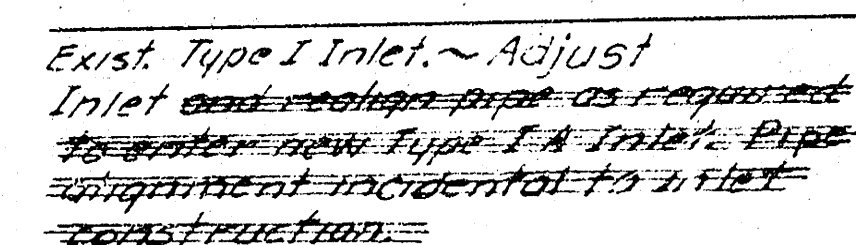


BASE LINE:
Sta. 0+85.1 to Sta. 0+87.1 TO Sta. 1+00, Base Line is on
a tangent to & @ Sta. 1+00, RT
Sta. 1+00, RT, to Sta. 2+44.06, PC, Base Line is on d.
Sta. 2+44.06, PC, to Sta. 4+15.04 Base Line is on an arc 25.0' Rt. of d.
Sta. 4+15.04 to Sta. 5+42.5 Base Line is 25' Rt. of d.

Scale: $1'' = 20'$



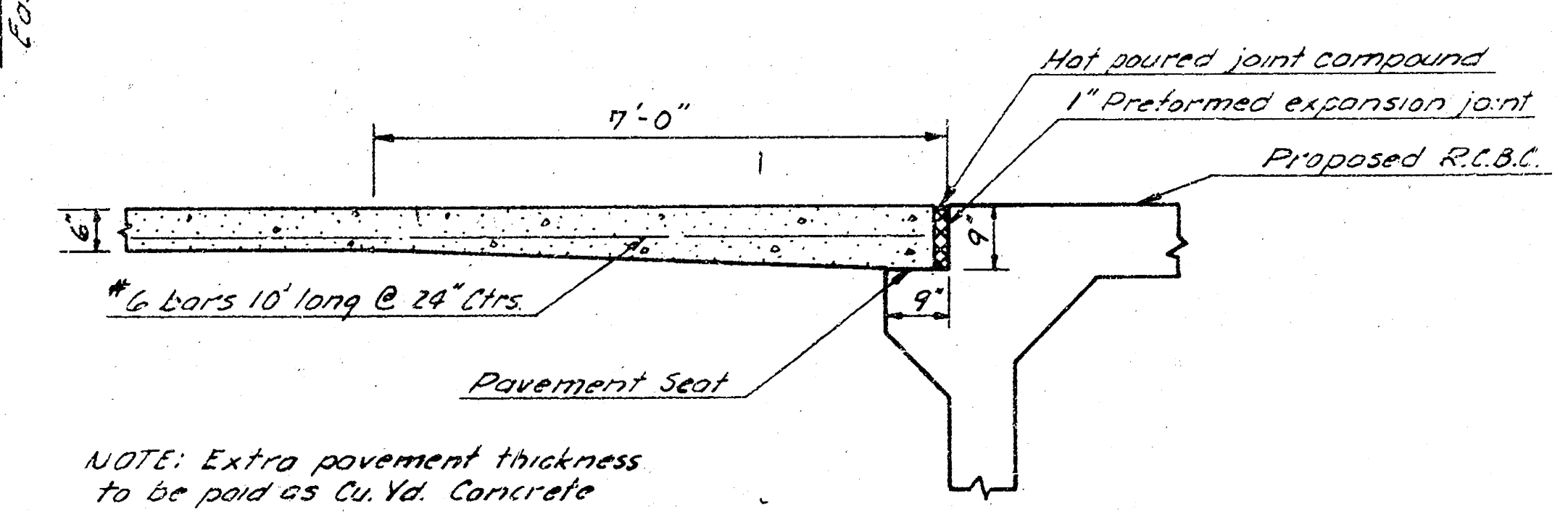
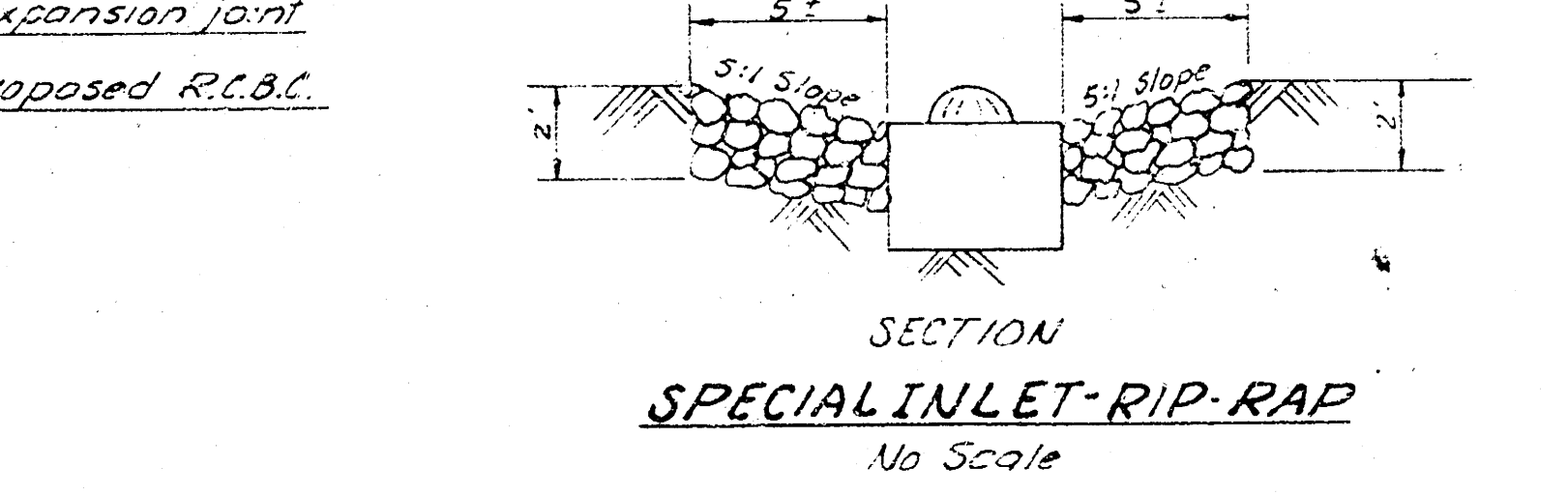
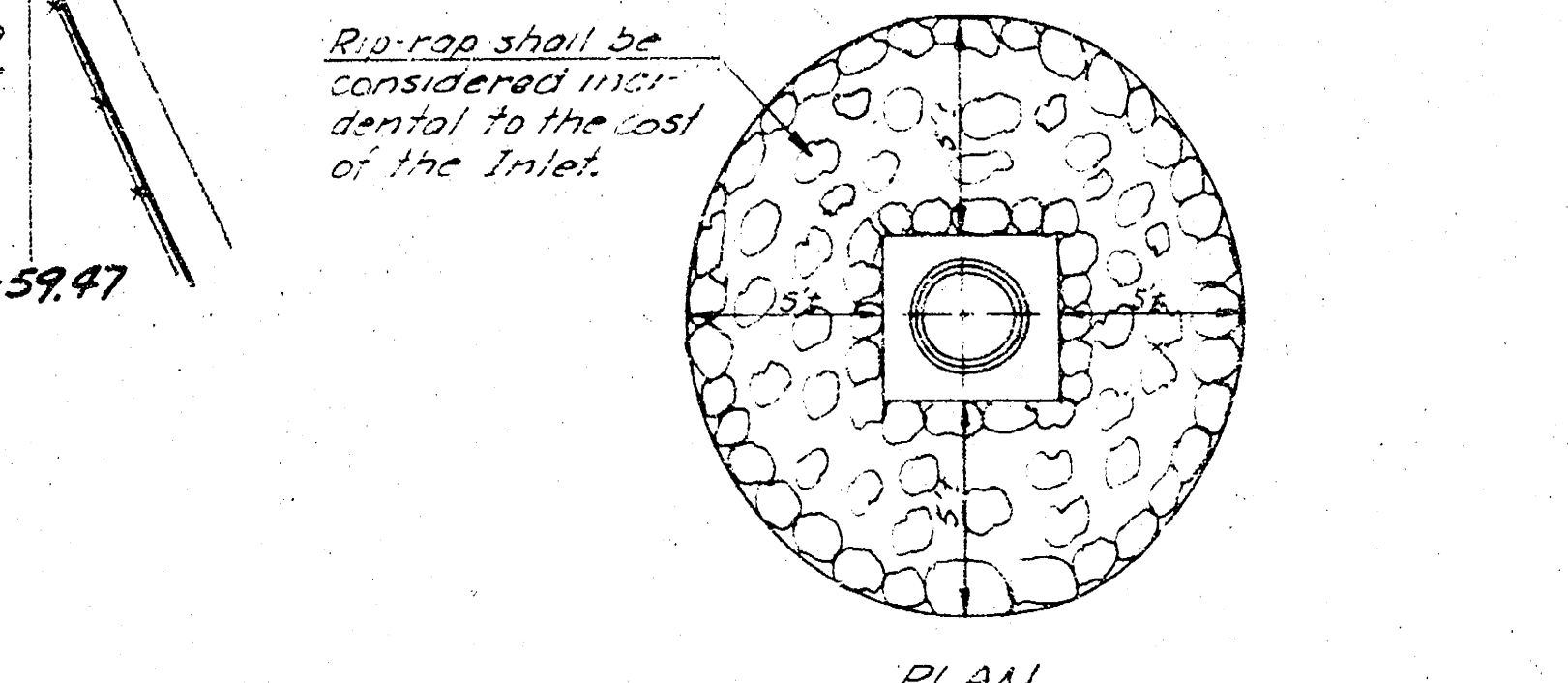
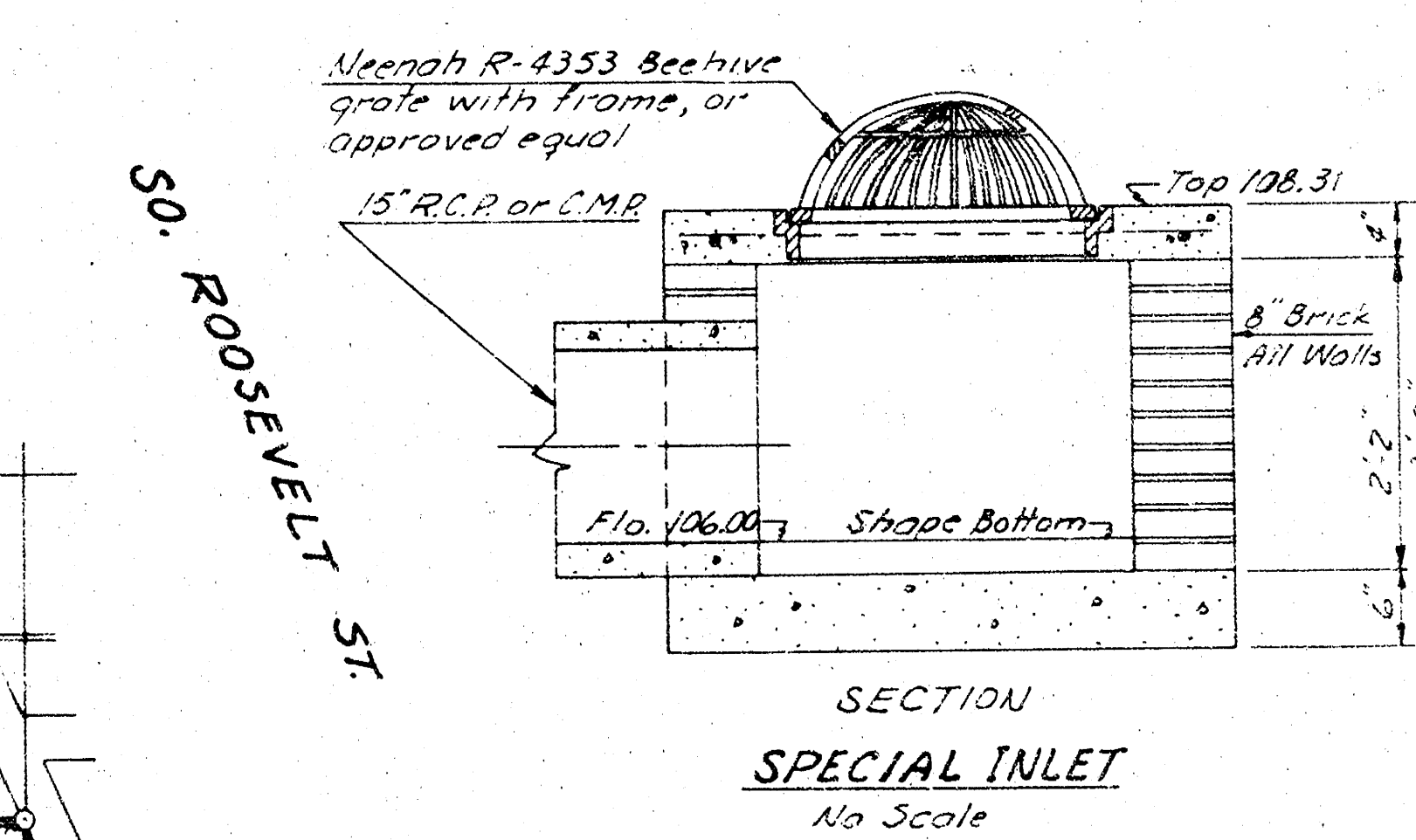
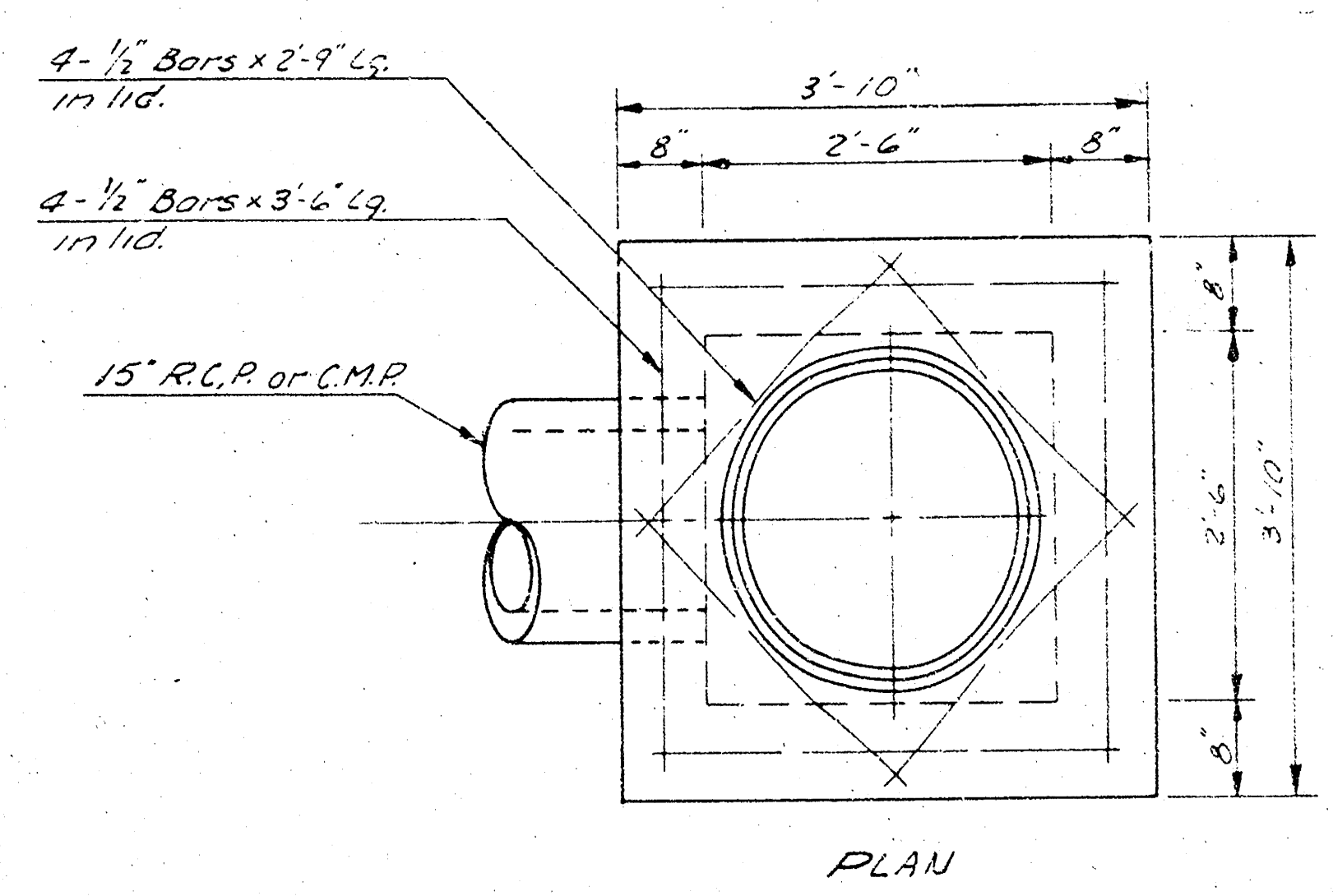
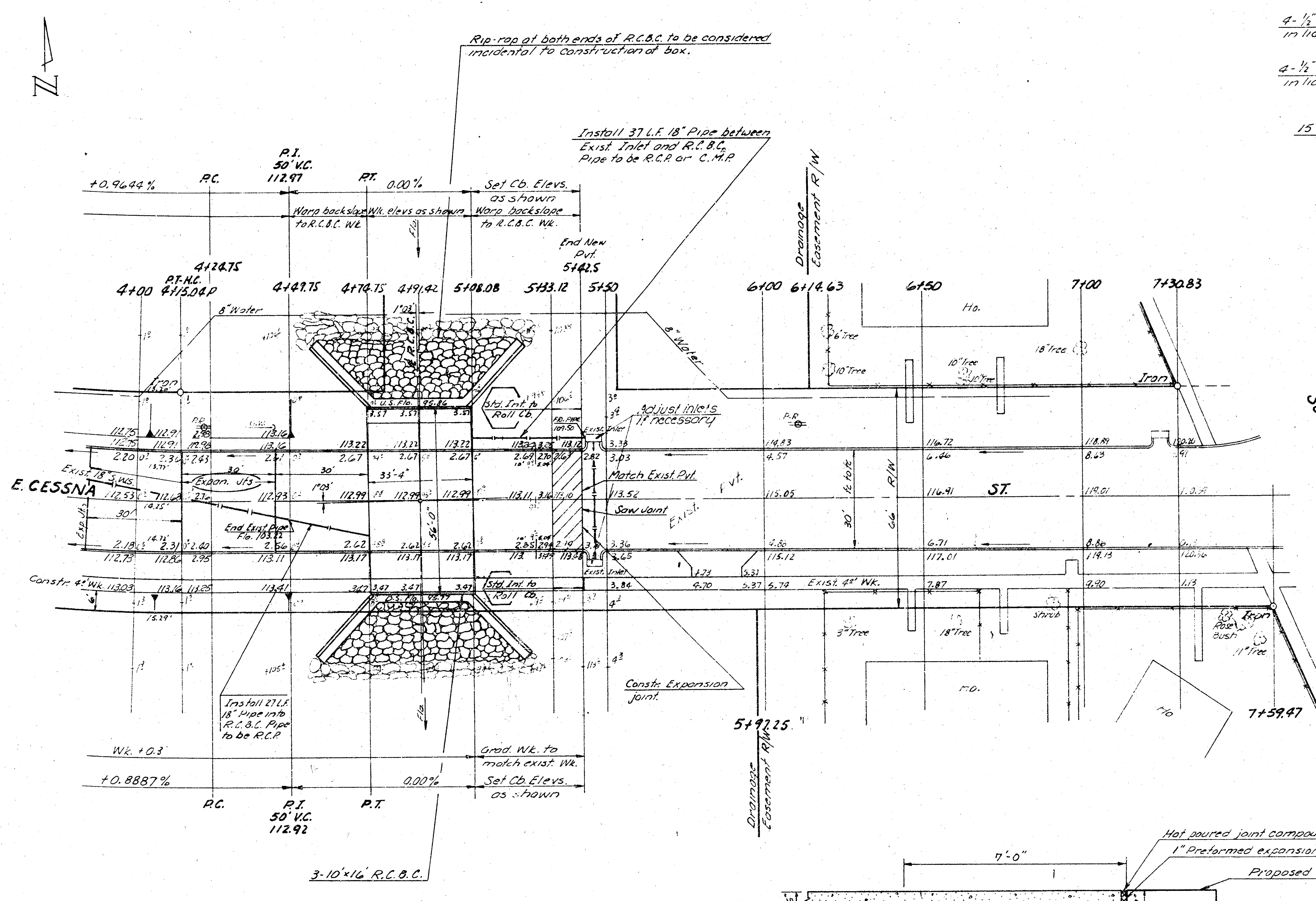
NOTE: Pvt. R/W and area of fill & excavation around R.C.B.C. shall be seeded, fertilized, and prairie hay mulched in accordance with City of Wichita Sanitary & Storm Sewer Specifications.

