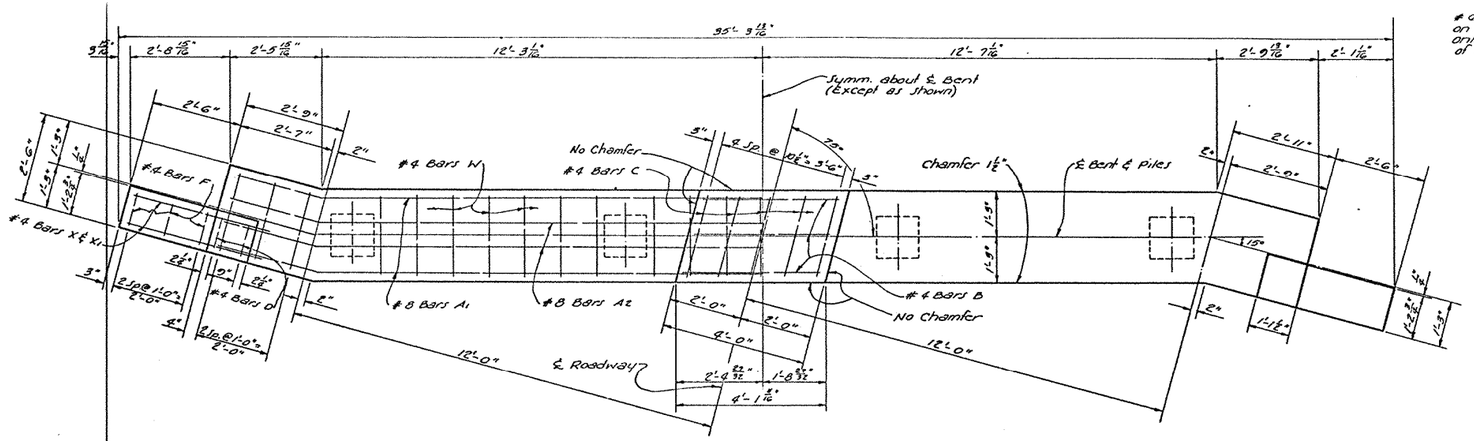
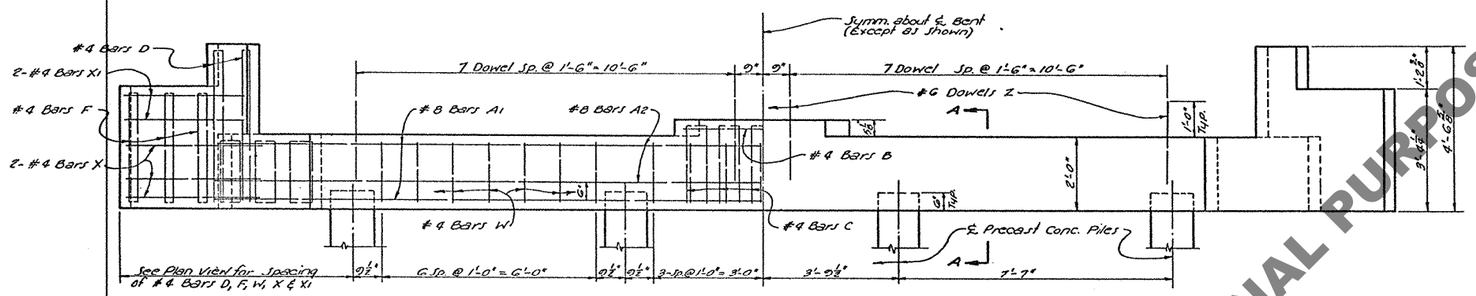
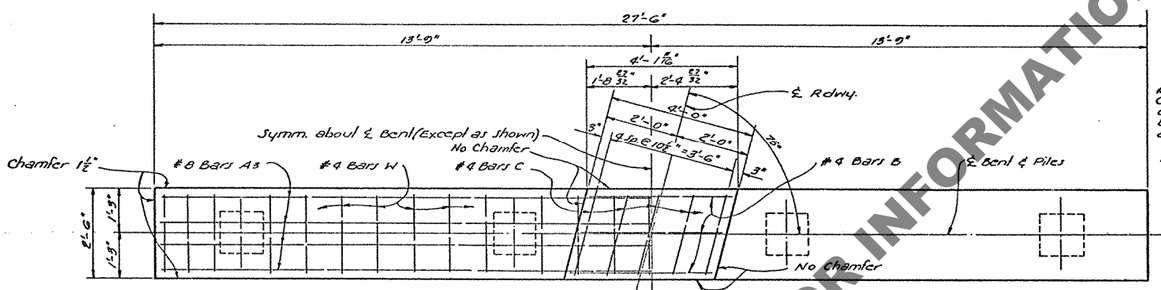
STATE PROJECT	PARISH	SHEET NO.



