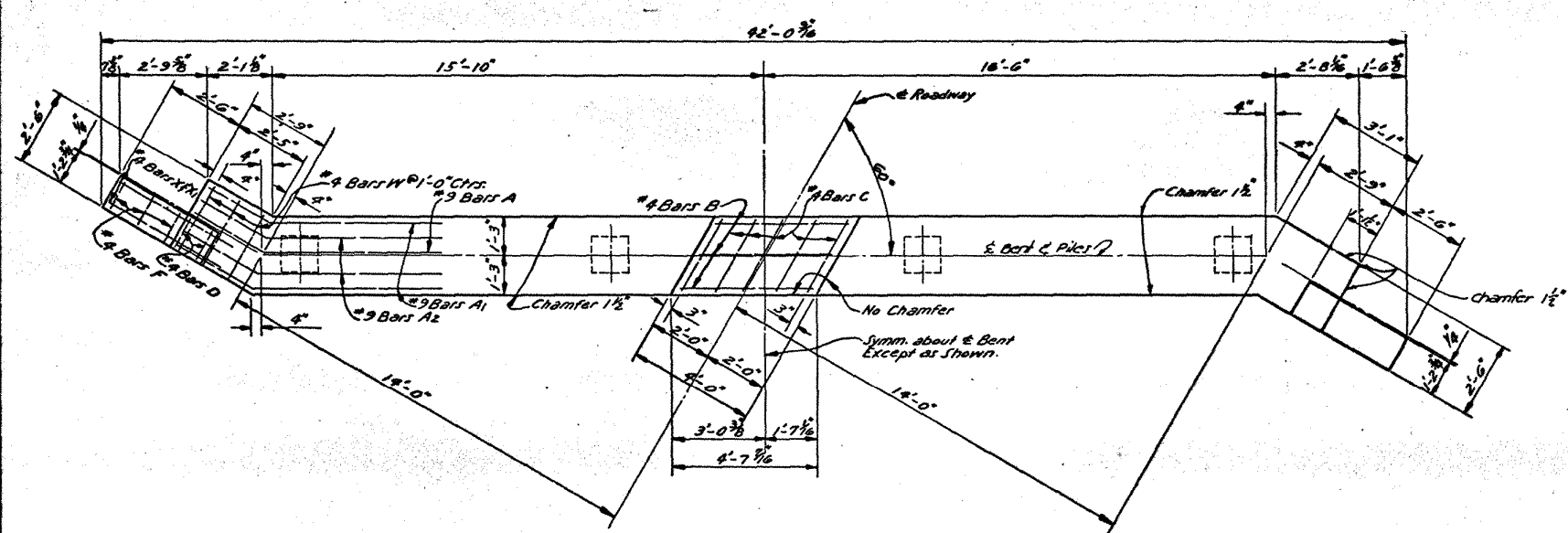
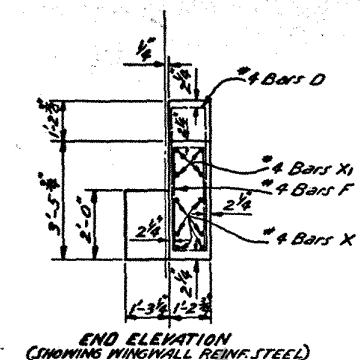
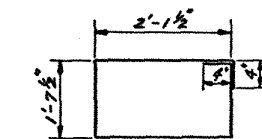