SUBGRADE
TYPE OF SUBGRADE: 1. MINOR GRADE REPAIRS
TERMINATED BY: 2. GRADE REPAIRS TO EXISTING
TREATMENT: 3. GRADE REPAIRS TO EXISTING
CEMENT: 4. GRADE REPAIRS TO EXISTING
LATION, OR ANY COMBINATION THEREOF

Total Manipulation = 1519 S.Y.

$\Delta = 20^\circ 23' \quad R = 475' \quad T = 85.44' \quad L = 160.98' \quad LC = 168.18'$ CURVE DATA BASED ON RAD. 25.0000 $\Delta = 10^\circ 11' 30''$					
STA	ARC	CHORD LENGTH		TOTAL	
		DEFLECTION	DEFLECTION	DEFLECTION	DEFLECTION
2+46.06			0°00'00"	0°00'00"	
2+75	28.74'	26.91'	28.81'	1°44'48"	1°44'48"
3+00	25.0'	22.41'	24.89'	3°53'28"	3°53'28"
3+25	25.0'	22.41'	24.89'	1°30'18"	4°25'40"
3+50	25.0'	22.41'	24.89'	1°30'18"	6°06'08"
3+75	25.0'	22.41'	24.89'	1°30'18"	7°42'36"
4+00	25.0'	22.47'	24.80'	1°30'28"	9°17'04"
4+15.06	15.04'	13.32'	14.98'		10°11'30"

E. CESSNA ST. $\frac{1}{2}$ 3-10'x16' R.C.B.C.
FROM 20' W. OF E.L. LOT 16,
BLOCK 4, PLANEVIEW SUBDIVISION
No. 1 TO W.L. LOT 2, BLOCK G,
PLANEVIEW SUBDIVISION No. 1,
OVER DRY CREEK
30' CONC. PVT. $\frac{1}{2}$ INTEGRAL CD.
CITY OF WICHITA, KANSAS
R.W. LINN CITY ENGINEER
DATE _____ PROJ. No. DAKS 577020



