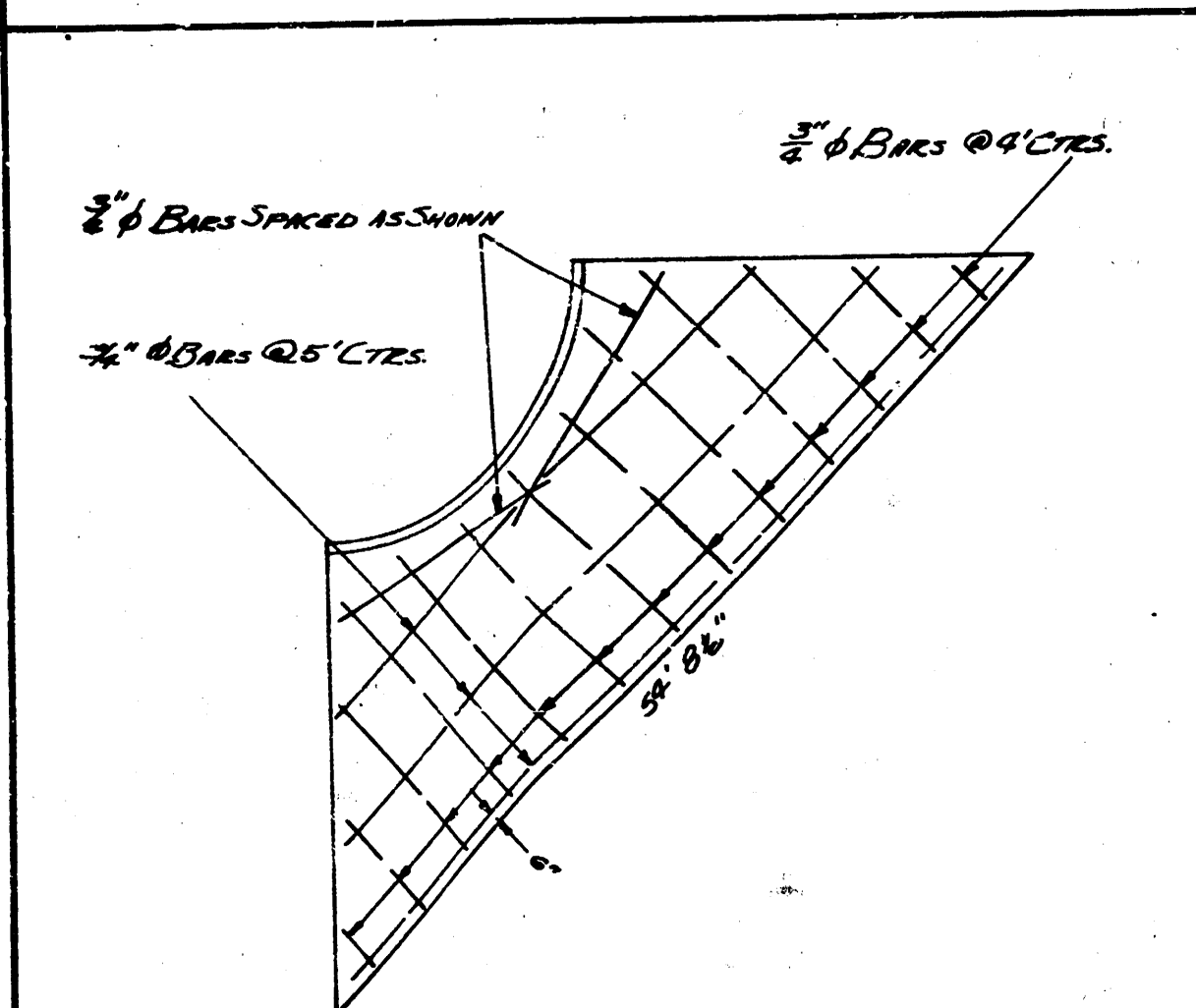


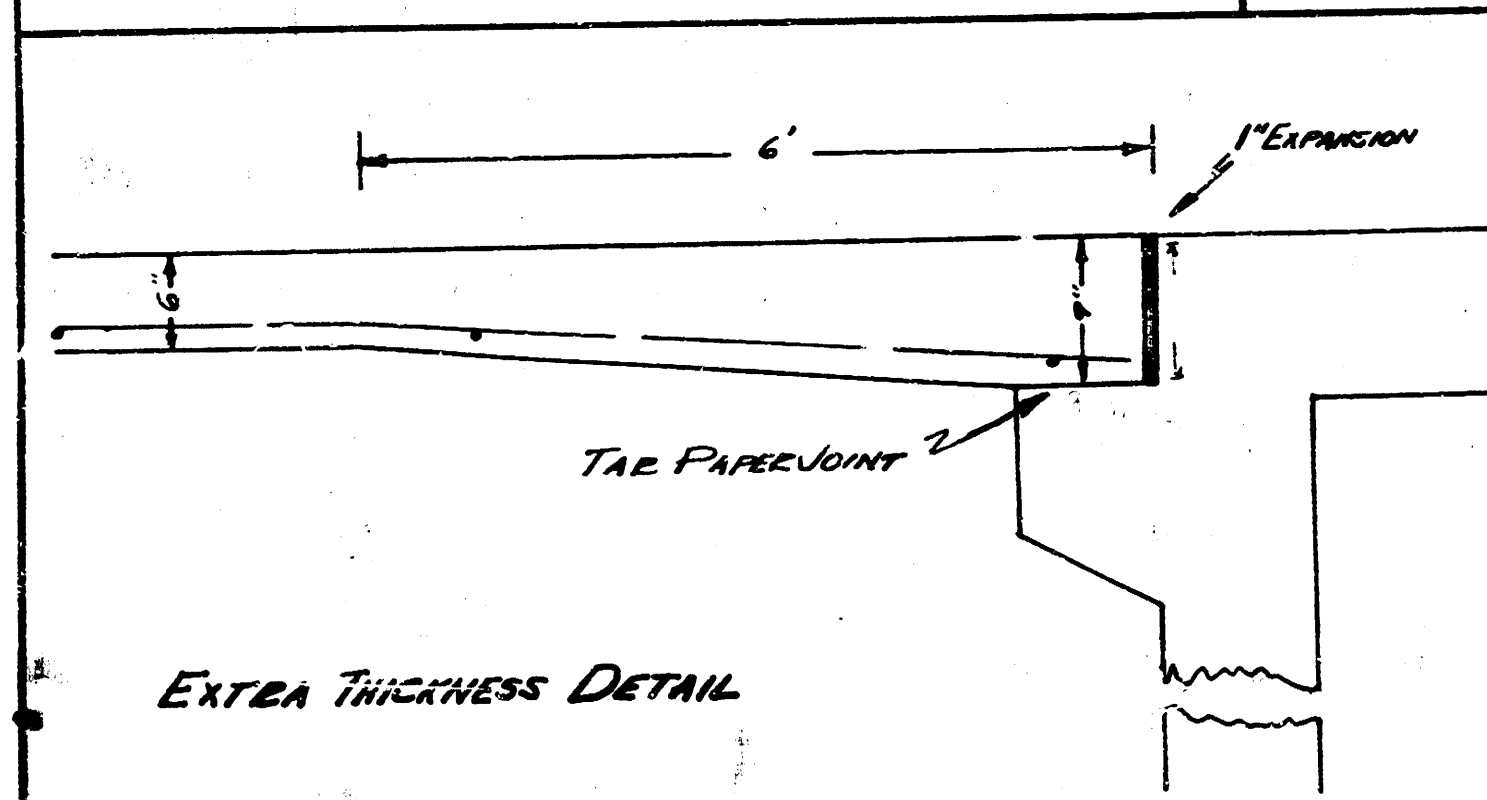
BM: 153.23 Step Bench (nail) SS Pile SW corner Orme & Sylvan Lane.

