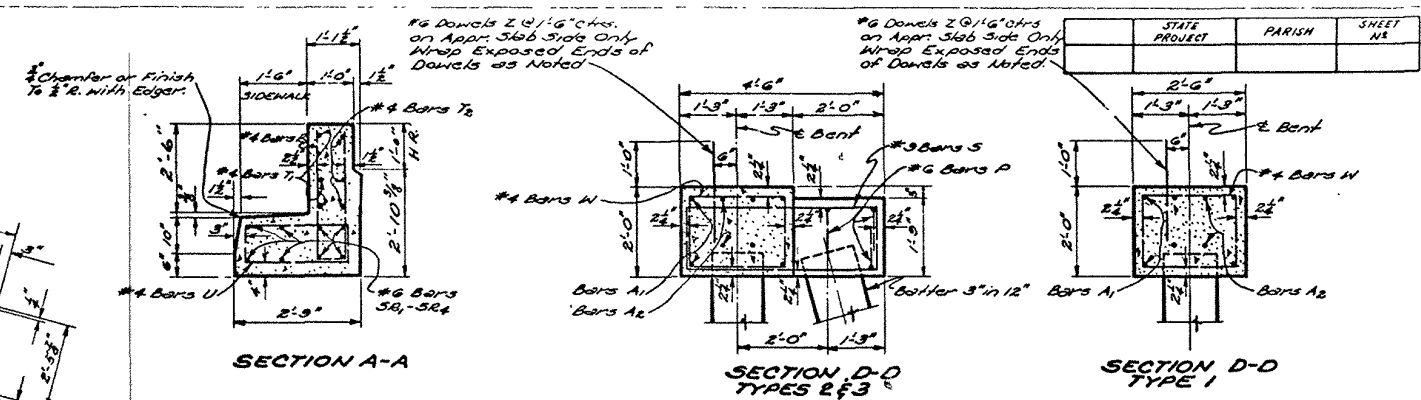
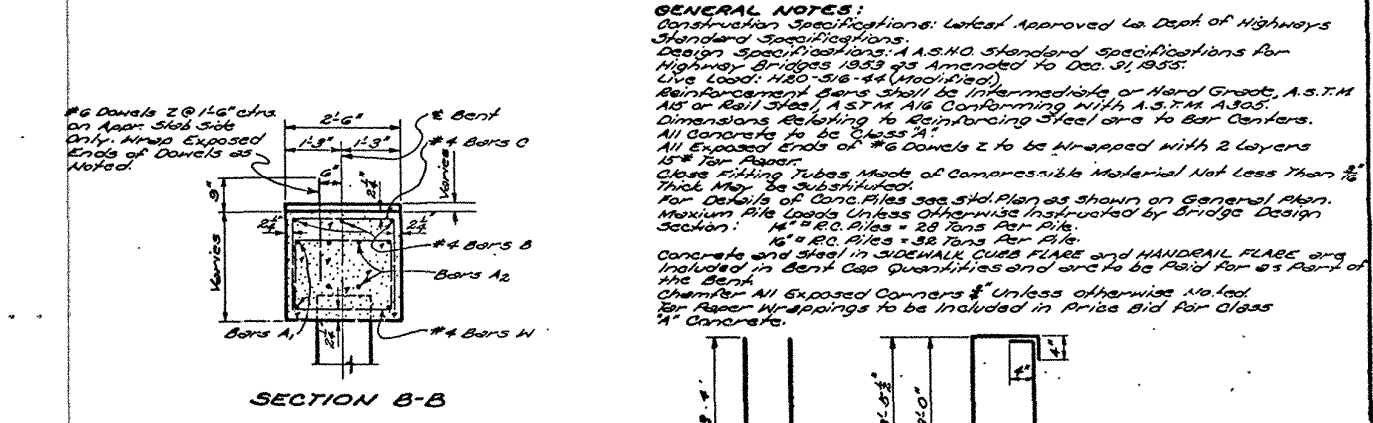
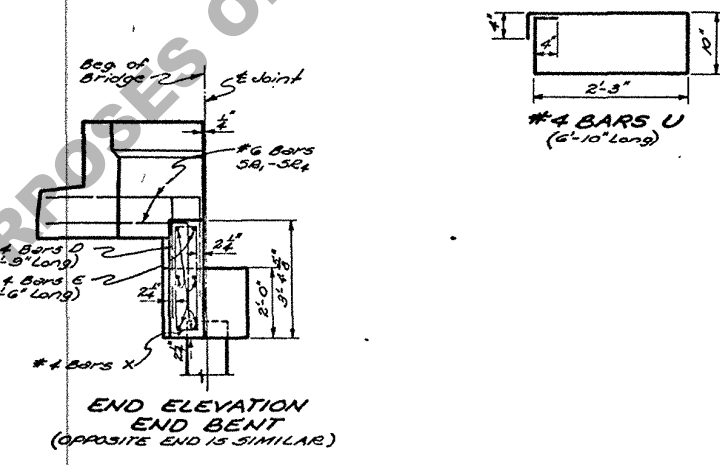




| TYPE OF END BENT REQUIRED |                        |            |         |
|---------------------------|------------------------|------------|---------|
| END BENT                  | GROUND TO GRADE (FEET) | SUSPENSION | EXPOSED |
| TYPE 1                    | 0-5                    | POOR       | 0       |
|                           | 0-8                    | GOOD       |         |
| TYPE 2                    | 5-10                   | POOR       | 2       |
|                           | 8-16                   | GOOD       |         |
| TYPE 3                    | 10+                    | POOR       | 3       |
|                           | 16+                    | GOOD       |         |

| QUANTITIES AND PILE LOADS |                               |                                |                                                  |                                |
|---------------------------|-------------------------------|--------------------------------|--------------------------------------------------|--------------------------------|
| ITEM<br>TYPE              | SIZE OF<br>PILES<br>1, A1, A2 | CLASS A*<br>CURVED<br>(CU TOS) | DEFLECTED<br>CURVED<br>STEEL PILE LOAD<br>(LBS.) | AVERAGE<br>PILE LOAD<br>(TONS) |
| 4-PILE END BENT *         |                               |                                |                                                  |                                |
| TYPE 1                    | #8                            | 10.62                          | 146.                                             | 30.7                           |
| TYPE 2                    | #8                            | 11.48                          | 153.8                                            | 30.7                           |
| TYPE 3                    | #8                            | 11.96                          | 20.36                                            | 30.7                           |
| 5-PILE END BENT *         |                               |                                |                                                  |                                |
| TYPE 1                    | #7                            | 10.51                          | 1290                                             | 24.7                           |
| TYPE 2                    | #7                            | 11.50                          | 1667                                             | 24.7                           |
| TYPE 3                    | #7                            | 11.99                          | 1855                                             | 24.7                           |
| INTERMEDIATE BENT         |                               |                                |                                                  |                                |
| 4-PILE                    | #8                            | 6.39                           | 941 *                                            | 30.7                           |
| 5-PILE                    | #7                            | 6.39                           | 785 *                                            | 24.7                           |

- \* Quantities computed Assuming 14" R.C. Piles for 5' Pile Bent and 16" R.C. Piles for 4' Pile Bent
- \* To Provide for Future Extension of Bridge, End Bents are Designed for same Load as Intermediate Bents.
- \* Add 65% of Reinforcing Steel (20" #6 Dowsels Z) When 2 Fixed Ends Occur on an Intermediate Bent.



7'3"

1'0"

#4 BARS X 6' X 1/2"

#4 BARS X 6' X 1/2"

BRIDGES OVER 150 FT.

