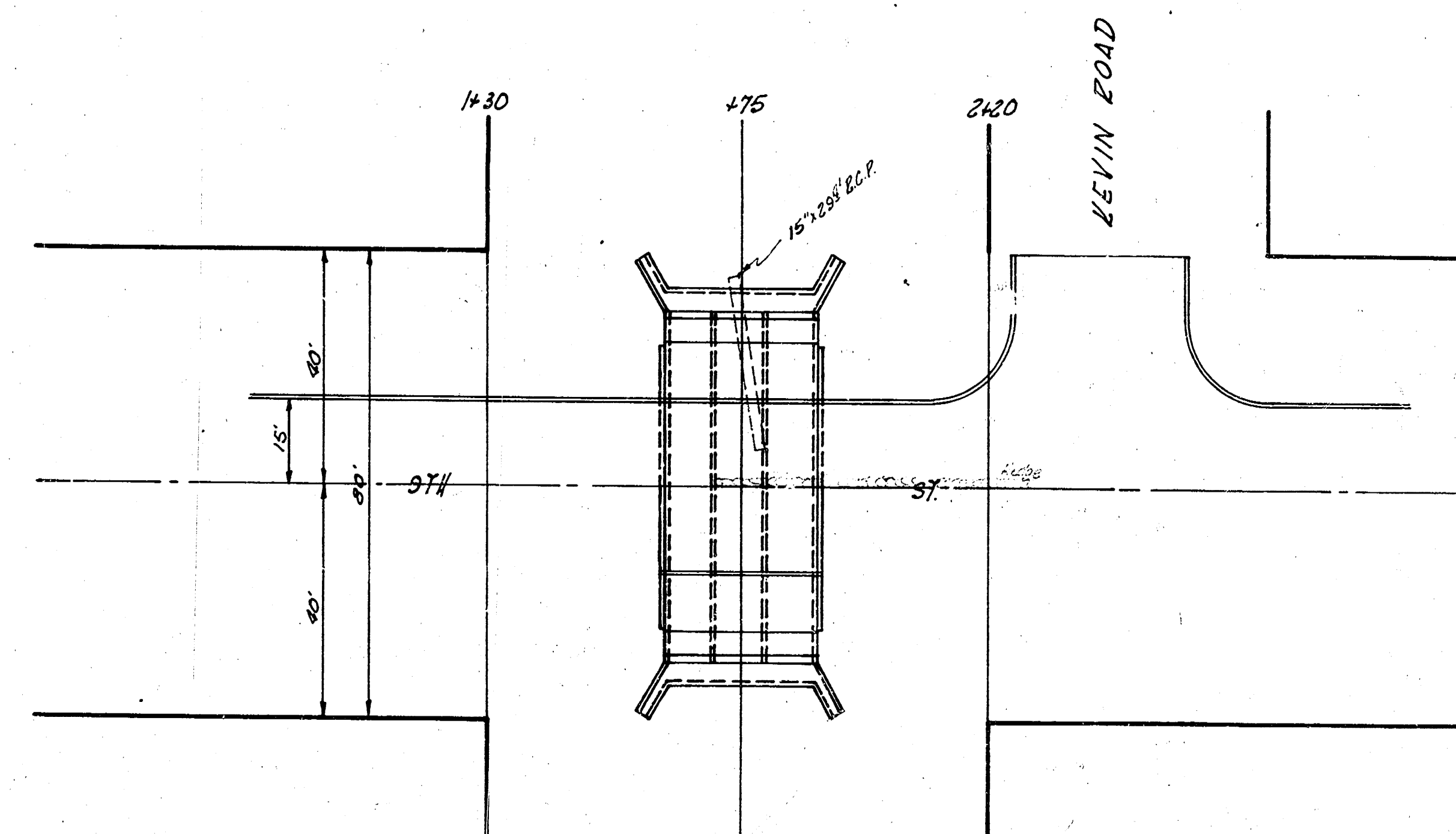


B.M. 190.85 South "G" in Globe W. ab. Lightner N.L. 9th  
B.M. 199.19 Spike E.S. P. Pole N.S. 9th W.S. Wordlaw  
B.M. 199.90 "G" in Globe E. ab. Grace Lane S.L. 9th