0+22 End 12" Culvert 22' Lt
0+25 End 12" Culvert 25' Rt

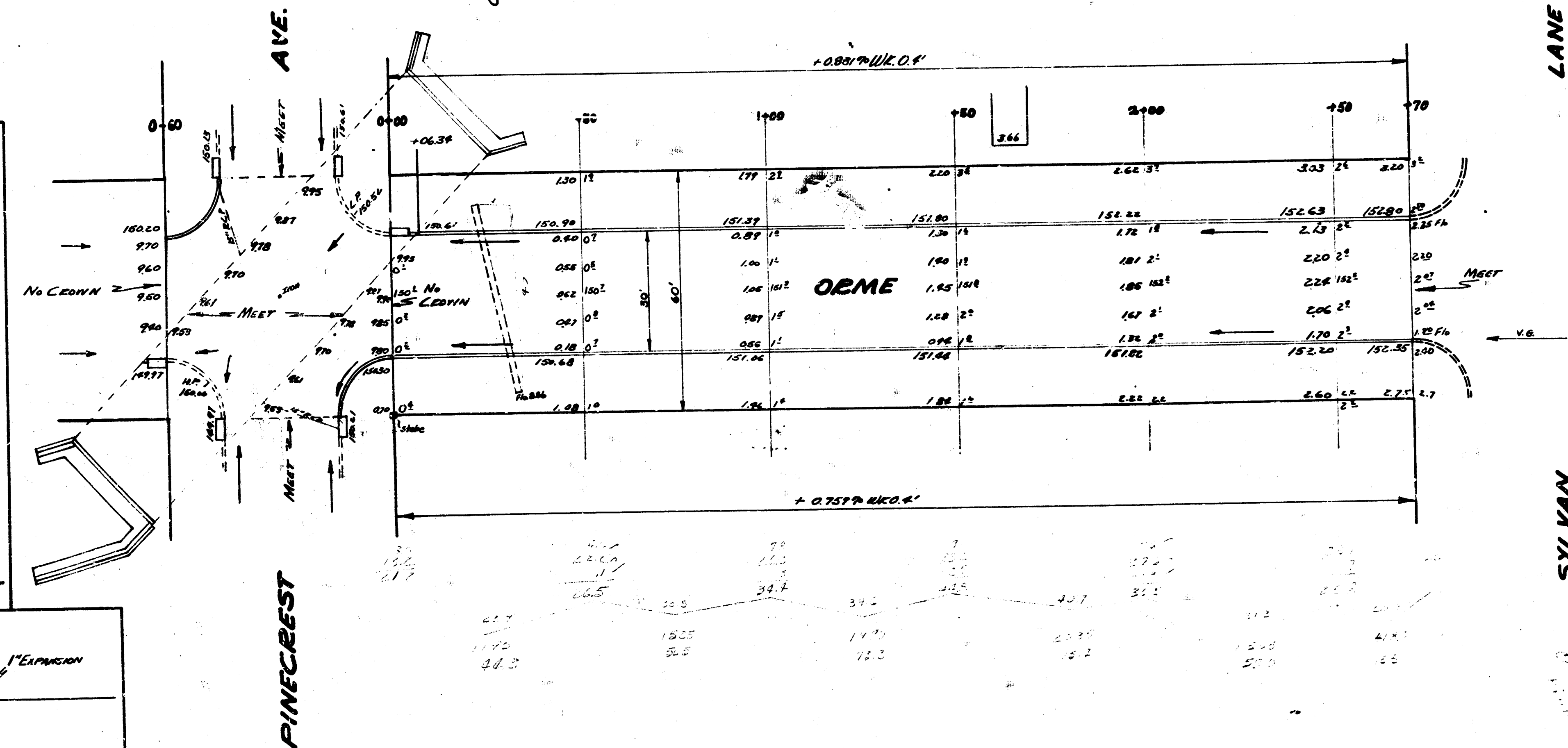
1+64 & 9' Conc Dr 35' Lt



STEEL PATTERN FOR INTERSECTION, BOTH SIDES OF CULVERT

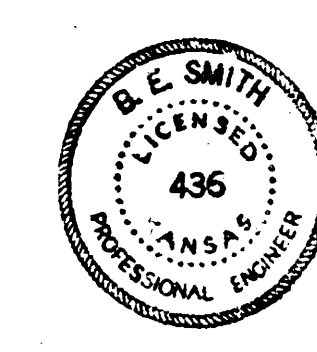


EXTRA THICKNESS DETAIL



LANE

SYLVAN



ORME
W.L. PINECREST TO W.L. SYLVAN LANE
30' CONC. & CURB
CITY OF WICHITA
L.K. WHITE CITY ENGINEER
SEPT. 1952 Proj. No. C11-133

Book 54 13
54 16

60' R/W

Pvt. to be removed
Replace to edge of
box.

AVE.

30'-0"

15' R.C.P.

Remove
Install 24" C.P.

15' R.C.P.

24" C.P.

60' R/W

ORME ST.

60' R/W

15' R.C.P. to be installed by City.
Contractor is to install first
joint of pipe in the box at the time
the barrel of the box is poured.

15' R.C.P.

24" C.P.

30'-0"

PINECREST

Pvt. to be removed
Replace to edge of
box.

60' R/W

REINFORCED CONCRETE BOX CULVERT
PINECREST AND ORME

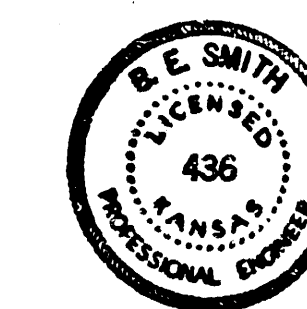
PLAN LAYOUT

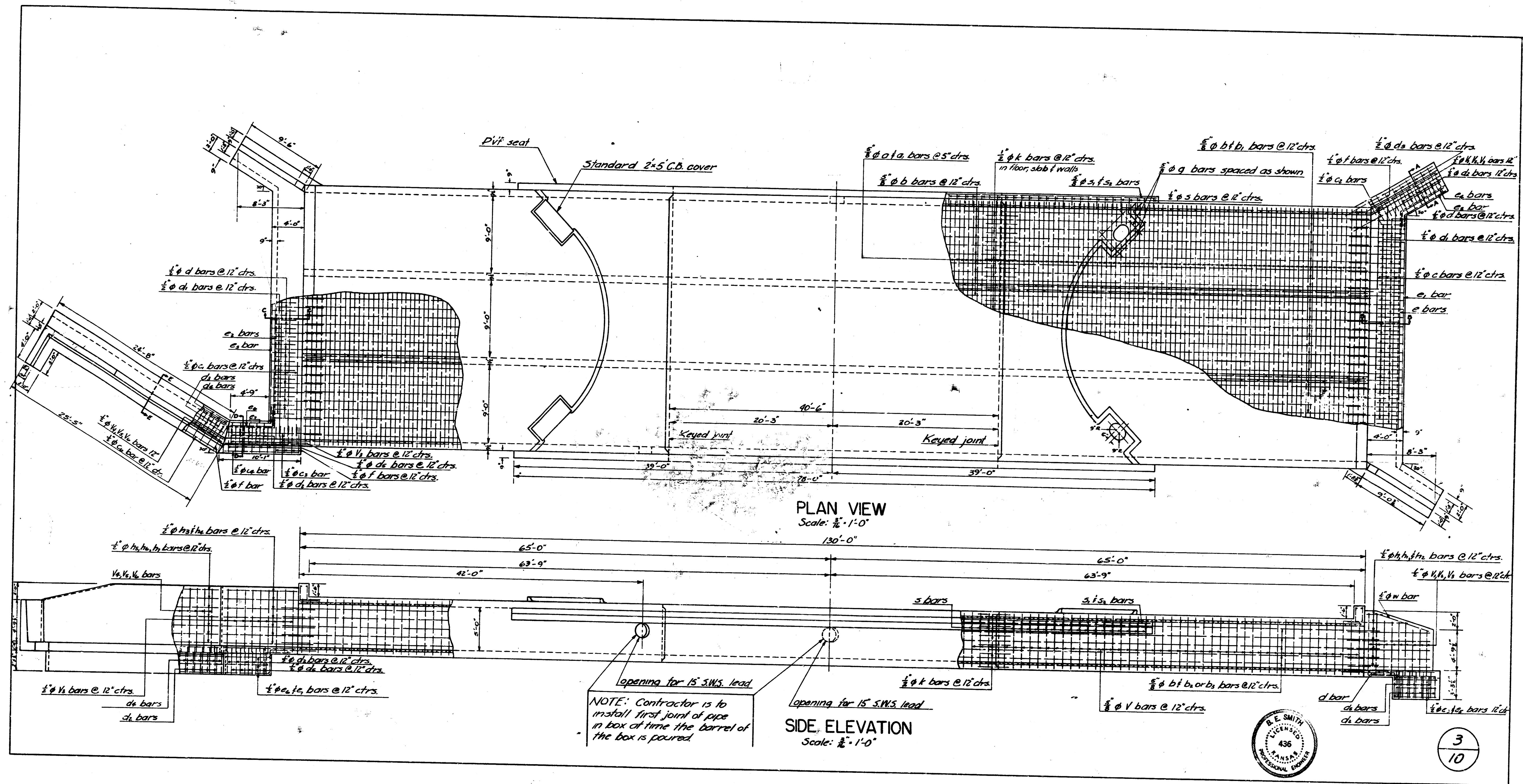
Scale: 1"=10'-0"

