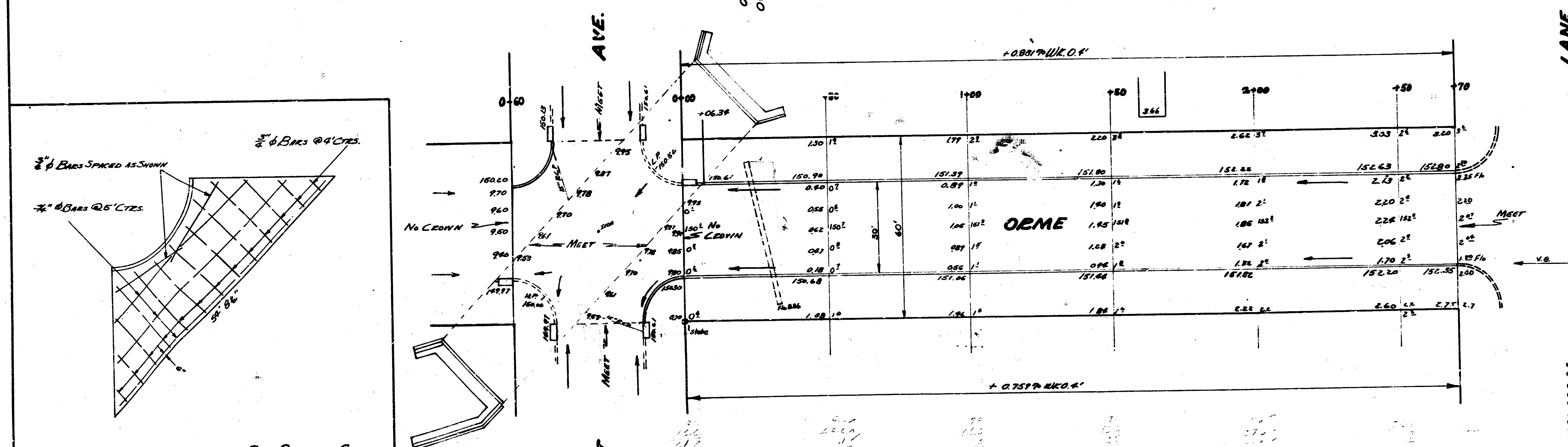


5-4

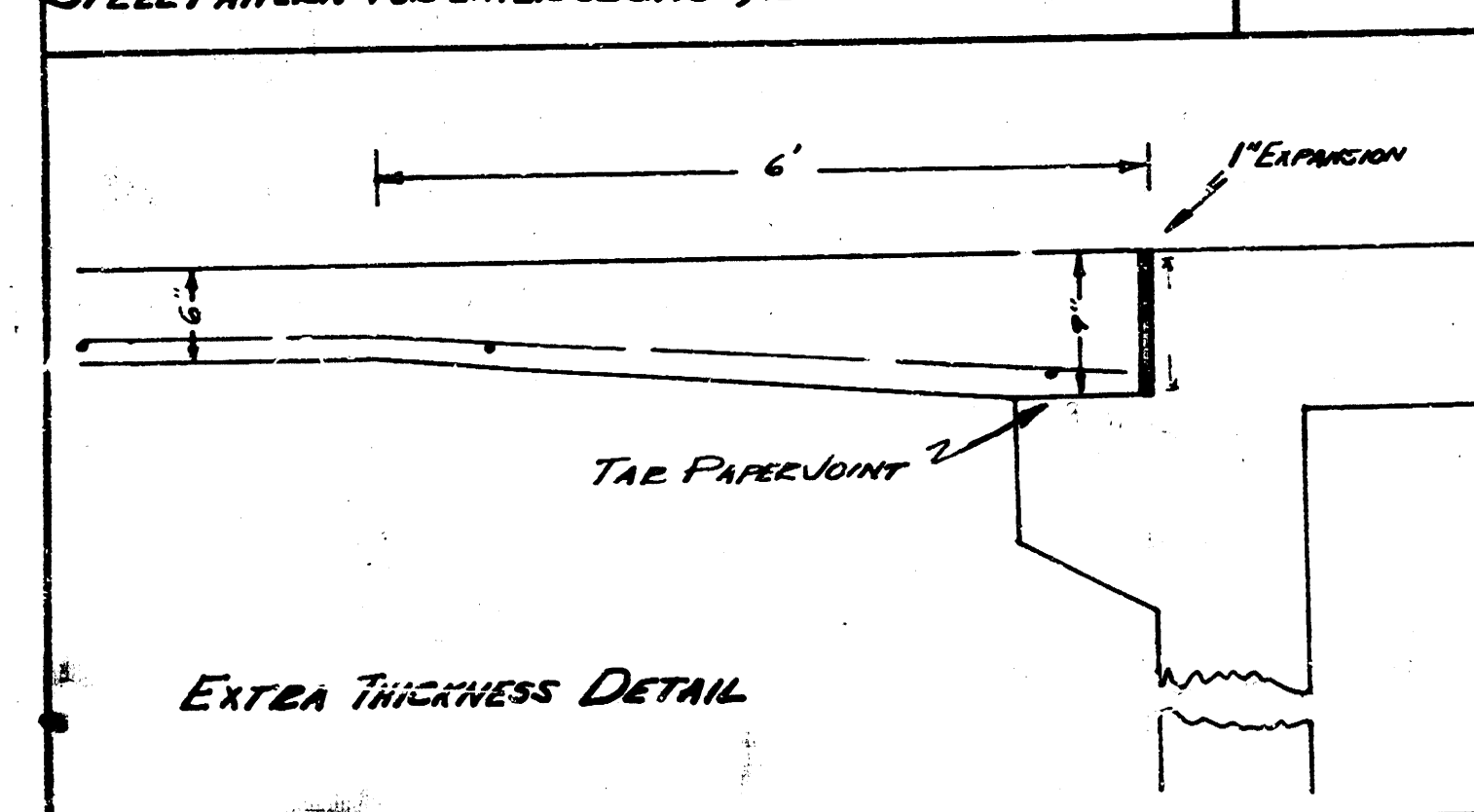


0+22 End 12" Culvert 22' Lt.
0+28 End 12" Culvert 25' Rt.

1+64 @ 9° Conc. Dr 35° Lt.



