PROJECT	PARISH	JOB NO.

NOTE:
Batter Piles to be used Only when called for on Plans.

PLAN OF END BENT

4-PILE BENT

5-PILE BENT

ELEVATION OF END BENT
(#4 BARS B & C NOT SHOWN)

PLAN OF INTERMEDIATE BENT

ELEVATION OF INTERMEDIATE BENT
(#4 BARS B & C NOT SHOWN)

RIGHT END ELEVATION
(OPP. END IS SIMILAR)

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D
TYPE-1

SECTION D-D
TYPES 2 & 3

#4 BARS R
(7'-6" Long)
(3" Dia. Pin)

#4 BARS U
(7'-1" Long)
(3" Dia. Pin)

#4 BARS C
(5'-4" Long)
(3" Dia. Pin)

#4 BARS X & X1
(3" Dia. Pin)

#4 BARS W
(8'-2" Long)
(3" Dia. Pin)

#9 BARS S
(12'-0" Long)
(9" Dia. Pin)

#6 BARS P
(5'-7" Long)
(6" Dia. Pin)

#6 BARS SL1-SL4, SR1-SR4 & #4 BARS T1 & T2
(6" Dia. Pin & 6 Bars)

TOP VIEW

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	

QUANTITIES AND PILE LOADS				
ITEM / TYPE	SIZE OF BARS A1 A1	CLASS "A" * CONCRETE (CU. YDS.)	DEFORMED REINF. STEEL (LBS.)	AVERAGE PILE LOAD (TONS)
4-PILE END BENT #				
1	#9	9.79	1599	31.1
2	#9	10.76	1974	31.1
3	#9	11.25	2162	31.1
5-PILE END BENT #				
1	#8	9.79	13.96	24.9
2	#8	10.78	1772	24.9
3	#8	11.27	1960	24.9
INTERMEDIATE BENT				
4-PILE	#9	6.18	10.90 ⊛	31.1
5-PILE	#8	6.19	902 ⊛	24.9

* Quantities computed assuming use of 14" Precast Conc. Piles in 5-Pile Bent and 16" Precast Conc. Piles in 4-Pile Bent.
# To provide for future extension of Bridge, End Bents are designed for same load as Intermediate Bents.
⊛ Add 68 lbs. of Reinforcing Steel (20-#6 Dowels Z) when 2-Fixed Ends occur on one Intermediate Bent.

GENERAL NOTES:
Construction Specifications: Latest approved La. Dept. of Highways Standard Specifications.
Design Specifications: A.A.S.H.O. Std. Specs. for Hwy. Bridges, 1961, as Amended to Sept. 1961.
Live Load: H20-S16-44 (Modified)
Reinforcement Bars shall be Intermediate or Hard Grade, A.S.T.M. A15, or Rail Steel, A.S.T.M. A16 conforming with A.S.T.M. A305.
Dimensions relating to Reinforcing Steel are to Bar Centers.
All Concrete to be Class "A".
Chamfer all Exposed Corners 3/4" unless otherwise Noted.
All Exposed Ends of #6 Dowels Z to be wrapped with 2-Layers of 15# Tar Paper. Close fitting Tubes made of compressible material not less than 1/16" thick may be substituted.
Concrete and Steel in Sidewalk Curb Flare and Handrail Flare are included in Bent Cap Quantities and are to be paid for as part of Bent.
Tar Paper Wrappings to be included in price bid for Class "A" Concrete.
For Details of Concrete Piles see Standard Plan as shown on General Plan.
On End Bents, all Exposed Vertical Surfaces and Chamfers on Cap to have Class 2 Rubbed Finish. All Exposed Surfaces on Ringwall, beyond the Limits of the Edge of Bridge Slab to have a Class 2 Rubbed Finish.
On Intermediate Bents, all Vertical Surfaces and Chamfers above the Low Water or Ground Line to have a Class 2 Rubbed Finish.
R — Denotes Class 2 Rubbed Finish not otherwise shown.

BENTS

STANDARD PLAN
REINFORCED CONCRETE PILE BENTS
FOR 20'-0" CONCRETE SLAB SPANS
LIVE LOAD H20-S16-44 MODIFIED
28'-0" ROADWAY 1'-6" SIDEWALKS
DATED: NOV. 10, 1962

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED	DETAILED	TRACED
CHECKED Malamos	CHECKED	CHECKED

DATE	DESCRIPTION	BY
	REVISIONS	

CJSISA - 90 - 28T
CAS - 90 - 28T
TO BE USED WITH STD. PLANS

FOR INFORMATIONAL PURPOSES ONLY