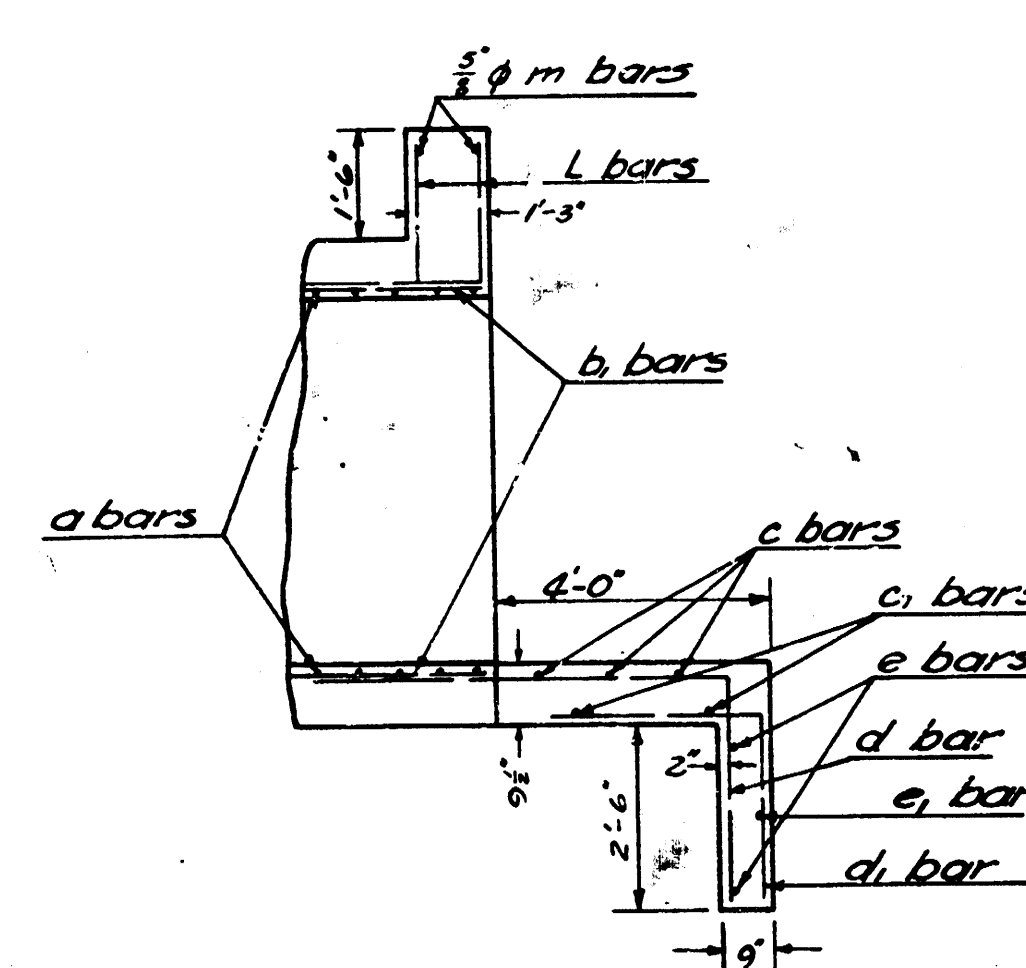
Professional Engineer's Seal: B. E. SMITH, LICENSE NO. 436, P.A.S.E., PROFESSIONAL ENGINEER

Sheet Number: 1/10

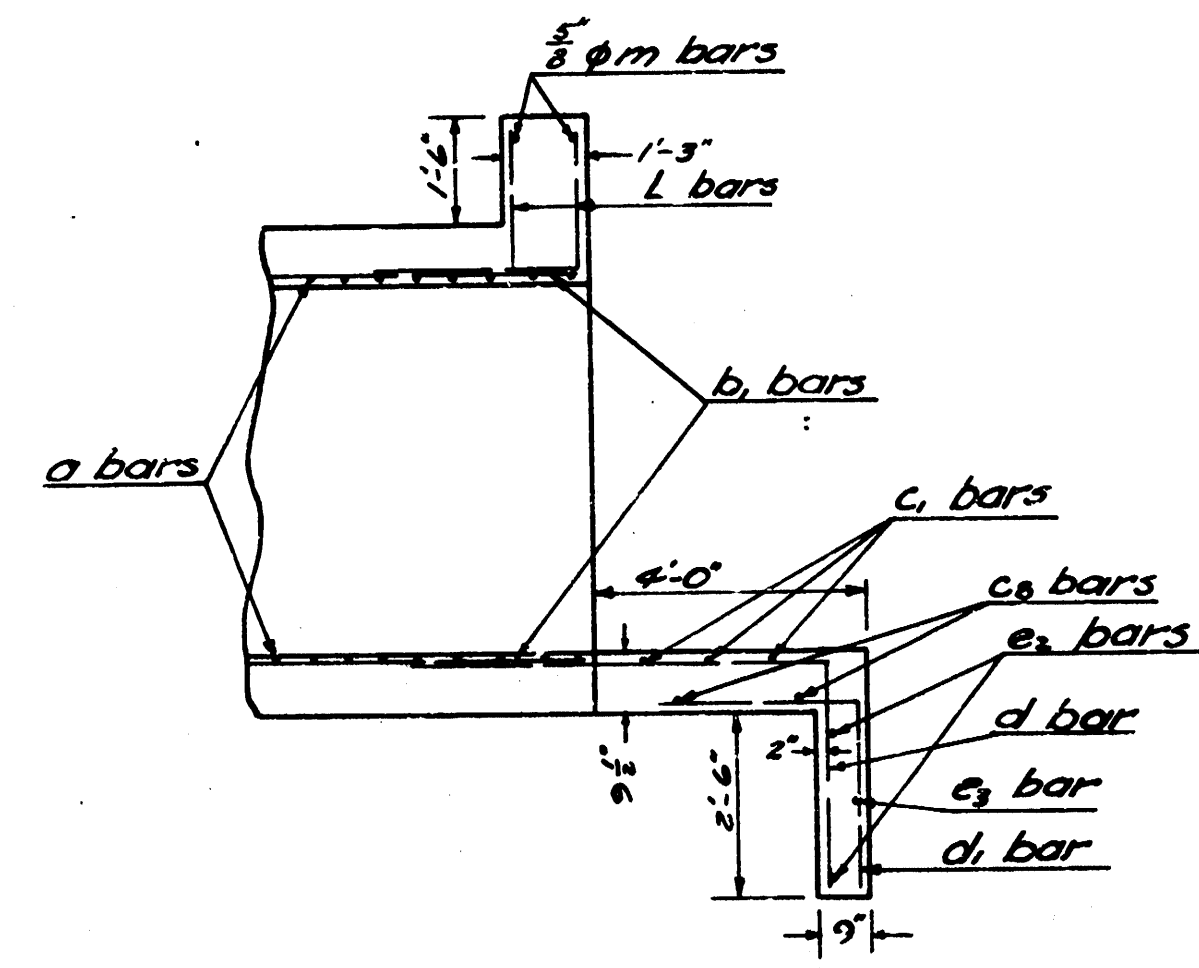
PLAN LAYOUT
Scale: 1"=10'-0"