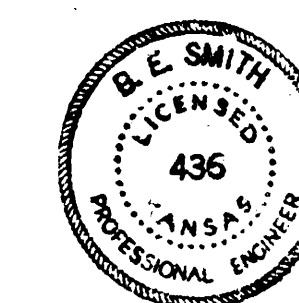
STEEL PATTERN FOR INTERSECTION, BOTH SIDES OF CULVERT



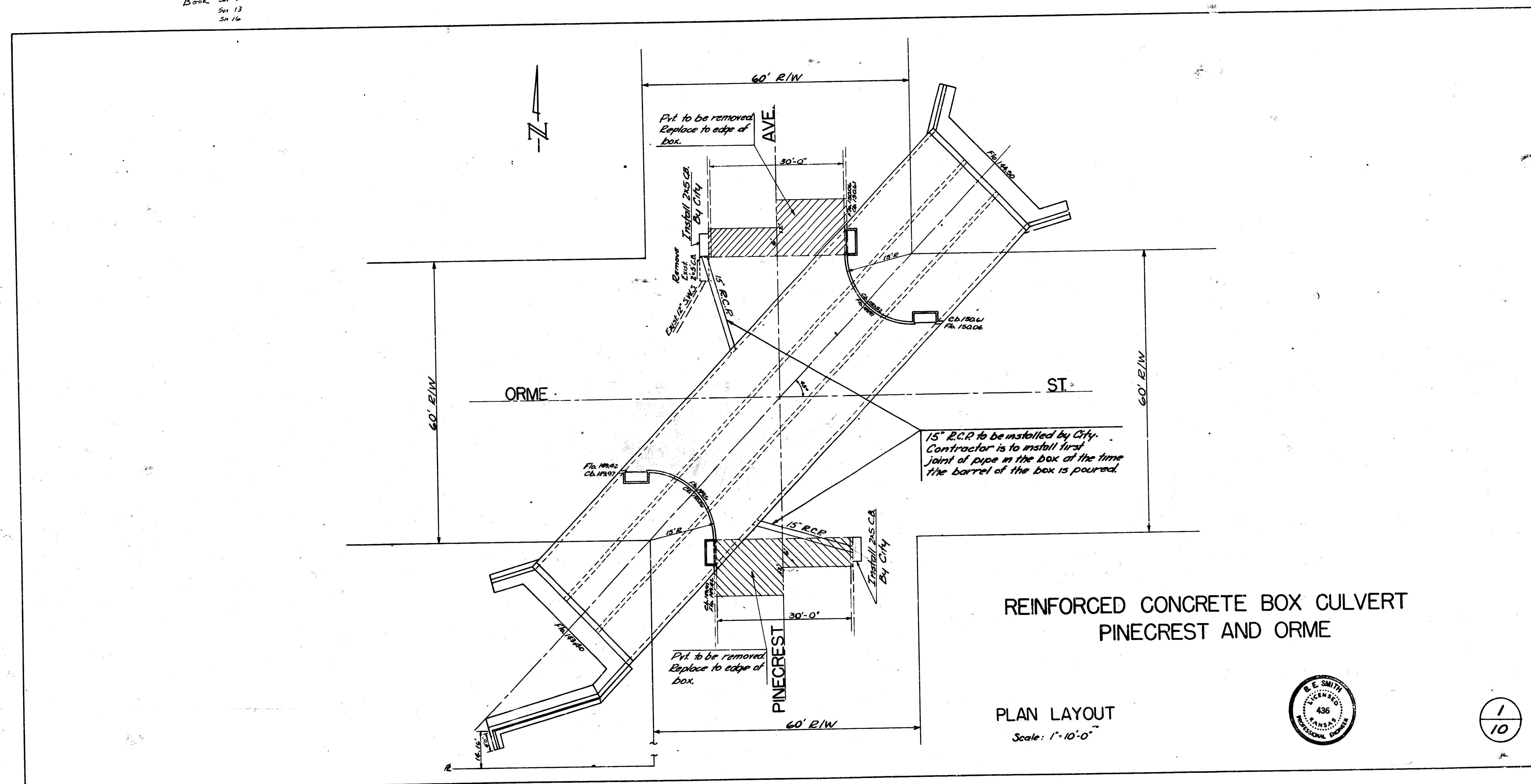
LANE

SY/VAAN

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 S-4
S-13
S-16

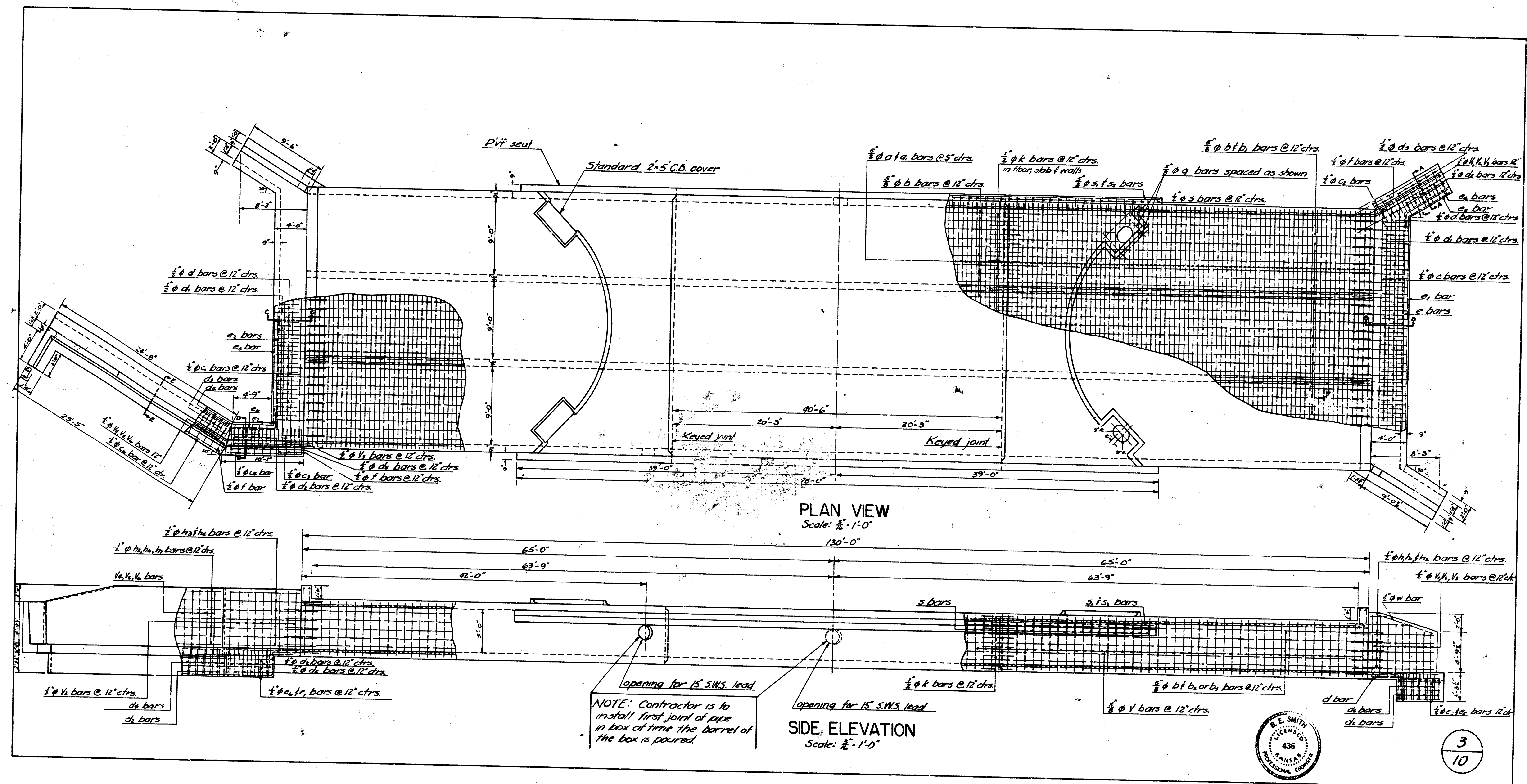


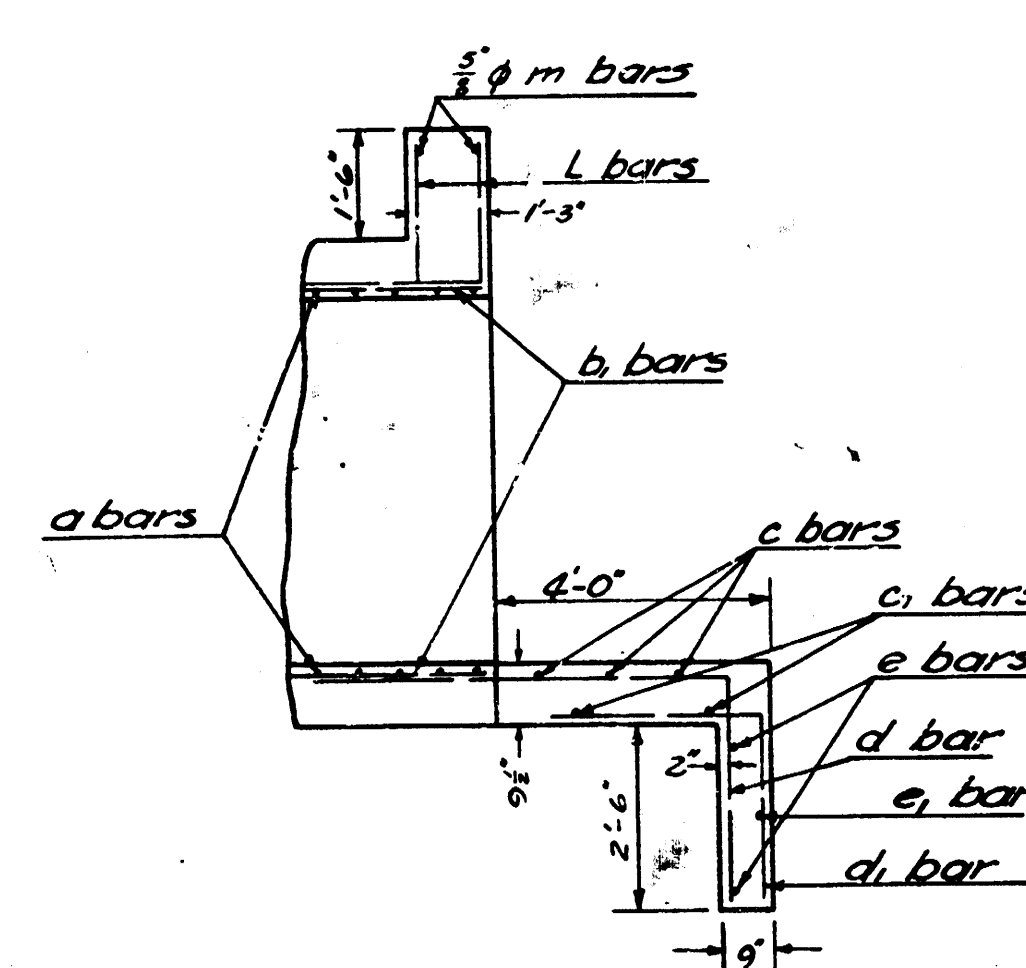
Topog. 516

Drainage at So. End of Box
Scale: 1" = 10'

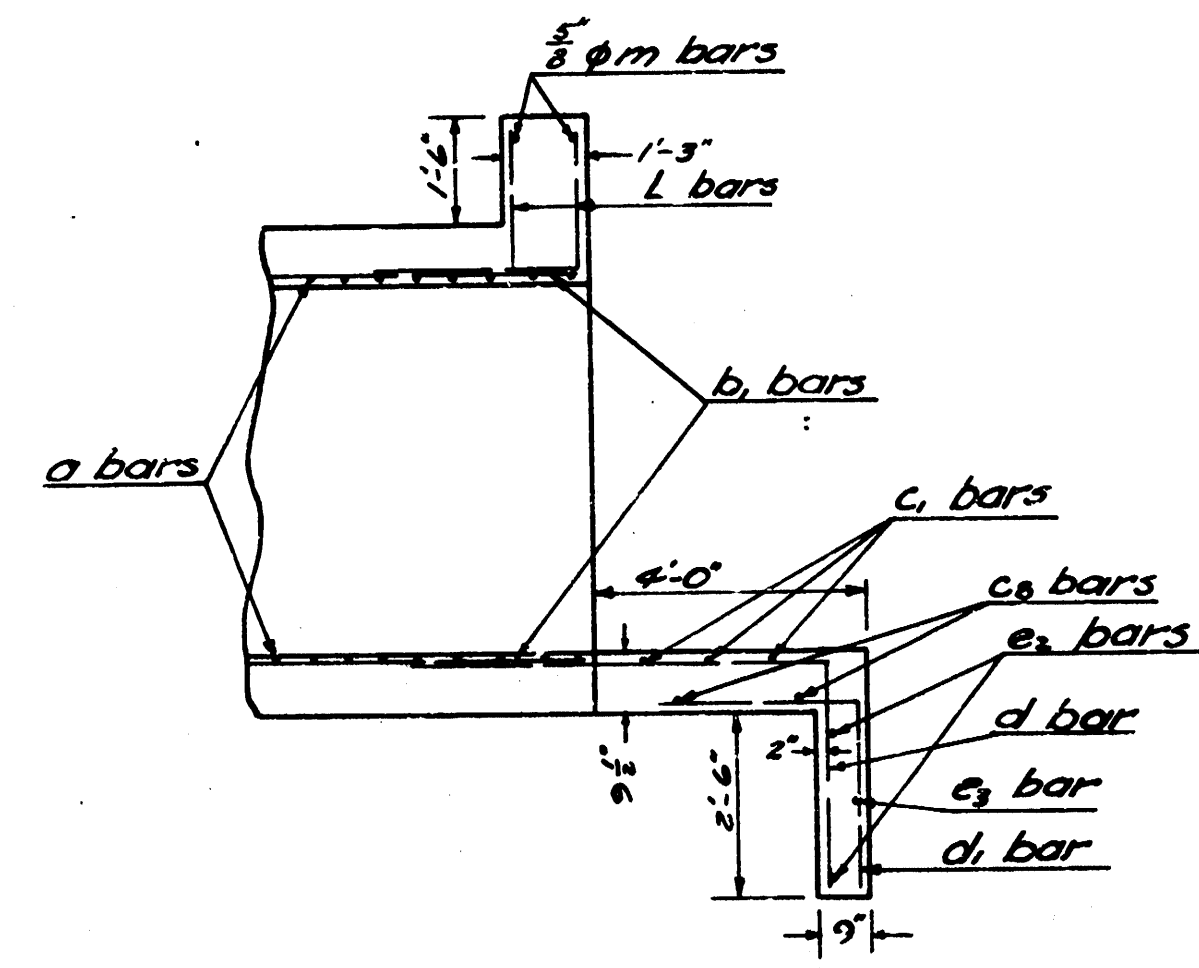
Section of Channel & So. Bank
1" = 10' Scale

