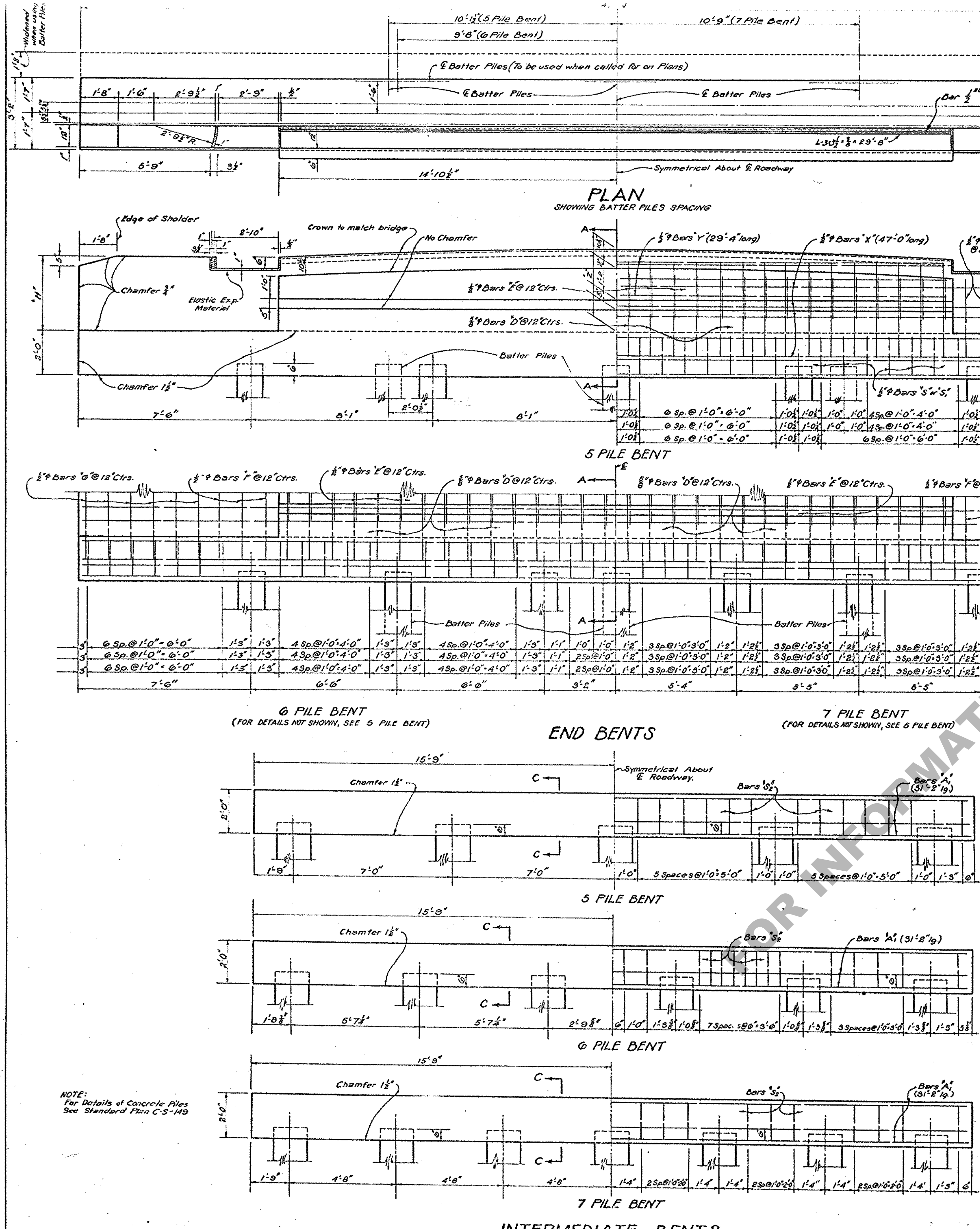

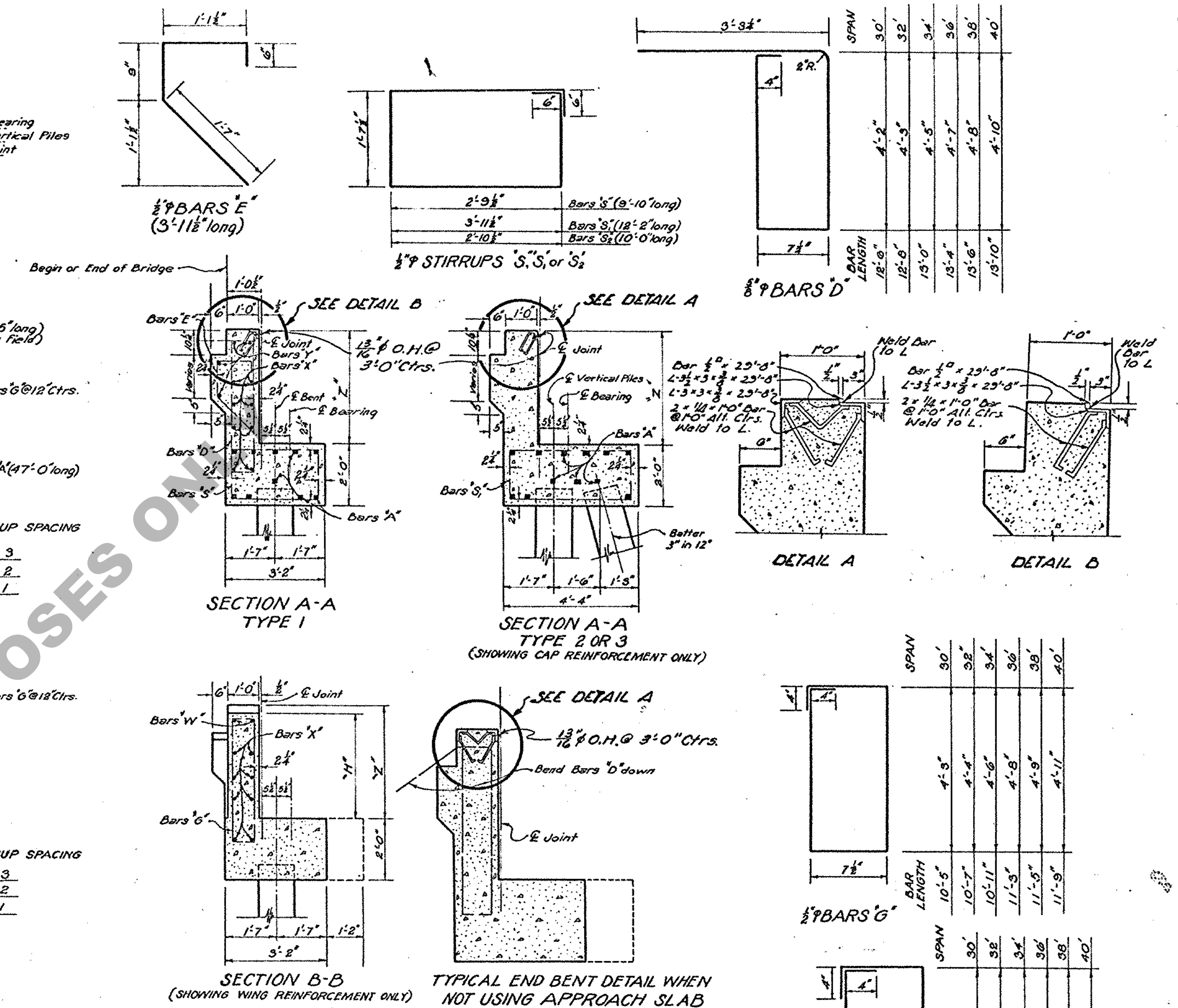

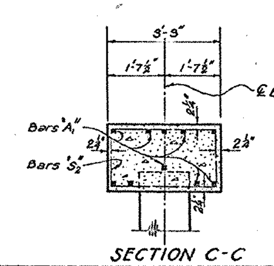

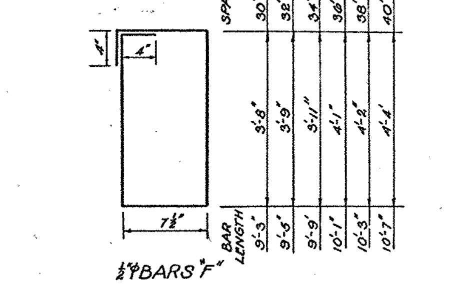

TYPE OF END BENT REQUIRED

END BENT	GROUND TO GRADE FEET	SUBSOIL	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	

INTERMEDIATE BENT QUANTITIES AND PILE LOADS

SPAN	5 PILE CLASS "A" CONC.	5 PILE DEF. REIN. STEEL	5 PILE AVE. PILE LOAD	6 PILE CLASS "A" CONC.	6 PILE DEF. REIN. STEEL	6 PILE AVE. PILE LOAD	7 PILE CLASS "A" CONC.	7 PILE DEF. REIN. STEEL	7 PILE AVE. PILE LOAD
FEET	CU. YDS.	LBS.	TONS	CU. YDS.	LBS.	TONS	CU. YDS.	LBS.	TONS
30	7.42	1234	36.2	7.39	1856	30.0	—	—	—
32	7.42	1234	38.1	7.39	1856	31.8	7.35	1194	27.2
34	—	—	—	7.39	1856	33.5	7.35	1194	28.8
36	—	—	—	7.39	1856	35.4	7.35	1194	30.3
38	—	—	—	7.39	1856	37.0	7.35	1194	31.7
40	—	—	—	7.39	1856	38.9	7.35	1194	33.4