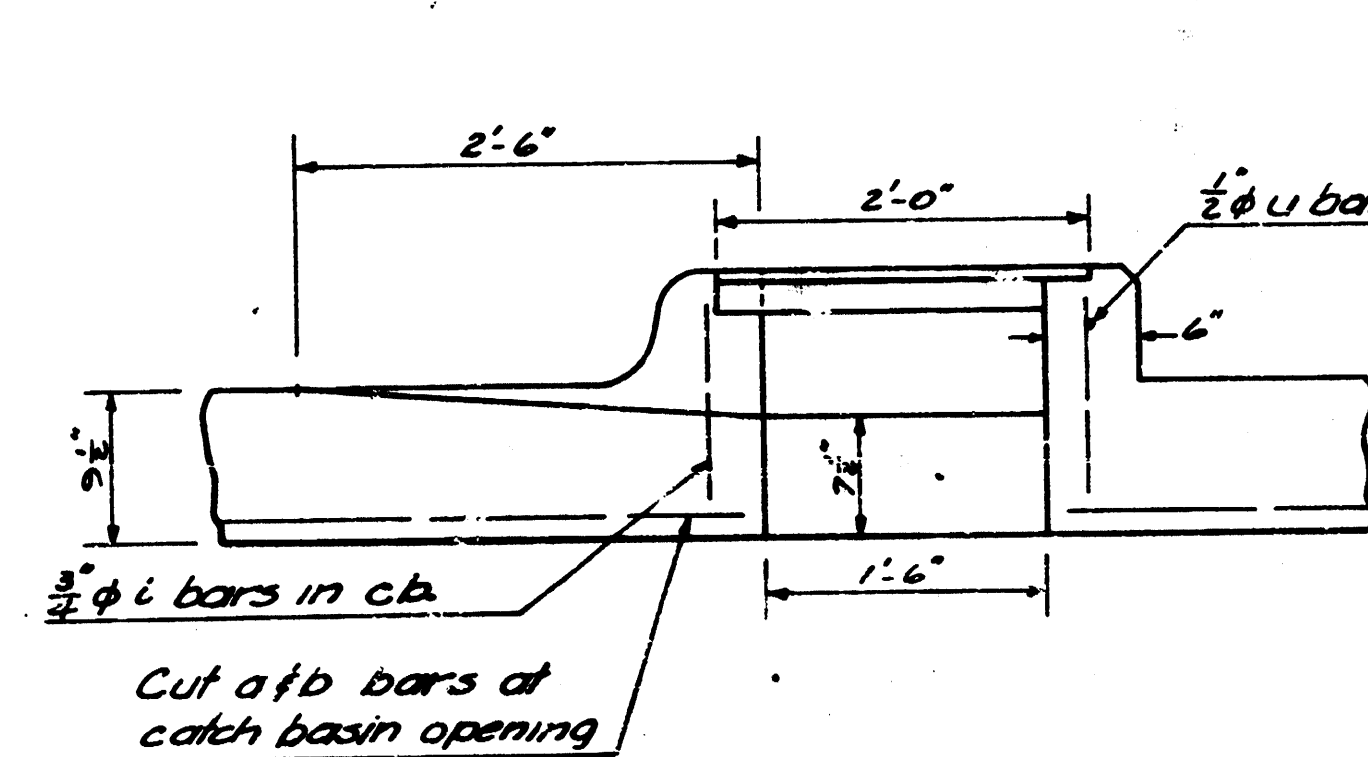




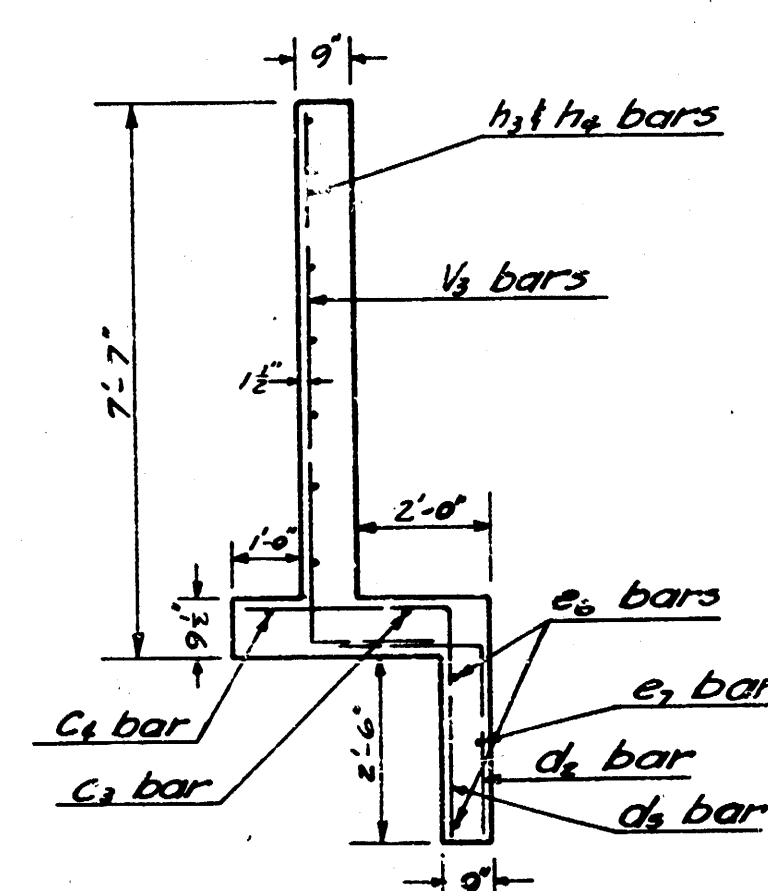
SECTION B-B
Scale: $\frac{1}{8}$ " = 1'-0"



SECTION C-C
Scale: $\frac{1}{8}$ " = 1'-0"

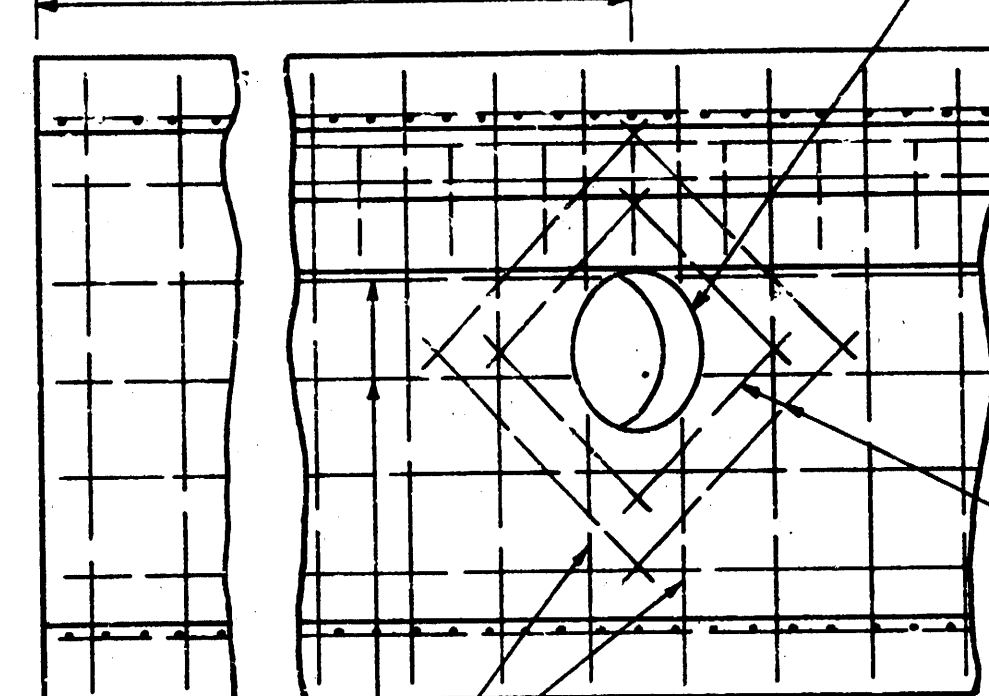


SECTIONS THROUGH C.B.S
Scale: 1" = 1'-0"



SECTION D-D
Scale: $\frac{1}{8}$ " = 1'-0"

End of box to S.W.S. opening
42'-0"

