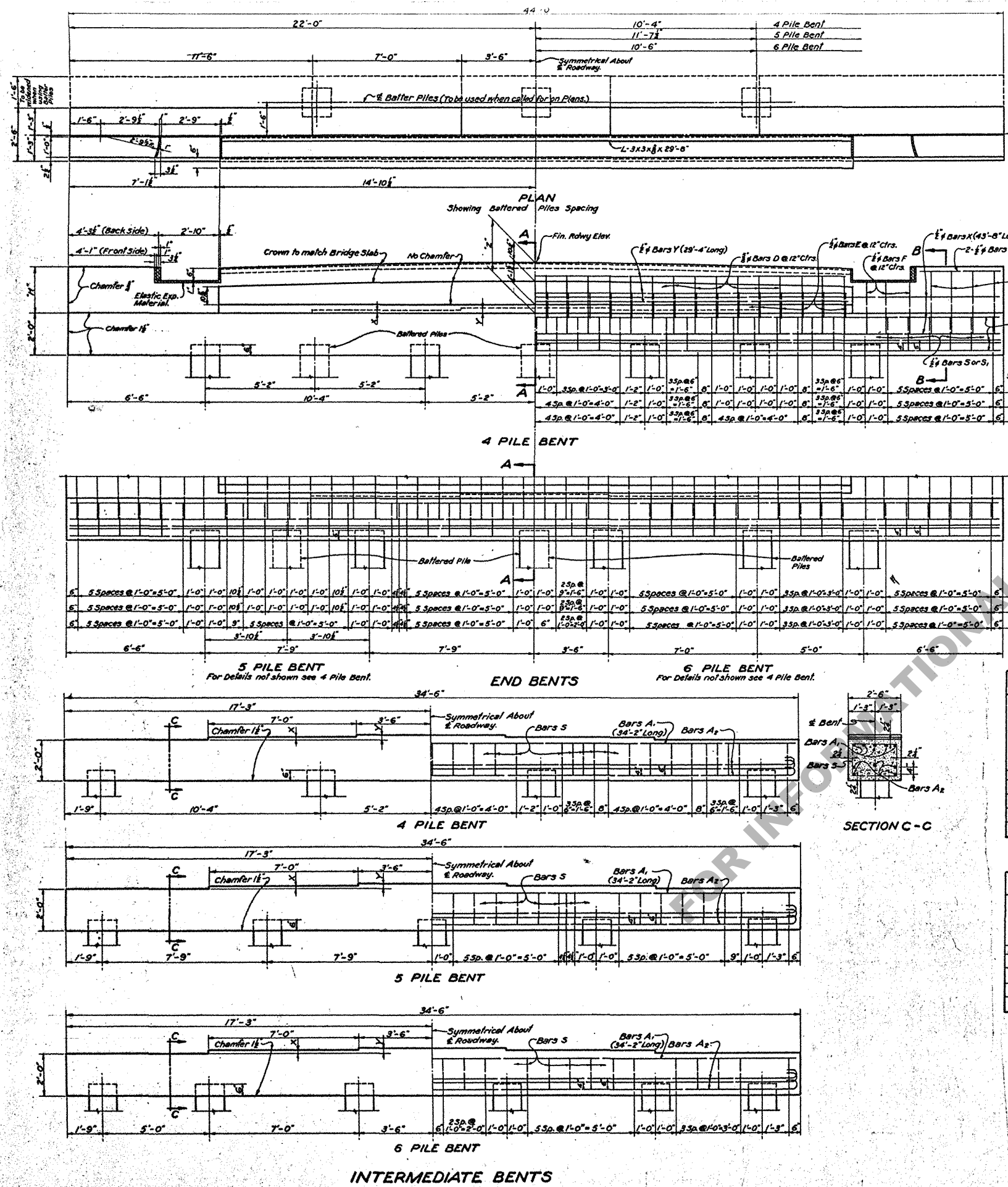




TYPICAL END BENT DETAIL
WHEN NOT USING APPROACH SLAB

SECTION A-A
20 FT. SPAN
TYPE 1

SECTION A-A
25 FT. TO 35 FT. SPANS
TYPE 1

SECTION B-B
Showing Wing Reinf. Only.