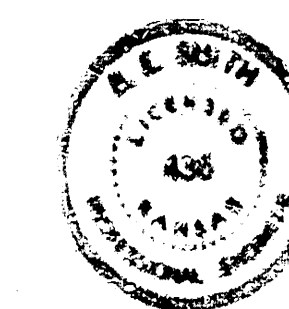
NOTE: USE THESE B.M. ELEVATIONS ONLY

# 3-8' X 4' R.C.B. 9TH ST. & DRYCREEK

PROJ. NO. C14-324



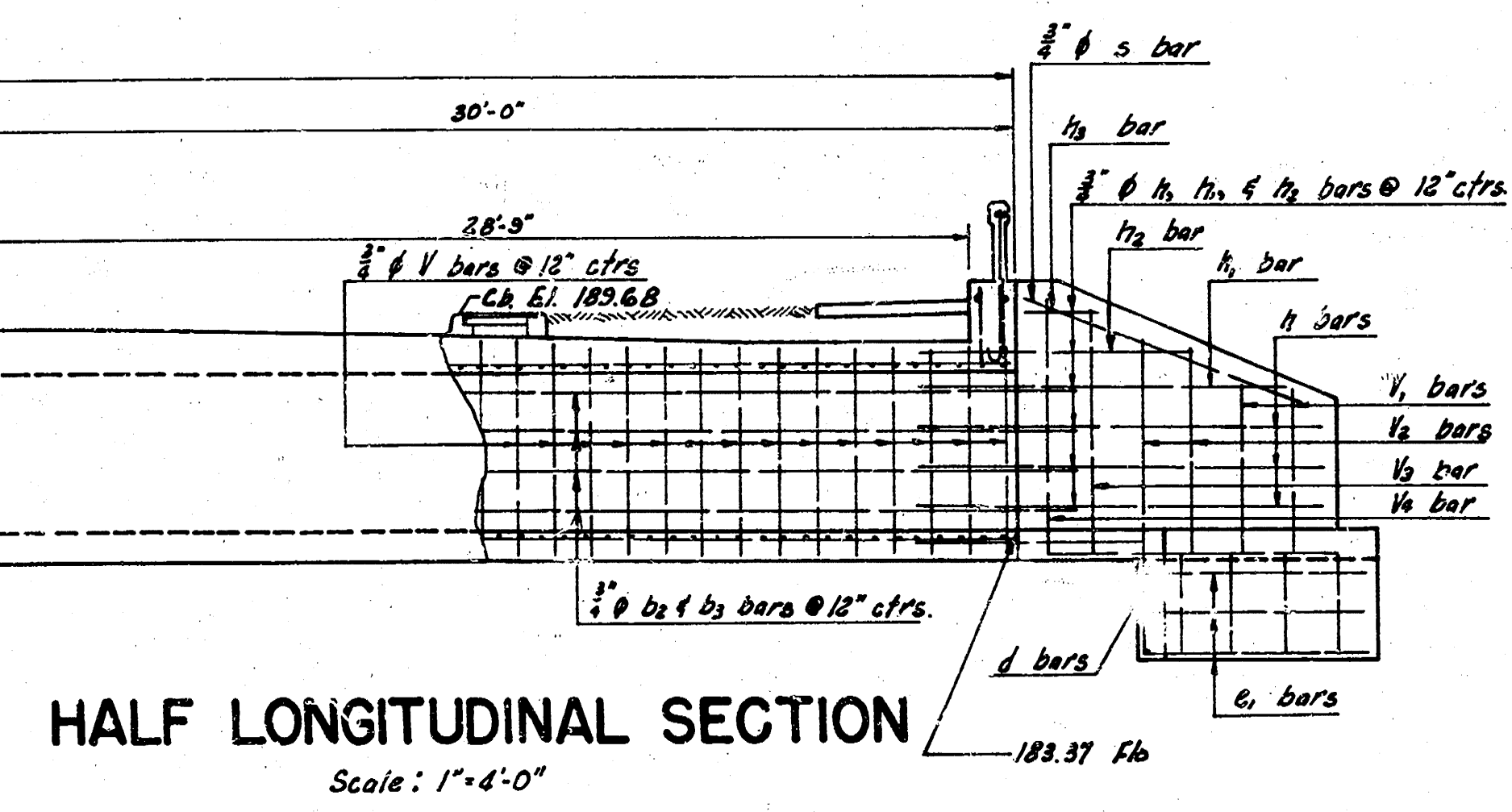
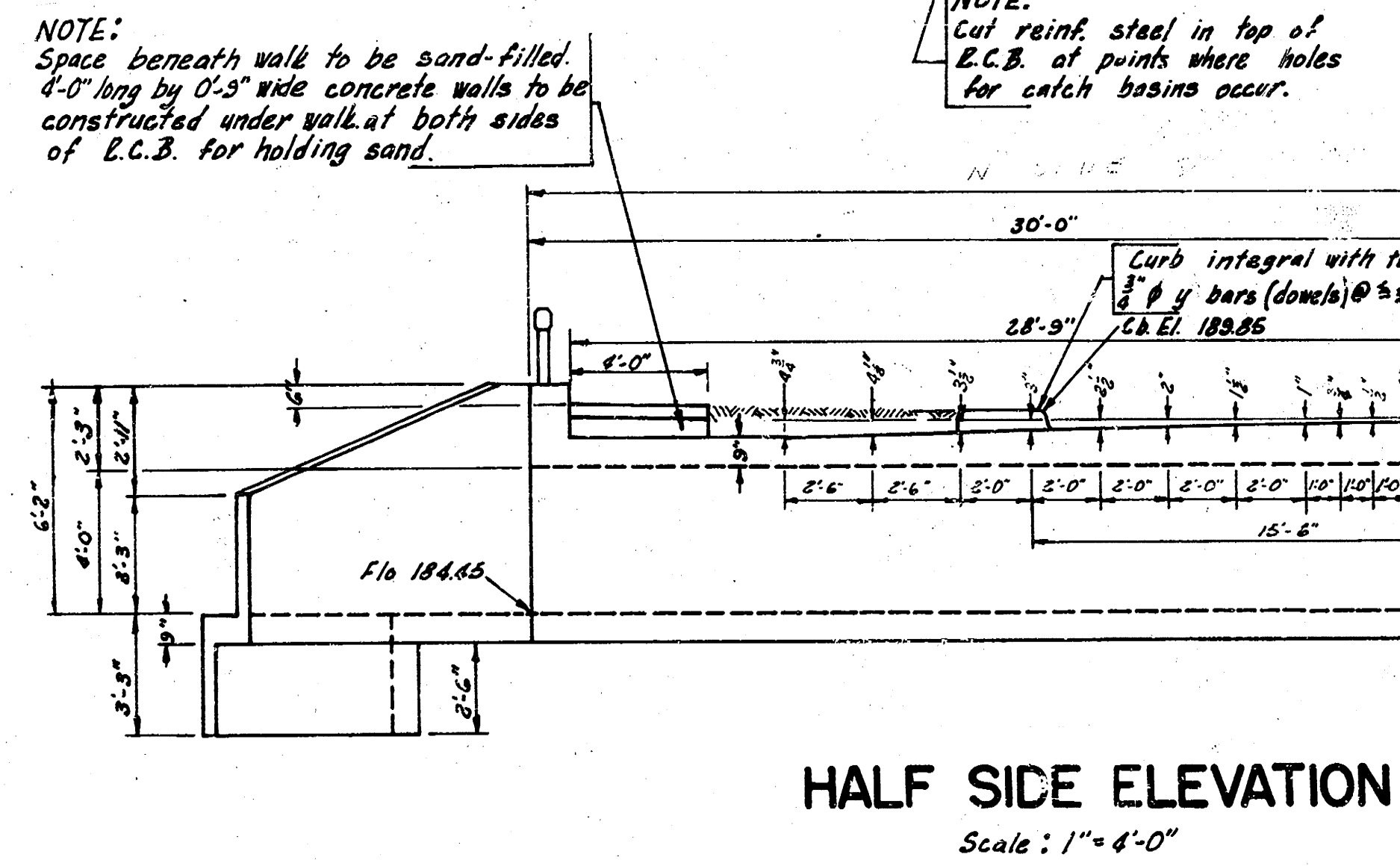
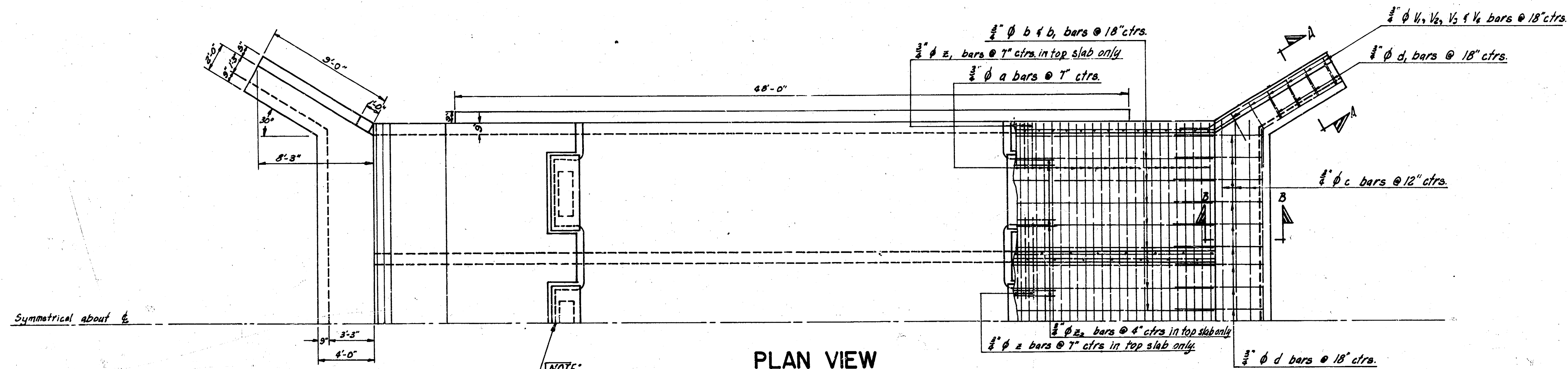
PLAN LAYOUT  
Scale: 1"=20'