NOTE: Extra pavement thickness to be paid as Cu. Yd. Concrete

PAVEMENT DETAIL AT BRIDGE
No Scale

NOTE: Rip-rap or equivalent protection shall be placed up to 3'-0\"/>

E. CESSNA ST.- OVER DRY CREEK
PROJ. NO. DAKS 577020

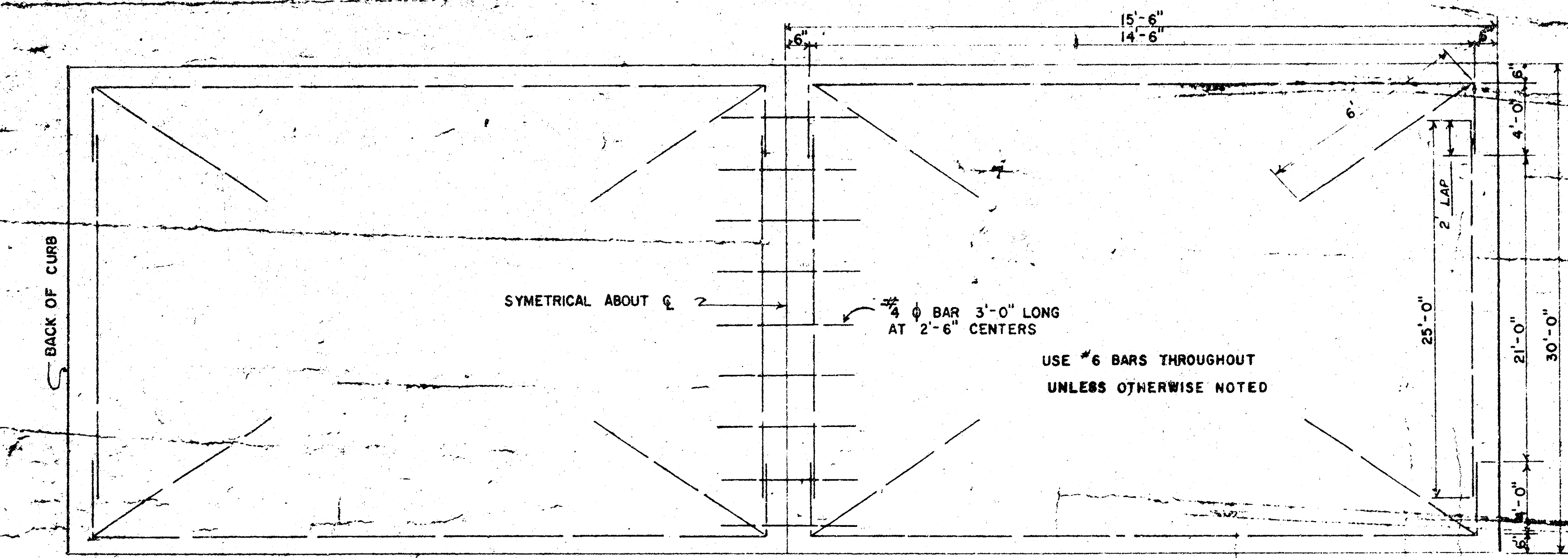
The image contains two cross-section diagrams of a 36-inch diameter sewer pipe, labeled 'TYPICAL SECTION WITH STANDARD CROWN' and 'TYPICAL SECTION WITH ALTERNATE CROWN'.

Left Diagram: TYPICAL SECTION WITH STANDARD CROWN

- Overall Dimensions:** The total width of the section is 36'-0". The pipe diameter is 36'-0".
- Wall and Bedding:** The pipe is made of 6" CONCRETE (6 SACK). The bedding is 6" CONCRETE (6 SACK) and 6" CONCRETE (6 SACK).
- Profile and Slope:** The profile is a PARABOLIC CURVE. The slope is 3/8" IN 1'. The slope is also indicated as 0.0245 FT./FT.
- Offsets and Dimensions:**
 - From the centerline to the left edge: 1'-6", 1'-0", 1'-0", 1'-0", 1'-0", 1'-0", 1'-0", 2'-0", 2'-0", 2'-0", 2'-0".
 - From the centerline to the right edge: 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0".
 - Vertical offsets from the centerline: 1/16", 3/16", 5/16", 1/2", 3/4", 1-1/16", 1-7/16", 2-3/16", 2-15/16", 3-11/16", 2'-9/16".
- Other Labels:** SEE STANDARD CURB SECTIONS, KEY JT., Subgrade as per CITY SPECIFICATIONS.

Right Diagram: TYPICAL SECTION WITH ALTERNATE CROWN

- Overall Dimensions:** The total width of the section is 36'-0". The pipe diameter is 36'-0".
- Wall and Bedding:** The pipe is made of 6" CONCRETE (6 SACK). The bedding is 6" CONCRETE (6 SACK) and 6" CONCRETE (6 SACK).
- Profile and Slope:** The profile is an ALTERNATE CROWN. The slope is 3/8" IN 1'. The slope is also indicated as 0.0245 FT./FT.
- Offsets and Dimensions:**
 - From the centerline to the left edge: 1'-6", 1'-0", 1'-0", 1'-0", 1'-0", 1'-0", 1'-0", 2'-0", 2'-0", 2'-0", 2'-0".
 - From the centerline to the right edge: 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0", 2'-0".
 - Vertical offsets from the centerline: 1/16", 3/16", 5/16", 1/2", 3/4", 1-1/16", 1-7/16", 2-3/16", 2-15/16", 3-11/16", 2'-9/16".
- Other Labels:** SEE STANDARD CURB SECTIONS, KEY JT., Subgrade as per CITY SPECIFICATIONS.



15'-6"

14'-6"

6"

6"

6"

6"

2'-0"

2'-0"

30'-0"

25'-0"

2'-LAP

SYMMETRICAL ABOUT C

Ø BAR 3'-0" LONG
AT 2'-6" CENTERS

USE #6 BARS THROUGHOUT
UNLESS OTHERWISE NOTED

BACK OF CURB

STANDARD SECTIONS

SEE NOTE No. 1

SEE NOTE No. 2

Dimensions: $9'-1/2"$, $11'-V/2"$, $12"$, $10" R$, $10"$, $10"$, $10"$

ROLL -TYPE

OF

10"

6"

1/2"

1 7/16" R

SEE NOTE No. 1

1/2"

1/2"

SEE NOTE No. 2

12-5/16"

1/2"

Thick

ALTERNATE ROLL-TYPE

CONTRACTION

SAW JOINT 3/8" WIDE BY 2-1/2" DEEP
FILLED WITH SPECIFIED JOINT SEALING COMPOUND

*TO BE USED AT 30' INTERVALS EXCEPT
WHERE AN EXPANSION JOINT IS USED*

EXPANSION

3/4" EXPANSION MATERIAL, UPPER 1/2" TO BE
FILLED WITH SPECIFIED JOINT SEALING COMPOUND

TO BE USED AT 120' INTERVALS

KEY

6 BARS LONG AT
CENTER STREET

JOINT DETAILS

1. CONTRACTIONS IN INTEGRAL PAVEMENT. HAVE A NA

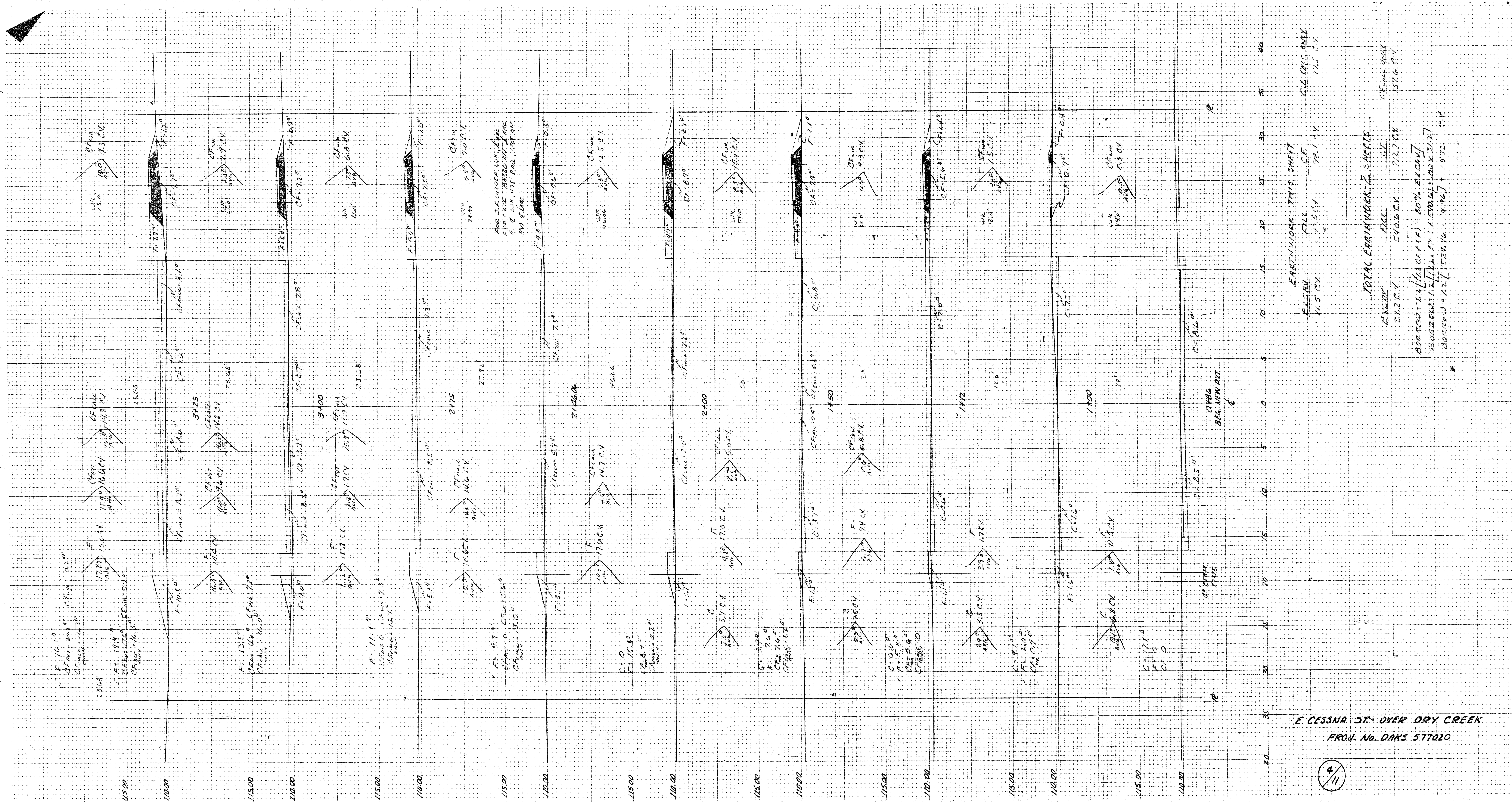
2. INTEGRAL PAVEMENT DOWEL BAR THESE DOWEL THAN 1/2"

1. 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'.

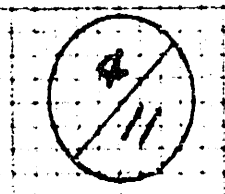
2. INTEGRAL CURB SHALL BE TIED TO THE PAVEMENT BASE WITH SHORT DEFORMED DOWEL BARS SPACED AT 2'-6" INTERVALS. THESE DOWEL BARS SHALL NOT BE LESS THAN 1/2" OR MORE THAN 3/4" IN DIAMETER.