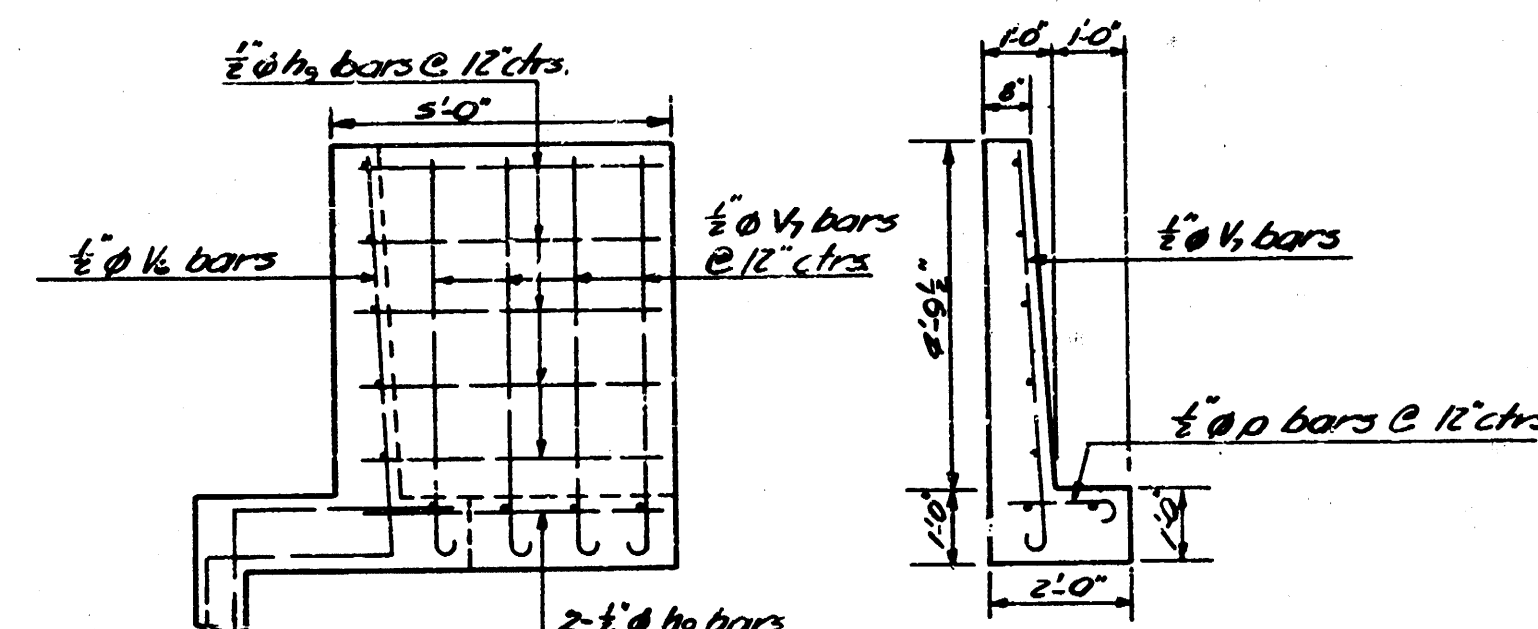


SECTION S.W.S. OPENING E.S. BOX
Scale: $\frac{1}{8}$ " = 1'-0"

Opening for 15" S.W.S. lead from C.B. at S.E.
cor. Orme & Pinecrest. F.L. of pipe is to
be 2'-1 1/2" from floor of box.

$\frac{1}{8}$ " ϕ o/a, bars spaced as shown

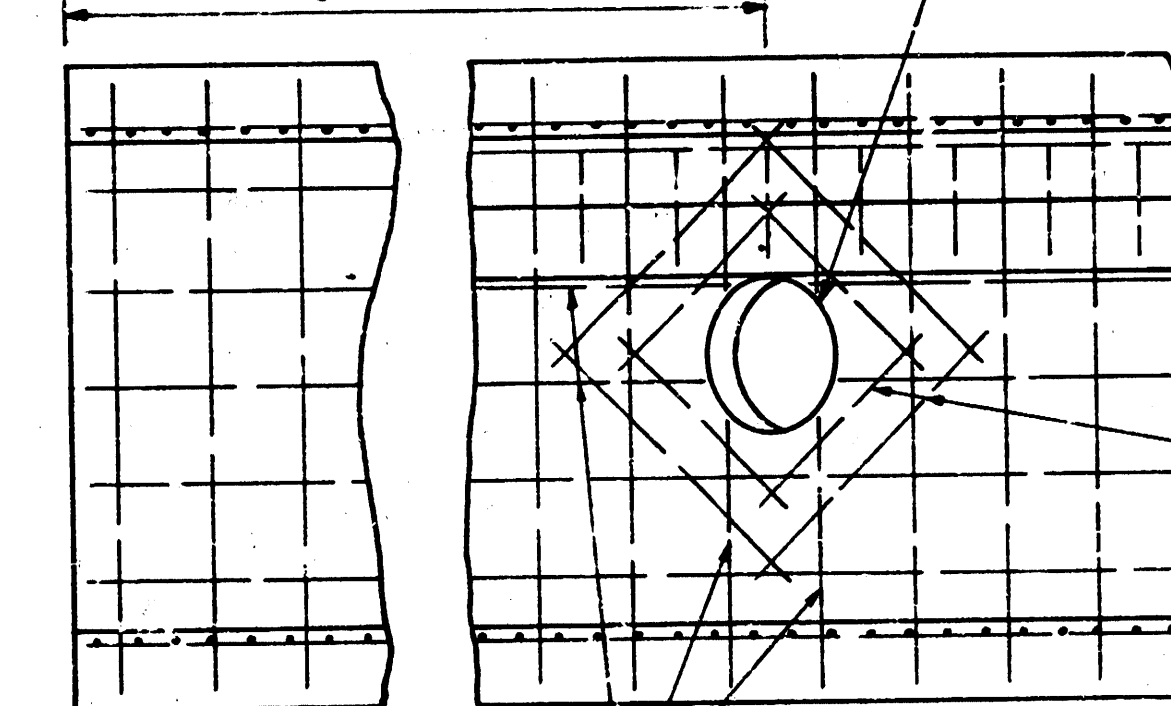
Cut at b bars at opening



LONG SECT. OF EXTENSION
AT END OF RET. WALL
Scale: $\frac{1}{8}$ " = 1'-0"

CROSS SECT. OF
EXTENSION

End of box to S.W.S. opening
65'-0"



