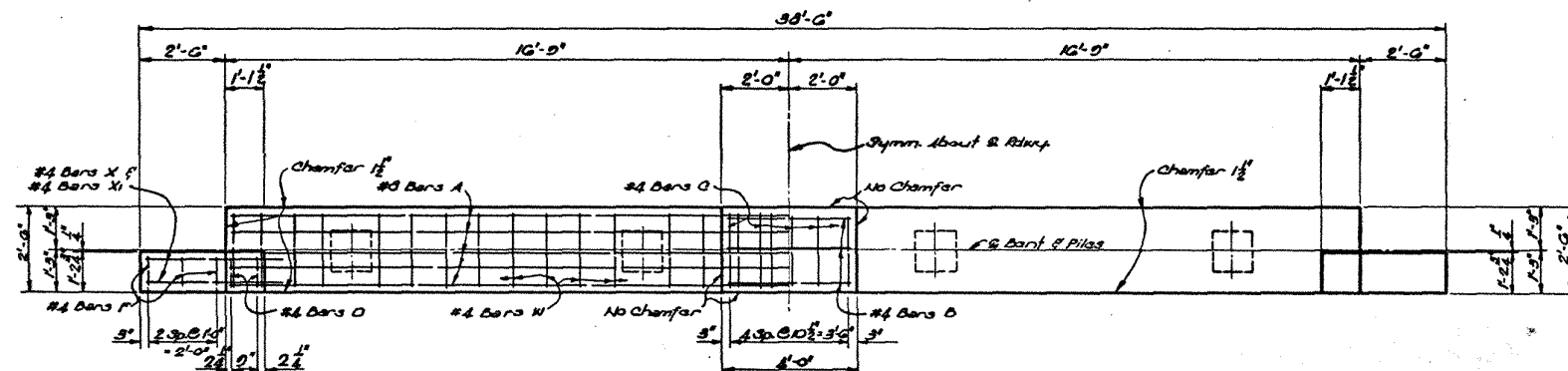
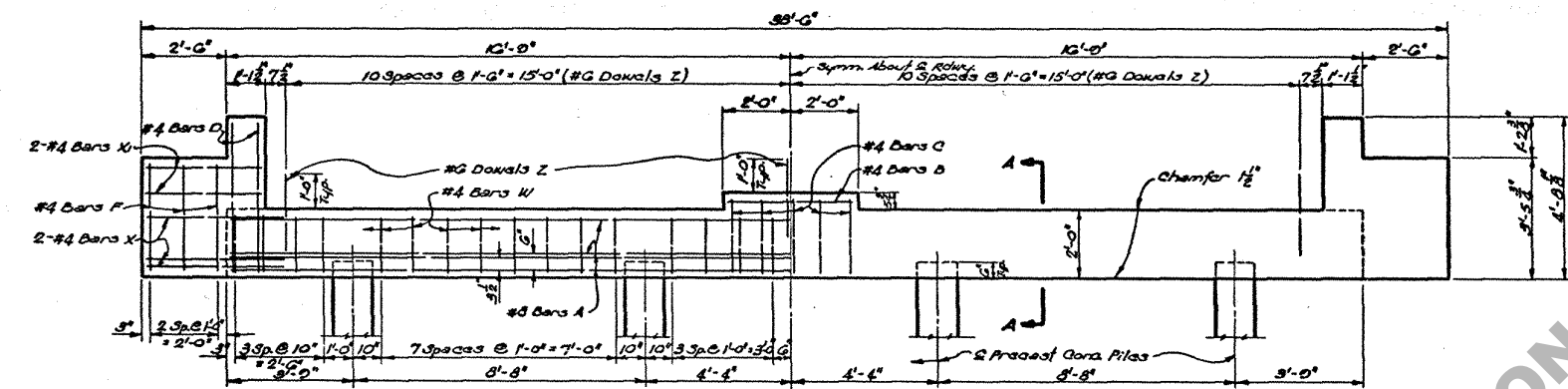