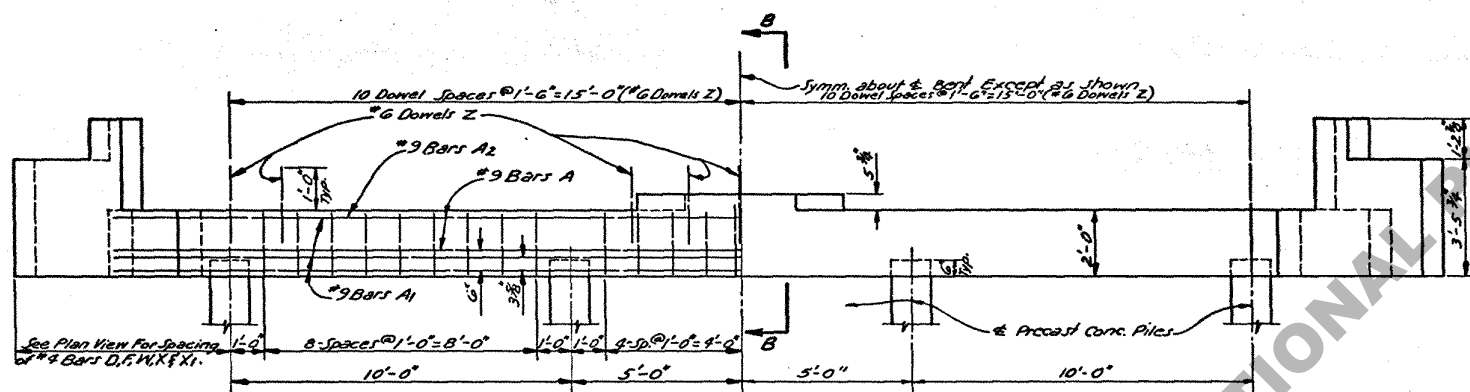
PLAN OF END BENT  
(60° RIGHT CROSSING)



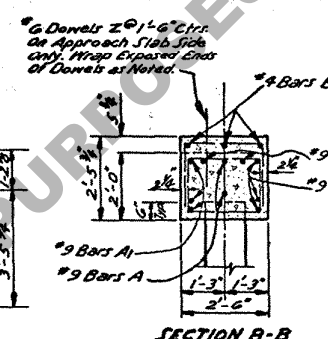
END ELEVATION  
(SHOWING WINGWALL REINFORCEMENT)



