

# CULVERT IMPROVEMENT

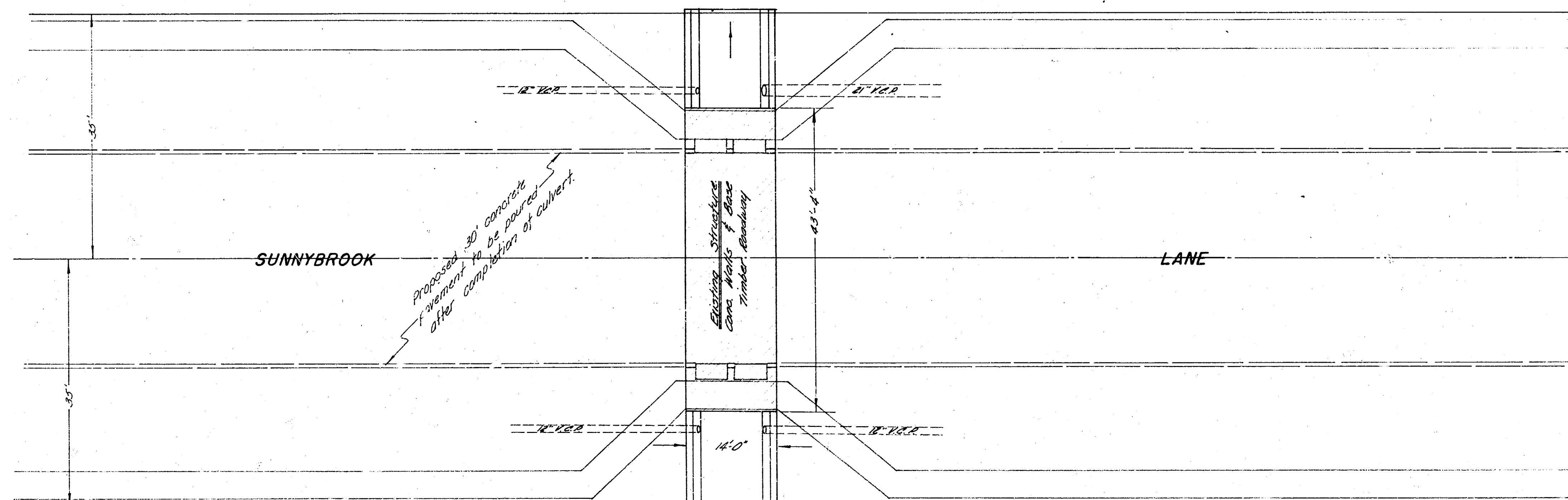
## SUNNYBROOK LANE

WICHITA KANSAS  
C 19 - 223

*Note to Contractor:*  
Plug (3) 12" R.P. at the culvert.  
Do not plug 8" pipe on the N.E.  
corner of existing structure.

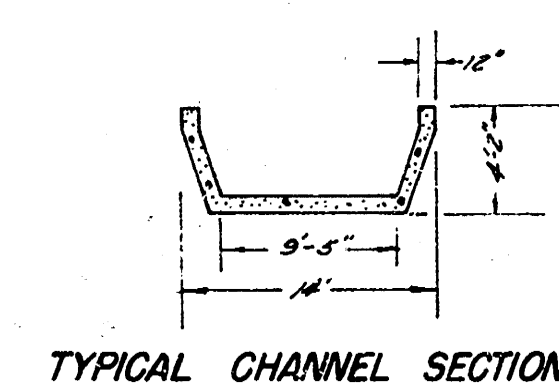
*Note to Contractor:*  
Remove concrete sidewalk at job  
site where necessary. Bid price to be  
included in structure removal item.  
New sidewalk outside of the 14' culvert  
to be const. by others.

DAVIDSON

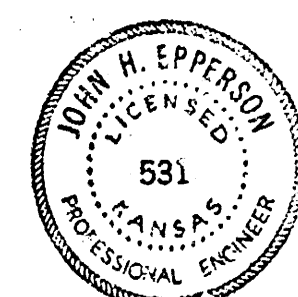


ROOSEVELT

B.M. 12061 S.S.W. Flange Bolt on Fire Hydrant, N.E. cor. Davidson & Sunnybrook.  
B.M. 11950 S.S.W. Flange Bolt on Fire Hydrant, N.E. cor. Roosevelt & Sunnybrook.