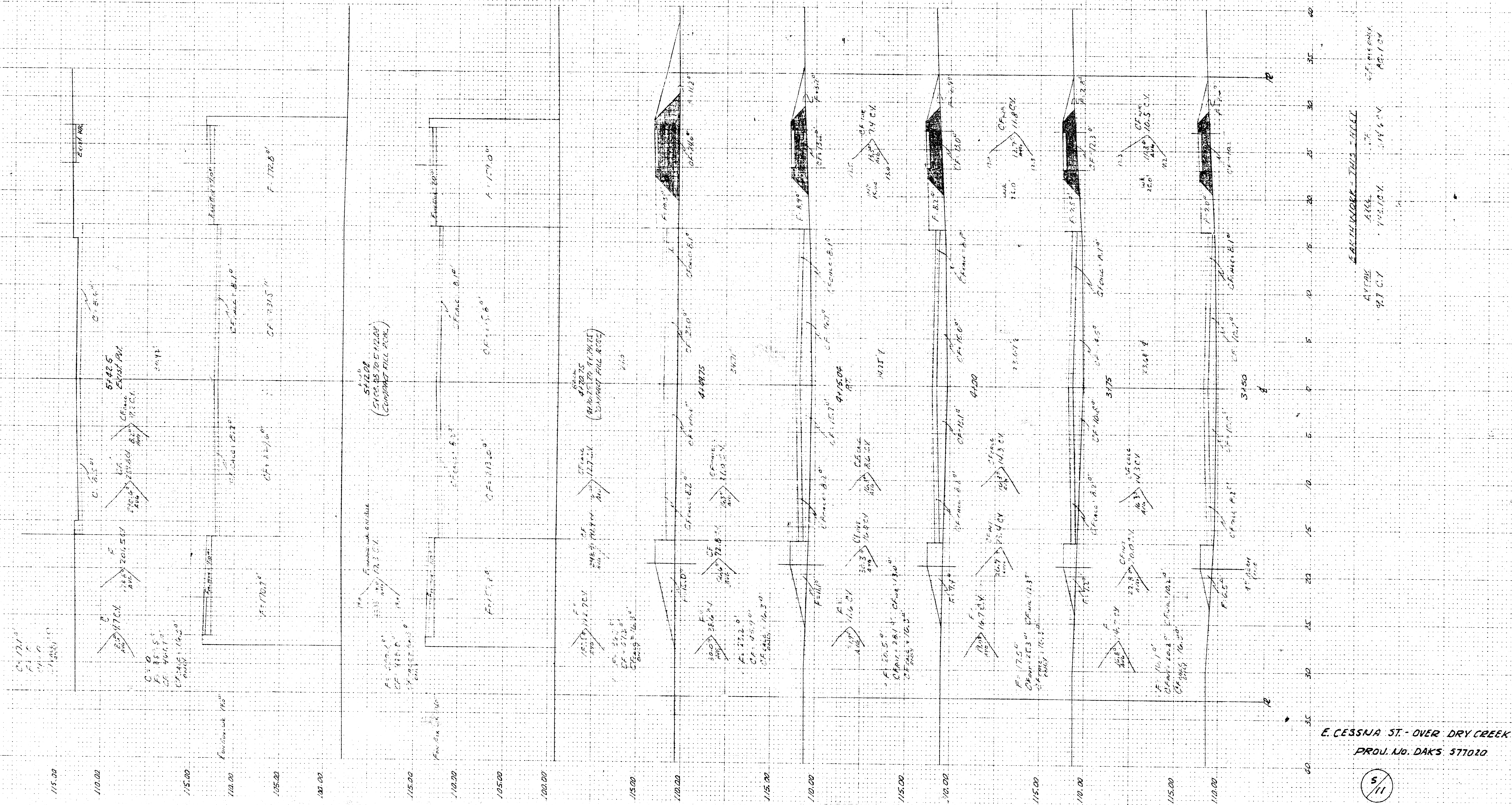
Date: *June, 1977* Project No. *DAKS-577020*

3/10



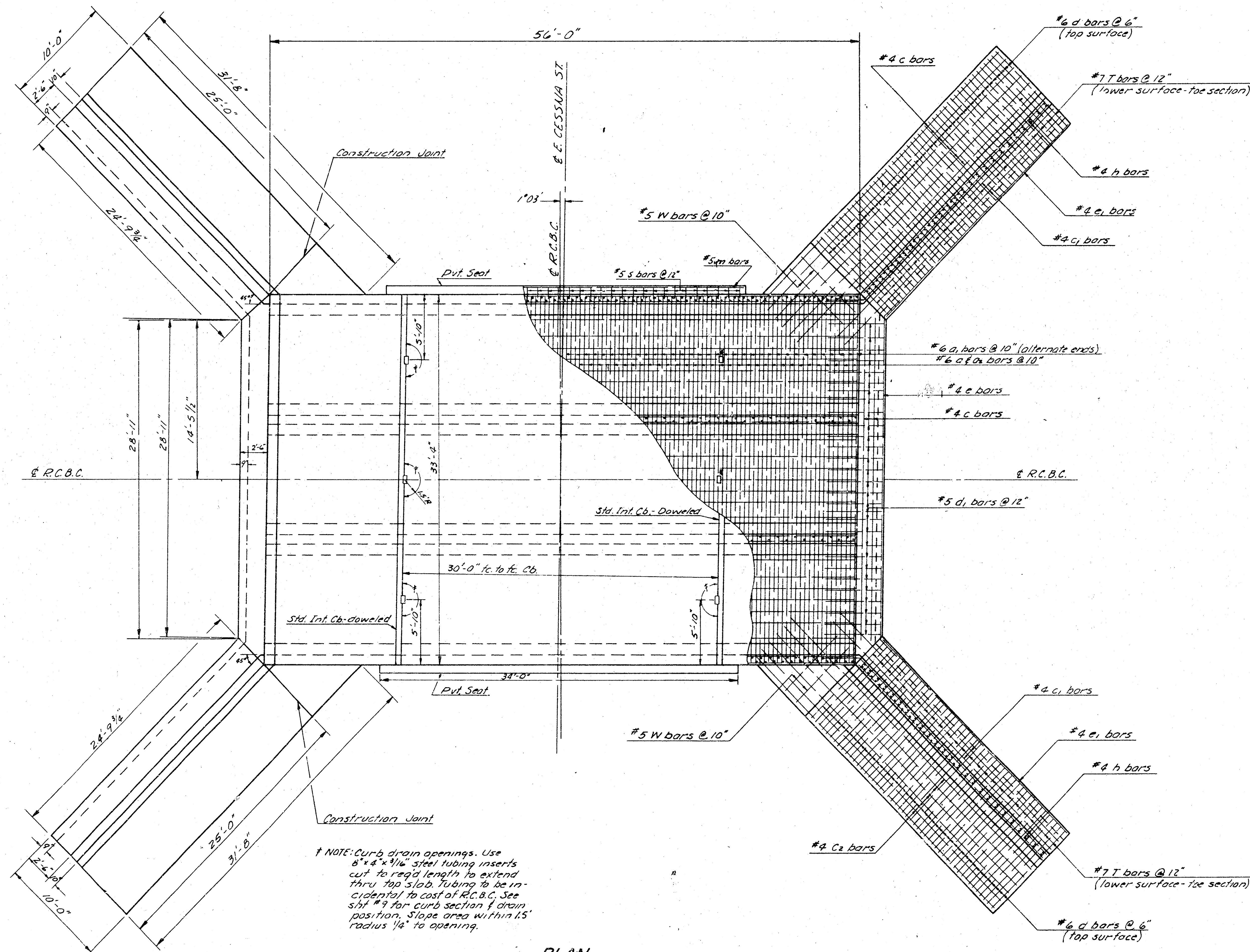
E. CESSNA ST. OVER DRY CREEK
PROJ. NO. DAKS 577020





