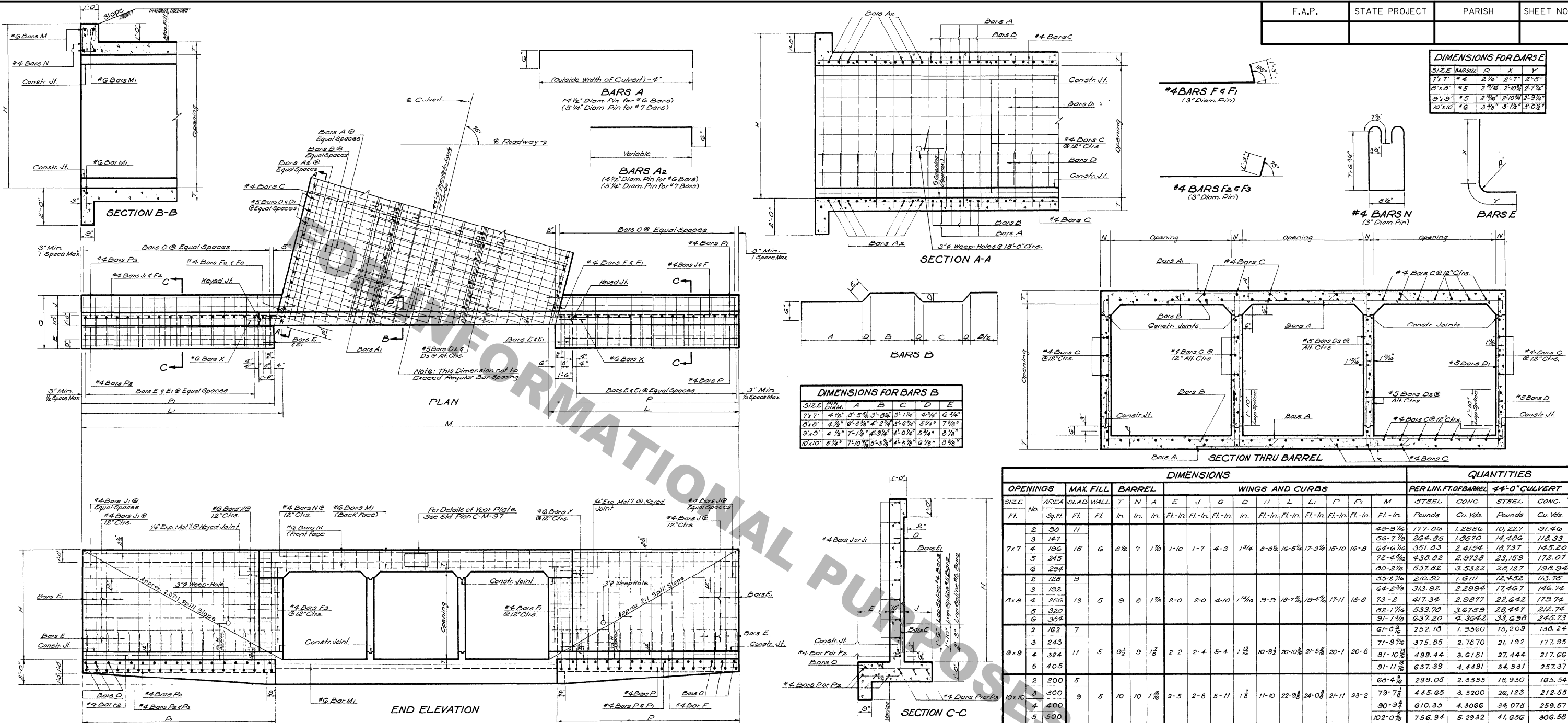




BILL OF REINFORCING STEEL FOR 44'-0" CULVERT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
BARREL REINFORCEMENT																									WINGS AND CURBS REINFORCEMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OPENINGS		BARS A				BARS A1				BARS A2				BARS B				*5BARS D & D1				*5BARS D2 & D3				*4BARS C				BARS E		BARS E1				*4BARS F		*4BARS F1		*4BARS F2		*4BARS F3		*4BARS J		*4BARS J1		BARS O		*4BARS P		*4BARS P1		*4BARS P2		*4BARS P3		*4BARS N		*6BARS M		*6BARS M1		*6BARS X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.	Length	Sp.		Size	No.</

Includes 1'-1'-6" Lap Splice.
Includes 1'-2'-2" Lap Splice.
Does not include Lap Splice; When Length of Bar Exceeds 40'-0", Add 2'-2" Lap Splice.
Includes 1'-3'-7" Lap Splice.
Does not include Lap Splice; When Length of Bar Exceeds 40'-0", Add 2'-7" Lap Splice.

CC-S-M-7-10-S-75°-1

GENERAL NOTES:
CONSTRUCTION SPECIFICATIONS: Latest Approved La. Dept. of Highways Specifications.
DESIGN SPECIFICATIONS: A.A.S.H.O. 1961 as amended by Int. Spec. 1964.
LIVE LOAD: HS 20-44, or Military Loading, whichever is Greater.
All concrete to be Class "A".
All Exposed Corners to have 3/4" Chamfer, unless otherwise noted.
Reinforcement shall be Billet Steel A.S.T.M. A 615 or Rail Steel A.S.T.M. A 616 or A 617.
Dimensions relating to Reinforcing Steel are to Bar Chs.
A 1'-6" Square of Plastic Filter Cloth (See Qualified Products List) shall be placed in contact with concrete behind each Weep Hole, in addition to approx. 2 Cu. Ft. of Concrete Sand.
For Detail of Joints, See Std. Plan C.M.-49.

APPROVED BY:
Domagala D. W. Jr. 1-11-78
CHIEF ENGINEER DATE

STANDARD PLAN
MULTIPLE OPENINGS
REINFORCED CONCRETE BOX CULVERTS
STRAIGHT WINGS
75° CROSSING
2:1 SPILL SLOPE NORMAL TO CHANNEL
7'x7' TO 10'x10'

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED <i>M. J. Joshi</i>	DETAILED <i>H. H. Allen</i>	TRACED <i>W. Mitchell</i>
CHECKED <i>C. A. H.</i>	CHECKED <i>M. Joshi</i>	CHECKED <i>W. Mitchell</i>
IN CHARGE OF		