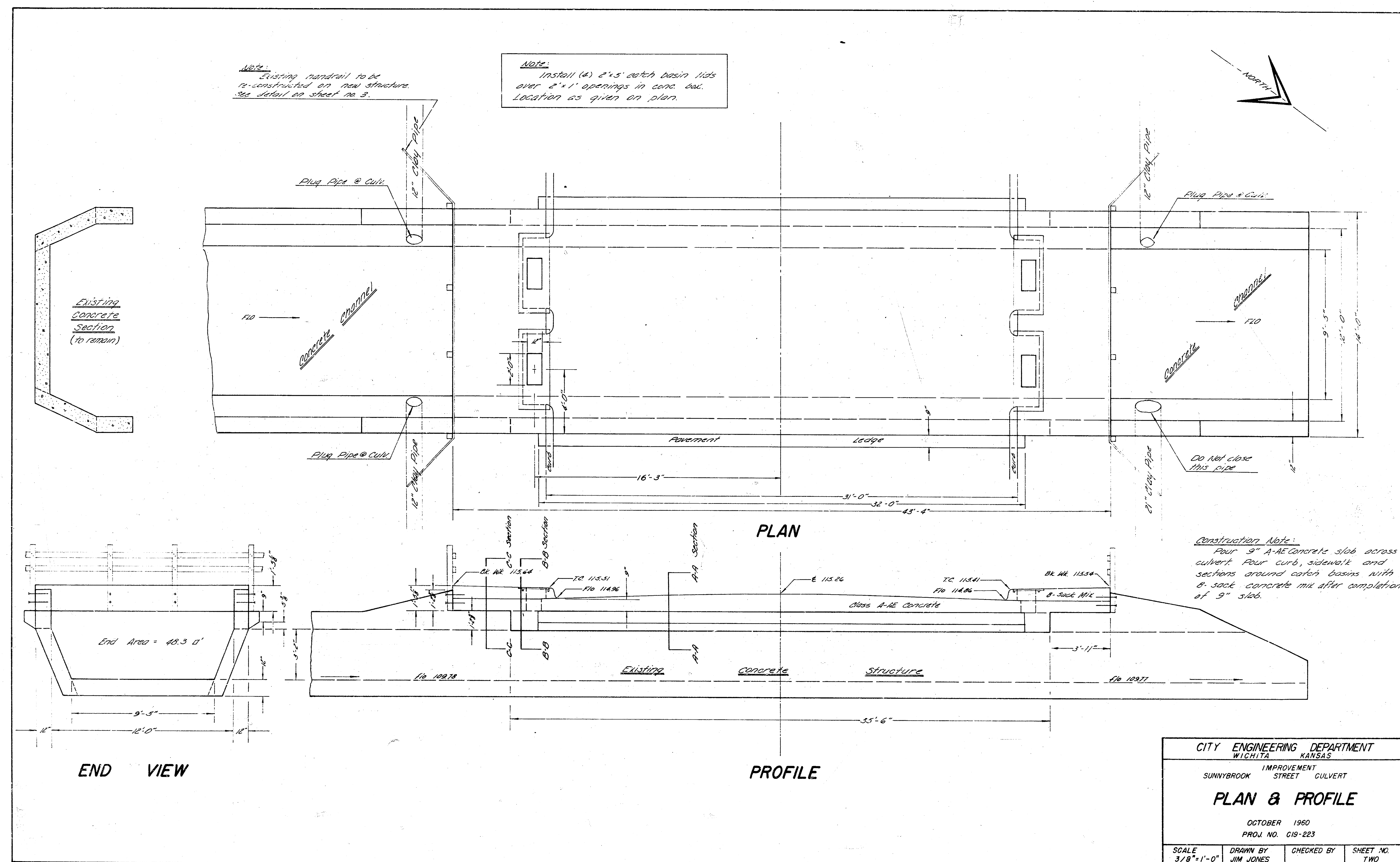
TYPICAL CHANNEL SECTION



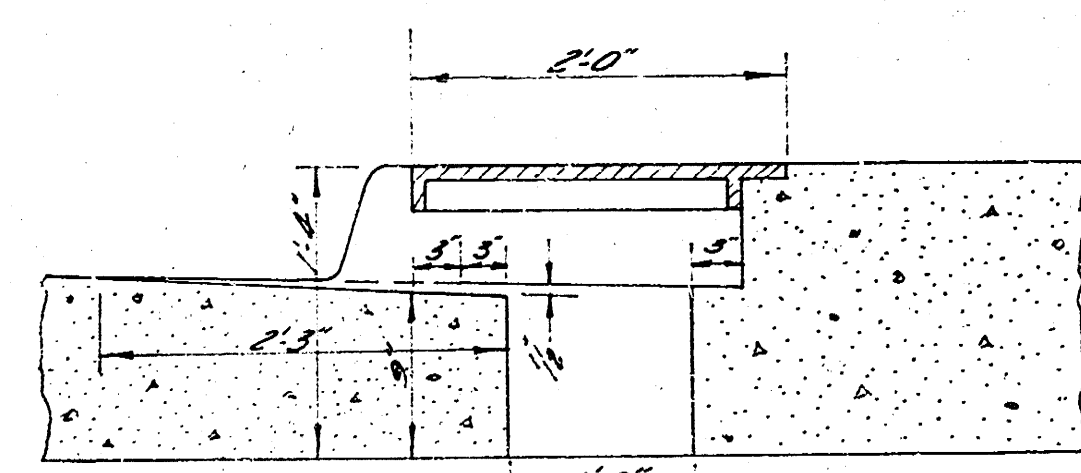
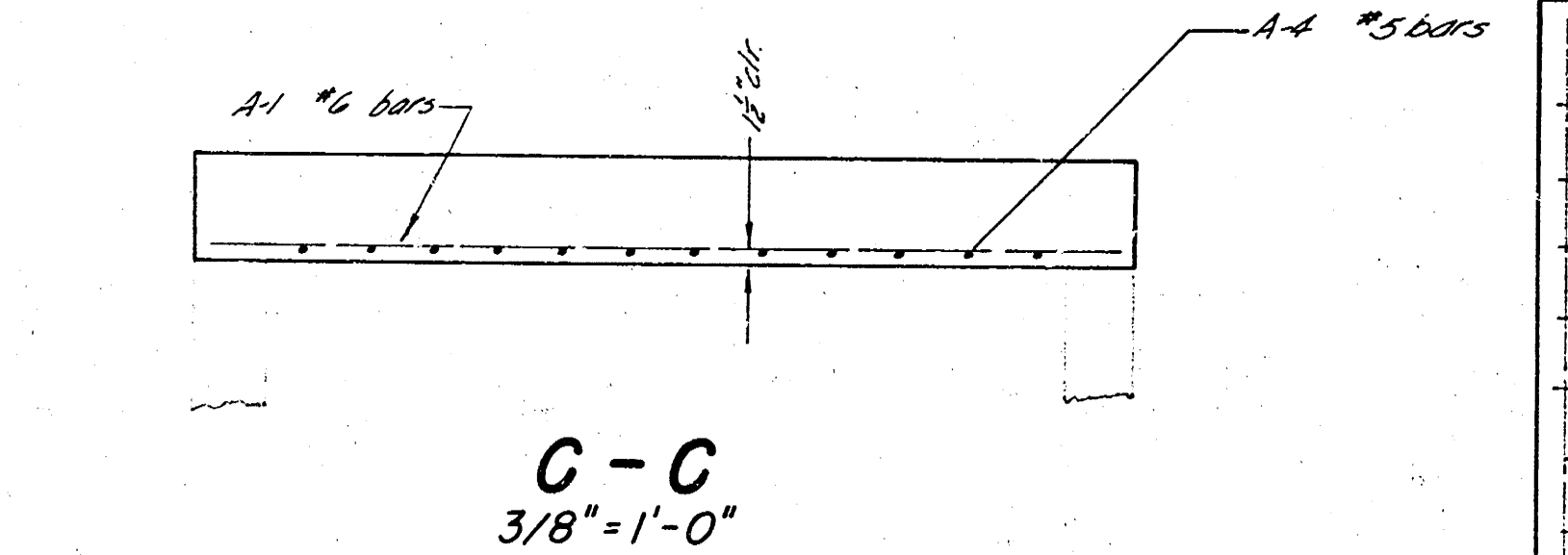
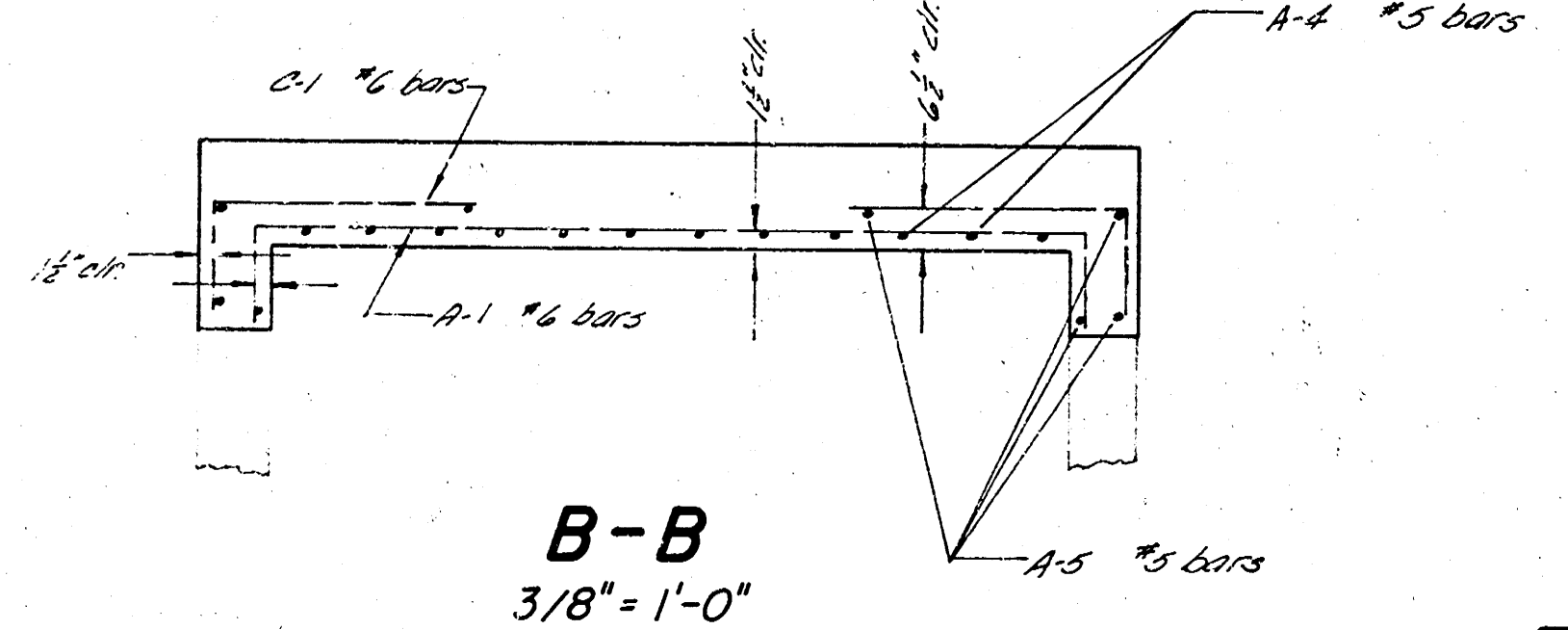
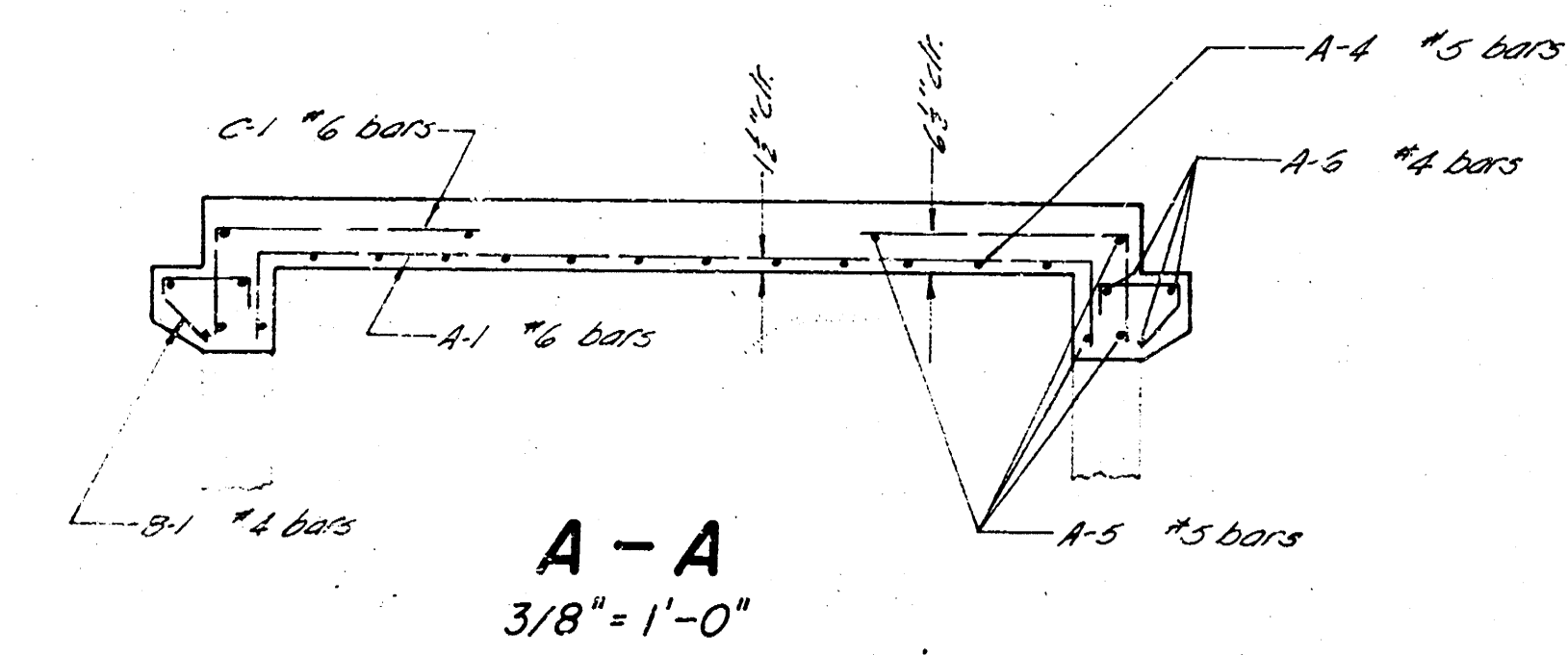
*Note to Contractor:*  
This existing culvert has a roadway  
surface consisting of 5"x12"x36" timbers supported  
by (36) 4"x12"x12" timber stringers parallel to  
the street. An asphalt seal course approx. 3"  
thick provides the driving surface. Wooden  
sidewalks are supported on each end of culvert  
by (4) 4"x12"x12" timber stringers.  
Walls, base slabs & paved channels are  
12" concrete. All existing concrete to remain.  
The contractor shall remove the existing  
timber roadway & salvage all reusable material  
and store at the site as directed by the  
city supt. of street maintenance; all other  
material shall be removed from the site and  
disposed of.  
The existing wooden handrails shall be salvaged  
and used on the new structure. See sheet #3.