E. CESSNA ST. - OVER DRY CREEK
PROJ. NO. DAKS 577020





GENERAL NOTES

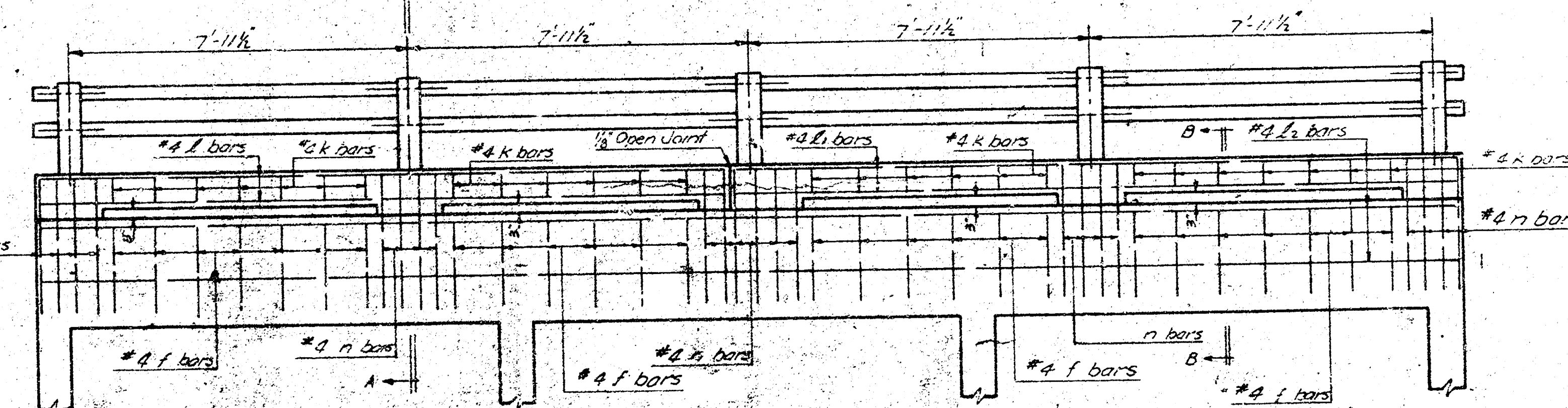
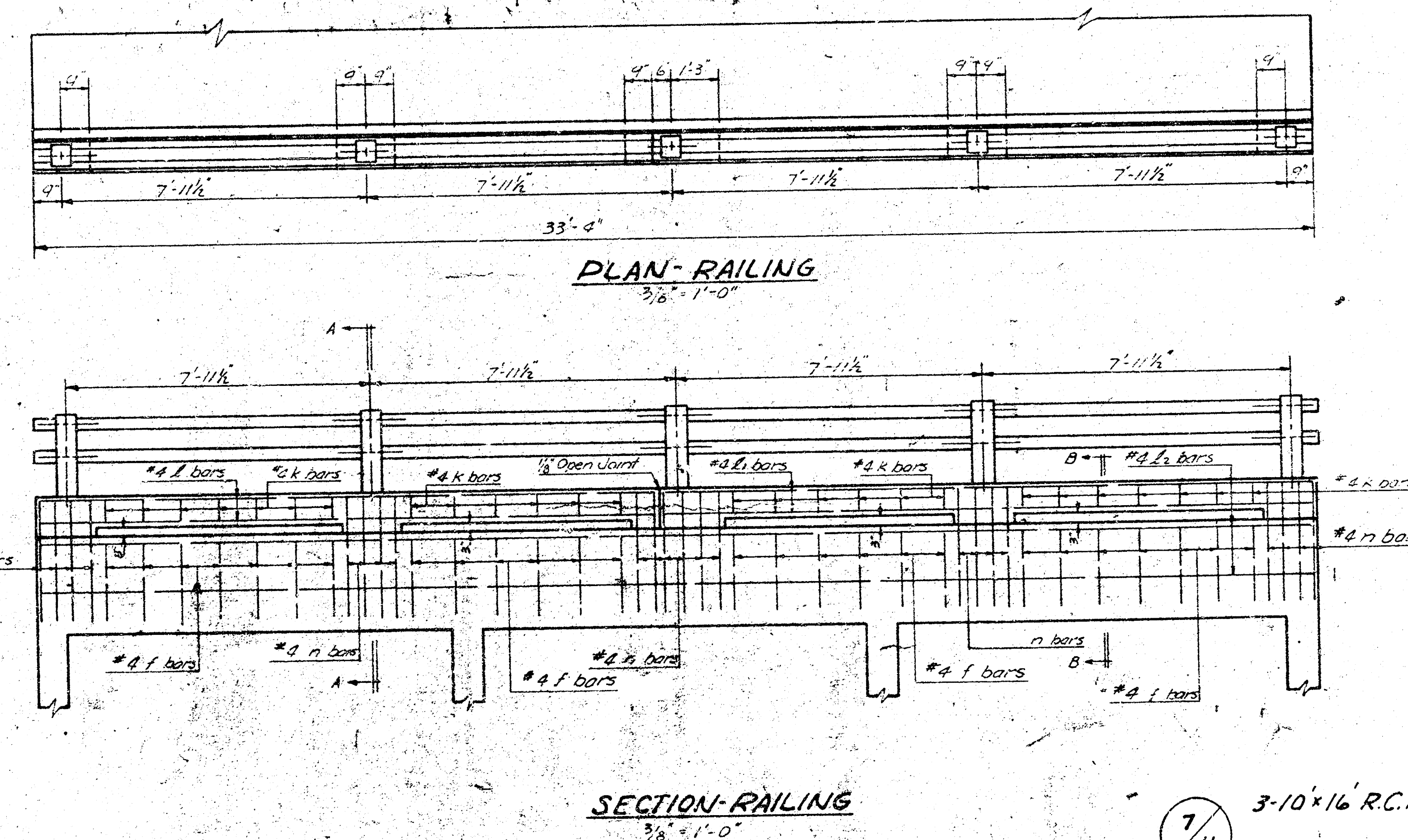
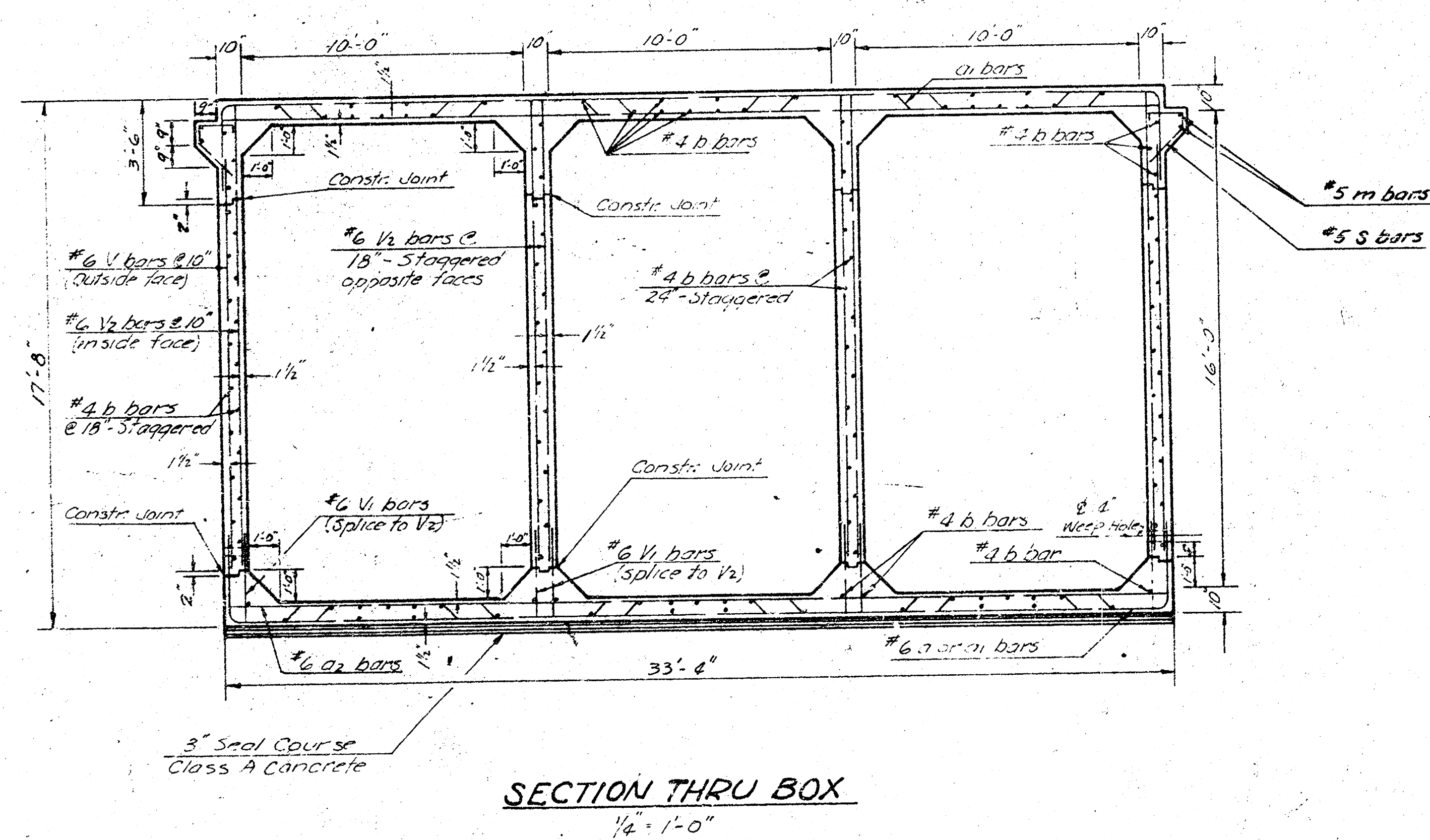
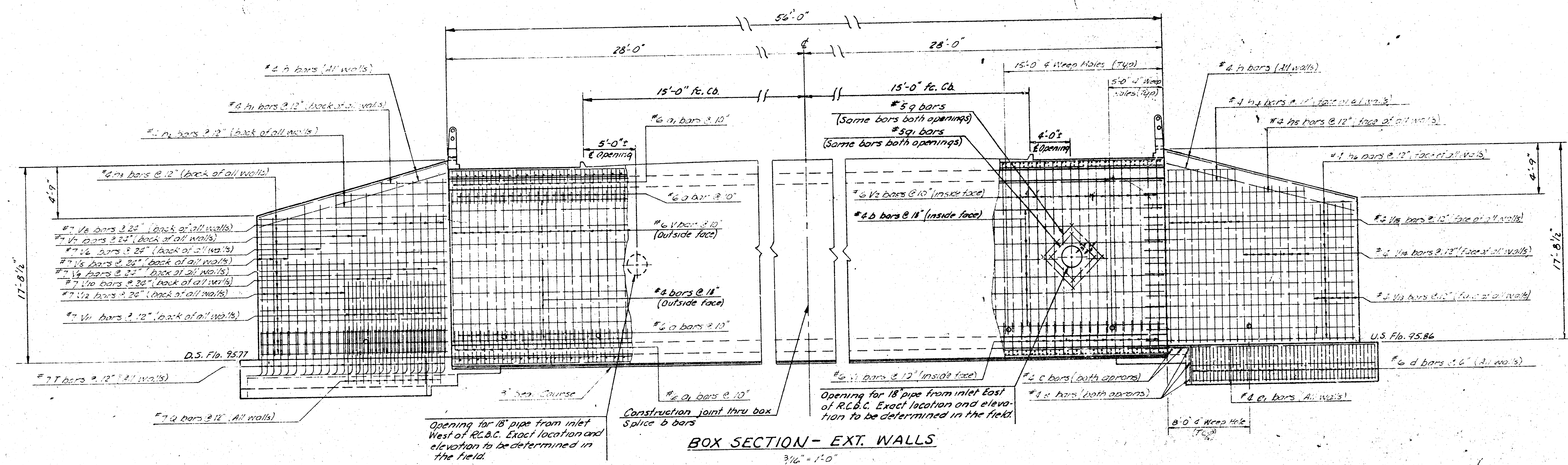
1. CLASS A AE - CONCRETE SHALL BE USED THROUGHOUT ON THE STRUCTURE. ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPECIFICATIONS.
2. EARTHWORK - ALL EARTHWORK SHALL BE CONSIDERED AS "COMMON EXCAVATION" EXCEPT FOR THE TOWALL. TOWALL EXCAVATION SHALL BE INCLUDED IN "LUMP SUM BID".
3. BACKFILL - ALL BACKFILL AND EXCAVATION TO EXTEND TO (4') BEYOND SIDES OF BOX AND WING WALLS.
4. BEVEL - ALL EXPOSED EDGES OF CONCRETE WITH 3/4" TRIANGULAR BEVELING.
5. WEAR SURFACE - COURSE AGGREGATE SHALL BE DEPOSITED BEHIND EACH WEARABLE TO OCCUPY A SPACE EXTENDING (15") IN ALL DIRECTIONS ABOVE WEARABLE FLOW LINE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED A PART OF THE EXCAVATION WORK.
6. SEAL COURSE - A SEAL COURSE CONSISTING OF 3" CLASS "A" CONCRETE SHALL BE CONSTRUCTED ONLY WHERE SPECIFIED ON THE PLANS OR BY THE ENGINEER. NO REINFORCING SHALL BE PLACED UNTIL THE SEAL COURSE HAS GAINED SUFFICIENT STRENGTH TO PERMIT WORKING UPON IT WITHOUT DAMAGE.
7. STEEL TUBING - INSERTS AT CUTTER DRAIN OPENINGS SHALL RECEIVE THREE (3) COATS OF PAINT, INSIDE AND OUTSIDE, BEFORE INSTALLATION. THE FIRST COAT IS TO BE A RED LEAD PRIMER COAT, AND THE SECOND AND THIRD COATS ARE TO BE ALUMINUM PAINT (UNTIMED). PAINT SHALL BE PER STATE HIGHWAY COMMISSION OF KANSAS, STANDARD MATERIALS SPECIFICATIONS, 1973 EDITION, SECTION 1008.
8. BIDDING OF CULVERT - THE CULVERT SHALL BE BID AS A "LUMP SUM BID" WHICH SHALL INCLUDE THE FOLLOWING ITEMS: CLASS A AE CONCRETE, REINFORCING STEEL, HAND EXCAVATION, ALUMINUM HAND RAIL, AND STEEL TUBING AT CUTTER DRAIN OPENINGS. ALL OTHER ITEMS SHALL BE INCLUDED AS BID ITEMS.
9. THE QUANTITIES SHOWN IN THE "BILL OF MATERIALS" OR ITEMS WHICH ARE INCLUDED IN THE "LUMP SUM BID" OF THE CULVERT ARE FOR "INFORMATION PURPOSES ONLY". THE CONTRACTOR MUST SATISFY HIMSELF AS TO THE "QUANTITIES" AND THE ENGINEER ASSUMES NO RESPONSIBILITIES FOR THEIR ACCURACY. THE CONTRACTOR WILL HAVE THE FULL RESPONSIBILITY FOR PROVIDING ALL MATERIALS ON THE DETAILED PLANS NECESSARY TO COMPLETE THE PROJECT.

