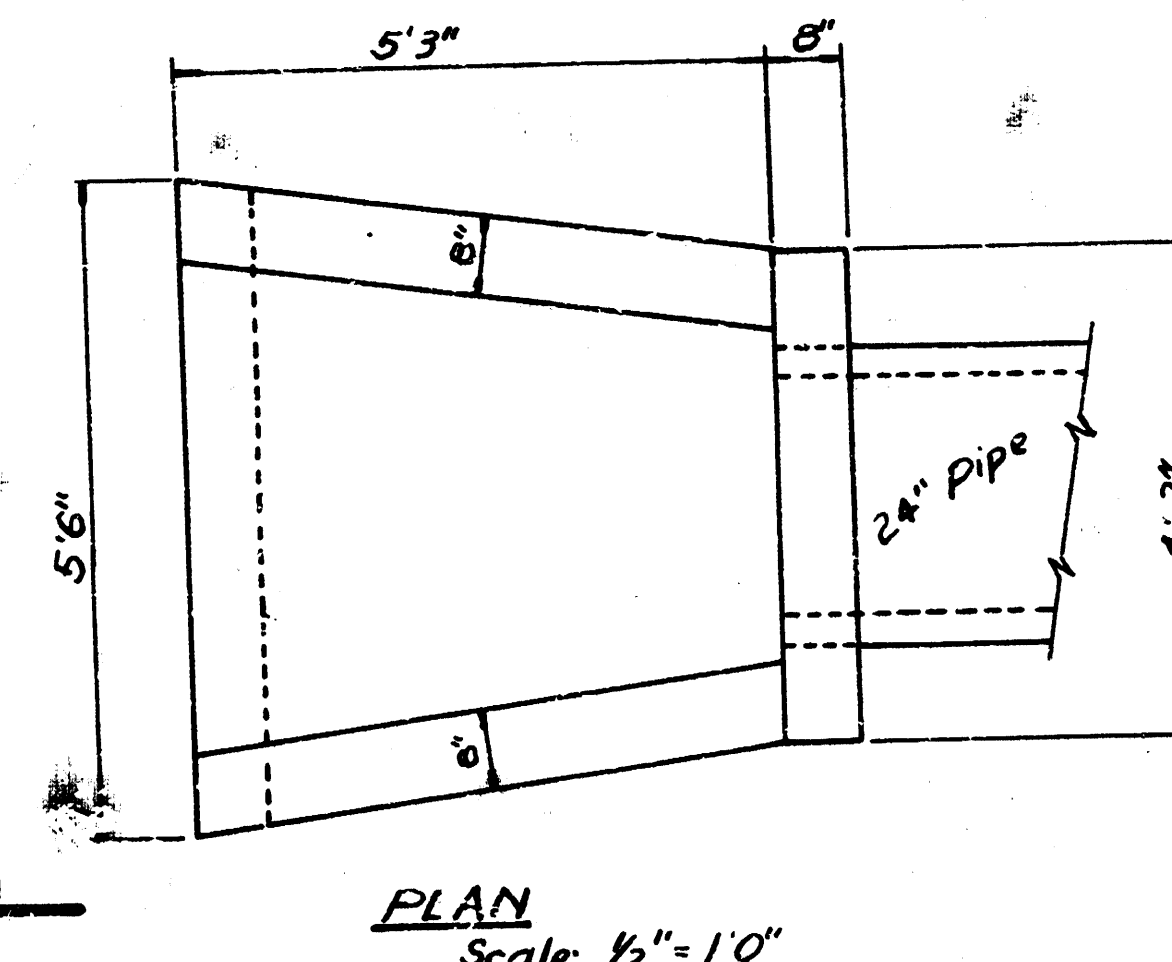
6/8 (1/3)

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.