END BENT QUANTITIES, DIMENSIONS, AND PILE LOADS ***

SPAN	DIMEN. "H"	DIMEN. "Z"	5 PILES TYPE ONE CLASS "A" CONC.	5 PILES TYPE ONE DEF. REIN. STEEL	5 PILES TYPE TWO CLASS "A" CONC.	5 PILES TYPE TWO DEF. REIN. STEEL	5 PILES TYPE THREE CLASS "A" CONC.	5 PILES TYPE THREE DEF. REIN. STEEL	5 PILES AVE. PILE LOAD
FEET	FT. IN.	FT. IN.	CU. YDS.	LBS.	CU. YDS.	LBS.	CU. YDS.	LBS.	TONS
30	3-4	3-6 3/4	17.66	3707	21.68	4257	21.65	4257	36.2
32	3-5	3-7 3/4	17.82	3715	21.84	4264	21.81	4264	38.1
34	3-7	3-9 3/4	—	—	—	—	—	—	—
36	3-9	3-11 3/4	—	—	—	—	—	—	—
38	3-10	4-0 3/4	—	—	—	—	—	—	—
40	4-0	4-2 3/4	—	—	—	—	—	—	—

SPAN	6 PILES TYPE ONE CLASS "A" CONC.	6 PILES TYPE ONE DEF. REIN. STEEL	6 PILES TYPE TWO CLASS "A" CONC.	6 PILES TYPE TWO DEF. REIN. STEEL	6 PILES TYPE THREE CLASS "A" CONC.	6 PILES TYPE THREE DEF. REIN. STEEL	6 PILES AVE. PILE LOAD
FEET	CU. YDS.	LBS.	CU. YDS.	LBS.	CU. YDS.	LBS.	TONS
30	17.63	3687	21.65	4249	21.62	4240	30.0
32	17.78	3695	21.81	4256	21.78	4248	31.8
34	18.09	3710	22.11	4270	22.08	4262	33.5
36	18.39	3724	22.42	4284	22.39	4277	35.4
38	18.55	3732	22.57	4292	22.54	4284	37.0
40	18.86	3745	22.88	4306	22.85	4298	38.9

SPAN	7 PILES TYPE ONE CLASS "A" CONC.	7 PILES TYPE ONE DEF. REIN. STEEL	7 PILES TYPE TWO CLASS "A" CONC.	7 PILES TYPE TWO DEF. REIN. STEEL	7 PILES TYPE THREE CLASS "A" CONC.	7 PILES TYPE THREE DEF. REIN. STEEL	7 PILES AVE. PILE LOAD	FAB. CAR. STEEL	SPAN
FEET	CU. YDS.	LBS.	CU. YDS.	LBS.	CU. YDS.	LBS.	TONS	LBS.	FEET
30	—	—	—	—	—	—	—	316	30
32	17.75	3688	21.78	4248	21.74	4248	27.2	316	32
34	18.05	3703	22.08	4262	22.05	4262	28.8	316	34
36	18.36	3718	22.39	4277	22.35	4277	30.3	316	36
38	18.51	3725	22.54	4284	22.51	4284	31.7	316	38
40	18.82	3740	22.85	4298	22.81	4298	33.4	316	40

SIZE OF BARS A AND A1

SPAN	END BENT 5 PILE	END BENT 6 PILE	END BENT 7 PILE
FEET			
30	1 1/4"□	1 1/4"□	—
32	1 1/4"□	1 1/4"□	1 1/4"□
34	—	1 1/4"□	1 1/4"□
36	—	1 1/4"□	1 1/4"□
38	—	1 1/4"□	1 1/4"□
40	—	1 1/4"□	1 1/4"□
	INTERMEDIATE BENTS		
ALL SPANS	1"□	1 1/4"□	1"□

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

** When not using App. Slab add 240 lbs. Fab. Carbon Steel.

Max Pile Loads Unless Otherwise Instructed By Br. Design Sec.
14"□ R.C. Piles = 30 Tons
16"□ R.C. Piles = 34 Tons
18"□ R.C. Piles = 39 Tons

GENERAL NOTES:
Construction Specifications: Latest Approved La. Hwy. Dept. Std. Specs.
Design Specifications - A.A.S.H.O. 1941.
Live Load H20S16.
All concrete to be Class "A".
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.

REVISIONS

DATE	DESCRIPTION	BY
9/27/51	Added Cover R.	Loup/mm
7-8-49	Note Covering Max. Pile Loading	W.O.W.G.
6-22-48	Reference to pile lgths. omitted.	G.H.
12/18/47	Bar Sp. & O.H. in B.	J.T.H.

STANDARD PLAN

REINFORCED CONCRETE PILE BENTS
FOR R.C.D.G. SPANS — H20-S16-41 LOADING
30'-0" CLEAR ROADWAY — 1'-6" SIDEWALKS
30 FT. TO 40 FT. SPANS
TO BE USED WITH CG 18-20 REVISED

DATED MARCH 1947

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED Huey | DETAILED H.W. Abel | TRACED J.K. Hopkins
CHECKED W.O.W. Rusky | CHECKED Huey | CHECKED Huey

BRIDGE DESIGN SECTION

CS-45-20