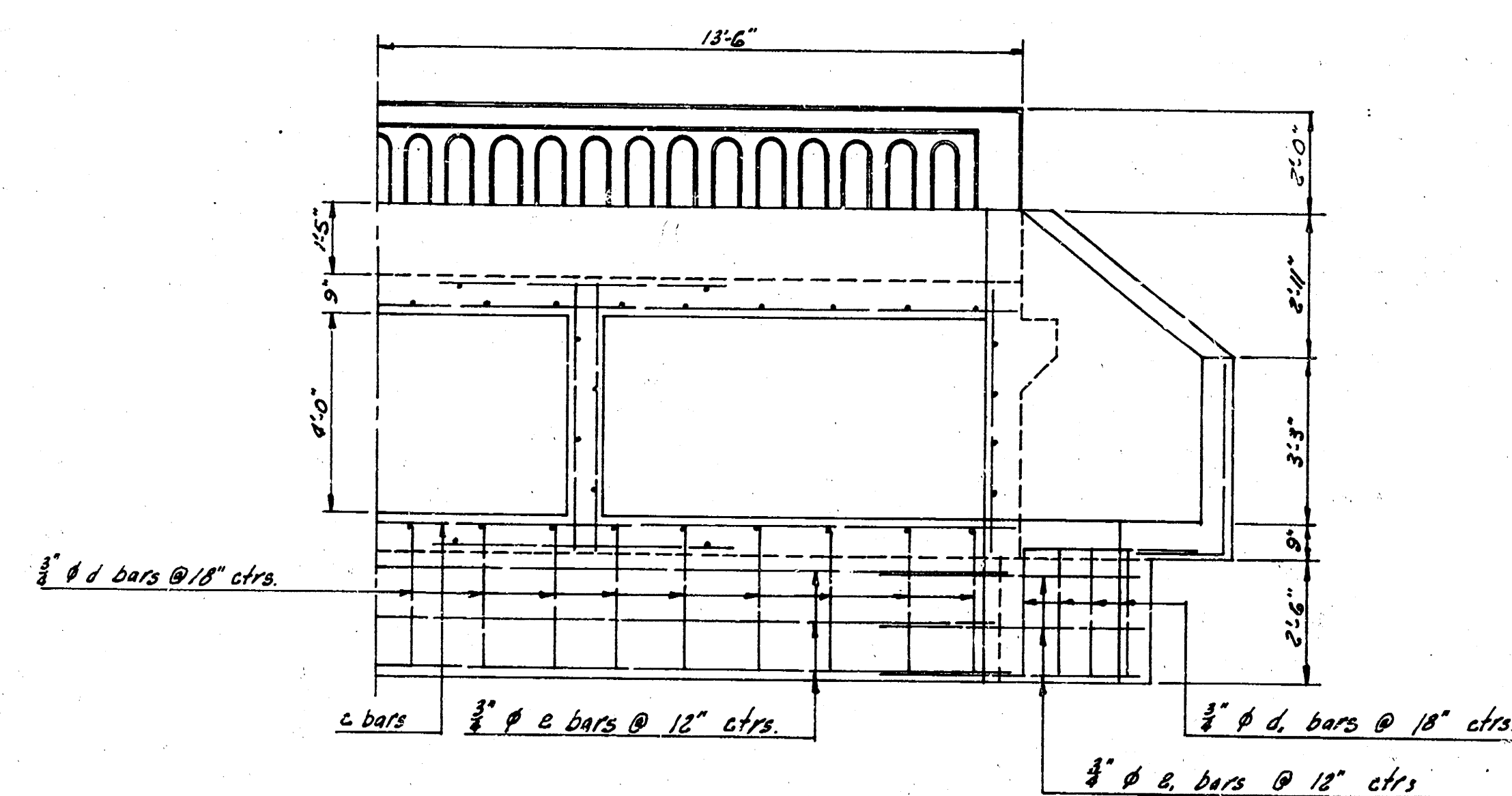


REIN. CONC. BOX CULVERT  
+ BOX STA 1475  
9TH ST & DRYCREEK  
CITY OF WICHITA, KANS.  
D.E. SMITH CITY ENGINEER  
MAY, 1955 PROJ. NO. C14-324

1/6

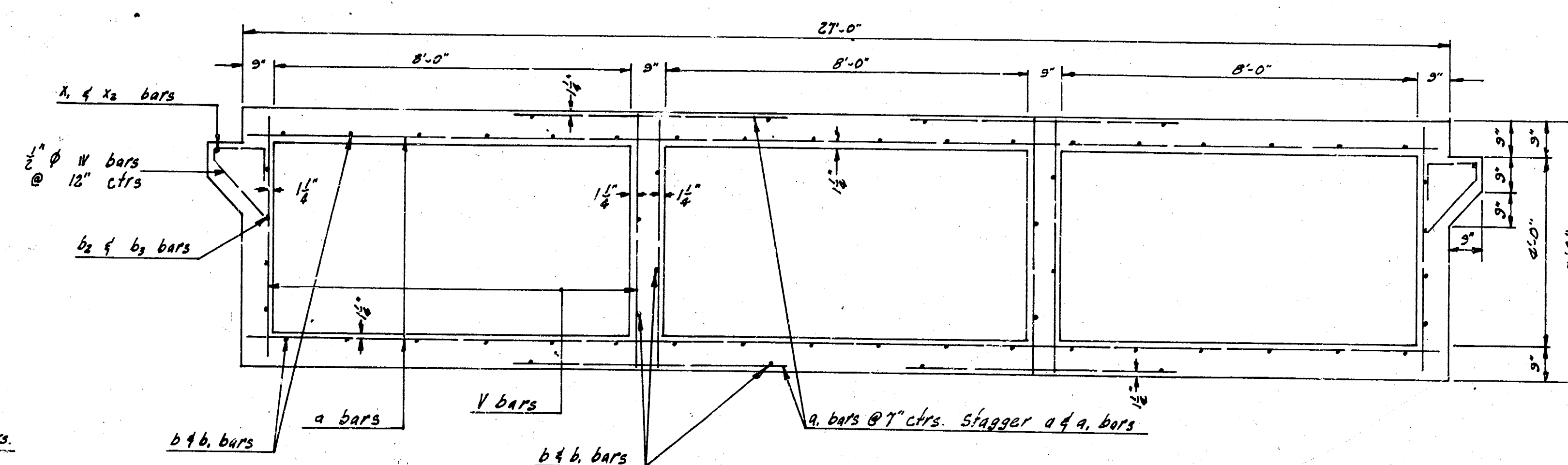
# REINFORCED CONCRETE BOX CULVERT NINTH ST. & DRYCREEK





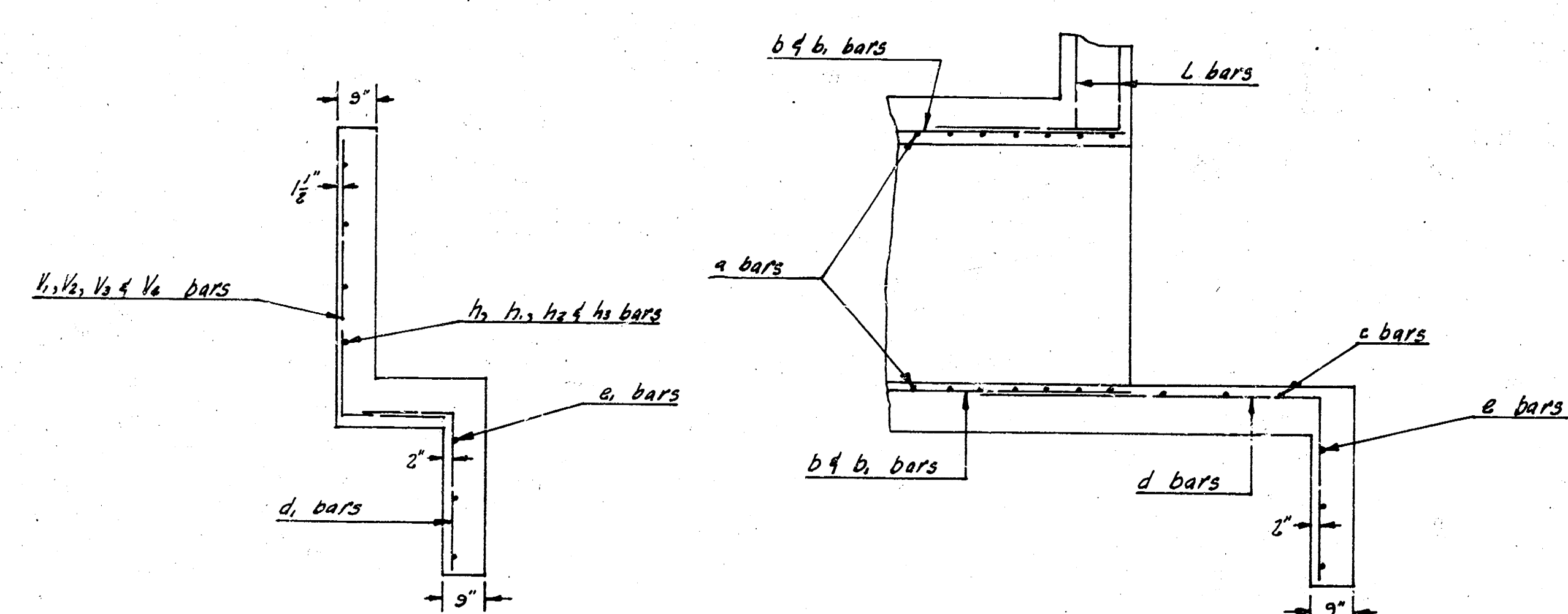
**HALF END ELEVATION**  
Scale: 1"=5'-0"

NOTE: Backfill is to be carried to original ground elevation. Backfill is to be sand stabilized and mechanically tamped.