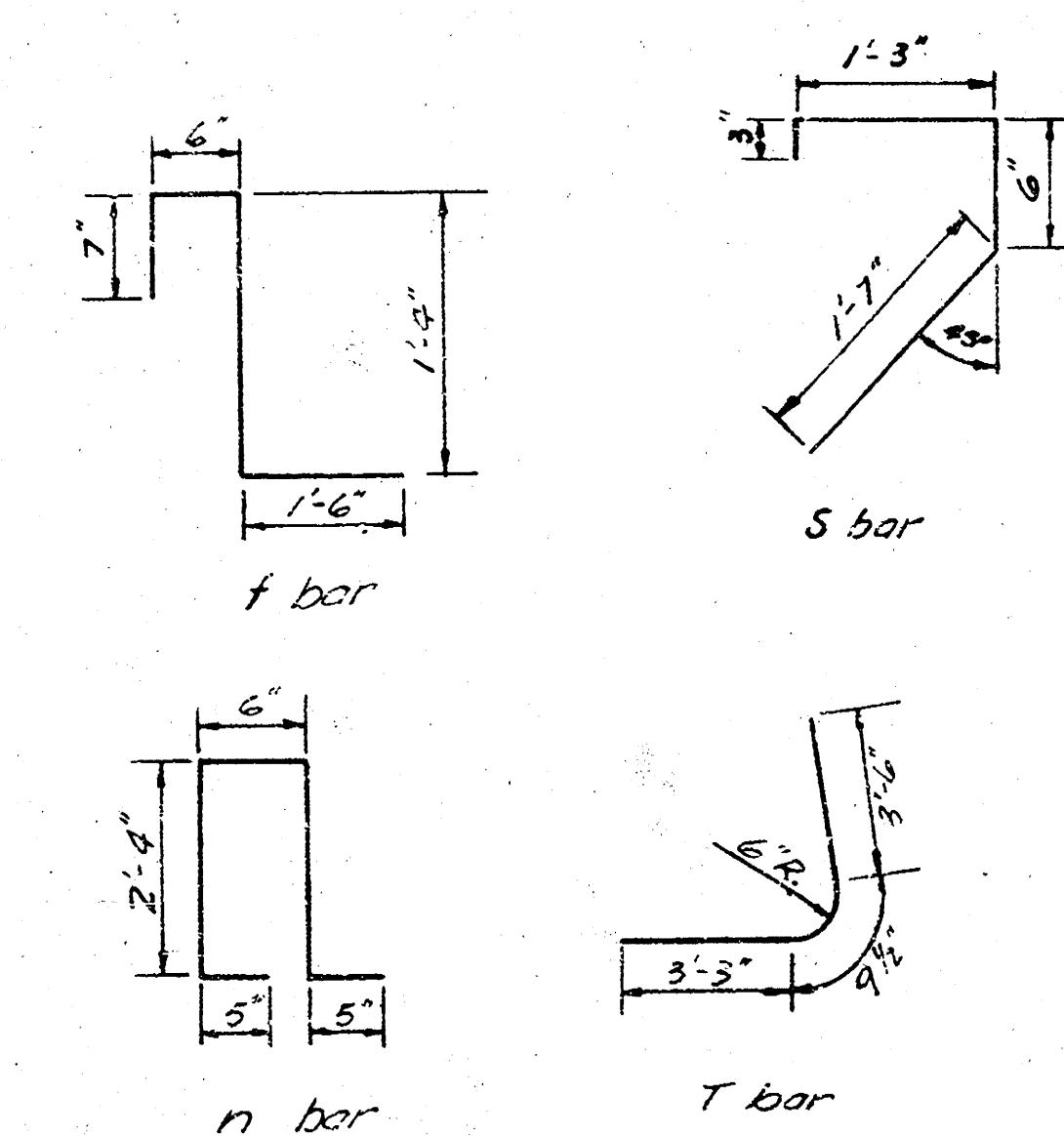
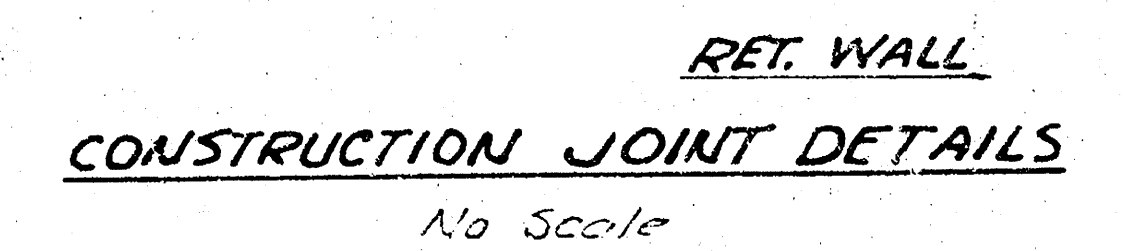
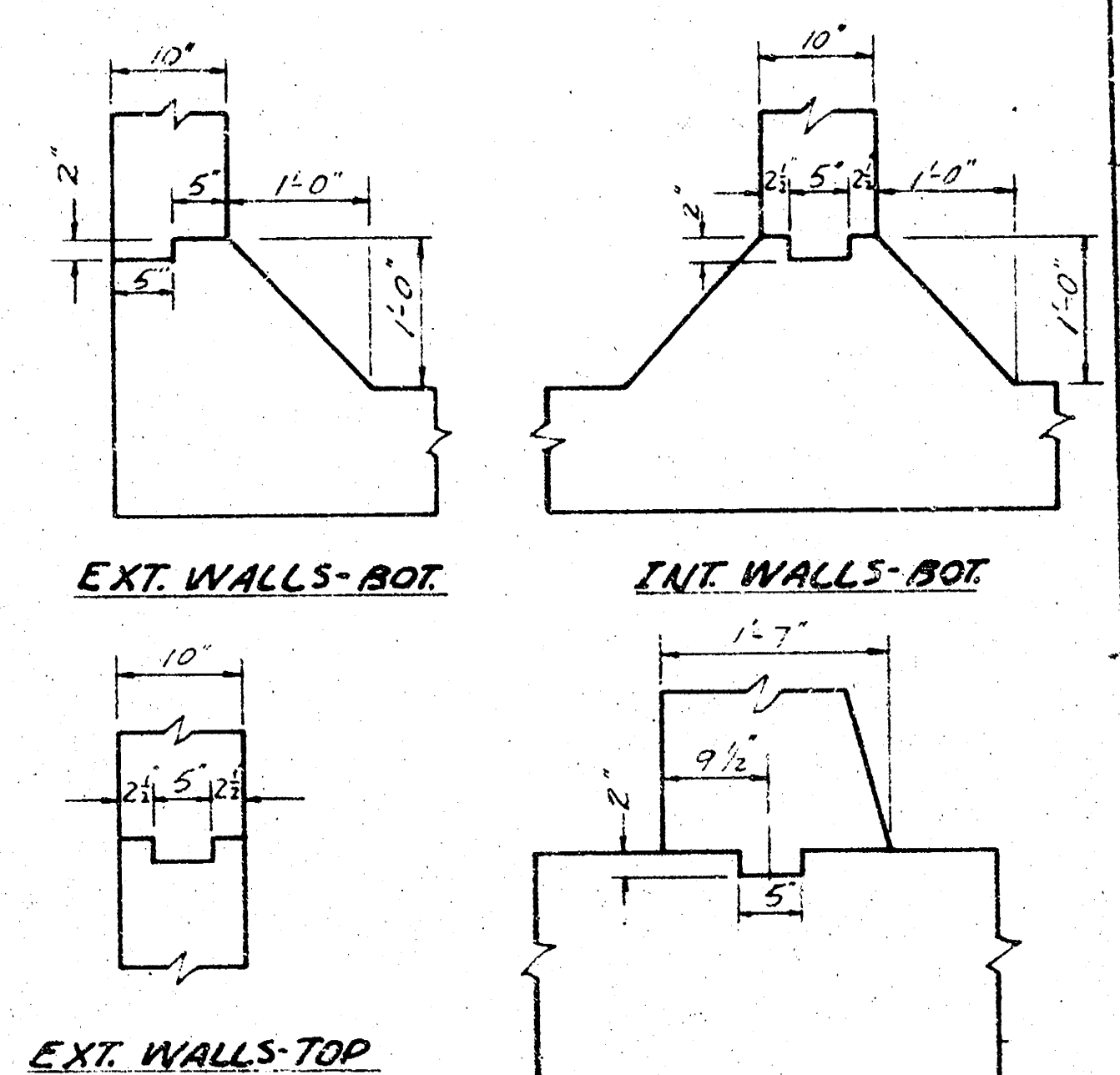
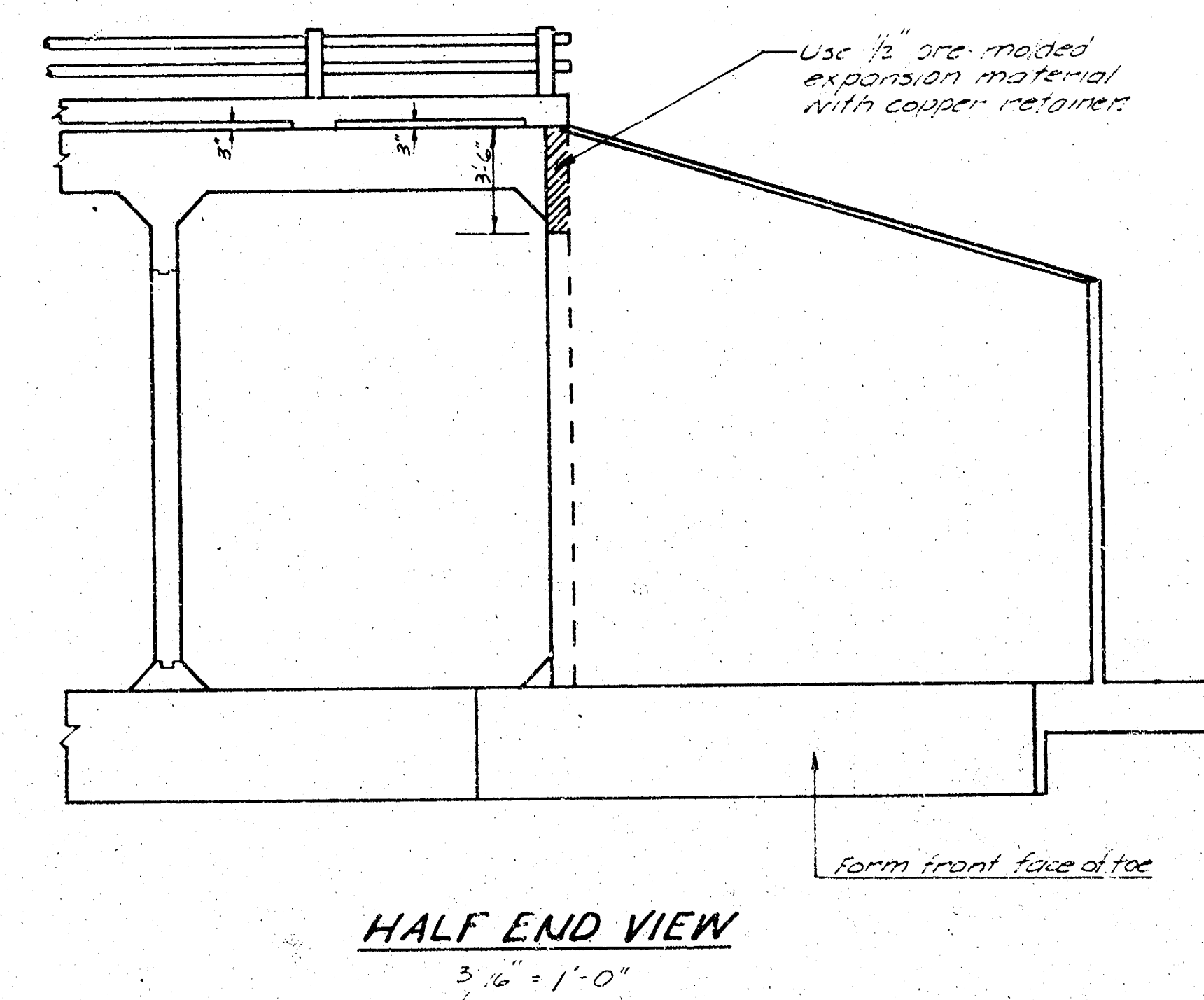
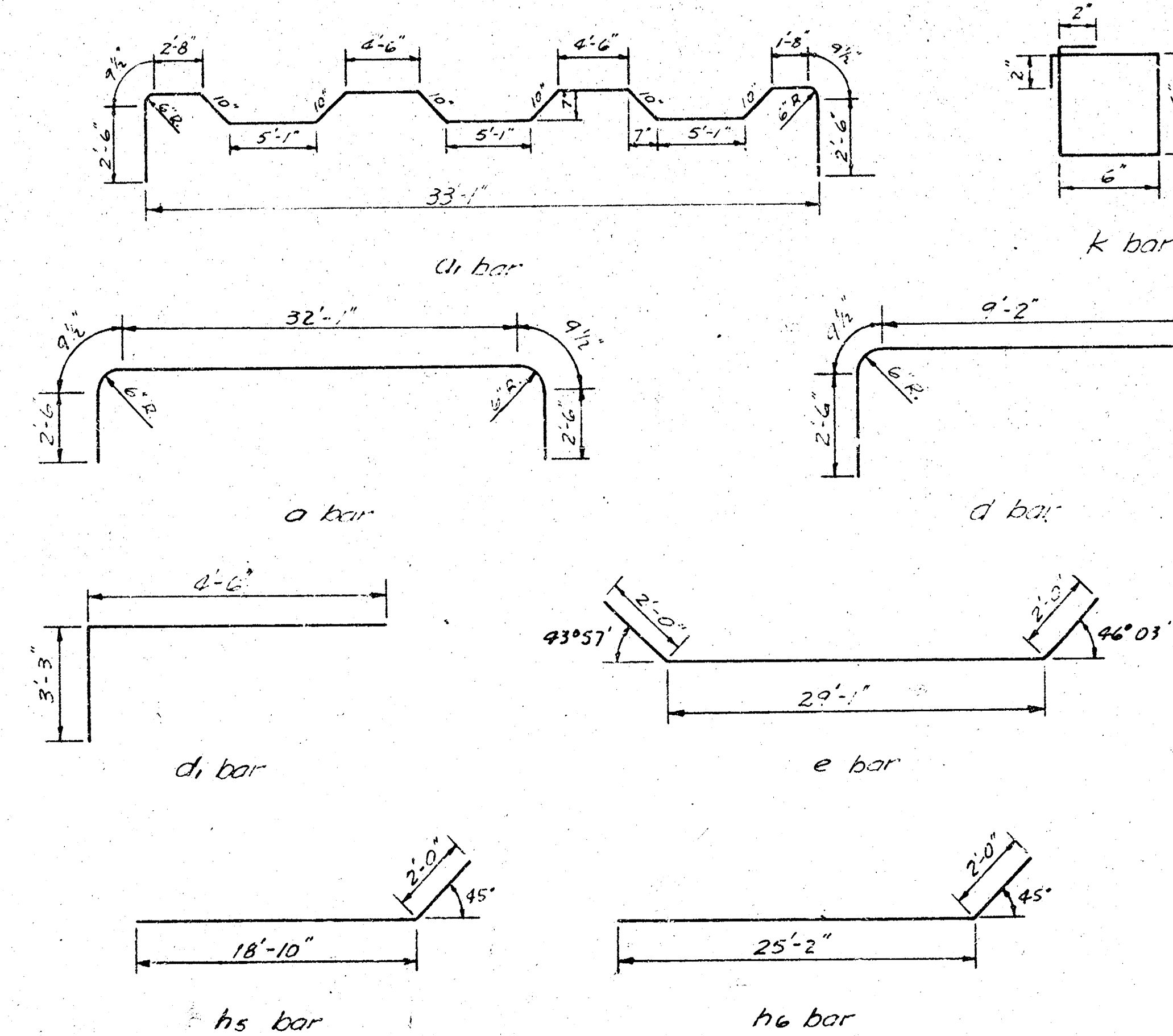
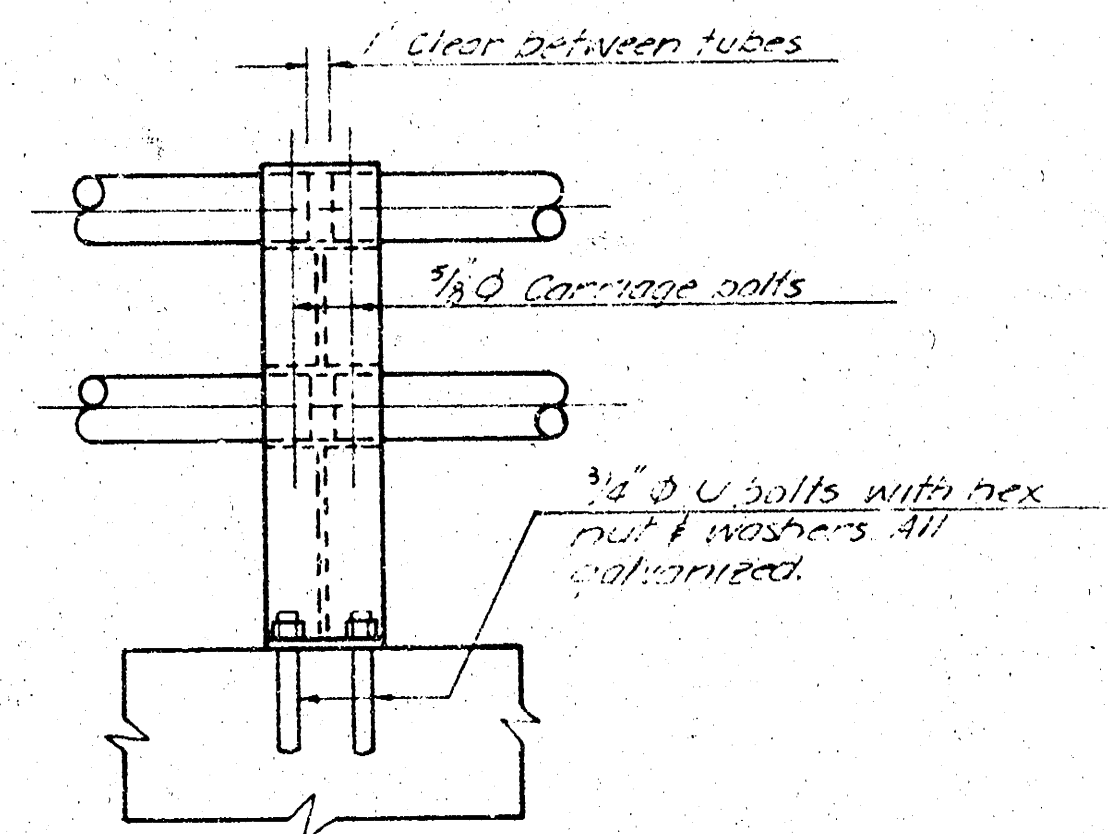
