

## <u>SECTION F-F</u>

or ferrule loop slab insert (Min. proof load = 5000 lb.)

(Sheet	2	of

2-	16 -	11
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Sneer Z or Z)									
FILE NAME =	USER NAME =	DESIGNED	REVISED -			F.A.P.	SECTION	COUNTY TOTAL	SHEET
		CHECKED	REVISED -	STATE OF ILLINOIS	SINGLE CELL PRECAST BOX CULVERT END SECTIONS	315	121BR-2	MCLEAN 144	89
	PLOT SCALE =	DRAWN	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO.	70552
	PLOT DATE =	CHECKED	REVISED -		SHEET NOOF SHEETS		ILLINOIS FED. AI	D PROJECT	

(f†.)	Reinforcing Steel A <sub>sim</sub> (in.²/ft.)										
	2	3	4	5	6	7	8	9	10	11	12
	0.19	0.15									
	0.26	0.21	0.18								
		0.26	0.23	0.22							
		0.33	0.59	0.27	0.28						
			0.43	0.39	0.36	0.34	0.40				
				0.43	0.40	0.37	0.36	0.48			
				0.47	0.44	0.41	0.38	0.42	0,56		
			0.54		0.46		0.41		0.50	0.65	
			0.58		0.50		0.45		0.46		0.75

(A  $_{\it sIm}$  reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

## Notes:

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

The size and spacing of the  $v_3(E)$  bars shall provide a minimum reinforcement area along each face of the walls (in.<sup>2</sup>/ft.) equal to  $1.10^*(A_{sim})$ .  $v_3(E)$  bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



<u>BAR s</u>







BAR V1(E)

f 2)