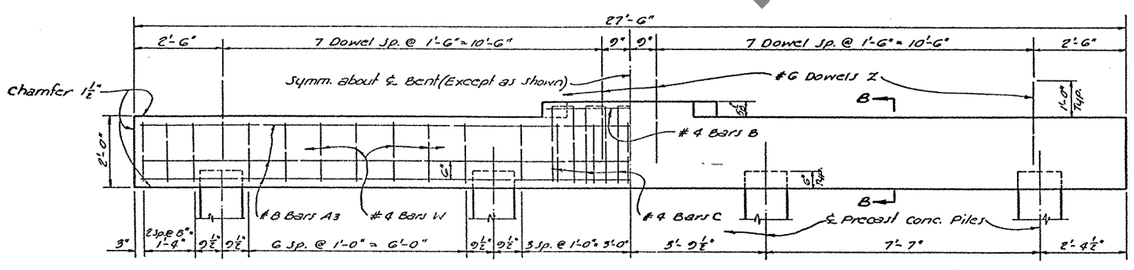
PLAN OF END BENT
(75° RIGHT CROSSING)



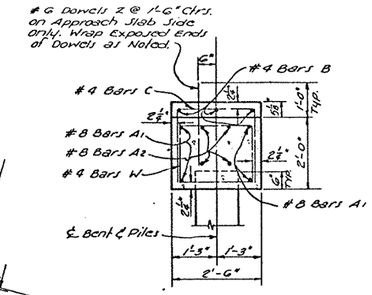
ELEVATION OF END BENT



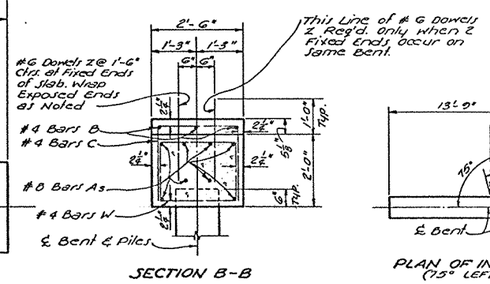
PLAN OF INTERMEDIATE BENT
(75° RIGHT CROSSING)



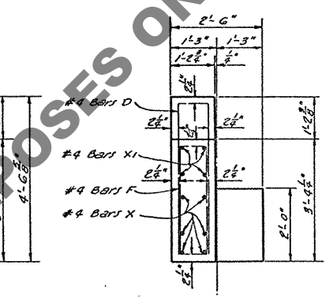
ELEVATION OF INTERMEDIATE BENT



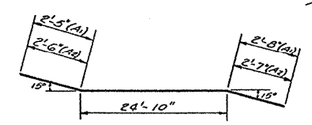
SECTION A-A



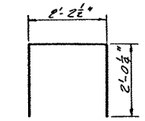
SECTION B-B



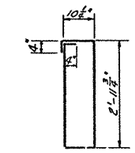
RIGHT END ELEVATION
(SHOWING WINGWALL REINFORCING)



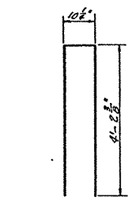
Nº 8 BARS A1 & A2
(8" DIA. PIN)



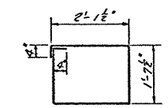
Nº 4 BARS C
(3" DIA. PIN)



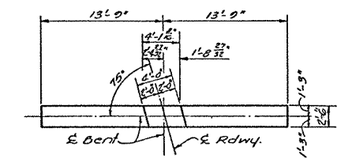
Nº 4 BARS F
(3" DIA. PIN)



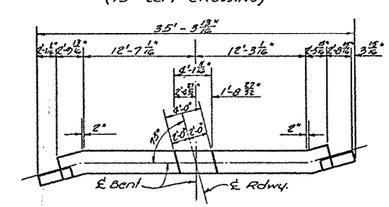
Nº 4 BARS D
(3" DIA. PIN)