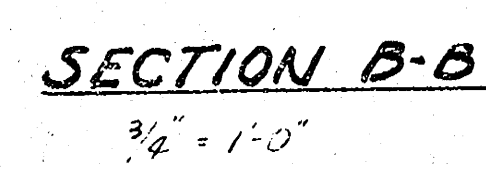
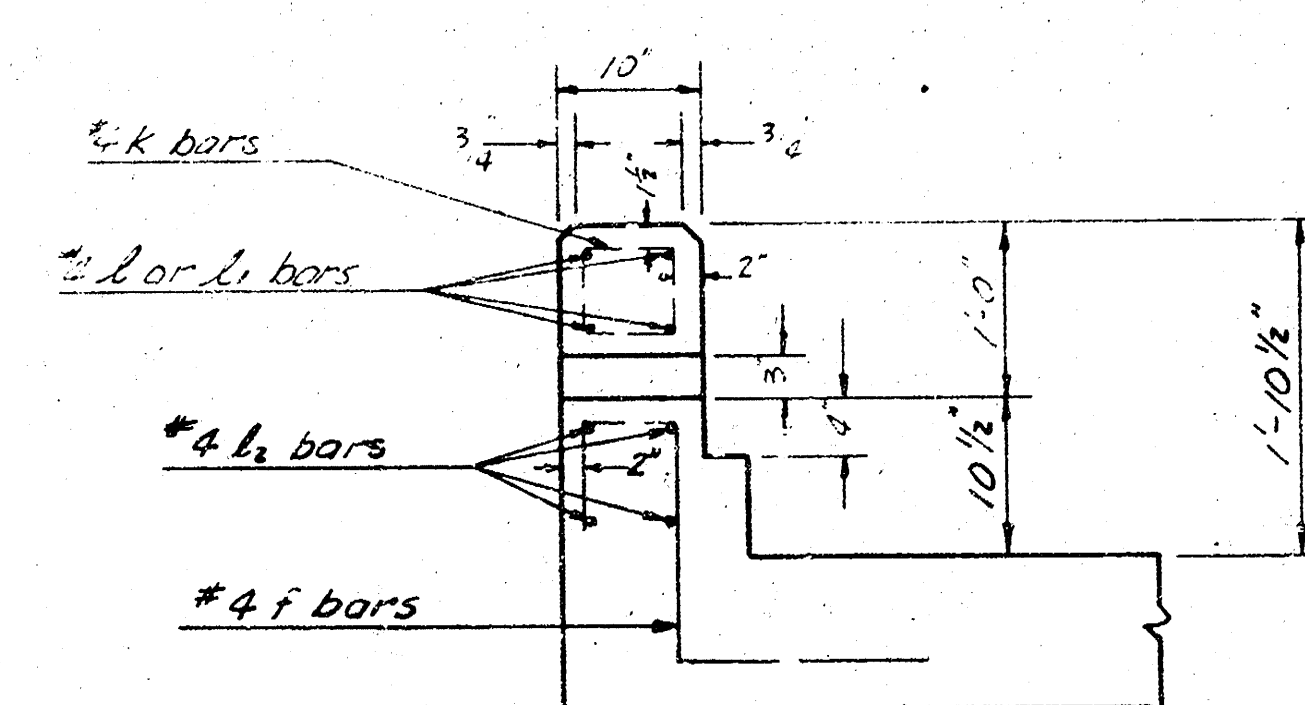
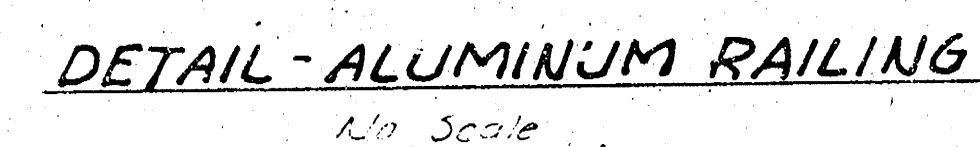
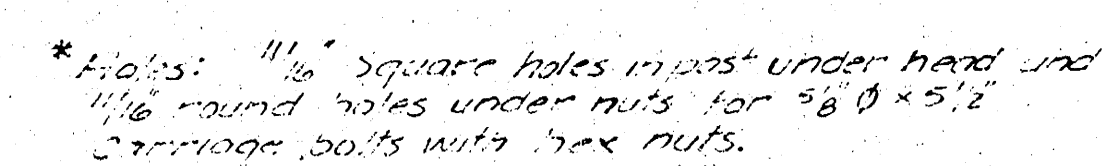
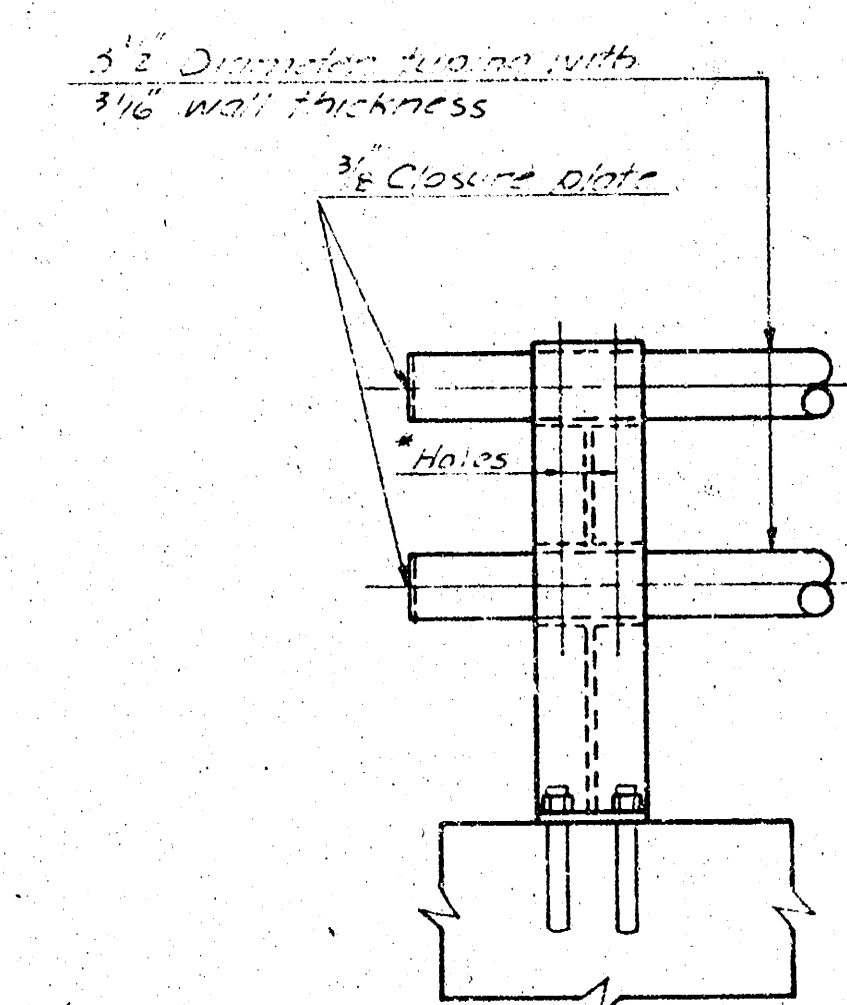
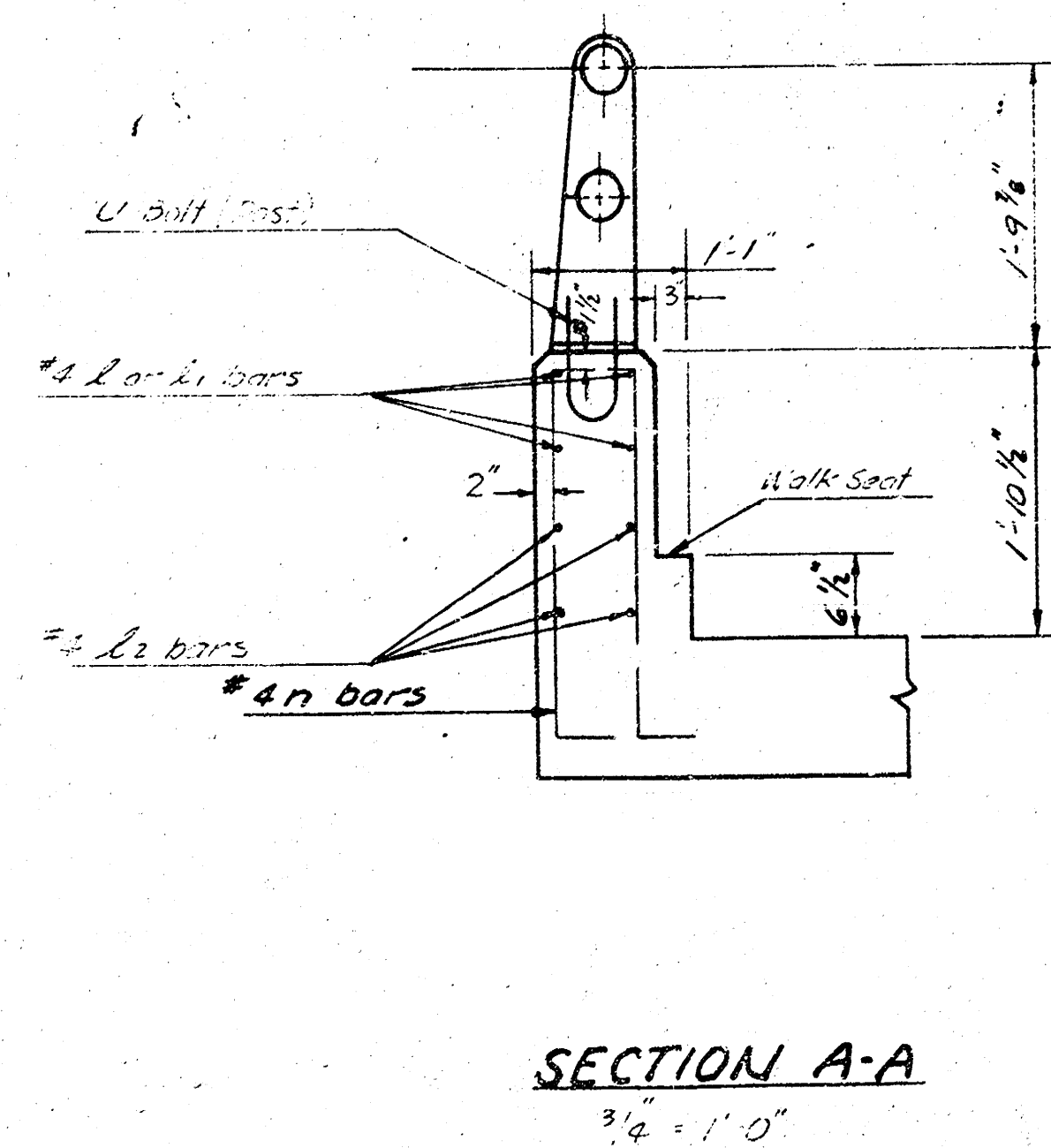
3-10x16' R.C.B.C. OVER DRY CREEK

