

PLAN OF END BENT SHOWING STEEL IN BRIDGE END FLARE

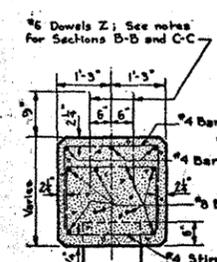
#4 BARS U (7'-3" LONG)

#4 STIRRUPS W (8'-7" LONG)

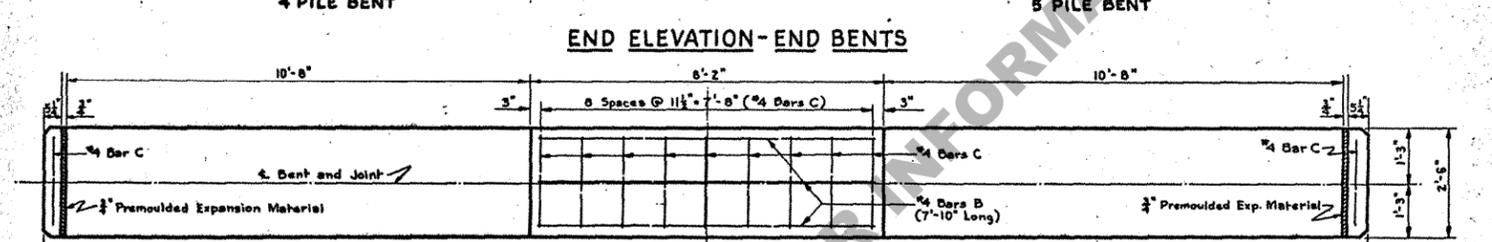
#4 BARS C (6'-0" LONG)

#4 BARS R (6'-6" LONG)

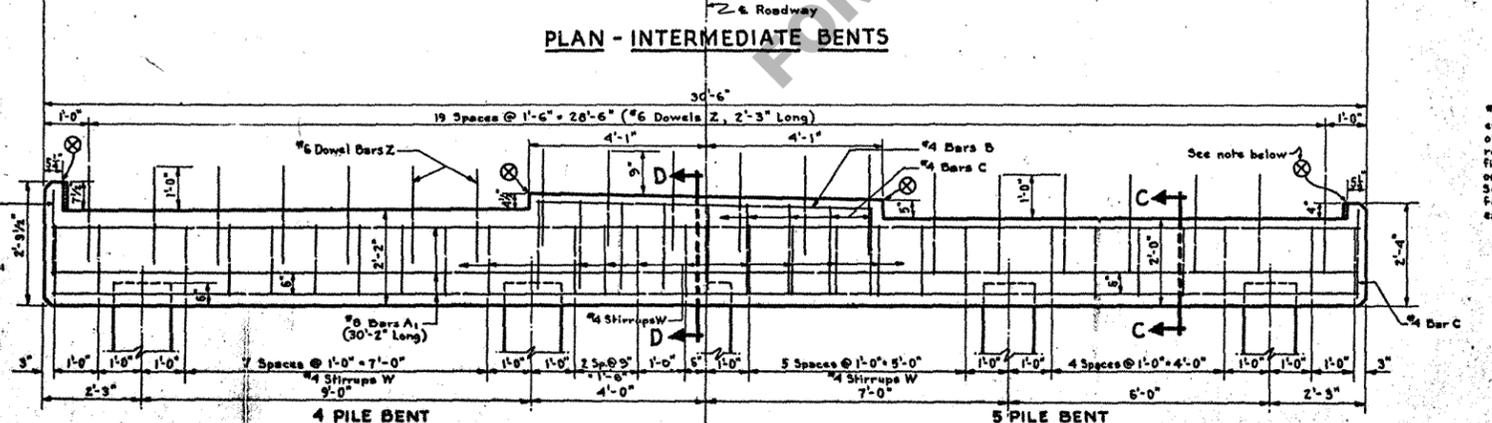
135° HOOKS FOR #4 BARS



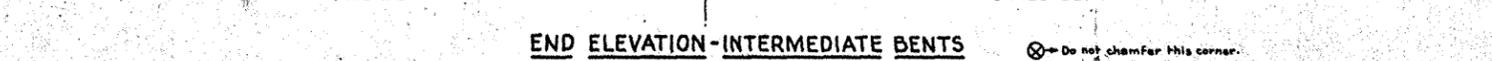
SECTION D-D FOR END OR INTERMEDIATE BENTS