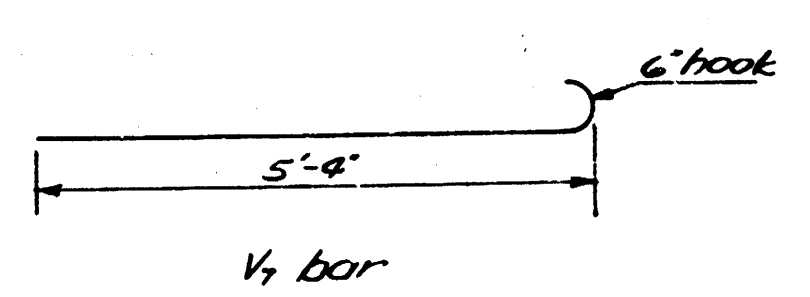
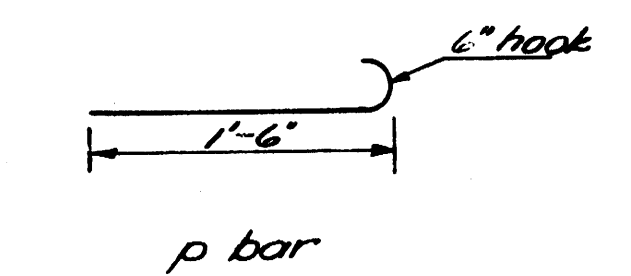
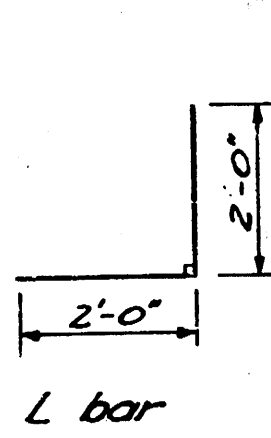
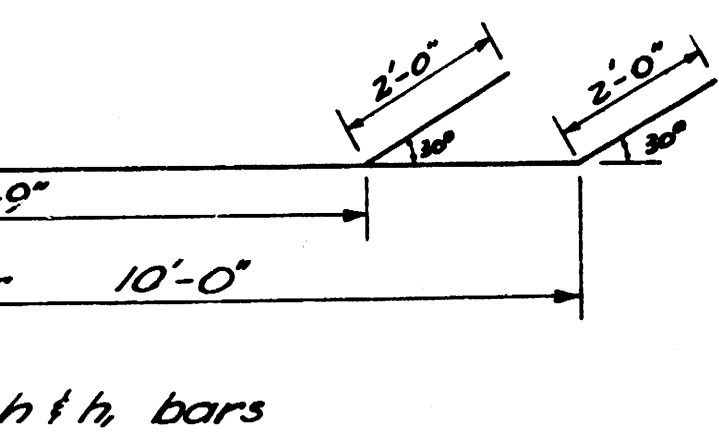
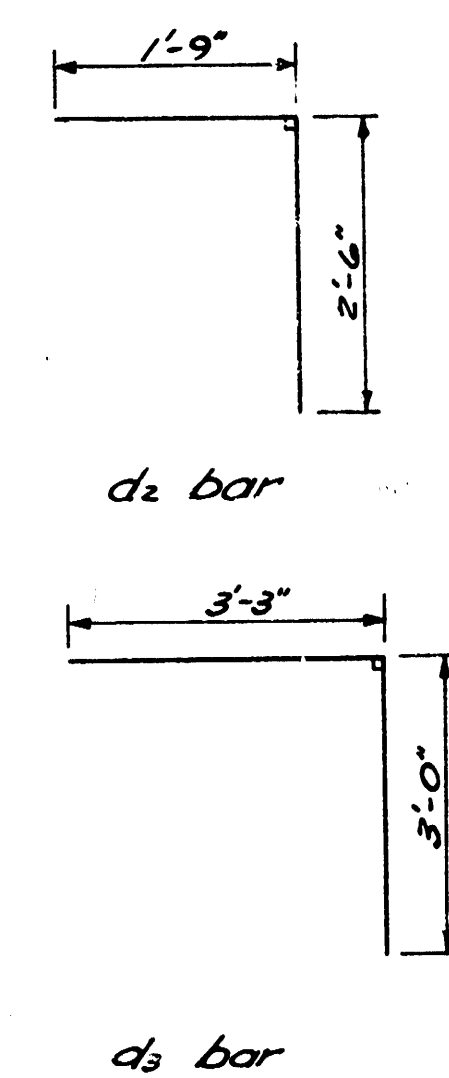
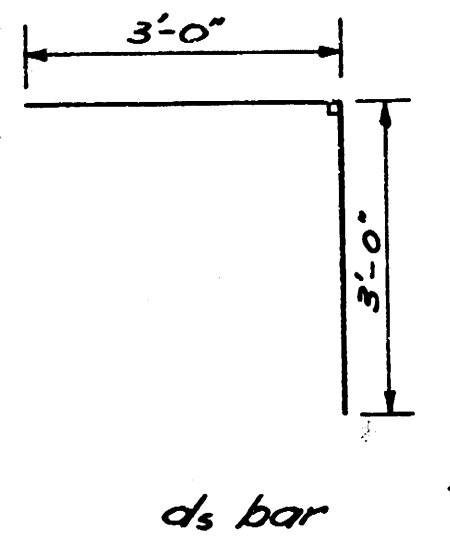
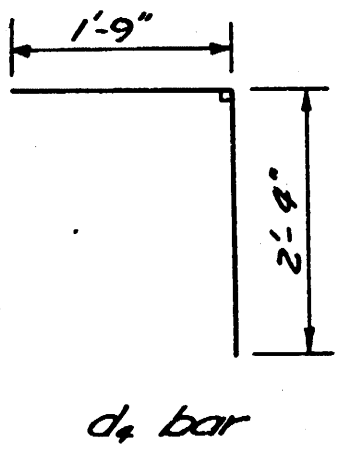
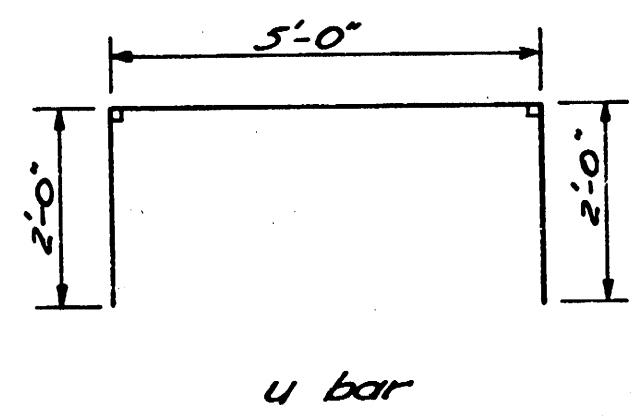
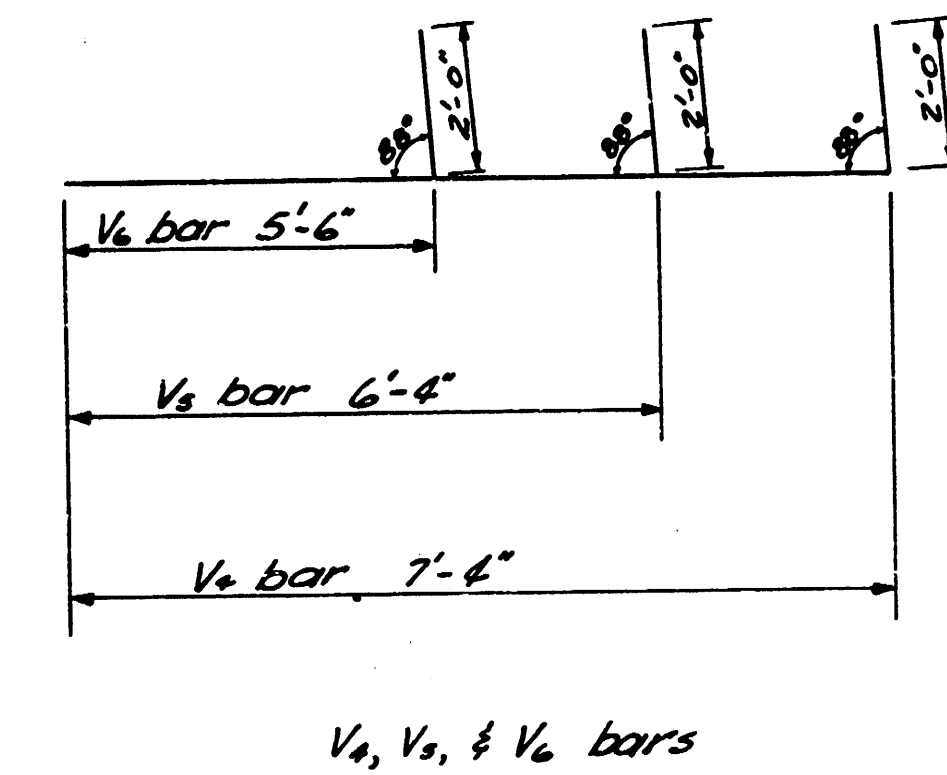
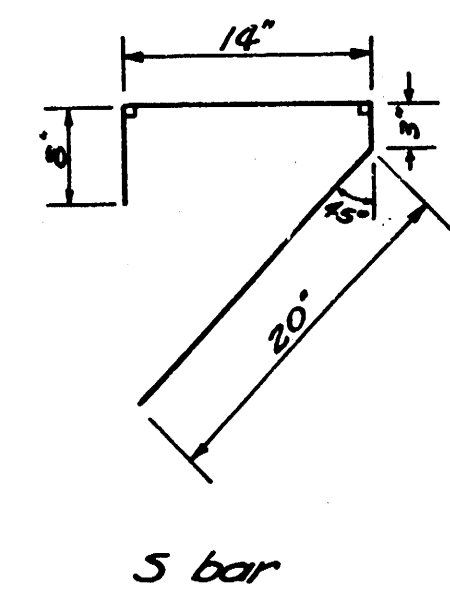