PROJ. No. DAKB 577020

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PLAN
3/16" = 1'-0"





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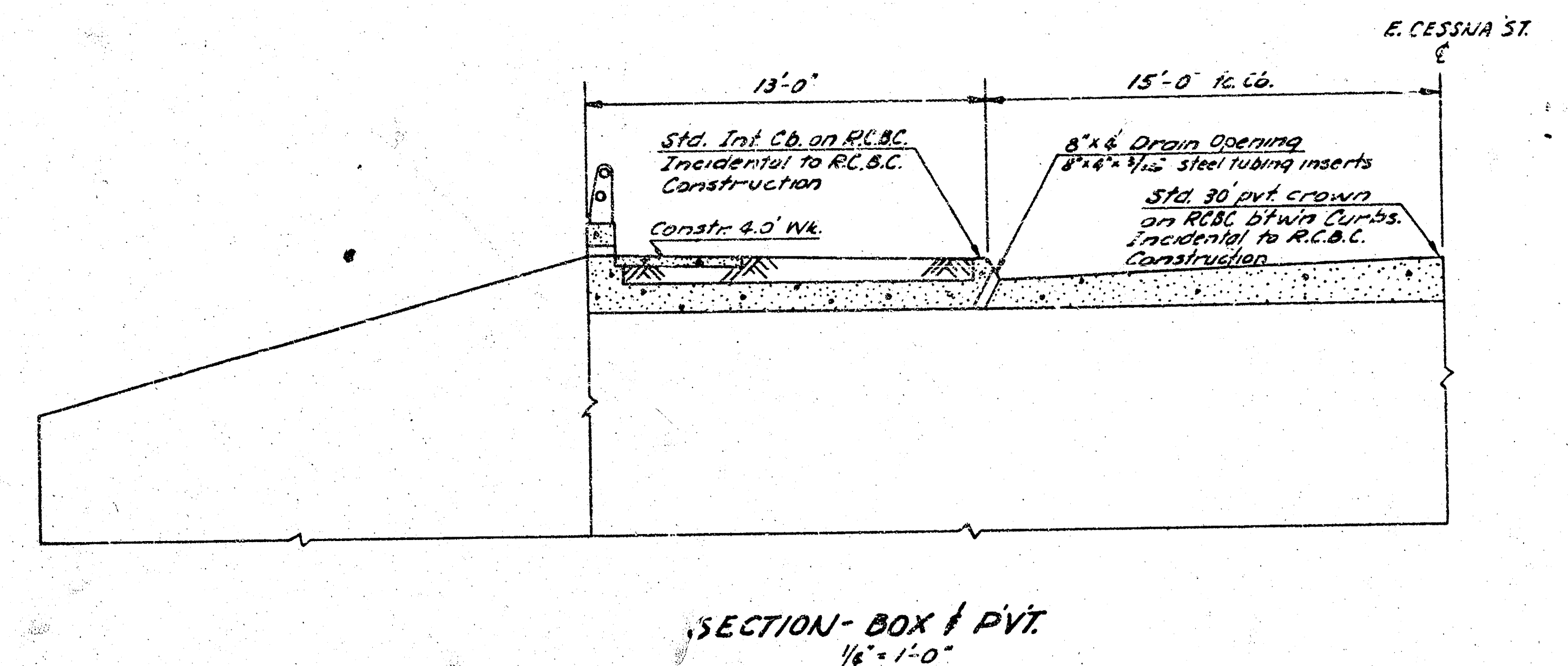
3-10'x16' R.C.B.C.-OVER DRY CREEK
PROV. No. DAKB 577020

BAR SCHEDULE					
BAR	SIZE	LENGTH	NO.	SHAPE	WEIGHT
D	#6	35'-8"	134		7783.03 #
D1	#6	40'-0"	136		8205.61
D2	#6	33'-0"	134		6641.84
D	#6	28'-11"	264		5100.10
C	#6	29'-0"	4		77.79
D1	#6	29'-0"	4		154.38
D2	#6	32'-0"	24		53.33
D	#6	12'-7 1/2"	196		3718.17
D1	#6	7'-9"	36		468.85
E	#6	35'-0"	4		132.58
E1	#6	25'-6"	12		176.39
F	#6	3'-11"	52		136.17
Q	#5	3'-0"	8		25.08
N	#6	15'-0"	16		266.20
N1	#6	8'-6"	4		22.71
N2	#6	18'-9"	8		78.82
N3	#6	24'-0"	52		859.72
N4	#6	9'-6"	8		49.86
N5	#6	20'-0"	4		55.66
N6	#6	27'-2"	52		943.78
K	#6	2'-6"	52		81.93
L	#6	15'-11"	8		85.08
L1	#6	12'-11"	8		70.64
L2	#6	33'-11"	8		74.78
N	#6	6'-0"	44		176.35
S	#5	3'-7"	68		253.91
Q	#7	3'-0"	52		531.84
T	#7	7'-6 1/2"	100		561.18
V	#6	13'-10"	136		2825.08
V1	#6	3'-0"	284		1278.21
V2	#6	15'-7"	284		6445.93
V3	#7	12'-6"	12		306.60
V4	#7	13'-6"	8		220.75
V5	#7	14'-6"	12		355.64
V6	#7	15'-6"	20		633.62
V7	#7	12'-6"	12		306.60
V8	#7	10'-6"	12		252.54
V9	#7	6'-6"	52		640.87
V11	#7	8'-6"	24		416.98
V12	#7	12'-3"	24		146.39
V14	#6	13'-9"	36		330.26
V16	#6	7'-6"	40		418.16
V17	#5	7'-0"	8		58.21
Q1	#5	4'-0"	8		33.38
M	#5	33'-9"	4		180.81

BILL OF MATERIALS			
ITEM	QUANTITY	UNIT	
Class A AE Concrete (Culvert)	405.1	C.Y.	
Reinforcing Steel (Culvert)	53,480	LBS	
Hand Excavation (Culvert)	20	C.Y.	
Aluminum Handrail (Culvert)	67	L.F.	
Class A Concrete - Seal course (Culvert)	17	C.Y.	
Excavation	603	C.Y.	
Borrow	935	C.Y.	
Compacted Fill	462	C.Y.	

Lump Sum

Bid Items



NOTES: Aluminum Handrail
 Aluminum posts shall be Reynolds Aluminum Highway Products Bridge Wailing System LR 20944 or equal.
 Top flange rails shall be 3 1/2" O.D. x 3/16" wall tube of 6063-T6 Aluminum.
 Aluminum shims between concrete and post base may be used. The space below posts shall be thoroughly caulked with Alumilastic compound or other approved material.

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3-10'x16' R.C.B.C. - OVER DRY CREEK
 PROJ. NO. DAKB 577020