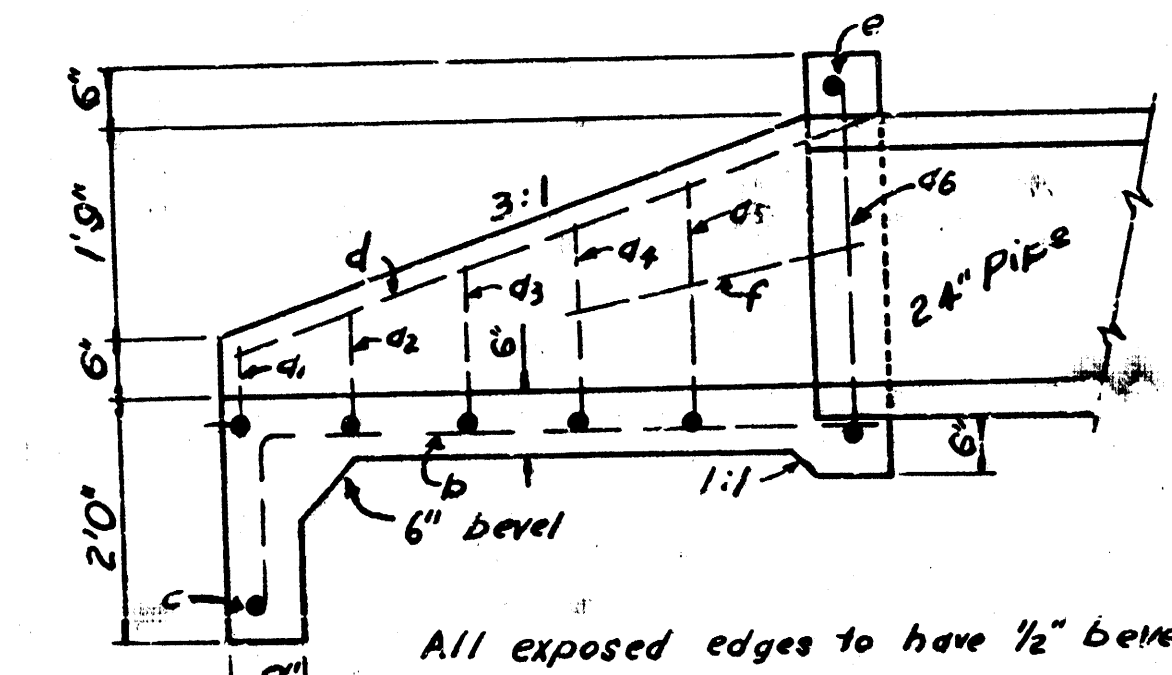
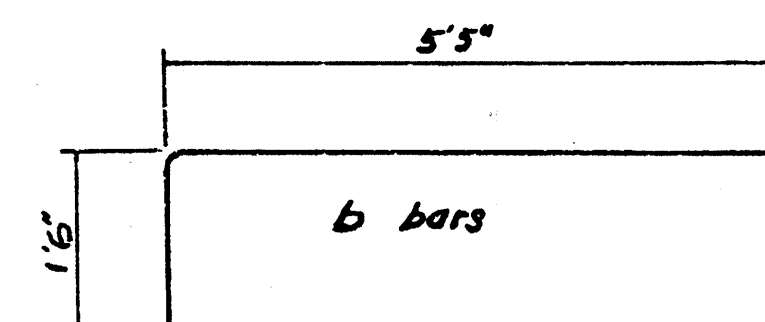
TWO 4' LENGTHS OF 15" RCP (ALT.
 15" CWR) USFL 8152 DSFL 81.42

SCALE 1" = 20'

HEADWALL DETAIL



a bars					
a ₁	4'8"				
a ₂	4'6"				
a ₃	4'3"				
a ₄	4'0"				
a ₅	3'9"				
a ₆	3'5"				



BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	6'1"		4.06
a ₂	1	6'4"		4.23
a ₃	1	6'9"		4.51
a ₄	1	7'2"		4.79
a ₅	1	7'7"		5.07
a 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				74.03
Concrete, CY				1.40