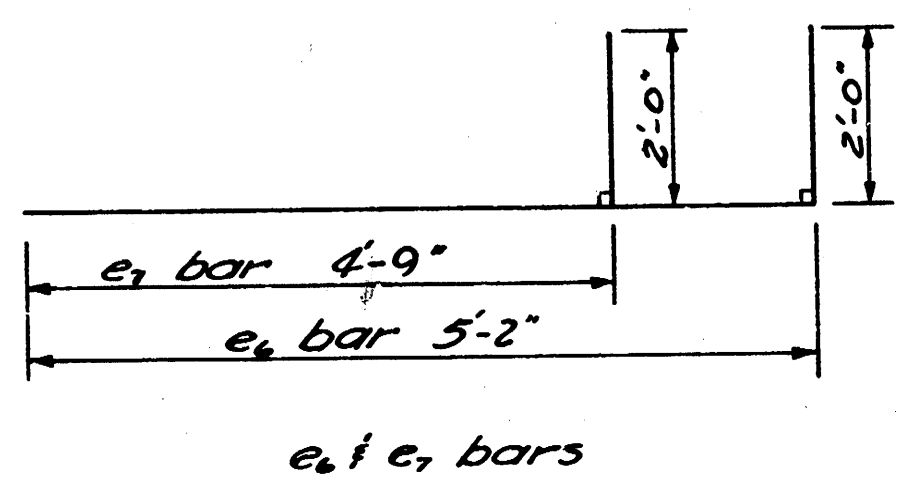
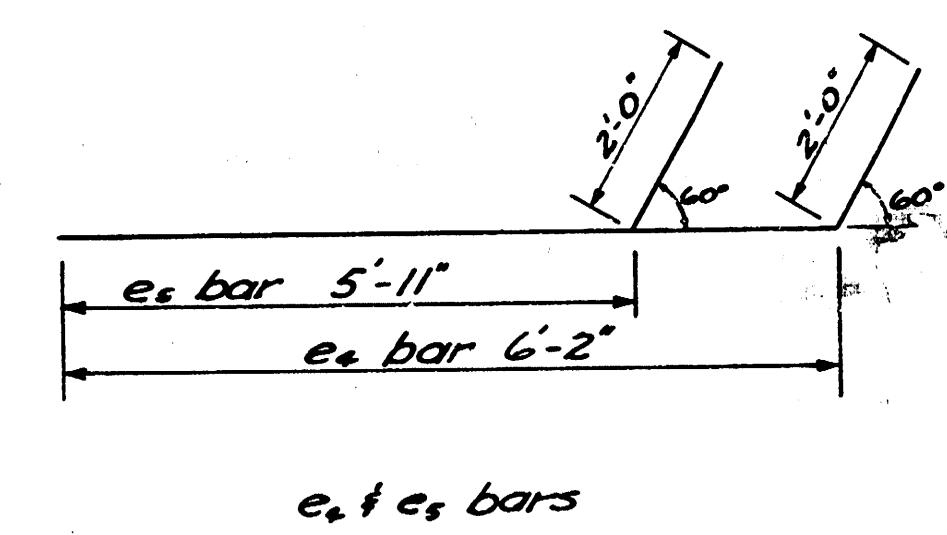
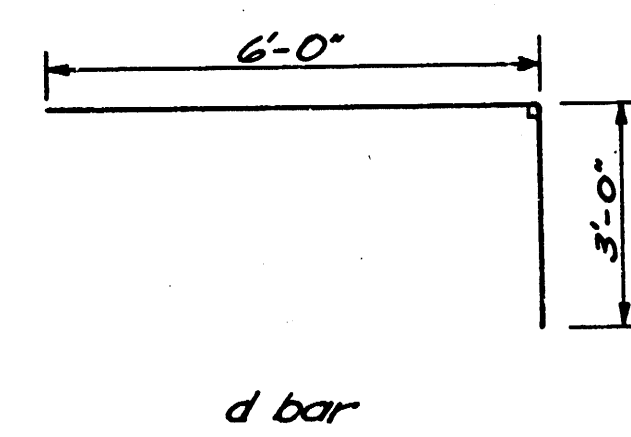
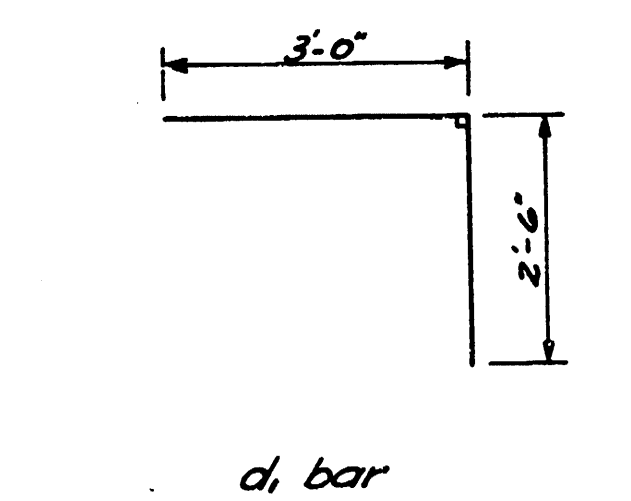
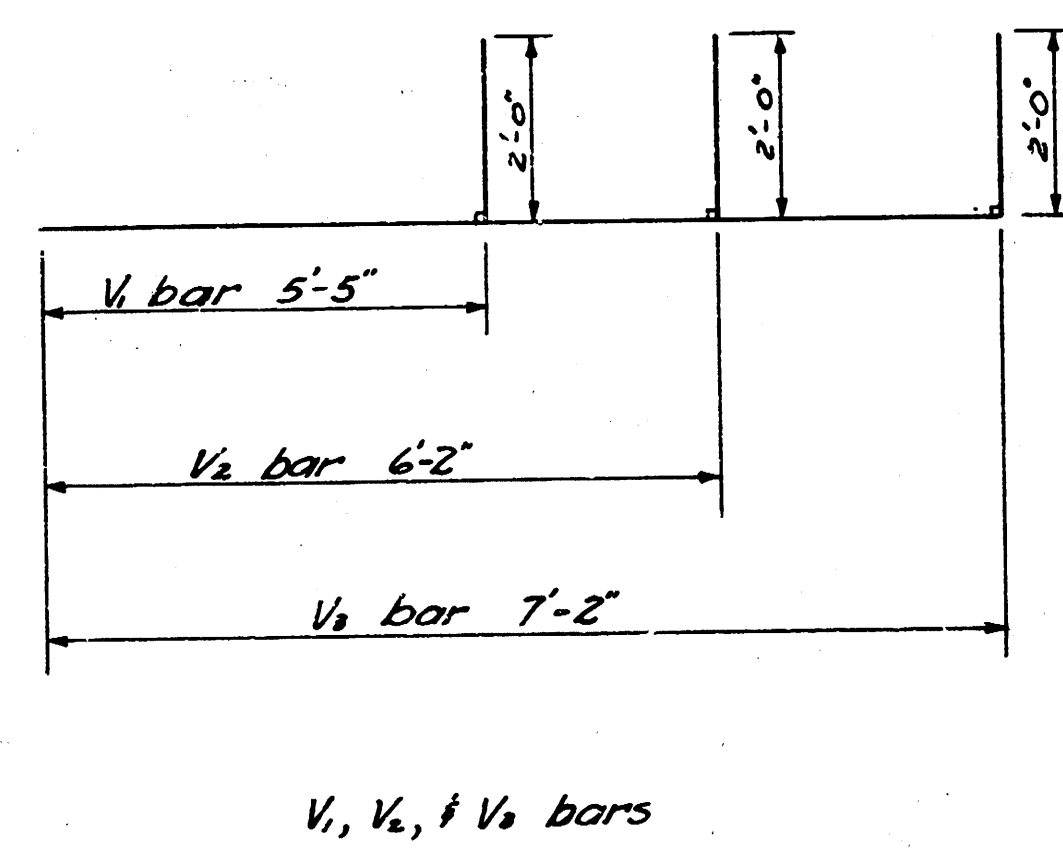
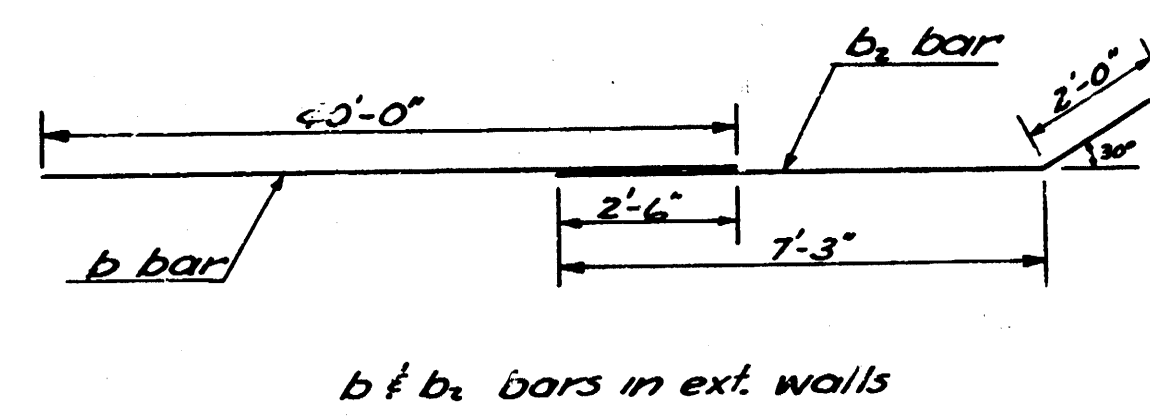
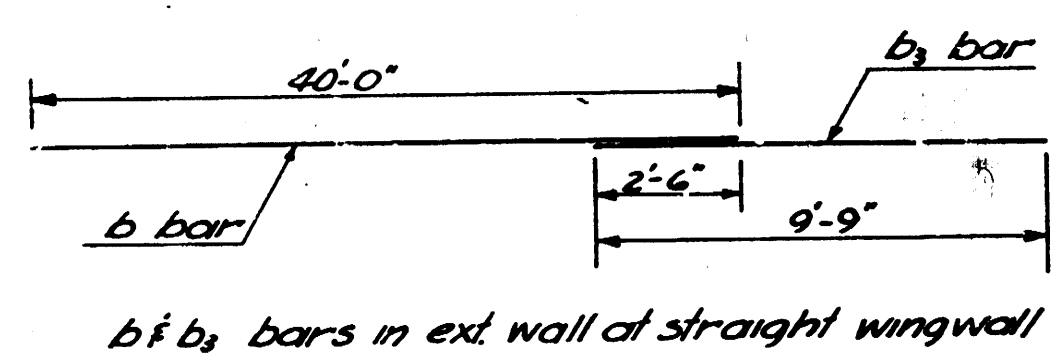
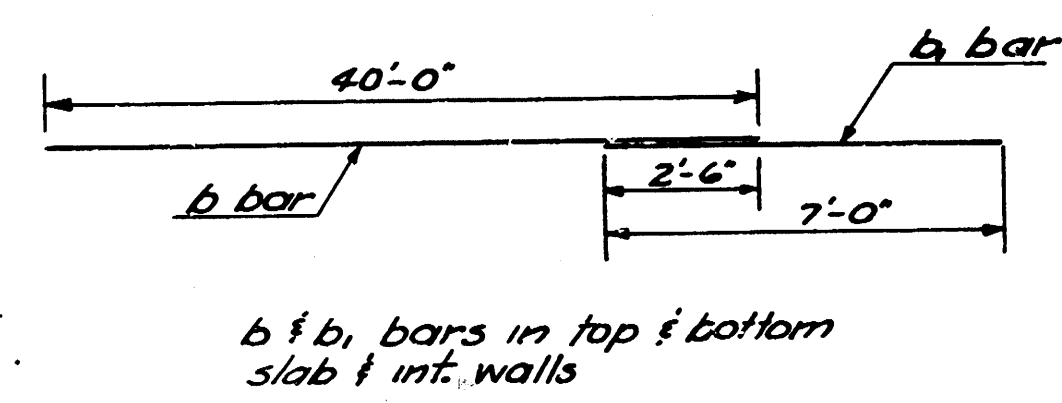
SECTION S.W.S. OPENING W.S. OF BOX
Scale: $\frac{1}{8}$ " = 1'-0"