| BILL OF MATERIAL      |          |       |
|-----------------------|----------|-------|
| Item                  | Quantity | Unit  |
| Class A-AE Concrete   | 1.52     | Cu Yd |
| 8" Sock Concrete      | 3.5      | Cu Yd |
| Reinforcing Steel     | 3220     | Lbs   |
| Catch Basin Lids      | 4        | Each  |
| Hand Excavation       | 17       | Cu Yd |
| Timber Structure Rem. | 1        | Each  |

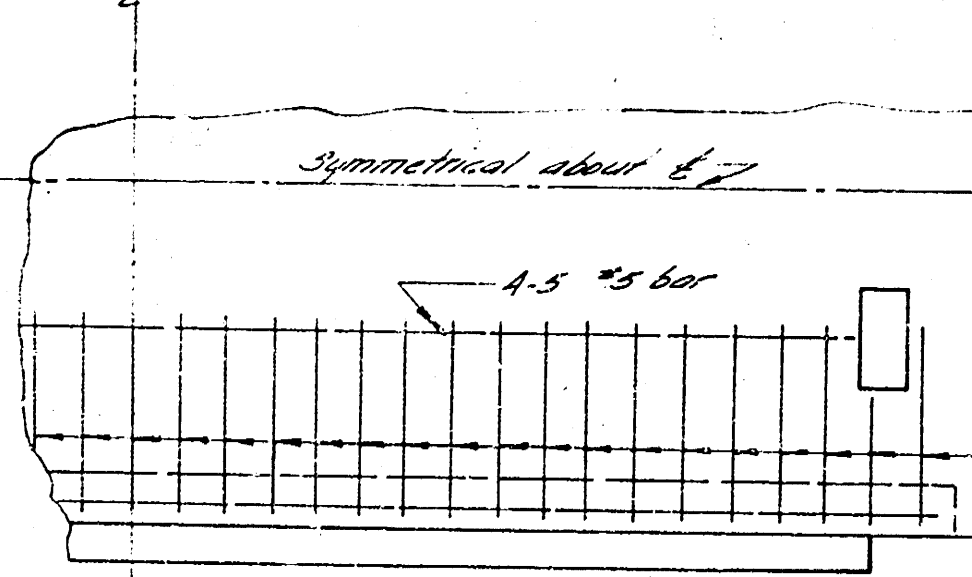
|                                       |                       |
|---------------------------------------|-----------------------|
| CITY ENGINEERING DEPARTMENT           |                       |
| WICHITA KANSAS                        |                       |
| SUNNYBROOK IMPROVEMENT STREET CULVERT |                       |
| LOCATION                              |                       |
| OCTOBER 1960                          |                       |
| PROJ. NO. C19-223                     |                       |
| SCALE<br>1" = 10'                     | DRAWN BY<br>JIM JONES |
| CHECKED BY                            | SHEET NO.<br>ONE      |



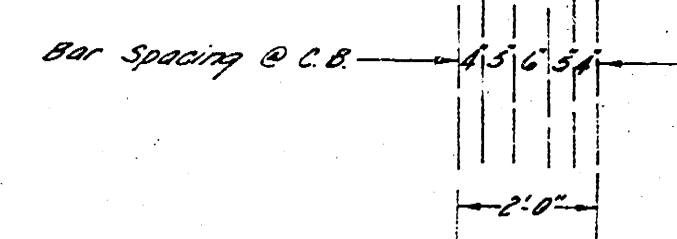
All reinf steel to be 1/8" clear of exposed face