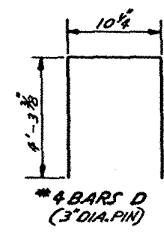
#4 STIRRUPS W  
(3\"/>



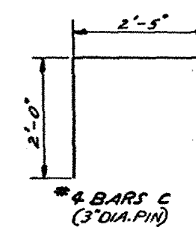
ELEVATION OF END BENT



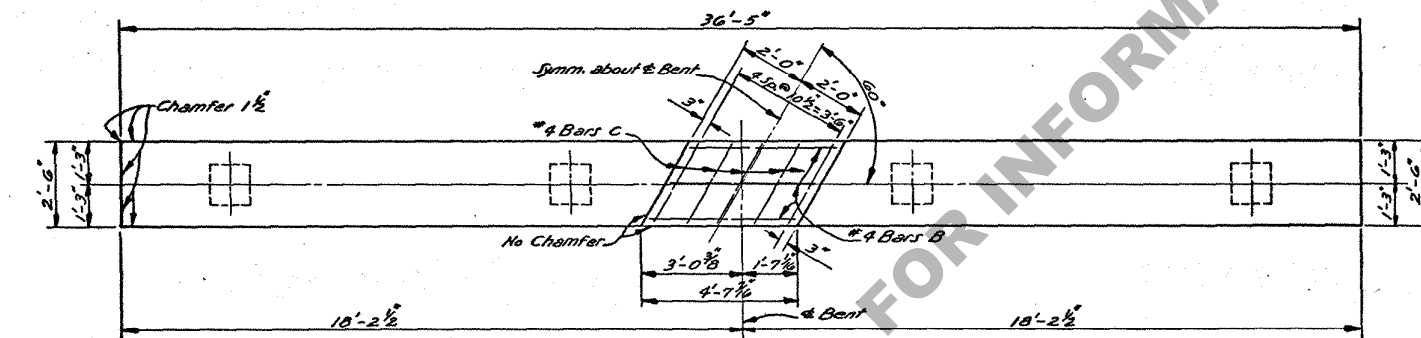
SECTION B-B



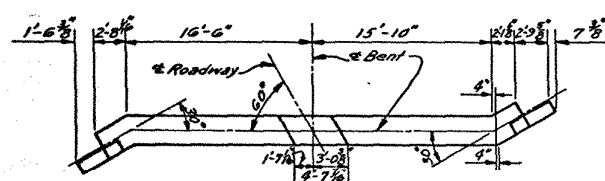
#4 BARS D  
(3\"/>



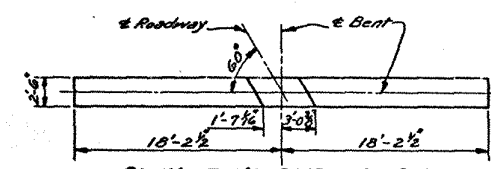
#4 BARS C  
(3\"/>



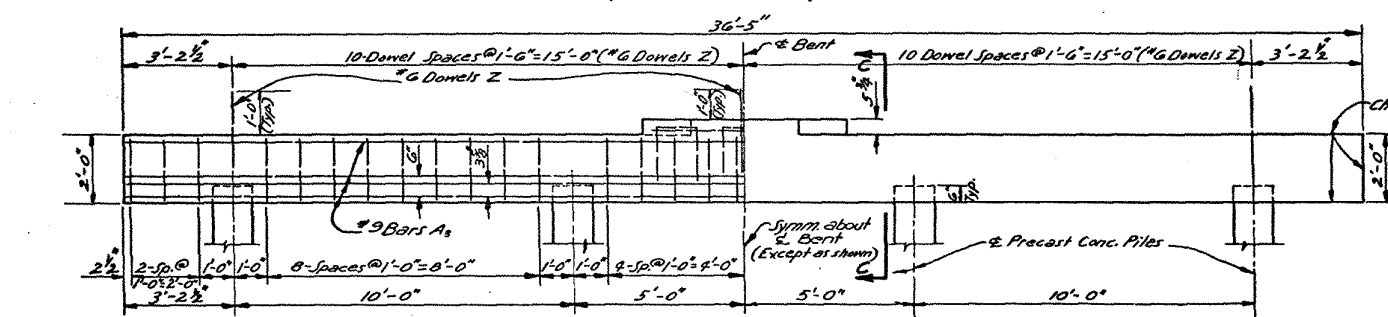
PLAN OF INTERMEDIATE BENT  
(60° RIGHT CROSSING)



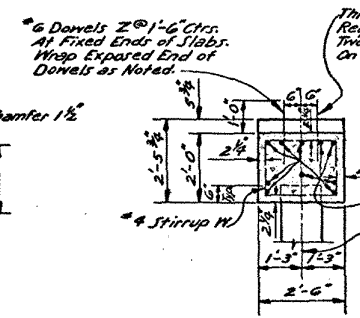
PLAN OF END BENT  
(60° LEFT CROSSING)



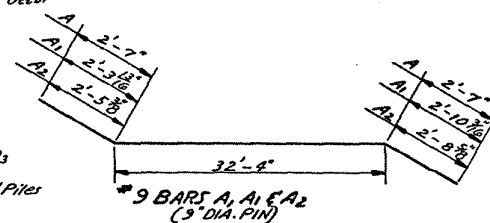
PLAN OF INTERMEDIATE BENT  
(60° LEFT CROSSING)



ELEVATION OF INTERMEDIATE BENT



SECTION C-C



#9 BARS A1, A2, A3  
(3\"/>

| ESTIMATED QUANTITIES (END BENT)           |      |    |             |                       |
|-------------------------------------------|------|----|-------------|-----------------------|
| BAR                                       | SIZE | Nº | UNIT LENGTH | TOTAL LENGTH LOCATION |
| A                                         | #9   | 2  | 37'-6"      | 75'-0" Long in Cap    |
| A1                                        | #9   | 6  | 37'-6"      | 225'-0" Long in Cap   |
| A2                                        | #9   | 2  | 37'-6"      | 75'-0" Long in Cap    |
| TOTAL # 9 BARS = 375'-0" = 1275 LBS.      |      |    |             |                       |
| Z                                         | #6   | 21 | 2'-3"       | 47'-3" Dowels         |
| TOTAL # 6 BARS = 47'-3" = 71 LBS.         |      |    |             |                       |
| B                                         | #4   | 3  | 4'-3"       | 12'-9" Riser          |
| C                                         | #4   | 5  | 6'-5"       | 32'-1" Riser          |
| D                                         | #4   | 4  | 9'-5"       | 37'-8" Wingwall       |
| F                                         | #4   | 6  | 8'-7"       | 51'-6" Wingwall       |
| X                                         | #4   | 12 | 4'-0"       | 48'-0" Wingwall       |
| X1                                        | #4   | 8  | 3'-3"       | 26'-0" Wingwall       |
| W                                         | #4   | 33 | 8'-2"       | 269'-6" Stirrups      |
| TOTAL # 4 BARS = 477'-6" = 319 LBS.       |      |    |             |                       |
| TOTAL DEFORMED REINF. STEEL = 1665 LBS.   |      |    |             |                       |
| *TOTAL CLASS "A" CONCRETE = 8.18 CU. YDS. |      |    |             |                       |
| *AVERAGE PILE LOAD = 33.4 TONS            |      |    |             |                       |