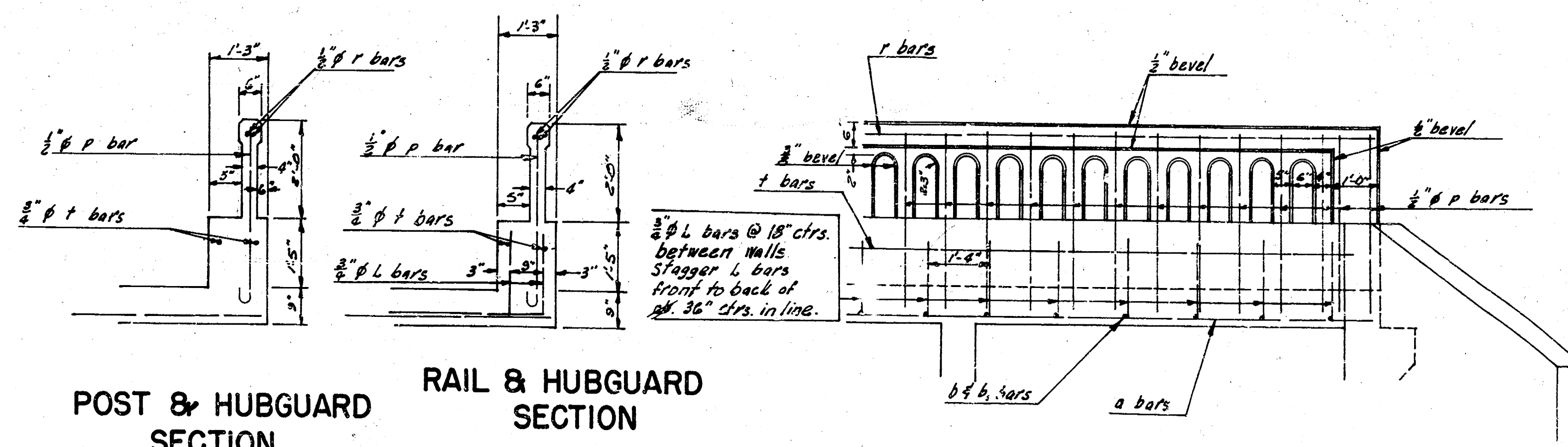
**CROSS SECTION OF BOX**  
Scale: 1"=5'-0"

NOTE: Excavation is to be extended 2' beyond sides of the box & back of wingwalls. NOTE: Cross sections of the channel are to be taken before construction. After culvert is constructed re-cross-sections are to be made.



**SECTION A-A**  
Scale: 1"=2'-0"

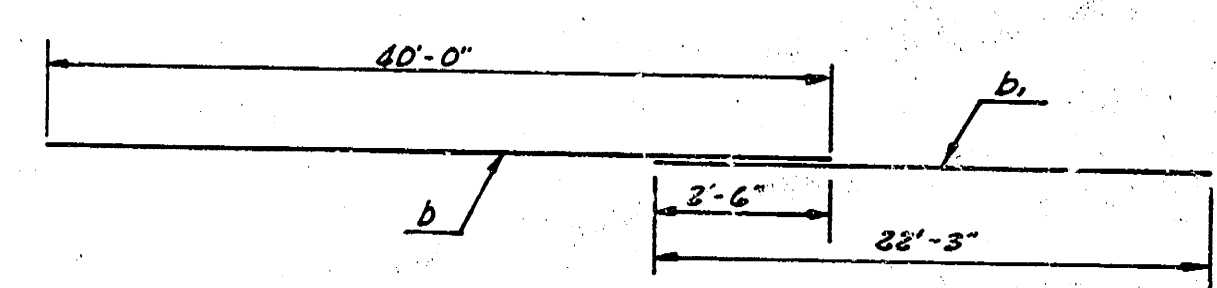
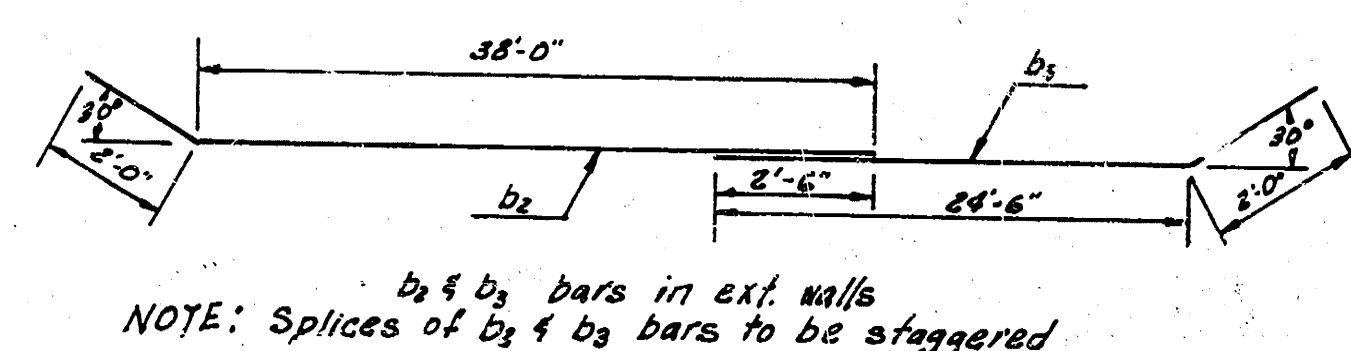
**SECTION B-B**  
Scale: 1"=2'-0"