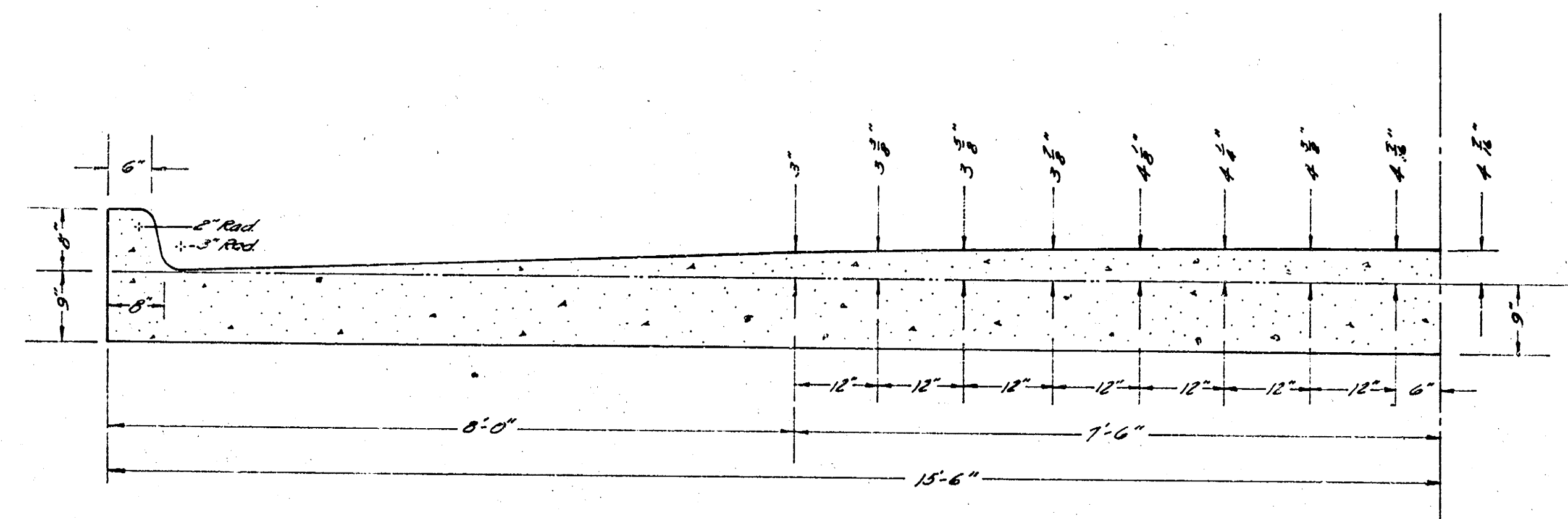
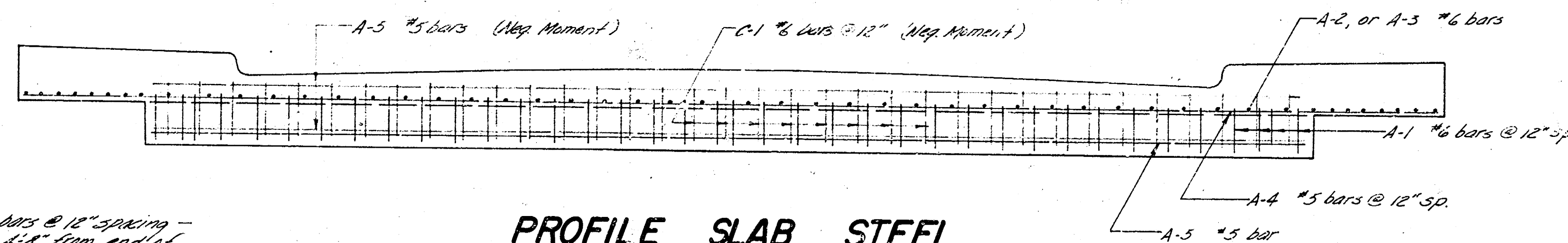
**NEGATIVE MOMENT STEEL**  
1/4" = 1'-0"



