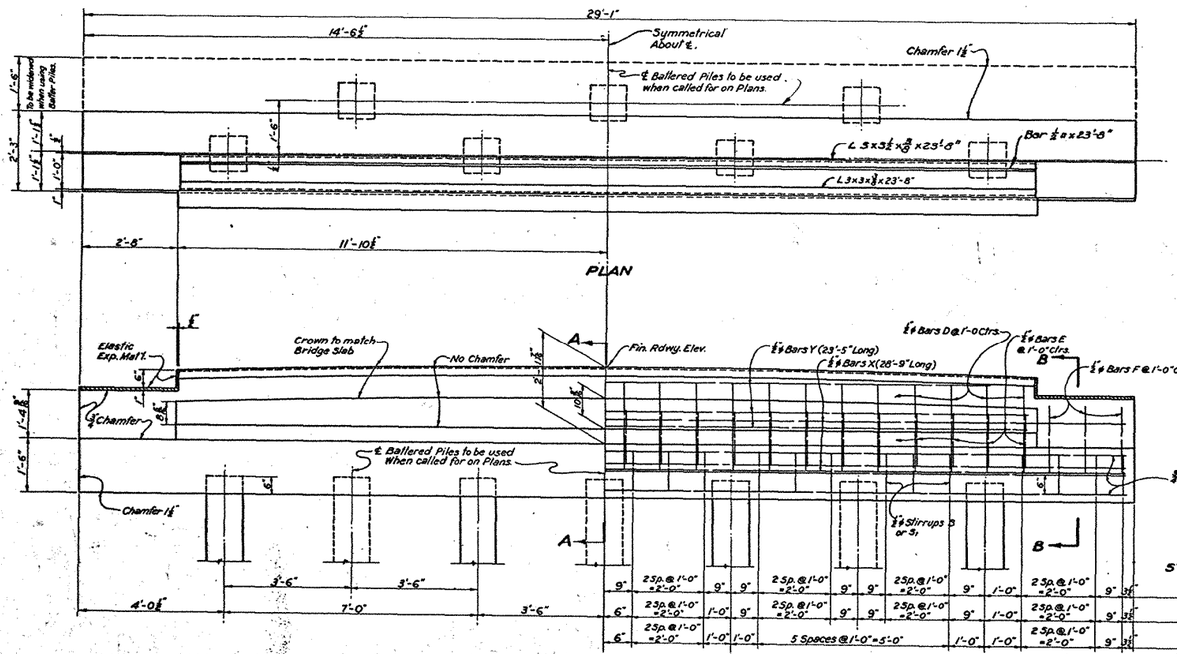
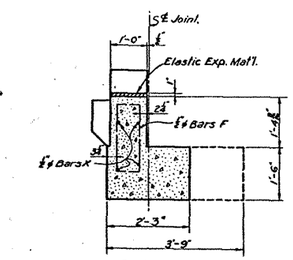
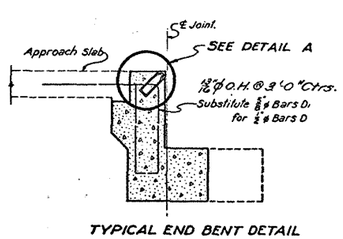


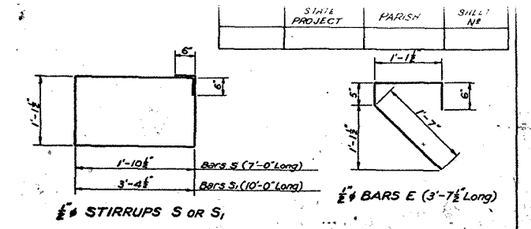

ELEVATION END BENT

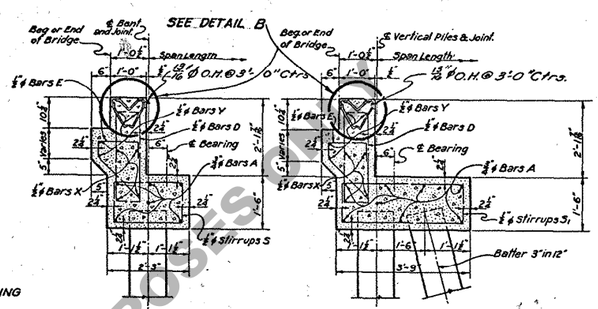



SECTION B-B
Showing Wall Reinf. only.