| ESTIMATED QUANTITIES (INTERMEDIATE BENT)  |      |    |             |                       |
|-------------------------------------------|------|----|-------------|-----------------------|
| BAR                                       | SIZE | Nº | UNIT LENGTH | TOTAL LENGTH LOCATION |
| A3                                        | #9   | 10 | 36'-1"      | 360'-10" Long in Cap  |
| TOTAL # 9 BARS = 360'-10" = 1227 LBS.     |      |    |             |                       |
| Z                                         | #6   | 21 | 2'-3"       | 47'-3" Dowels         |
| TOTAL # 6 BARS = 47'-3" = 71 LBS.         |      |    |             |                       |
| B                                         | #4   | 3  | 4'-3"       | 12'-9" Riser          |
| C                                         | #4   | 5  | 6'-5"       | 32'-1" Riser          |
| W                                         | #4   | 33 | 8'-2"       | 269'-6" Stirrups      |
| TOTAL # 4 BARS = 314'-4" = 210 LBS.       |      |    |             |                       |
| TOTAL DEFORMED REINF. STEEL = 1508 LBS.   |      |    |             |                       |
| *TOTAL CLASS "A" CONCRETE = 6.85 CU. YDS. |      |    |             |                       |
| *AVERAGE PILE LOAD = 33.4 TONS            |      |    |             |                       |

\* Add 71' of Reinforcing Steel (21 #6 Dowels Z) When 2 Fixed Ends Occur on One Intermediate Bent.  
 \* Quantities Computed Assuming 14" Precast Concrete Piles.  
**GENERAL NOTES:**  
 CONSTRUCTION SPECIFICATIONS: Latest Approved La. Dept. of Highways Standard Specifications.  
 DESIGN SPECIFICATIONS: A. A. S. H. O. Std. Specs. for Highway Bridges, 1964, as Amended by Interim Spec. 1968.  
 LIVE LOAD: HS 20-44.  
 Reinforcing Steel Bent shall be Intermediate or Hard Grade, A.S.T.M. A315 or A.S.T.M. A108 or Rail Steel, A.S.T.M. A105 Conforming With A.S.T.M. A305.  
 Dimensions Relating to Reinforcing Steel are to Bar Centers.  
 All Concrete to be Class "A".  
 All Exposed Ends of #6 Dowels Z to be Wrapped With 2 Layers of 15" Tor Paper, Close Fitting, Taper Made of Compressible Material Not Less Than 3/8" Thickness, May be Substituted.  
 All Corners to be Chamfered 3/4" Unless Otherwise Noted.  
 Tor Paper Wrapping to be Included in Price Bid for Class "A" Concrete.  
 For Details of Concrete Piles see Std. Plan as Shown on Gen. Plan.  
 On End Bents, all Exposed Vertical Surfaces and Chamfers on Cap to have Class 2 Rubbed Finish.  
 All Exposed Surfaces on Wingwall beyond the Limits of the Edge of Bridge Slab to have a Class 2 Rubbed Finish.  
 On Intermediate Bents, all Vertical Surfaces and Chamfers above the Low Water or Ground Line to have a Class 2 Rubbed Finish.

| BENTS                             |                       |                     |
|-----------------------------------|-----------------------|---------------------|
| STANDARD PLAN                     |                       |                     |
| PRECAST CONCRETE PILE BENTS       |                       |                     |
| FOR 20'-0" CONCRETE SLAB SPANS    |                       |                     |
| LIVE LOAD: HS 20-44               |                       |                     |
| 28'-0" ROADWAY 1'-6" SAFETY CURBS |                       |                     |
| DATED: March 1, 1967              |                       |                     |
| STATE OF LOUISIANA                |                       |                     |
| DEPARTMENT OF HIGHWAYS            |                       |                     |
| DESIGNED: Khalil Sino             | DETAILED: Khalil Sino | TRACED: R. M. H. A. |
| CHECKED: Samir Sino               | CHECKED: Samir Sino   | CHECKED: Samir Sino |
| BRIDGE DESIGN SECTION             |                       |                     |