2/10

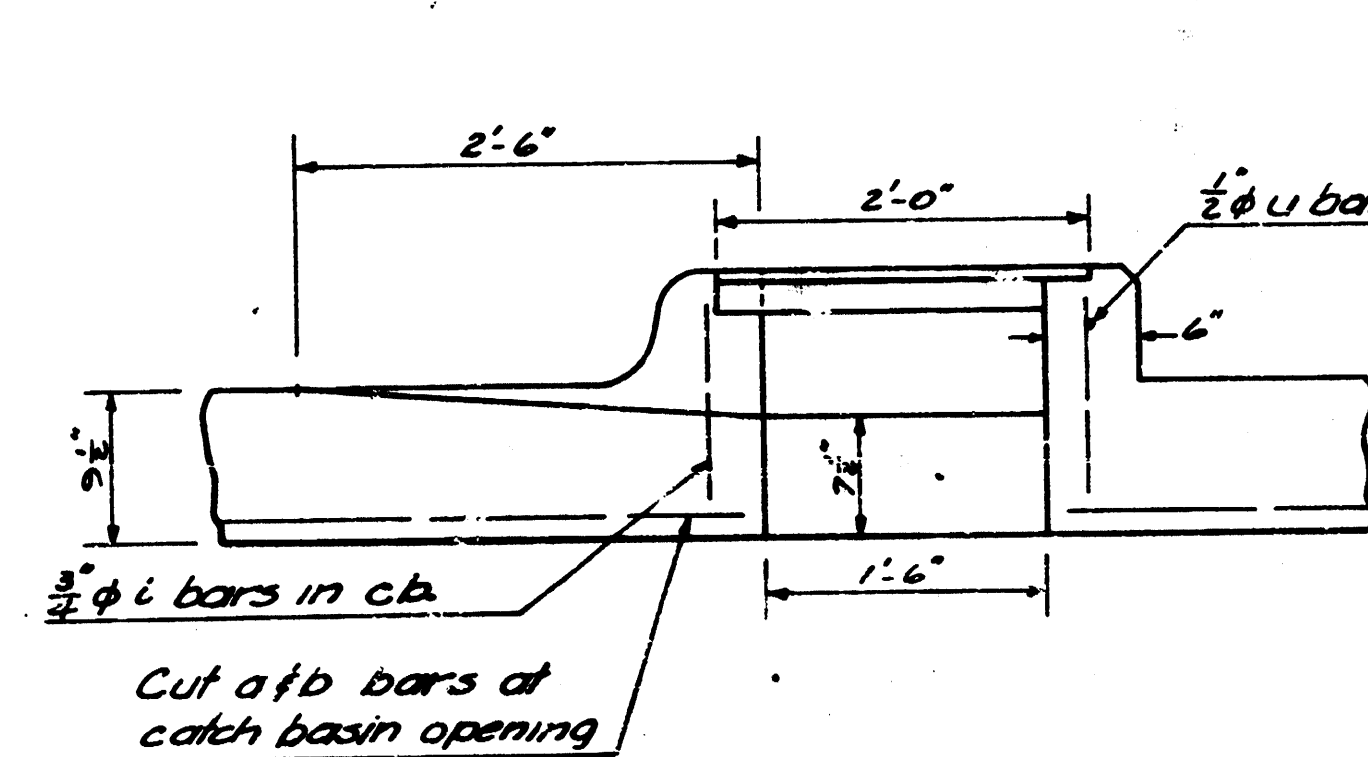




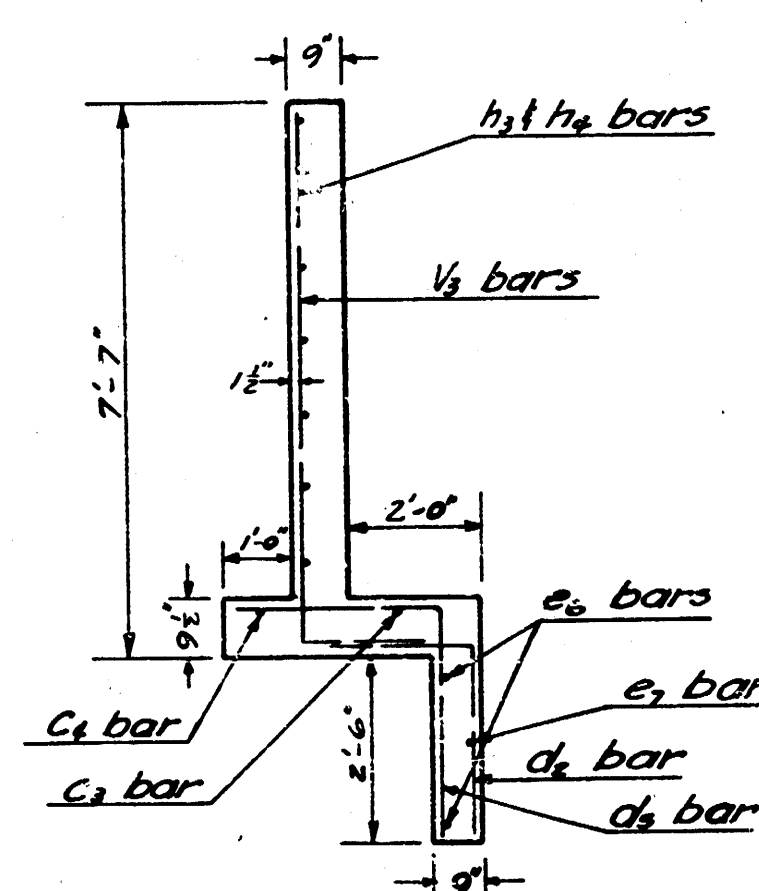
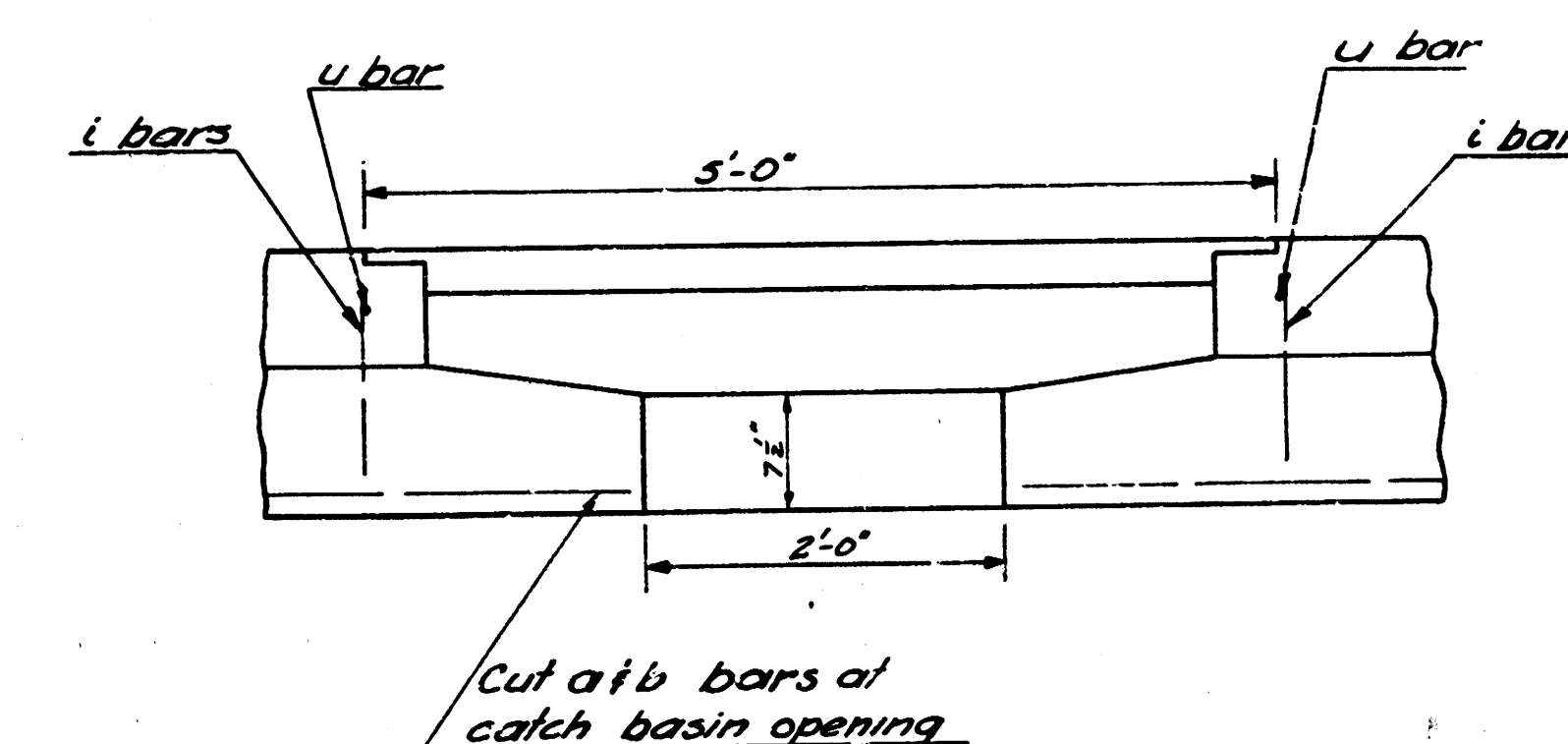
SECTION B-B
Scale: $\frac{1}{8}$ " = 1'-0"



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"

