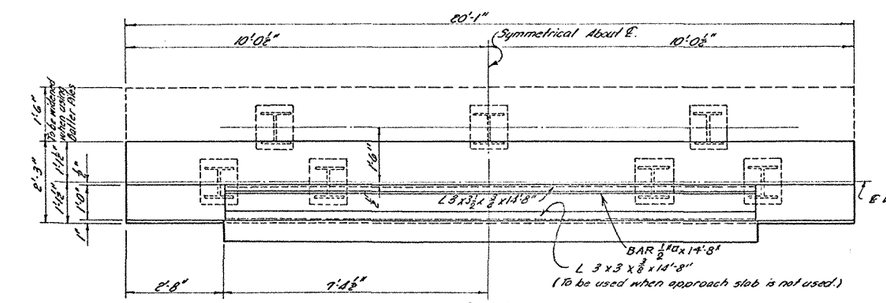
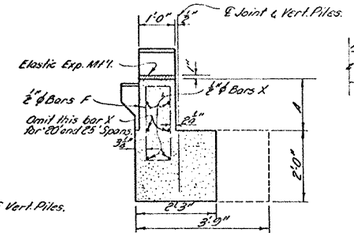
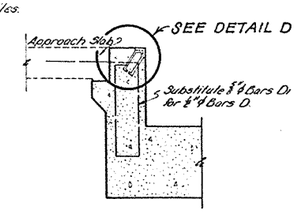


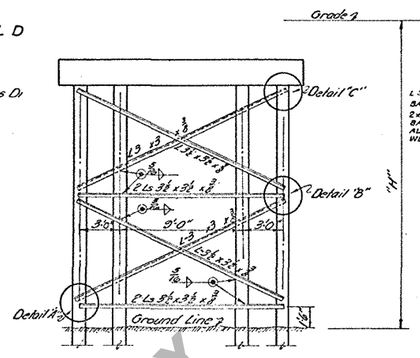
PLAN



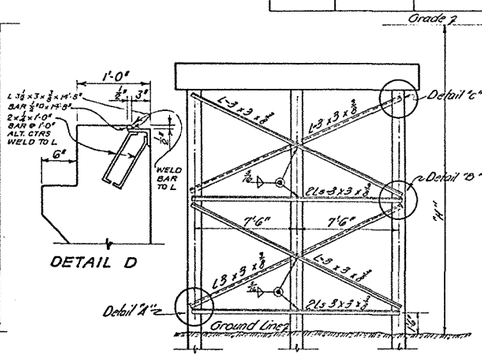
SECTION B-B
Showing wall reinforcing only.



TYPICAL END BENT DETAIL
WHEN USING APPROACH SLAB

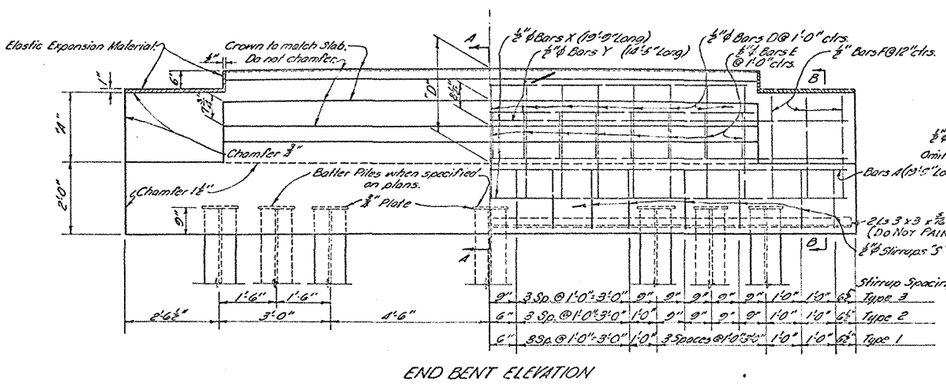


TYPE "D"

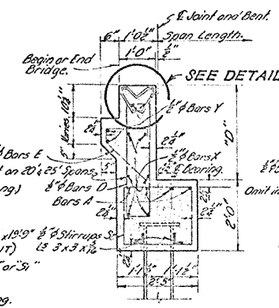


DETAIL D

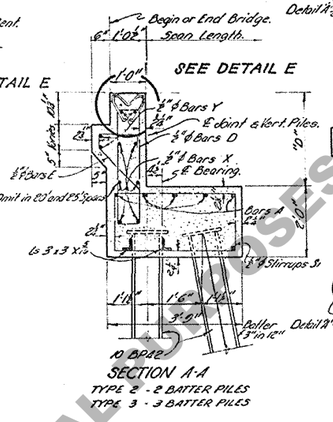
TYPE "B"