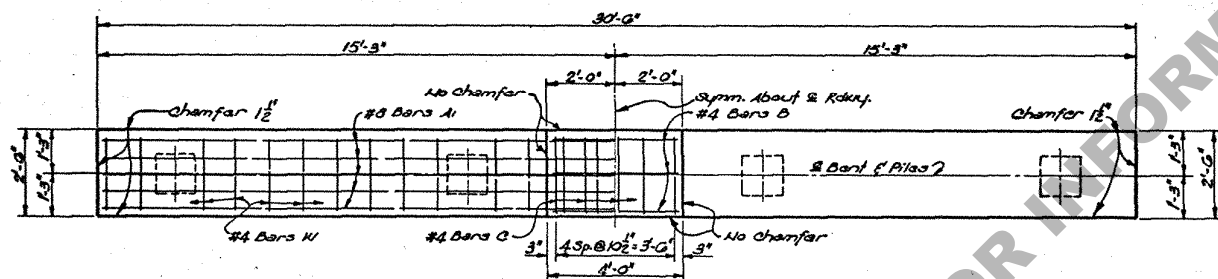
STATE PROJECT	PARISH	SHEET NO.



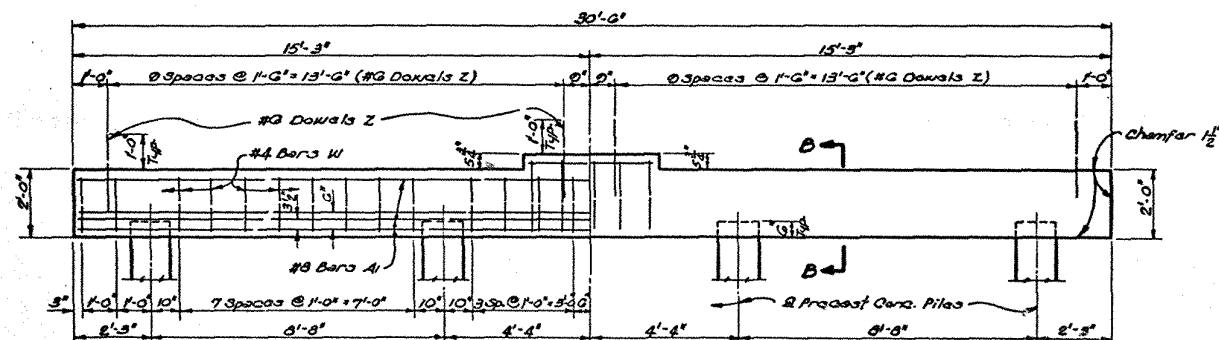
PLAN OF END BENT
20' CROSSING



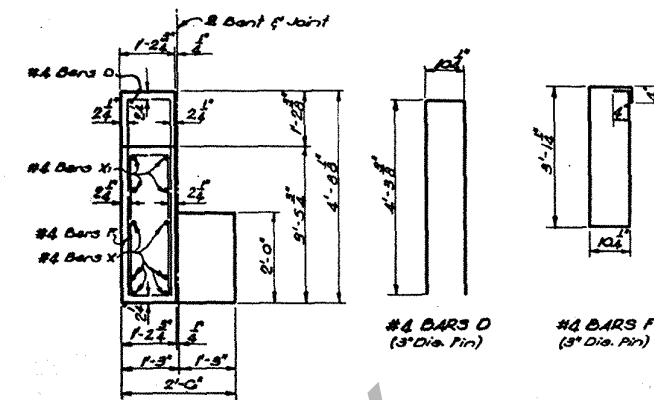
ELEVATION OF END BENT



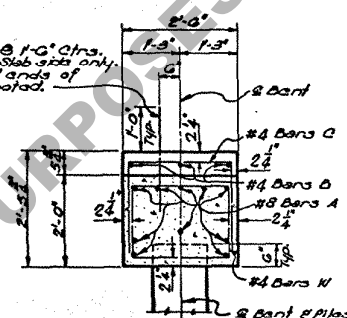
PLAN OF INTERMEDIATE BENT
20' CROSSING



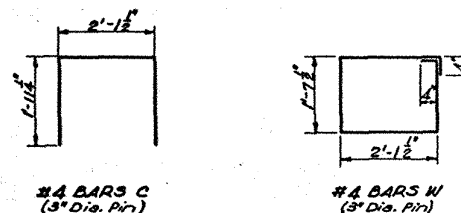
ELEVATION OF INTERMEDIATE BENT



RIGHT END ELEVATION
(showing Wingwall Reinforcing Steel)