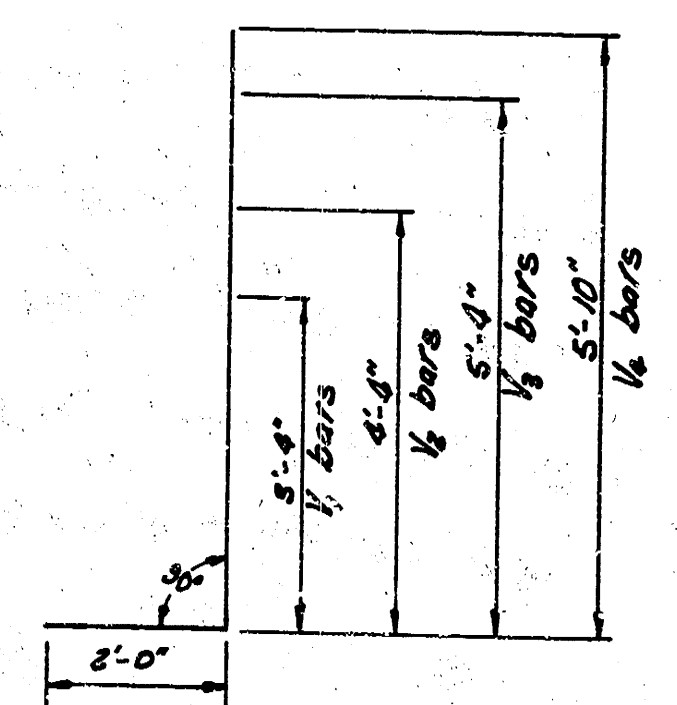
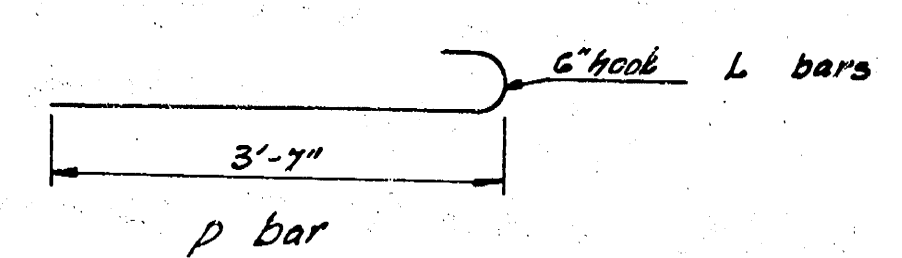
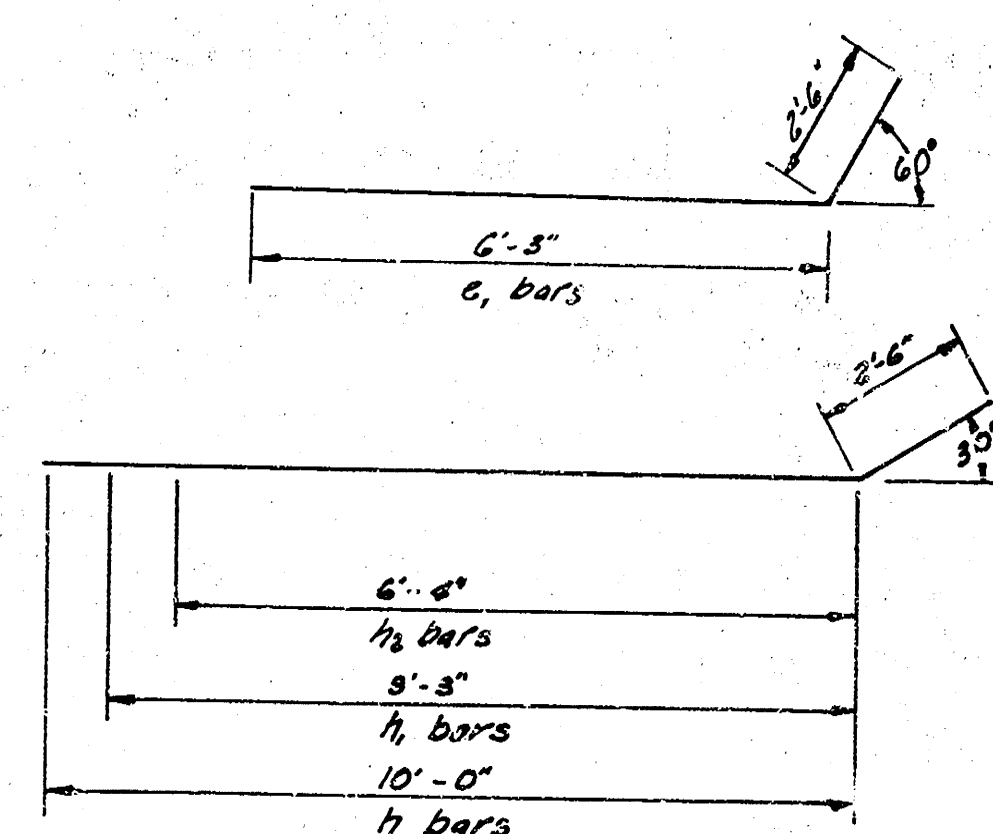
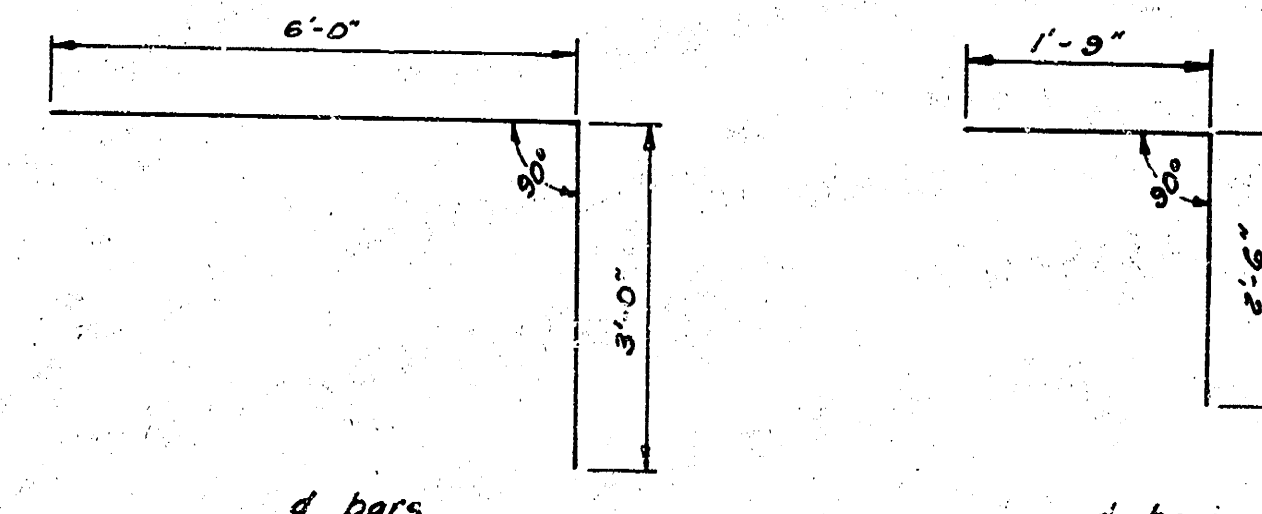
**POST & HUBGUARD SECTION**  
Scale: 1"=2'-0"