END ELEVATION-END BENTS

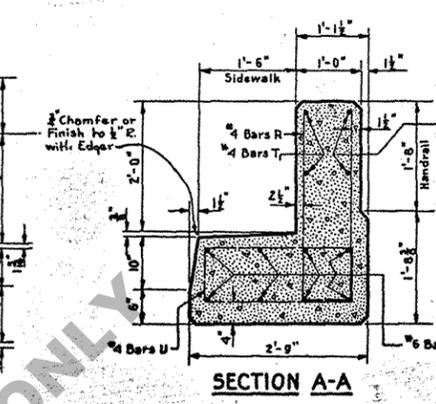


PLAN-INTERMEDIATE BENTS

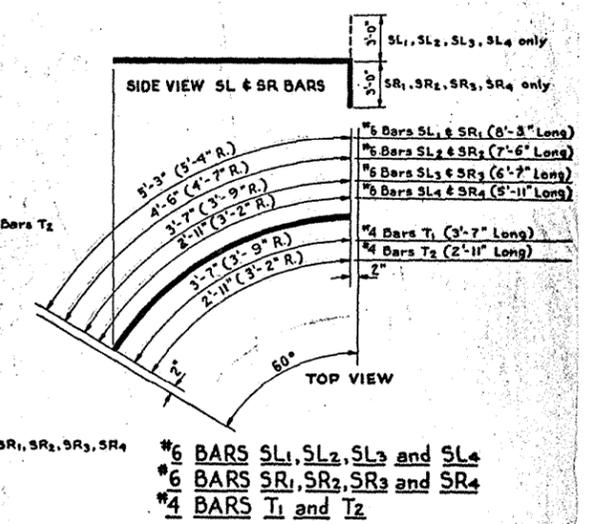


END ELEVATION-INTERMEDIATE BENTS

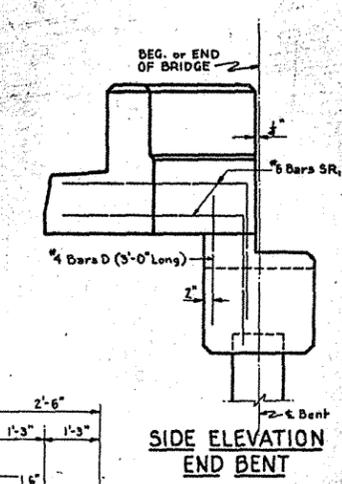
Do not chamfer this corner.



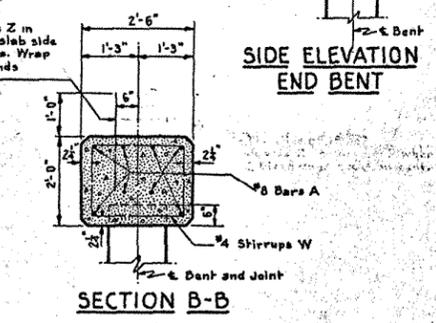
SECTION A-A



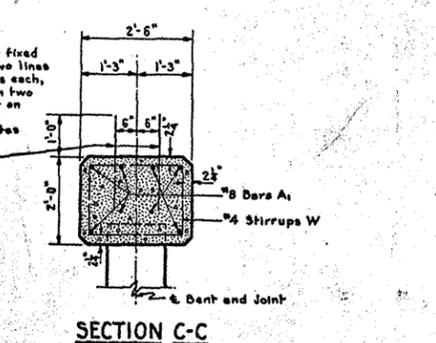
#6 BARS SL1, SL2, SL3 and SL4
#6 BARS SR1, SR2, SR3 and SR4
#4 BARS T1 and T2



SIDE ELEVATION END BENT



SECTION B-B



SECTION C-C

QUANTITIES AND PILE LOADS			
TYPE	CLASS "A" CONCRETE (CU. YDS.)	DEF. REINF. STEEL (LBS.)	AVERAGE PILE LOAD (TONS)
END BENT			
4 PILE	8.70	1315	28.7
5 PILE	8.70	1304	22.9
INTERMEDIATE BENT			
4 PILE	6.09	933	28.7
5 PILE	6.10	921	22.9

Quantities for 4 pile bent computed on basis of 16" concrete piles; for 5 pile bent on basis of 14" concrete piles.
To provide for future extension of bridge, end bents are designed for full load as intermediate bents.
Add 50% of Reinf. steel (20 #6 Dowels Z) when 2 fixed ends occur on one intermediate bent.

GENERAL NOTES:

Construction Specifications: Latest approved Louisiana Department of Highways Standard Specifications.
Design Specifications: A.S.H.O. Std. Specs. for Highway Bridges 1949, as amended to Dec. 1950.
Live Load: H20-S16-44
Reinforcement bars shall be structural, intermediate, or hard grade, A.S.T.M. A15, or rail steel, A.S.T.M. A18.
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 1/8" thick may be substituted for Tar Paper wrapping.
All corners to be chamfered 1/4" unless otherwise noted.
Concrete and Steel used in Curb, Sidewalk and Handrail Flare are included in end bent cap quantities and are to be paid for as part of bent.
Expansion Material and Tar Paper wrappings to be included in price bid for Class "A" Concrete.

For Details of Concrete Piles see Std. C.S. 149
Maximum Pile Loads unless otherwise instructed by Bridge Design Section:
14" R.C. Piles = 28 Tons per Pile
16" R.C. Piles = 32 Tons per Pile

DISCARDED
DO NOT USE 1-21-57
CEA

STANDARD PLAN
REINFORCED CONCRETE PILE BENTS
FOR 20 FT. CONCRETE SLAB SPANS.
TO BE USED WITH STANDARD PLAN C.F.S. 10A-1
4-LANE HIGHWAY
DATED September 1951

STATE OF LOUISIANA DEPARTMENT OF HIGHWAYS			
DESIGNED	DETAILED	TRACED	DATE
E. E. EVANS	V. GREGG	GLEN	
CHECKED HUTCH	CHECKED HARRIS	CHECKED HARRIS	
BRIDGE DESIGN SECTION			