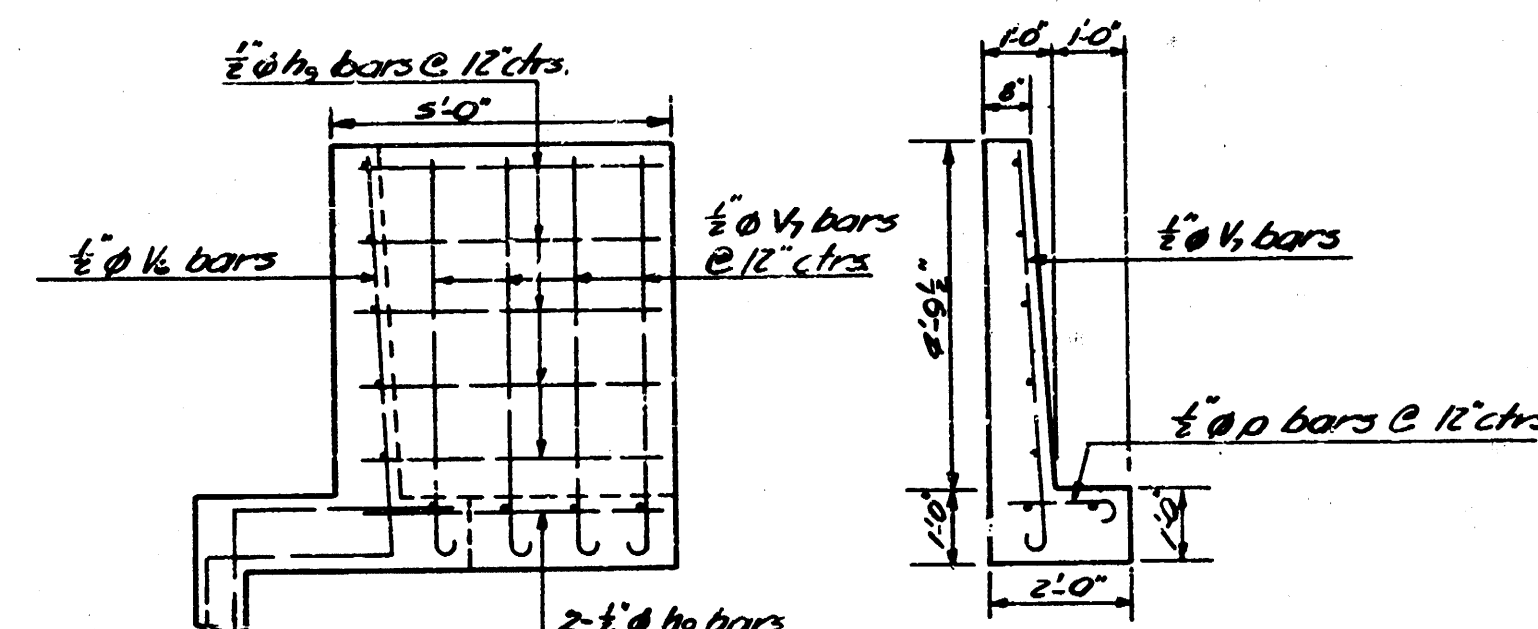
End of box to S.W.S. opening
42'-0"

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.

1/2" o/a bars spaced as shown

Cut off 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"