**RAIL & HUBGUARD SECTION**  
Scale: 1"=2'-0"

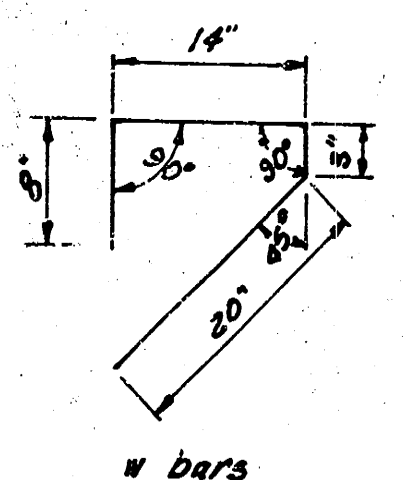
**PART ELEVATION OF HANDRAIL & HUBGUARD**  
Scale: 1"=2'-0"



$b$  &  $b_1$  bars in top & bottom slabs & in int. walls  
NOTE: Splices of  $b$  &  $b_1$  bars to be staggered



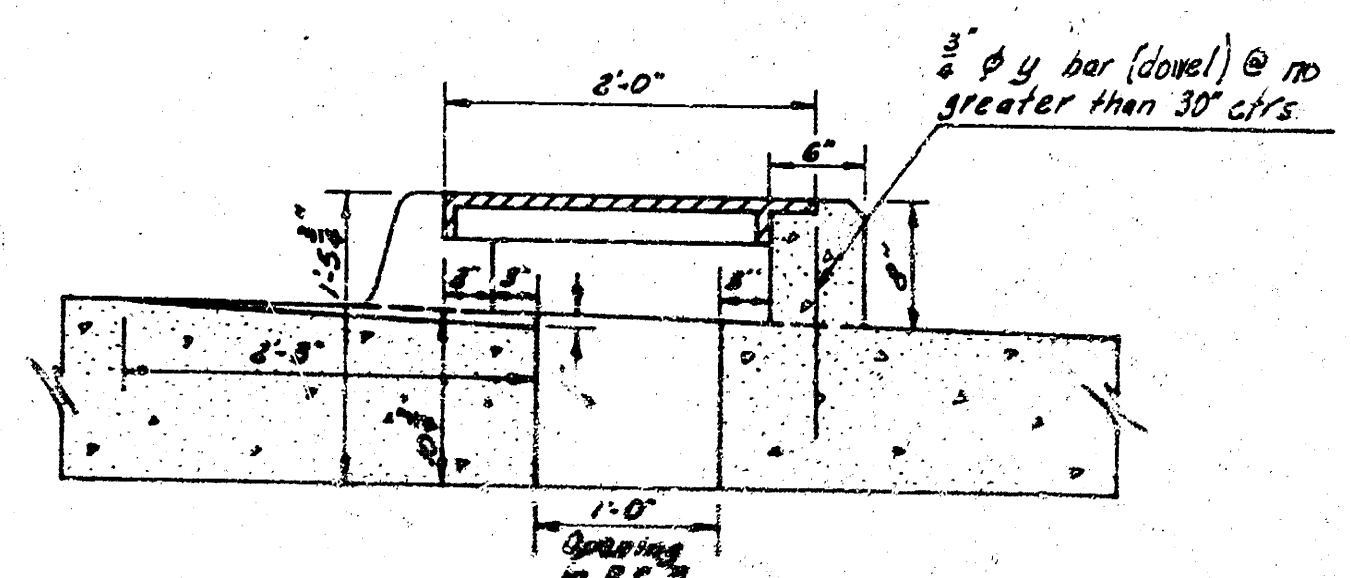
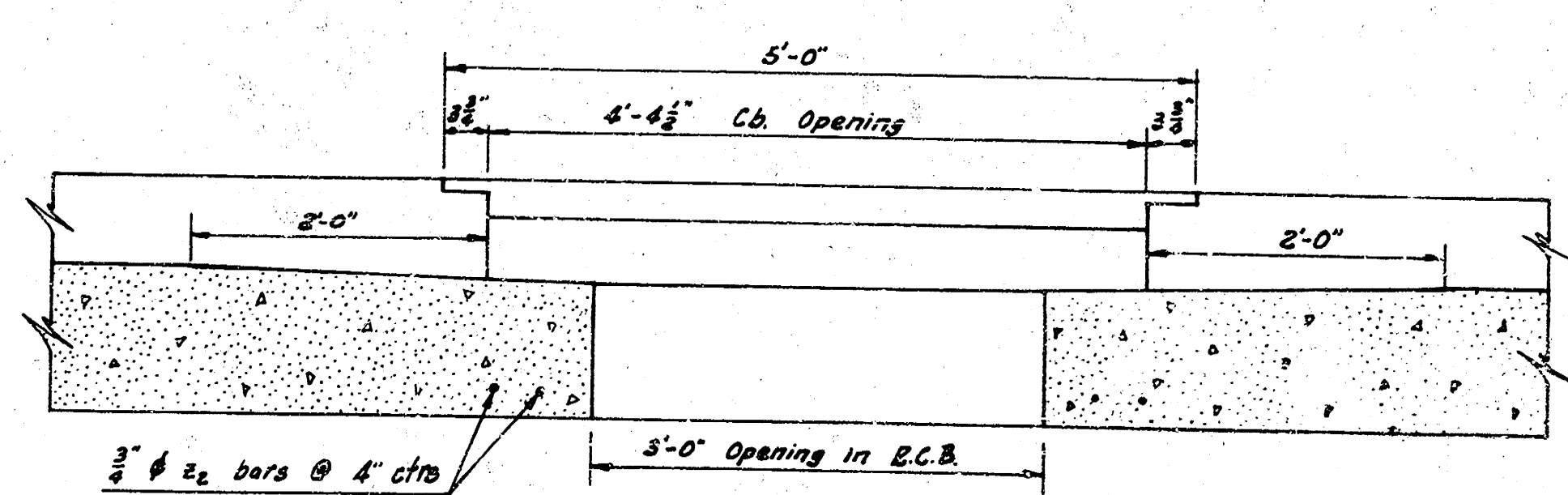
NOTE: Min. length of bar splices to be 2'-6"