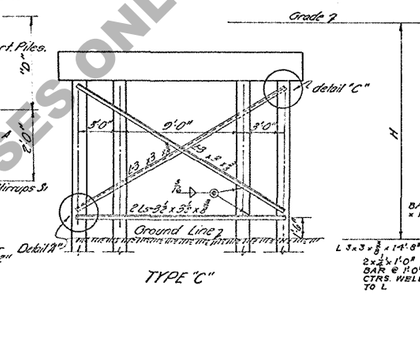
END BENT ELEVATION



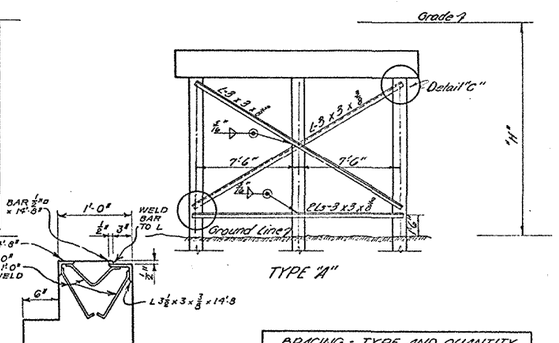
SECTION A-A
TYPE 1



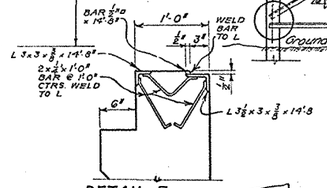
SECTION A-A
TYPE 2 - 2 BATTER PILES
TYPE 3 - 3 BATTER PILES



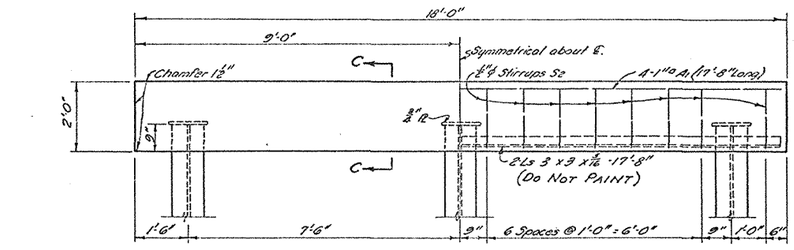
TYPE "C"



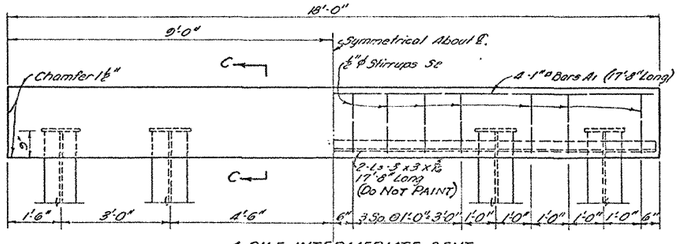
TYPE "A"



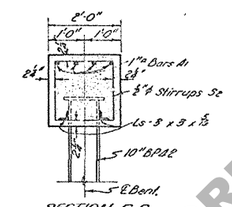
DETAIL E



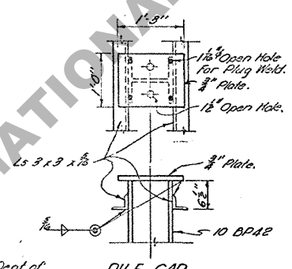
3 PILE INTERMEDIATE BENT



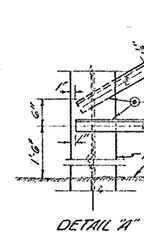
4 PILE INTERMEDIATE BENT



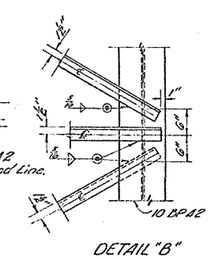
SECTION C-C



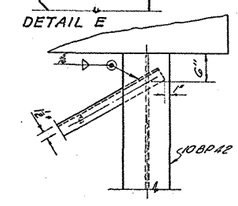
PILE CAP



DETAIL "A"



DETAIL "B"



DETAIL "C"

BRACING - TYPE AND QUANTITY					
Ground to Grade ft in Feet	3 PILE			4 PILE	
	Type	Fabricated Carbon Steel Lbs.		Type	Fabricated Carbon Steel Lbs.
0 Thru 9	None			None	
10 Thru 19	A	462		C	545
		508			587
		546			632
20 Thru 30	B	918		D	1034
		973			1148
		1014			1107

* To provide for future extension of Bridge the end bents are designed for the same load as the Intermediate Bents.

Maximum height ground to grade with 10 BP42 equals 30'-0".

GENERAL NOTES:

Construction Specifications: Latest approved La. Dept. of Highways Std. Specifications. Design Specifications: AASHO. 1944 as amended Dec. 15, 1944. Live Load H15-44.
Reinforcing steel shall be intermediate grade, or structural.
All Dimensions to reinforcing steel are to bar centers.
Welding shall conform to the current Specifications for Welded Highway and Railroad Bridges, Design, Construction and Repair of the American Welding Society.
Volume of Fabricated Carbon Steel and Steel Bearing Piles in Concrete deducted in computing quantities.
Structural Steel Sections used as reinforcing in Cap classified as "Fabricated Carbon Steel."
"Fabricated Carbon Steel" unless noted and "Steel Bearing Piles" shall receive one Shop Coat of Paint.
Surfaces of Piles which will be in water and ground shall receive the first Field Coat of Paint. Exposed Steel Surfaces shall receive the First, Second and Third field Coat of Paint. Steel shall be Spot painted after welding before applying First Field Coat.