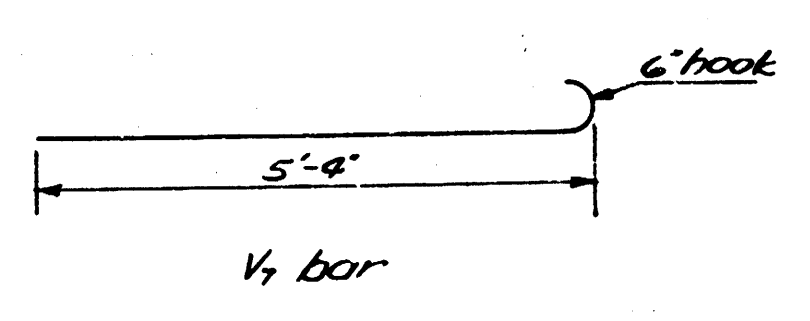
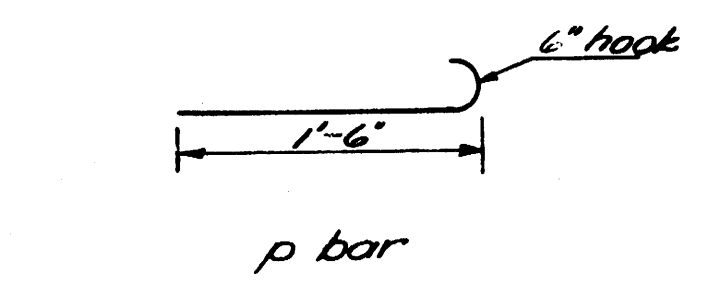
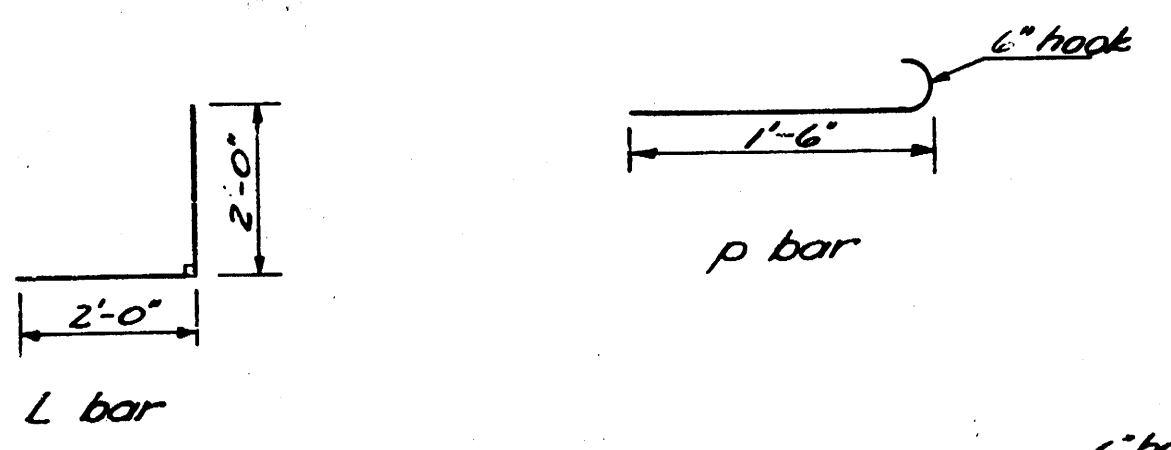
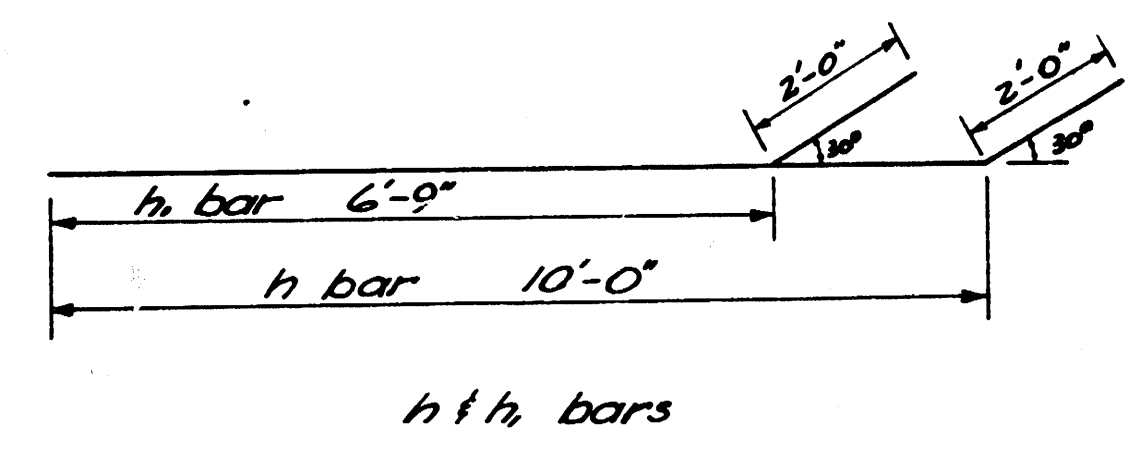
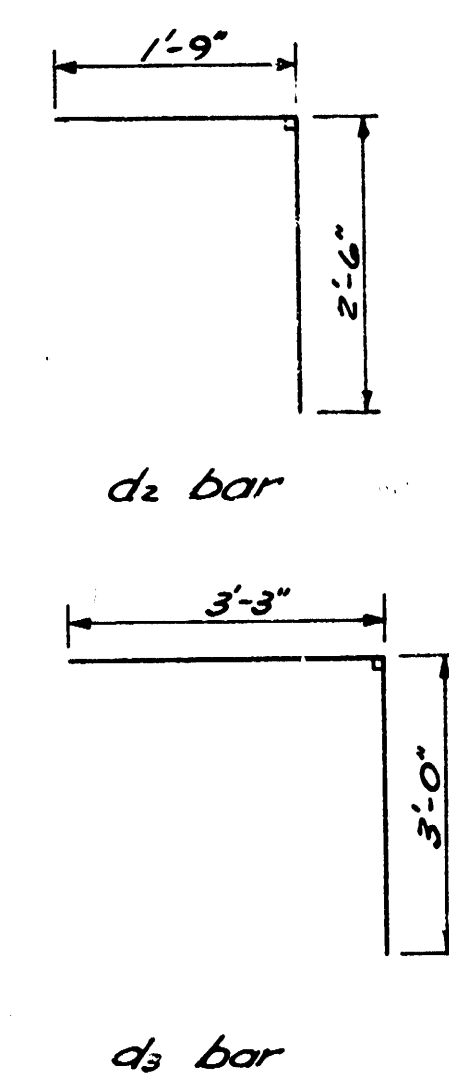
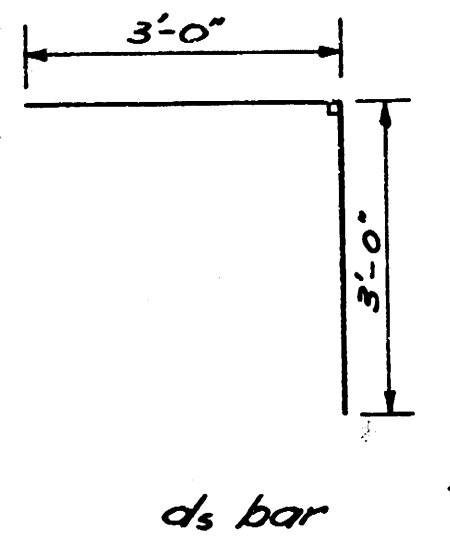
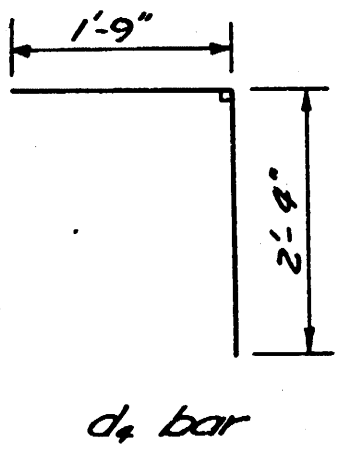