BAR BENDING DIAGRAMS  
Not to Scale

| BAR  | SIZE | NO. | LENGTH | SHAPE |
|------|------|-----|--------|-------|
| a    | 1/2" | 206 | 30'-0" |       |
| a1   | "    | 412 | 6'-0"  |       |
| b    | "    | 62  | 40'-0" |       |
| b1   | "    | 52  | 22'-3" |       |
| b2   | "    | 8   | 40'-0" |       |
| c    | "    | 6   | 30'-6" |       |
| d    | "    | 36  | 9'-0"  |       |
| d1   | "    | 16  | 4'-3"  |       |
| e    | "    | 6   | 23'-3" |       |
| e1   | "    | 12  | 8'-8"  |       |
| f    | "    | 12  | 12'-6" |       |
| h    | "    | 4   | 11'-9" |       |
| h1   | "    | 4   | 8'-10" |       |
| h2   | "    | 4   | 3'-8"  |       |
| L    | 1/2" | 36  | 4'-3"  |       |
| P    | 1/2" | 64  | 4'-1"  |       |
| r    | 1/2" | 4   | 16'-5" |       |
| s    | 1/2" | 4   | 9'-0"  |       |
| t    | "    | 4   | 26'-6" |       |
| y    | "    | 244 | 5'-5"  |       |
| u    | "    | 8   | 5'-5"  |       |
| u1   | "    | 8   | 5'-5"  |       |
| u2   | "    | 8   | 5'-5"  |       |
| u3   | "    | 8   | 5'-5"  |       |
| u4   | "    | 8   | 5'-5"  |       |
| u5   | "    | 8   | 5'-5"  |       |
| u6   | "    | 8   | 5'-5"  |       |
| u7   | "    | 8   | 5'-5"  |       |
| u8   | "    | 8   | 5'-5"  |       |
| u9   | "    | 8   | 5'-5"  |       |
| u10  | "    | 8   | 5'-5"  |       |
| u11  | "    | 8   | 5'-5"  |       |
| u12  | "    | 8   | 5'-5"  |       |
| u13  | "    | 8   | 5'-5"  |       |
| u14  | "    | 8   | 5'-5"  |       |
| u15  | "    | 8   | 5'-5"  |       |
| u16  | "    | 8   | 5'-5"  |       |
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| u86  | "    | 8   | 5'-5"  |       |
| u87  | "    | 8   | 5'-5"  |       |
| u88  | "    | 8   | 5'-5"  |       |
| u89  | "    | 8   | 5'-5"  |       |
| u90  | "    | 8   | 5'-5"  |       |
| u91  | "    | 8   | 5'-5"  |       |
| u92  | "    | 8   | 5'-5"  |       |
| u93  | "    | 8   | 5'-5"  |       |
| u94  | "    | 8   | 5'-5"  |       |
| u95  | "    | 8   | 5'-5"  |       |
| u96  | "    | 8   | 5'-5"  |       |
| u97  | "    | 8   | 5'-5"  |       |
| u98  | "    | 8   | 5'-5"  |       |
| u99  | "    | 8   | 5'-5"  |       |
| u100 | "    | 8   | 5'-5"  |       |

| ITEM                     | QUANTITY | UNITS    |
|--------------------------|----------|----------|
| Class "A" Concrete       | 152.6    | Cu. Yds. |
| Reinforcing Steel        | 23,885   | Lbs.     |
| Handrail                 | 54       | Lin. Ft. |
| General Excavation       | 345      | Cu. Yds. |
| Hand Excavation          | 13       | Cu. Yds. |
| Compacted Backfill       | 57       | Cu. Yds. |
| Integral Curb            | 54       | Lin. Ft. |
| 5' Walk                  | 54       | Lin. Ft. |
| Standard Catch Basin Lid | 6        | Each     |



SECTIONS THROUGH CATCH BASINS  
Scale: 1" = 1'-0"