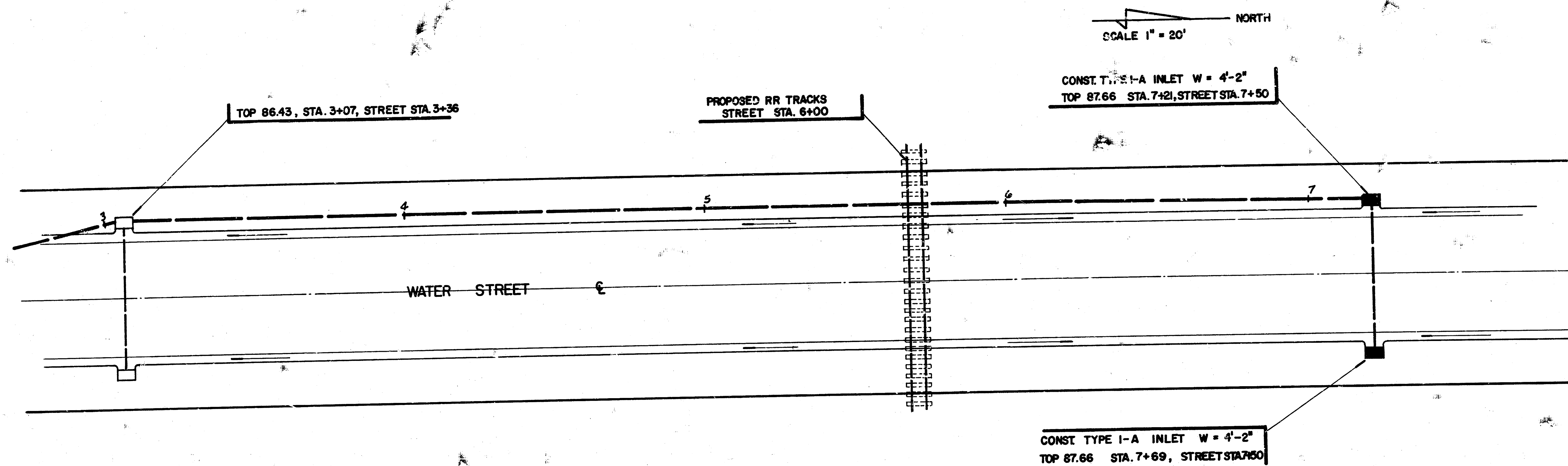
All Rebar to be #4

GENERAL NOTES

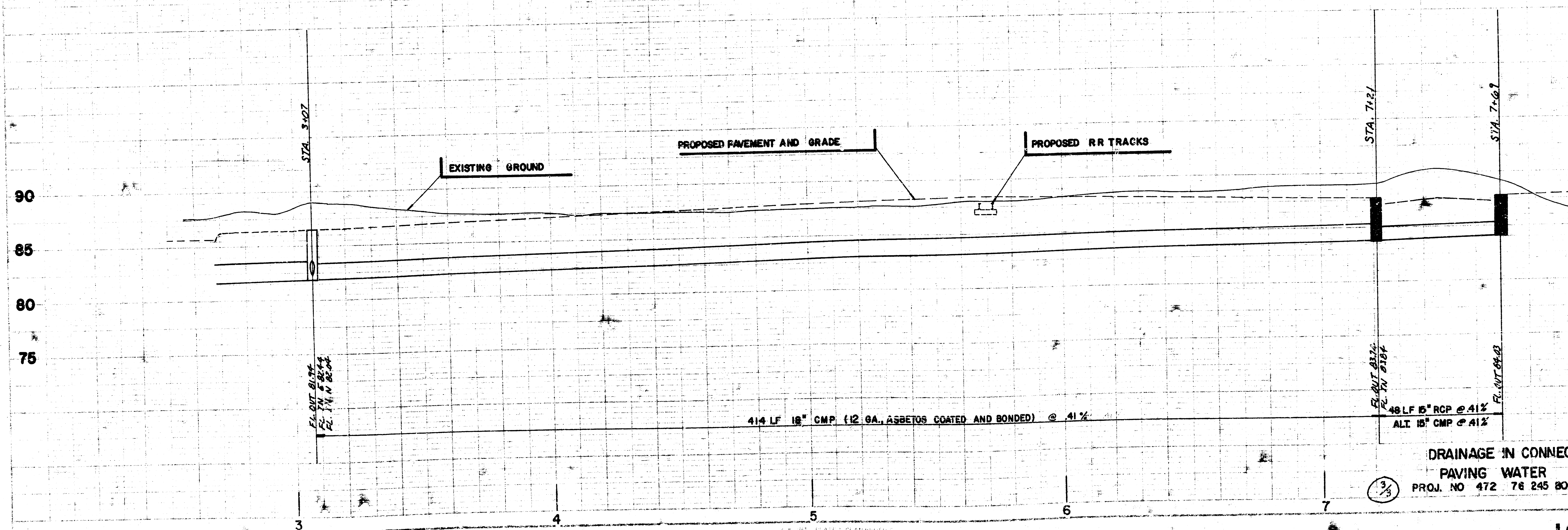
- ALL CONCRETE SHALL BE "6-SACK CONCRETE" UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED ALL METAL PIPES SHALL BE HELICALLY CORRUGATED METAL PIPES FOR SIZES 21" IN DIAMETER OR SMALLER, AND FULLY PAVED CORRUGATED METAL PIPE FOR SIZES 24" IN DIAMETER OR LARGER.
- THE RIP-RAP ON THIS PROJECT SHALL BE 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

PLAN



PROFILE
ELEVATION
STATIONING
DRAINAGE



DRAINAGE IN CONNECTION WITH
PAVING WATER STREET
PROJ. NO 472 76 245 80697 000 000 002

19 8 1 9