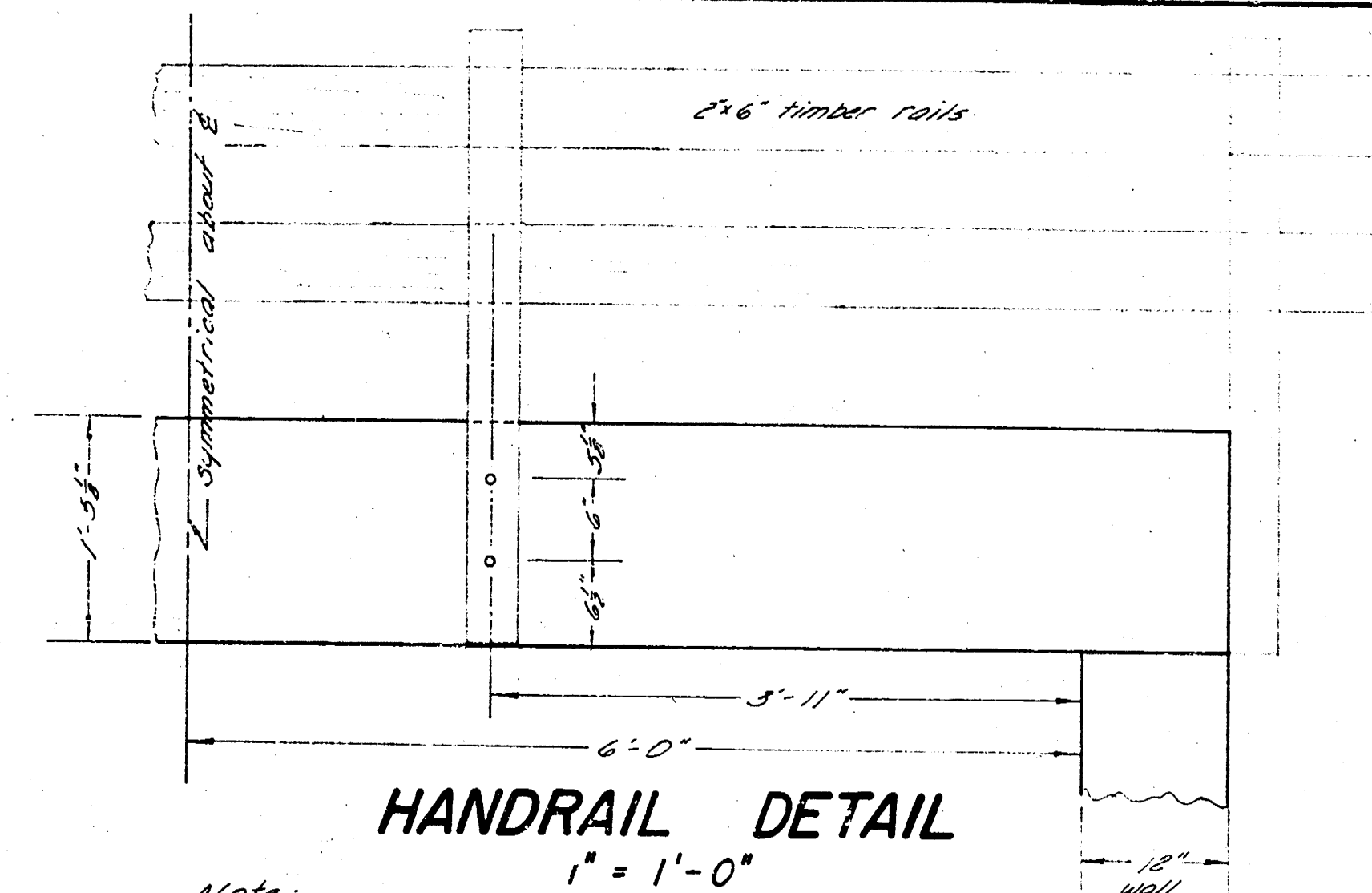
**POSITIVE MOMENT STEEL IN SLAB**  
3/8" = 1'-0"