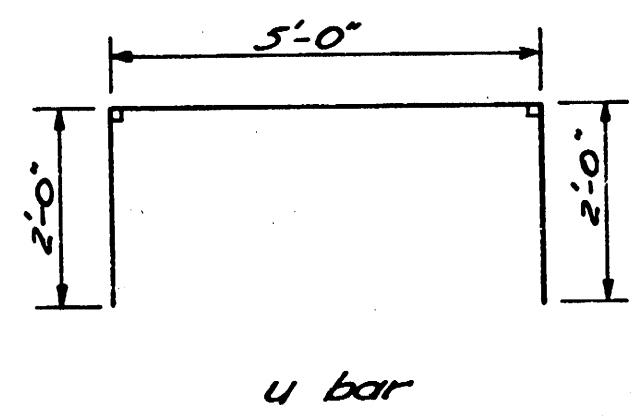
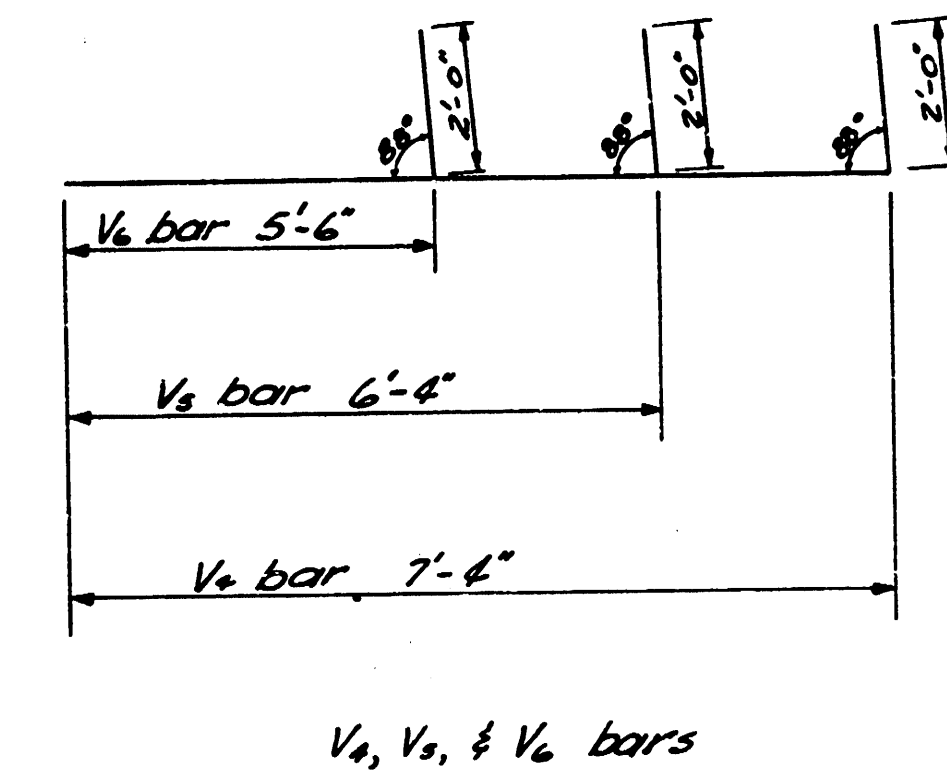
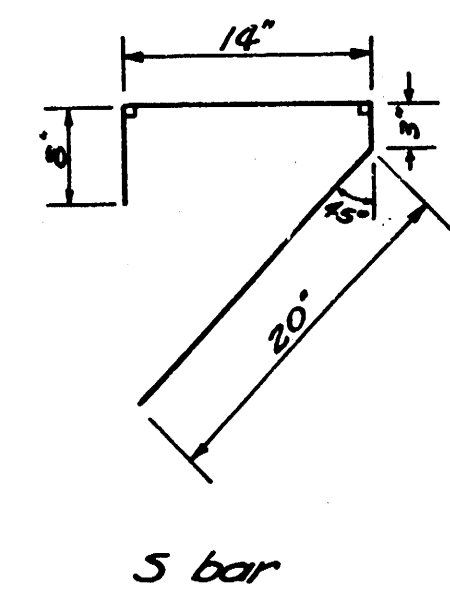
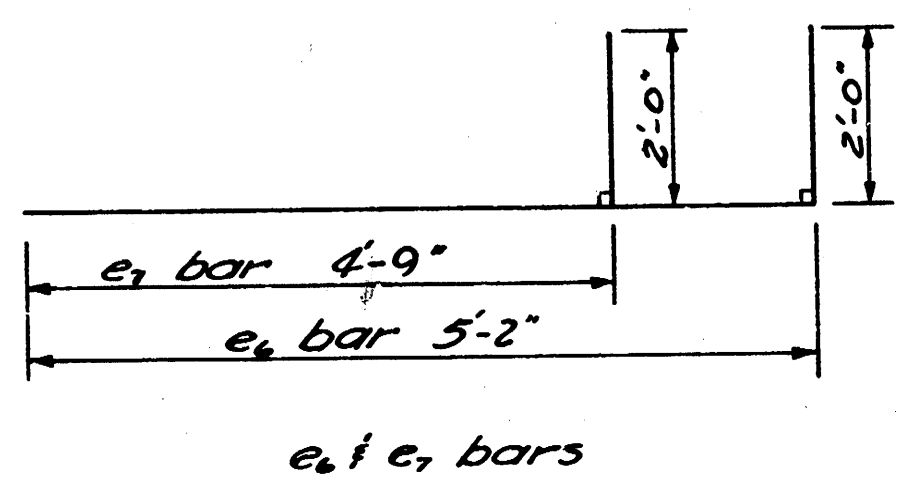
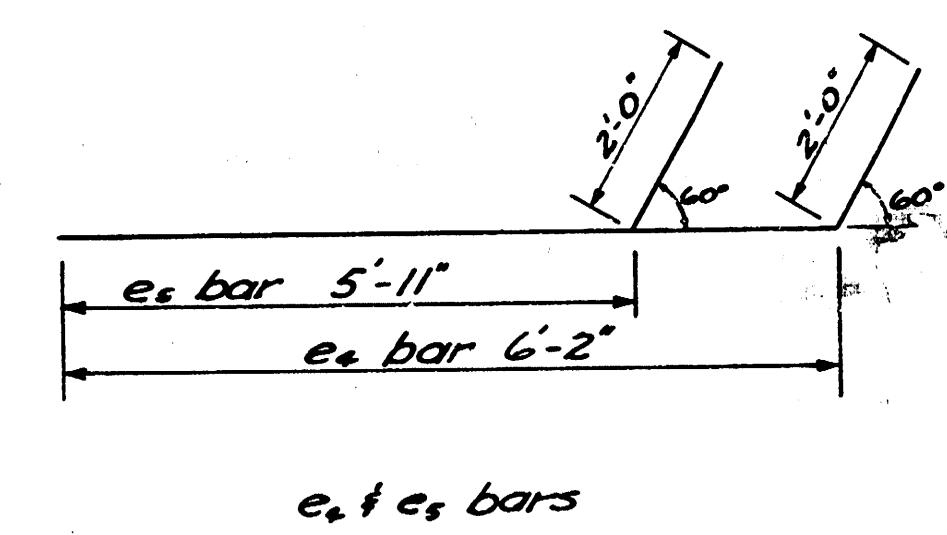
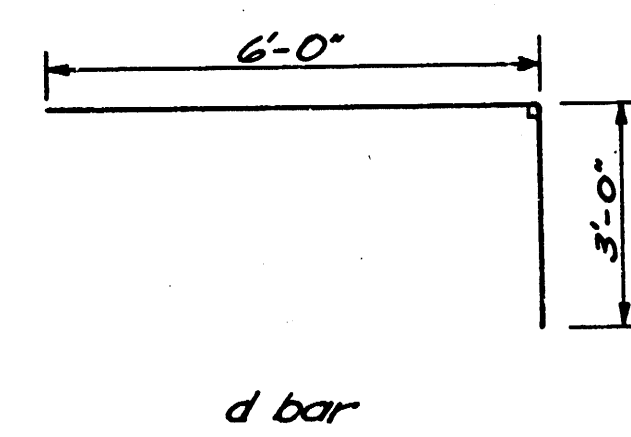