SECTION A-A



SECTION B-B

ESTIMATED QUANTITIES (END BENT)					
BAR	SIZE	Nº	UNIT LENGTH	TOTAL LENGTH	LOCATION
A	# 8	10	35'-2"	351'-8"	Long. in Cap
TOTAL # 8 BARS = 351'-8" = 888 LBS.					
Z	# 6	21	2'-3"	47'-3"	Dowels
TOTAL # 6 BARS = 47'-3" = 71 LBS.					
B	# 4	3	11'-0"	33'-0"	Riser
C	# 4	5	6'-0"	30'-0"	Riser
D	# 4	4	5'-0"	20'-0"	Wingwall
F	# 4	6	8'-0"	48'-0"	Wingwall
X	# 4	12	4'-0"	48'-0"	Wingwall
Y	# 4	8	3'-0"	24'-0"	Wingwall
N	# 4	32	8'-2"	262'-4"	Stirrups in Cap
TOTAL # 4 BARS = 262'-4" = 911 LBS.					
TOTAL DEFORMED REINFORCING STEEL = 1268 LBS.					
TOTAL CLASS "A" CONCRETE = 735 CU. YDS.					
AVERAGE PILE LOAD = 32.0 TONS					

* To provide for future expansion of Bridge, End Bents are designed for same load as Intermediate Bents.

ESTIMATED QUANTITIES (INTERMEDIATE BENT)					
BAR	SIZE	Nº	UNIT LENGTH	TOTAL LENGTH	LOCATION
A	# 8	10	30'-2"	301'-8"	Long. in Cap
TOTAL # 8 BARS = 301'-8" = 805 LBS.					
Z	# 6	20	2'-3"	45'-0"	Dowels
TOTAL # 6 BARS = 45'-0" = 68 LBS.					
B	# 4	3	9'-8"	29'-6"	Riser
C	# 4	5	6'-0"	30'-0"	Riser
N	# 4	28	8'-2"	229'-6"	Stirrups in Cap
TOTAL # 4 BARS = 229'-6" = 180 LBS.					
TOTAL DEFORMED REINFORCING STEEL = 1053 LBS.					
TOTAL CLASS "A" CONCRETE = 572 CU. YDS.					
AVERAGE PILE LOAD = 32.0 TONS					

* Add 68 Lbs. of Reinforcing Steel (20 #6 Dowels Z) when 2 Fixed Ends occur on one Intermediate Bent.
* Quantities computed assuming 14" Precast Concrete Piles.

GENERAL NOTES:

Construction Specifications Latest Approved to Dept. of Highways, State of Louisiana.
Design Specifications: A.A.S.H.O. Std. Specs. for Hwy. Bridges, 1964, as amended by Interim Specs., 1964.
Live Load: HS 20-44.
Reinforcing Steel Bars shall be Intermediate or Hard drawn, A.S.T.M. A15 or A.S.T.M. A160 or Rail Steel, A.S.T.M. A16, conforming to A.S.T.M. A305. 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 3/16" thick may be substituted.
All corners to be chamfered 1/2" unless otherwise noted.
Tar Paper wrappings to be included in price but for Class "A" concrete.
For Details of Barreled Piles, see Std. 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 Wingwall 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.

BENTS

STANDARD PLAN
PRECAST CONCRETE PILE BENTS
FOR 20'-0" CONCRETE SLAB SPANS
LIVE LOAD: HS 20-44
28'-0" ROADWAY 1'-6" SAFETY CURBS

DATED: March 1, 1967

STATE OF LOUISIANA

DEPARTMENT OF HIGHWAYS

DESIGNED: Khalil Sinao, DETAILED: J. Hamid, TRACED: M. Momeni

CHECKED: Samir Salameh, CHECKED: Khalil Sinao, CHECKED: J. Hamid

BRIDGE DESIGN SECTION

DATE	DESCRIPTION	BY
	REVISIONS	