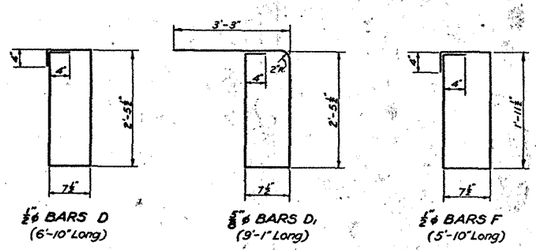

TYPICAL END BENT DETAIL
WHEN USING APPROACH SLAB



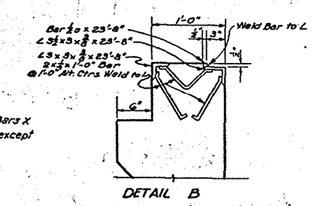



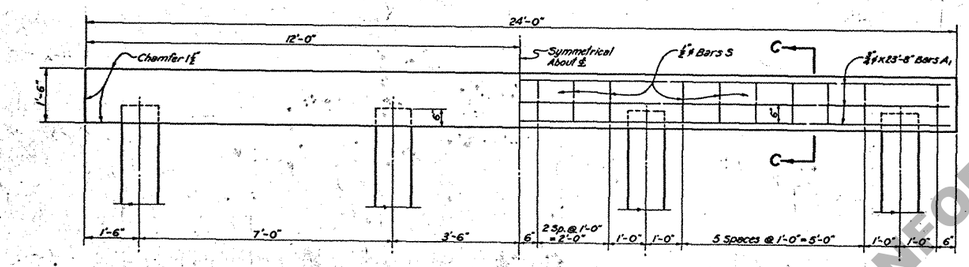

SECTION A-A
TYPE 1

SECTION A-A
TYPE 2
TYPE 3

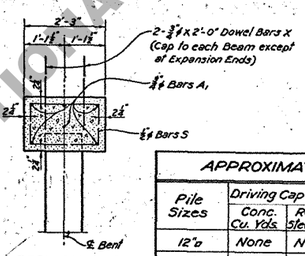



| TYPE OF END BENT REQUIRED | | | |
|---|---|---|---|
| END BENT | GROUND TO GRADE FEET | SUB SOIL | BATTERED PILES |
| TYPE 1 | 0-5 | Poor | 0 |
| | 0-8 | Good | |
| TYPE 2 | 5-10 | Poor | 2 |
| | 8-16 | Good | |
| TYPE 3 | 10+ | Poor | 3 |
| | 16+ | Good | |




ELEVATION INTERMEDIATE BENT




SECTION C-C

| APPROXIMATE QUANTITIES FOR PILES | | | | | | |
|---|---|---|---|---|---|---|
| Pile Sizes | Driving Cap Totals | | Variable Part Per Lin. Ft. | | Tapered Part Totals | |
| | Conc. Cu. Yds. | Reinf. Steel Lbs. | Conc. Cu. Yds. | Reinf. Steel Lbs. | Conc. Cu. Yds. | Reinf. Steel Lbs. |
| 12"ø | None | None | .037 | 9 | .085 | 49 * |
| 14"ø | .031 | 36 | .051 | 15 | .170 | 112 ** |

* Includes steel projecting into cap.
** Includes ⅝"ø bars at lifting points.

## QUANTITIES

| END BENT * | | | | | | | | INTERMEDIATE BENT † | |
|---|---|---|---|---|---|---|---|---|---|
| TYPE | | | | | | | | | |
| ONE | | TWO | | THREE | | FAB. CARBON STEEL LBS. | | CLASS "A" CONC. CU. YDS. | DEF. REINF. STEEL LBS. |
| CLASS "A" CONC. CU. YDS. | DEF. REINF. STEEL LBS. | CLASS "A" CONC. CU. YDS. | DEF. REINF. STEEL LBS. | CLASS "A" CONC. CU. YDS. | DEF. REINF. STEEL LBS. | | | | |
| 6.11 | 711 | 8.49 | 849 | 8.48 | 849 | 440 | | 2.93 | 355 |

* When using Approach Slab Deduct 193 Lbs. Fab. Carbon Steel. Add 118 Lbs. Def. Reinf. Steel.
† At Exp. Joints Deduct 24 Lbs. Reinf. Steel (8 Bars X @ 2'-0")