Nº 4 BARS W
(3" DIA. PIN)



PLAN OF INTERMEDIATE BENT
(75° LEFT CROSSING)



PLAN OF END BENT
(75° LEFT CROSSING)

ESTIMATED QUANTITIES (END BENT)					
BAR	SIZE	Nº	UNIT LENGTH	TOTAL LENGTH	LOCATION
A1	#8	4	20'-11"	119'-8"	Long. in Cap
A2	#8	4	20'-11"	119'-8"	Long. in Cap
TOTAL #8 BARS = 239'-4" = 639 LBS.					
Z	#6	16	2'-3"	36'-0"	Dowels in Cap
TOTAL #6 BARS = 36'-0" = 54 LBS.					
B	#4	3	3'-9"	11'-3"	Riser
C	#4	5	6'-3"	31'-3"	Riser
D	#4	4	9'-3"	37'-0"	Wingwall
F	#4	6	8'-4"	50'-0"	Wingwall
W	#4	27	8'-2"	220'-6"	Stirrups
X	#4	12	4'-0"	48'-0"	Wingwall
X1	#4	8	3'-3"	26'-0"	Wingwall
TOTAL #4 BARS = 424'-0" = 283 LBS.					
TOTAL DEFORMED REINFORCING STEEL = 976 LBS.					
* TOTAL CLASS "A" CONCRETE = 6.71 CU. YDS.					
Φ AVERAGE PILE LOAD = 24.0 TONS					

* To Provide for Future Extension of Bridge, End Bents are Designed for same Load as Intermediate Bent.

ESTIMATED QUANTITIES (INTERMEDIATE BENT)					
BAR	SIZE	Nº	UNIT LENGTH	TOTAL LENGTH	LOCATION
A3	#8	8	27'-2"	217'-4"	Long. in Cap
TOTAL #8 BARS = 217'-4" = 580 LBS.					
Z	#6	16	2'-3"	36'-0"	Dowels in Cap
TOTAL #6 BARS = 36'-0" = 54 LBS.					
B	#4	3	3'-9"	11'-3"	Riser
C	#4	5	6'-3"	31'-3"	Riser
W	#4	27	8'-2"	220'-6"	Stirrups
TOTAL #4 BARS = 263'-0" = 176 LBS.					
⊙ TOTAL DEFORMED REINFORCING STEEL = 810 LBS.					
* TOTAL CLASS "A" CONCRETE = 5.17 CU. YDS.					
AVERAGE PILE LOAD = 24.0 TONS					

⊙ Add 54 Lbs. Reinforcing Steel (16-#6 Dowels Z) when 2 Fixed Ends occur on same Intermediate Bent.
* Quantities Computed Assuming 14" Precast conc. Piles.

GENERAL NOTES:

CONSTRUCTION SPECIFICATIONS: Latest Approved La. Dept. of Hwy. Standard Specifications.
DESIGN SPECIFICATIONS: A.A.S.H.O. Standard Specifications for Highway Bridges 1961, as Amended by Interim Specs 1964.
LIVE LOAD: H15-44.
Reinforcing Steel Bars shall be Intermediate or Hard Grade A.S.T.M. A15, or A.S.T.M. A160 or Rail Steel, A.S.T.M. A16 Conforming with A.S.T.M. A 305.
Dimensions Relating to Reinforcing Steel are to Bar Centers.
All Concrete to be Class "A".
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 ⅜" Thickness may be Substituted for Paper Wrapping; to be Included in Price Bid for Class "A" Concrete.
All Corners to be Chamfered ¾" unless otherwise Noted.
For Details of Concrete Piles, See Std. Plan Shown on General Plan.
On End Bents, All Exposed Vertical Surfaces and Chamfers on Cap 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.

BENTS

STANDARD PLAN
PRECAST CONCRETE PILE BENTS
FOR 20'-0" CONCRETE SLAB SPANS
LIVE LOAD: H15 – 44
24'-0" ROADWAY 1'-6" SAFETY CURBS
DATED March 1, 1967

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED Khalil Sinno	DETAILED	TRACED E. Chelingar
CHECKED Samir Sulman	CHECKED J. Shmulsky	CHECKED J. Shmulsky

BRIDGE DESIGN SECTION

DATE	DESCRIPTION	BY

REVISIONS

BCSS15C-75-24P (MOD.)66

FOR INFORMATIONAL PURPOSES ONLY