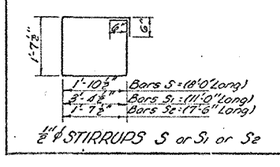
QUANTITIES - DIMENSIONS AND PILE LOADS *

SPAN Feet	END BENT DIMENSIONS "A"	END BENT DIMENSIONS "D"	END BENT TYPE ** ONE Class "A" Concrete Cu. Yds.	ONE Def. Reinf. Steel Lbs.	ONE Fab. Carbon Steel Lbs.	TWO Class "A" Concrete Cu. Yds.	TWO Def. Reinf. Steel Lbs.	TWO Fab. Carbon Steel Lbs.	THREE Class "A" Concrete Cu. Yds.	THREE Def. Reinf. Steel Lbs.	THREE Fab. Carbon Steel Lbs.	Av. Pile Load Tons	INTERMEDIATE BENT THREE PILE Class "A" Concrete Cu. Yds.	THREE PILE Def. Reinf. Steel Lbs.	THREE PILE Fab. Carbon Steel Lbs.	THREE PILE Av. Pile Load Tons	FOUR PILE Class "A" Concrete Cu. Yds.	FOUR PILE Def. Reinf. Steel Lbs.	FOUR PILE Fab. Carbon Steel Lbs.	FOUR PILE Av. Pile Load Tons	SPAN Feet
20	1'-3 1/32"	1'-11 5/16"	4.90	590	668	7.00	756	744	7.00	756	783	11.9	2.64	321	330	15.8					20
25	1'-6 1/16"	2'-1 29/32"	5.02	592	668	7.12	759	744	7.12	759	783	13.7	2.64	321	330	18.3					25
30	1'-6 15/16"	2'-2 27/32"	5.05	603	668	7.15	774	744	7.15	774	783	15.5	2.64	321	330	20.6					30
35	1'-9 1/16"	2'-4 15/16"	5.23	615	668	7.32	781	744	7.33	781	783	17.4	2.64	321	330	23.2					35
40	1'-11 3/16"	2'-7 15/16"	5.42	622	668	7.52	788	744	7.52	780	783	19.3					2.64	311	369	19.3	40
45	2'-0 9/16"	2'-9 15/16"	5.42	622	668	7.52	788	744	7.52	788	783	21.2					2.64	311	369	21.2	45

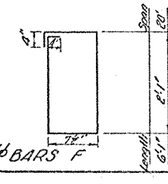
WHEN USING APPROACH SLAB Span	Deflect Fab. Carbon Steel Lbs.	Std. Def. Reinf. Steel Lbs.
20'	117	75
25'	117	75
30'	117	77
35'	117	80
40'	117	83
45'	117	83

TYPE OF END BENTS REQUIRED

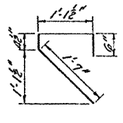
End Bent	Ground to Grade Feet	Subsoil	No. of Batter Piles
Type 1	0-9	Poor	0
	0-8	Good	
Type 2	5-10	Poor	2
	8-16	Good	
Type 3	10+	Poor	3
	16+	Good	



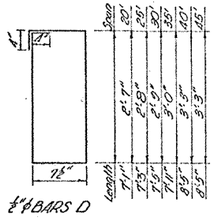
½"φ STIRRUPS S or S1 or Se



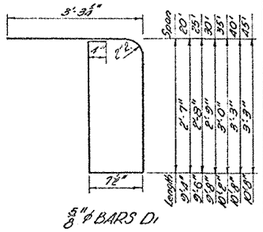
½"φ BARS F



½"φ BARS E (3'-7" Long)



½"φ BARS D



⅝"φ BARS D1

DATE	DESCRIPTION	BY
11-8-51	COVER ℄ ADDED	O.K.R.
1-10-50	Field Point Note	L.D.L.C.

REVISIONS

STANDARD PLAN
STEEL BEARING PILE BENTS
FOR I-BEAM SPANS H-15 LOADING
15'-0" CLEAR ROADWAY 1'-6" SIDEWALK
20' THRU 45' SPANS

TO BE USED WITH STANDARD PLAN SC-GP-15

DATED Nov. 19 48

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED J.W.D. DETAILED J.W.D. TRACED J.Graeagner
CHECKED H.W.Johnson CHECKED H.W.Johnson CHECKED J.W.D.

BRIDGE DESIGN SECTION

C-S-199-15

FOR INFORMATIONAL PURPOSES ONLY