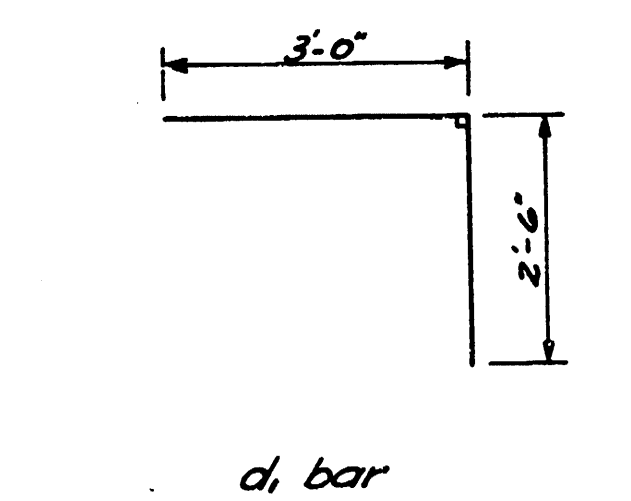
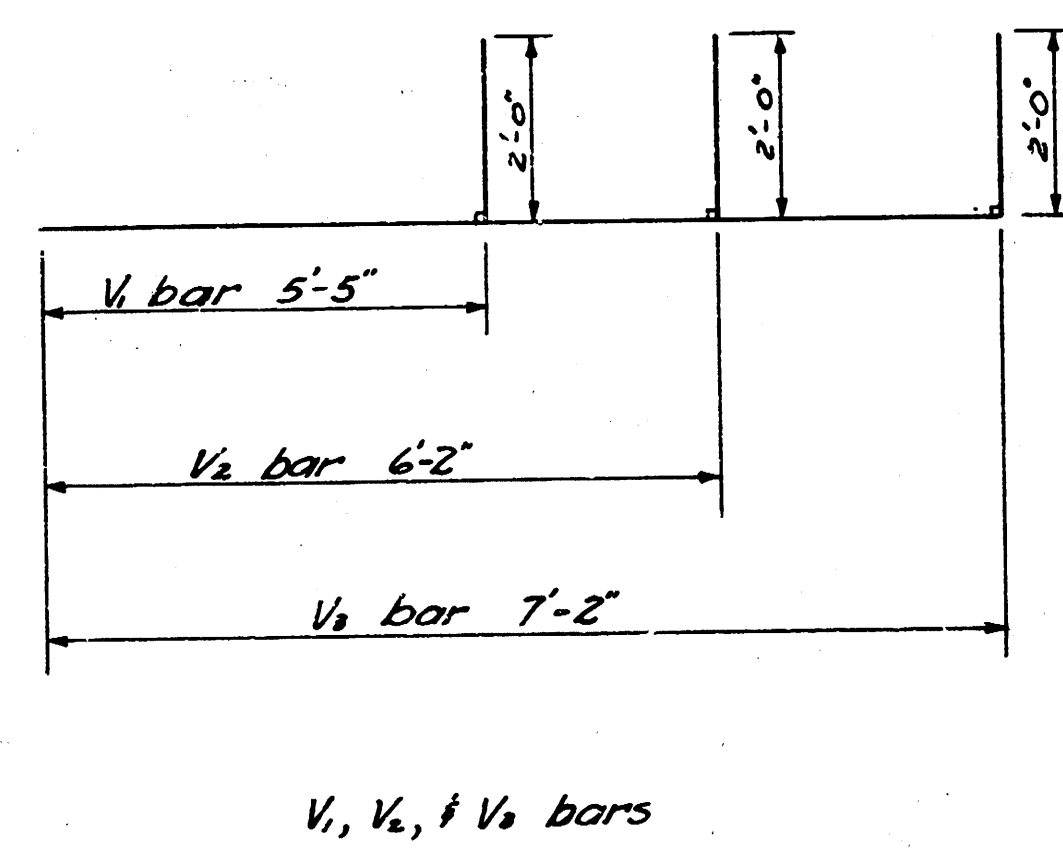
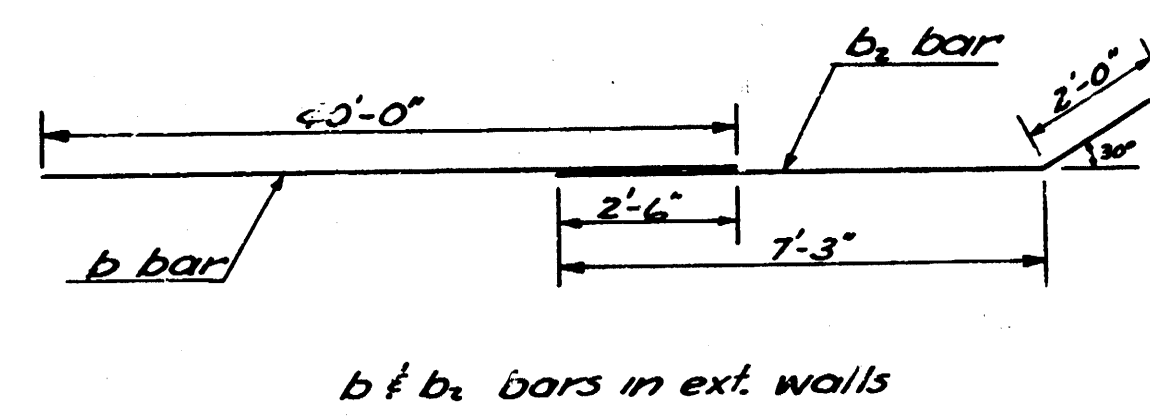
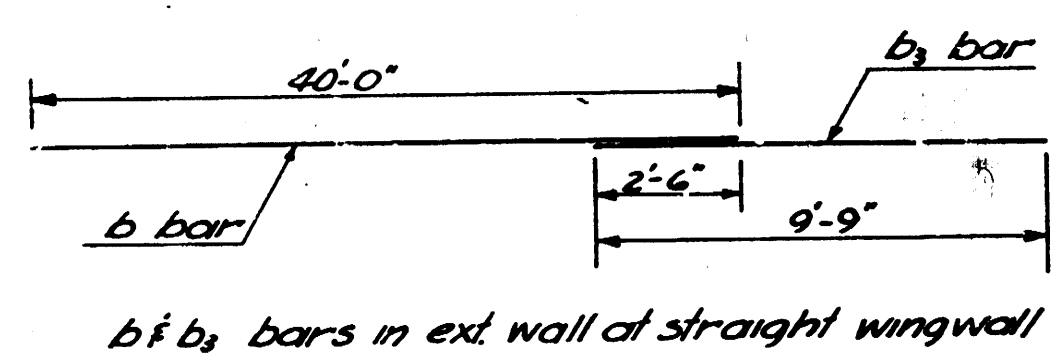
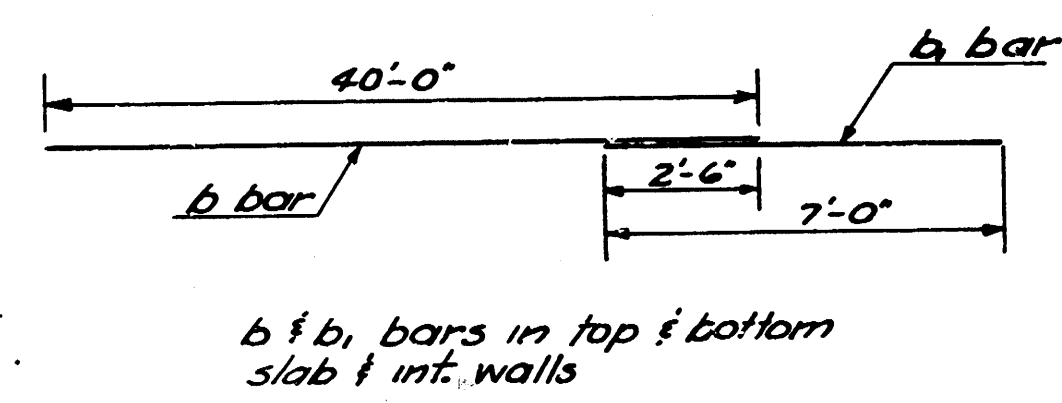
SECTION S.W.S. OPENING W.S. OF BOX
Scale: $\frac{1}{8}$ " = 1'-0"