Opening for 15" S.W.S. lead from C.B. at N.W.
cor. Orme & Pinecrest. F.L. of pipe is to
be 2'-1 1/2" from floor of box.

$\frac{1}{8}$ " ϕ o/a, bars spaced as shown

Cut at b bars at opening





BAR BENDING DIAGRAMS
No Scale



STEEL SCHEDULE									
BAR	SIZE	NO.	LENGTH	SHAPE	BAR	SIZE	NO.	LENGTH	SHAPE
C	#8	62	20'-10"		F	#8	14	3'-0"	
D	#8	124	6'-0"		G	#8	16	4'-0"	
E	#8	14	40'-0"		H	#8	15	12'-0"	
B	#8	14	7'-0"		I	#8	3	6'-9"	
B	#8	15	9'-3"		J	#8	3	1'-9"	
D	#8	5	0'-9"		K	#8	6	11'-10"	
C	#8	3	30'-3"		L	#8	1	9'-2"	
C	#8	3	29'-0"		M	#8	5	25'-0"	
C	#8	6	12'-0"		N	#8	1	21'-0"	
C	#8	1	11'-6"		O	#8	2	16'-0"	
C	#8	1	9'-6"		P	#8	2	10'-0"	
C	#8	3	28'-5"		Q	#8	36	1'-0"	
C	#8	1	25'-0"		R	#8	144	4'-0"	
C	#8	2	26'-0"		S	#8	54	4'-0"	
C	#8	2	26'-0"		T	#8	4	29'-2"	
D	#8	54	9'-0"		U	#8	8	2'-6"	
D	#8	54	5'-6"		V	#8	8	3'-6"	
D	#8	23	4'-3"		W	#8	150	3'-9"	
D	#8	24	6'-3"		X	#8	2	40'-0"	
D	#8	25	4'-1"		Y	#8	4	18'-5"	
D	#8	26	6'-0"		Z	#8	4	9'-0"	
E	#8	2	29'-3"		AA	#8	528	6'-0"	
E	#8	1	28'-7"		AB	#8	9	7'-5"	
E	#8	2	27'-5"		AC	#8	12	6'-2"	
E	#8	1	26'-10"		AD	#8	15	9'-2"	
E	#8	4	8'-2"		AE	#8	16	9'-4"	
E	#8	3	7'-11"		AF	#8	5	8'-4"	
E	#8	2	7'-2"		AG	#8	4	7'-6"	
E	#8	1	6'-9"		AH	#8	4	5'-0"	
E	#8	3	28'-5"		AI	#8	3	6'-6"	
					AJ	#8	7	4'-6"	
					AK	#8	4	2'-0"	

BILL OF MATERIALS		
ITEM	QUANTITY	UNITS
Class A Conc.	348.5	cu yds.
General Excavation	890	cu yds.
Compacted Backfill	227	cu yds.
Hand Excavation	23	cu yds.
Rein. Steel	45,675	Lbs.
Integral Curb	75	Lin. Ft.
4" Tile	2	Lin. Ft.
Catch Basins	2	
Catch Basin Covers	4	
15" RCP	46	Lin. Ft.
6" Conc. Pkt removed	61	Sq. Yds.
6" Conc. Pkt replaced	54	Sq. Yds.
Removal of exist. culvert	-	

Pad - 185
 E. 110
 L. 100
 S. 100
 W. 100
 N. 100
 100

2' Cent

1' Cent

Box Culvert Orme
3-9'X5'X130'

12-21-53

61.8'-2" = 48'-12"
 3.17'-11" = 21'-33"
 2.17'-2" = 14'-4"
 1.17'-9" = 6'-9"
 2.17'-5" = 72'-15"
 1.17'-3" = 42'-0"
 1.17'-2" = 180'-0"
 2.17'-2" = 24'-27"
 3.17'-9" = 3'-27"
 4.17'-10" = 60'-00"
 1.17'-2" = 9'-2"
 2.17'-0" = 135'-0"
 1.17'-0" = 21'-0"
 2.17'-0" = 32'-0"
 3.17'-0" = 20'-0"
 1.17'-0" = 32'-0"
 2.17'-0" = 210'-0"
 1.17'-0" = 474'-1422"
 2.17'-0" = 80'-0"
 3.17'-5" = 72'-20"
 4.17'-1" = 25'-0"
 5.17'-1" = 314'-2096"
 6.17'-1" = 43'-45"
 7.17'-1" = 96'-24"
 8.17'-1" = 134'-30"
 9.17'-1" = 147'-64"
 10.17'-1" = 42'-20"
 11.17'-1" = 22'-24"
 12.17'-1" = 30'-40"
 13.17'-1" = 24'-18"
 14.17'-1" = 28'-42"
 15.17'-1" = 8'-0"
 16.17'-1" = 162.17711 x 4.69 = 54.510.325
 17.17'-1" = 54.072

622.2 x 29'-10" = 18032' - 6220"
 1244 x 6'-2" = 7464' - 0"
 246 x 4'-0" = 984' - 0"
 144 x 7'-0" = 1008' - 0"
 15 x 9'-3" = 135' - 45"
 5 x 7'-9" = 45' - 45"
 14 x 4'-0" = 56' - 0"
 4 x 2'-2" = 116' - 8"
 8 x 2'-4" = 16' - 48"
 2 x 3'-6" = 34' - 36"
 1047 x 2.5 = 2617.5
 3 x 30'-3" = 90' - 9"
 3 x 29'-0" = 87' - 0"
 6 x 12'-0" = 72' - 0"
 1 x 11'-6" = 11' - 6"
 1 x 7'-0" = 7' - 0"
 3 x 24'-5" = 72' - 15"
 1 x 25'-0" = 25' - 0"
 2 x 28'-0" = 56' - 0"
 2 x 26'-2" = 52' - 0"
 30 x 2'-0" = 60' - 0"
 54 x 5'-0" = 270' - 0"
 23 x 4'-3" = 92' - 48"
 24 x 4'-0" = 96' - 0"
 35 x 4'-1" = 140' - 35"
 21 x 2'-0" = 42' - 0"
 2 x 27'-1" = 54' - 6"
 2 x 28'-2" = 56' - 4"
 2 x 27'-5" = 54' - 15"
 1 x 27'-10" = 20' - 10"

(over)