SECTION C-C

SIZE OF BARS A-A, A₂

SPAN FEET	BENT		
	4-PILE	5-PILE	6-PILE
20	1 1/2"	—	—
25	1 1/2"	1"	—
30	—	1 1/2"	1"
35	—	1 1/2"	1 1/2"

TYPE OF END BENT REQUIRED

END BENT	GROUND TO GRADE FEET	SUBSOIL	
		BATTERED PILES	OTHER
TYPE 1	0-5	Poor	0
	5-10	Good	—
TYPE 2	5-10	Poor	2
	10-15	Good	—
TYPE 3	10-15	Poor	3
	15+	Good	—

END BENT QUANTITIES ~ DIMENSIONS AND PILE LOADS ***

SPAN	DIMENSIONS		4 PILES				5 PILES				6 PILES				FAB. CARBON STEEL LBS.	SPAN	
	Z'	H'	TYPE		AV. PILE LOAD TONS	TYPE		AV. PILE LOAD TONS	TYPE		AV. PILE LOAD TONS						
			ONE	TWO		ONE	TWO		ONE	TWO							
20	2-4 1/2	2-2	12.47	2840	17.47	3294	17.44	3286	27.7	—	—	—	—	—	266	20	
25	2-7 1/2	2-5	12.90	3301	17.90	3844	17.87	3836	32.0	12.87	2437	17.87	2803	17.84	2803	25.7	25
30	2-10 1/2	2-8	—	—	—	—	—	—	—	13.28	2852	18.30	3296	18.20	3296	28.8	30
35	2-10 1/2	2-8	—	—	—	—	—	—	—	13.30	3293	18.33	3286	18.23	3286	31.7	35

* To provide for Future Extension of Bridge, the End Bents are designed for same Load as Intermediate Bents.
** When not using Approach Slab add 240 Lbs. of Fabricated Carbon Steel.

INTERMEDIATE BENT QUANTITIES AND PILE LOADS

SPAN	4 PILES		5 PILES		6 PILES		SPAN
	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.	
20	6.59	1723	27.7	—	—	—	20
25	6.59	2085	32.0	6.56	1373	25.7	25
30	—	—	—	6.56	1695	28.8	30
35	—	—	—	6.54	2057	31.7	35

ALLOWABLE PILE LOADS:
 14" R.C. Piles 15'-35' Long = 28 Tons per Pile.
 16" R.C. Piles 36'-55' Long = 32 Tons per Pile.
 18" R.C. Piles 56'-70' Long = 36 Tons per Pile.

RISER DIMENSIONS

SPAN	X	Y
20	1 1/2"	2 1/2"
25	1 1/2"	2 1/2"
30	1 1/2"	2 1/2"
35	1 1/2"	2 1/2"

GENERAL NOTES:
 Construction Specifications: Latest approved La Hwy. Dept. Std. Specifications
 Design Specifications: A.A.S.H.O., 1944.
 Live Load: H-20-S16-44
 All Dimensions to Reinforcing Steel are to Bar Centers.
 Quantities Computed assuming use of 16" Piling.
 Cost of Expansion Material to be included in Price Bid for other Items.
 All Reinforcing Steel to be Intermediate Grade.

RE-TRACED

Note:
For Details of Concrete Piles see Std. Plan C.S. 149

**STANDARD PLAN
REINFORCED CONCRETE PILE BENT
FOR I-B.M. SPANS ~ H-20-S16-44 LOADING
30'-0" CLEAR ROADWAY 1'-6" SIDEWALKS
20 FT. TO 35 FT. SPANS
TO BE USED WITH STAND. PLAN S-C-42-20 REVISED
DATED May 1947**

**STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS**

DESIGNED: *[Signature]* CHECKED: *[Signature]* TRACED: *[Signature]*
 CHECKED: *[Signature]* CHECKED: *[Signature]* CHECKED: *[Signature]*

DATE: _____ DESCRIPTION: _____ BY: _____

REVISIONS

BRIDGE DESIGN SECTION