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.

1/2" o/a bars spaced as shown

Cut off b bars at opening





BAR BENDING DIAGRAMS
No Scale



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	2?	cu yds.
Reinf. Steel	45,675	Lbs.
Integral Curb	75	Lm. Ft.
4" Tile	2	Lm. Ft.
Catch Basins	2	—
Catch Basin Covers	4	—
15" R.C.P.	46	Lm. Ft.
6" Conc. Pkt. removed	61	Sq. yds.
6" Conc. Pkt. replaced	54	Sq. yds.
Removal of exist. culvert		

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Catch Basins	2	—
Catch Basin Covers	4	—
15" R.C.P.	46	Lm. Ft.
6" Conc. Pkt. removed	61	Sq. yds.
6" Conc. Pkt. replaced	54	Sq. yds.
Removal of exist. culvert		

Past - 2.85
 En - 1.10
 Int - 0.52
 Supp - 0.78
 Sub - 0.70
 O. 13
 P. 50

✓ 64x - 348.66
1.10 492.9
- 150 206.9
5.00 26.6
- 0.3 443.00
0.53

2d cont

$\frac{3}{8}$ inch full crane

Box Culvert Orme
3-9'x5'x130'

12-22-53

Barrel

floor $.2917 \times 30.1667 \times 130 = 3164.790$

$$\text{factor} = 7917 \times 30,1667 \times 130 = 3104.790$$

walls $4 \times 5 \times .2917 \times 130 = 2058.42$

Huber's: $30.1667 \times 1.5 \times 1.25 \times 2 = 113.12$

~~3 wings, $3 \times \frac{9.5 + 9.0425}{2} \times .75 \times 6.7917 = 116.12$~~
$$-3x \frac{2 \times 8.00}{2} x 75 = 18.143$$

$2 \times 18 = 36$

E. $1147454 = 3 \times 7917 = 9051$

$$3x \frac{9.5 + 6.0359}{2} y \geq x.7917 = 9.22$$
$$75 \times 2 \times \frac{70625 + 9.5}{2} \times 7917 = 11.02$$
$$2 \times 1 \times \frac{9.0625 + 10.7917}{2} \times 7917 = 15.719$$
$$= 1.75 \times \frac{24.5432 + 7.4475}{2} \times 2.5 = 54.42$$
$$2 \times \frac{6.4690 + 6.4235}{2} \times 1.75 \times 2.5 = 23.44'$$
$$\frac{9.3 + 60.8}{2} \times 2 = 13.000$$
$$1 \times 9.06 = 9.06$$
$$4 \times 30 \times 7917 = 96,192$$
$$4.75 + 6.0833 \times 3.75 \times 7917 = 16.082$$
$$\frac{25.4167 \times 24.667}{2} \times 4 \times 1 = 100.167$$
$$3 \times 4 \times 1 = 12,000$$
$$\text{ing. aft. } 9.4028 \times .75 \times 6.7917 = 47.800$$
$$\frac{17.417}{2} \times 15.3136 \times 6.7917 = 86.088$$
$$C = \frac{163.67 + 1.0}{2} \times 11.0717 = 111.3$$
$$38 \frac{1}{2} \times 4.191\% = 1.593$$

Wavelength = 2.175 Å = 2.175 × 10⁻¹⁰ m

$$5.6031 \times 75 \times 2.5 = 10.50$$
$$24.7698 \times 2.2917 \times 7.5 = \underline{42.57}$$

70221 9408.55

(over)