**PROFILE SLAB STEEL**  
3/8" = 1'-0"



**HANDRAIL DETAIL**  
1" = 1'-0"

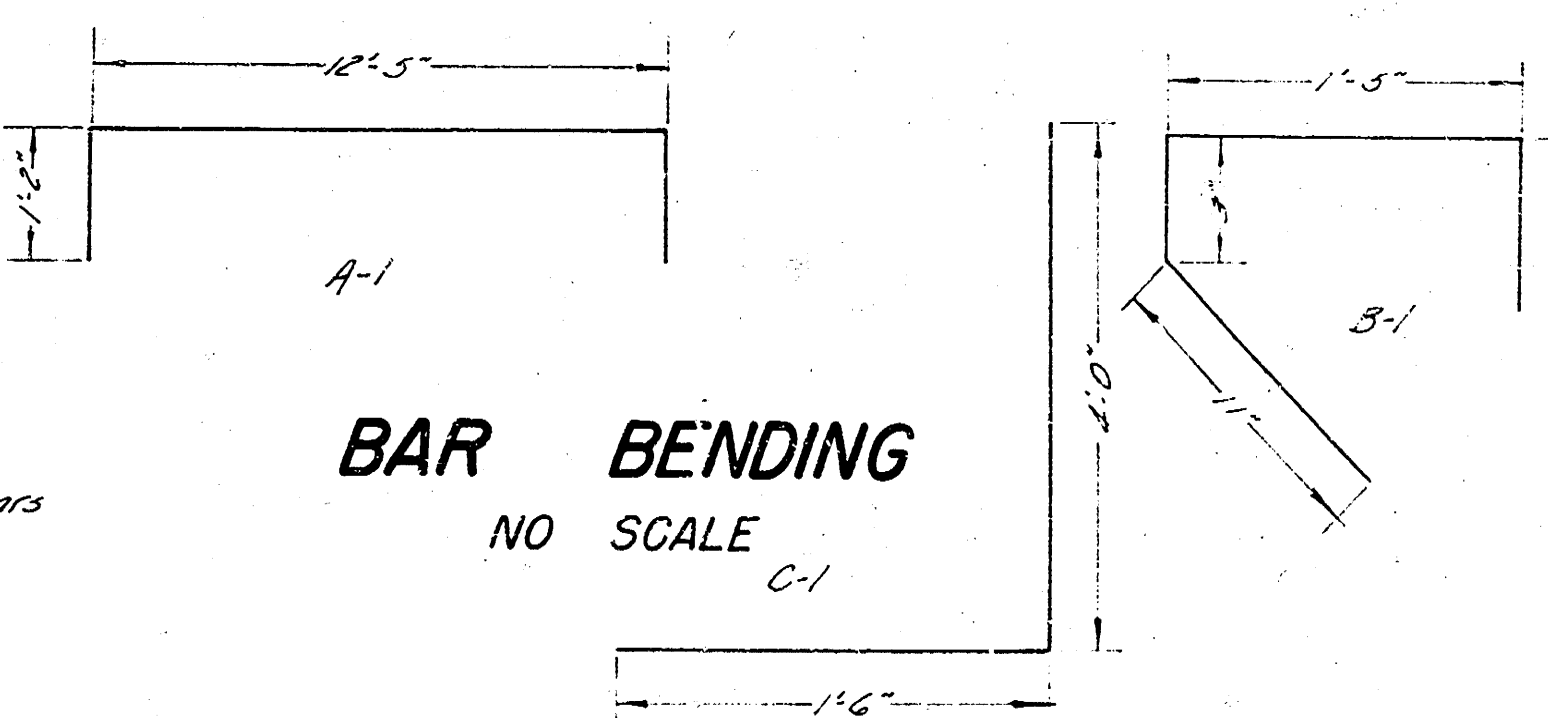


*Note:* Wooden handrails to be salvaged from old structure & re-constructed on new slab. Reverse existing 1/2" x 1 1/2" bolts & embed in concrete as shown in detail. The city field engr may authorize changes in procedure if necessary.

| BAR SCHEDULE |      |        |       |     |       |     |
|--------------|------|--------|-------|-----|-------|-----|
| BAR          | SIZE | LENGTH | SPAC. | NO. | SHAPE | WT. |
| A-1          | #6   | 14'-9" | 12"   | 38  | □     | 846 |
| A-2          | #6   | 9'-0"  | 12"   | 12  | □     | 360 |
| A-3          | #6   | 15'-6" | 12"   | 8   | □     | 162 |
| A-4          | #5   | 15'-4" | 12"   | 36  | □     | 576 |
| A-5          | #5   | 18'-3" | 16"   | 16  | □     | 320 |
| A-6          | #4   | 16'-8" | 12"   | 12  | □     | 131 |
| B-1          | #4   | 3'-0"  | 12"   | 64  | □     | 128 |
| C-1          | #6   | 3'-6"  | 12"   | 70  | □     | 578 |

min lap for A-4 bars = 18"  
min lap for A-5 bars = 15"  
min lap for A-6 bars = 12"

**BAR BENDING**  
NO SCALE



|                                                |                       |            |                    |
|------------------------------------------------|-----------------------|------------|--------------------|
| CITY ENGINEERING DEPARTMENT<br>WICHITA, KANSAS |                       |            |                    |
| IMPROVEMENT<br>SUNNYBROOK STREET CULVERT       |                       |            |                    |
| <b>STEEL DETAILS</b>                           |                       |            |                    |
| OCTOBER 1960<br>PROJ. NO. C19-223              |                       |            |                    |
| SCALE<br>AS NOTED                              | DRAWN BY<br>JIM JONES | CHECKED BY | SHEET NO.<br>THREE |