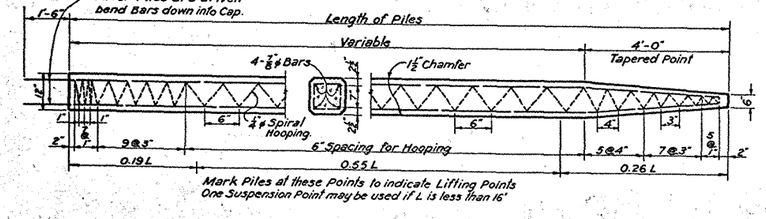
PILE LOADING *

20 FT. SPANS — 17.5 Tons per Pile.
24 FT. SPANS — 19.2 Tons per Pile.

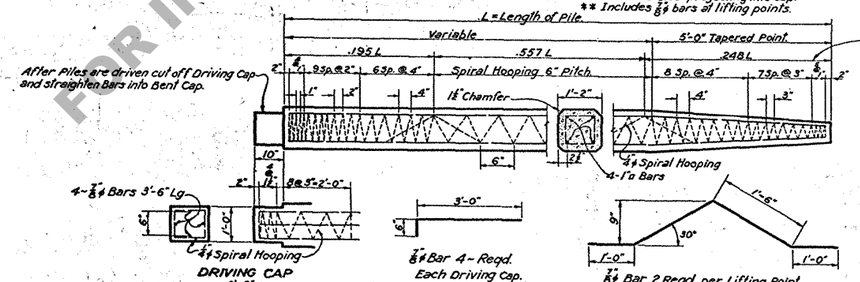
* To provide for future Extension of Bridge the End Bents are designed for same Load as Intermediate Bents.

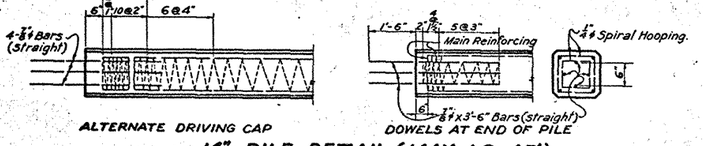
Max. Pile Loads Unless Otherwise Instructed By Dr. Design Eng.
14"ø = R.C. Piles = 24 Tons
12"ø = R.C. Piles = 23 Tons

Note: Maximum Height Ground to Grade with 12"ø Conc. Piles = 15'-0"; with 14"ø Piles = 20'-0".

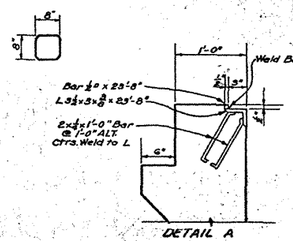



12"ø PILE DETAIL (MAX. LG. 35')




14"ø PILE DETAIL (MAX. LG. 45')




GENERAL NOTES:
Construction Specs. Latest approved La. Hwy. Dept. Std. Specifications.
Design Specs.: A.A.S.H.O., 1941 except Reinf. Steel in Tension = 20,000#/□"
Live Load: H15
All Dimensions to Reinforcing Steel are to Bar centers.
Reinforcing Steel to be Structural or Intermediate Grade.
Quantities computed assuming 12"ø Piles.

| DATE | DESCRIPTION | BY |
|---|---|---|
| 12-12-51 | Added Cover ℄ | Lowe/ce |
| 7-9-49 | Note Covering Max. Pile Loading | "HOK" |
| 3-21-49 | GRADE OF REINF. STEEL | PAG/AC |
| 5/4/48 | SECT. B-B WIDTH OF CAP | J.D.R. |
| 12/18/47 | Bar Sp. & O.H. in B | J.T.H. |
| 11-19-47 | 3x3x⅜ L's CORRECTED | C.E.A. |

REVISIONS

STANDARD PLAN
REINF. CONCRETE PILE BENTS
FOR R.C.D.G. SPANS H15 LOADING
24'-0" CLEAR ROADWAY 1'-6" SIDEWALKS
20 FT. AND 24 FT. SPANS
TO BE USED WITH STD. PLAN C.G. 60-15 Rev.

DATED: Jan. 1947

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED T.A.B — DETAILED [illegible] — TRACED [illegible]
CHECKED Huey — CHECKED Huey — CHECKED Huey

BRIDGE DESIGN SECTION

C-S-190-15

FOR INFORMATIONAL PURPOSES ONLY