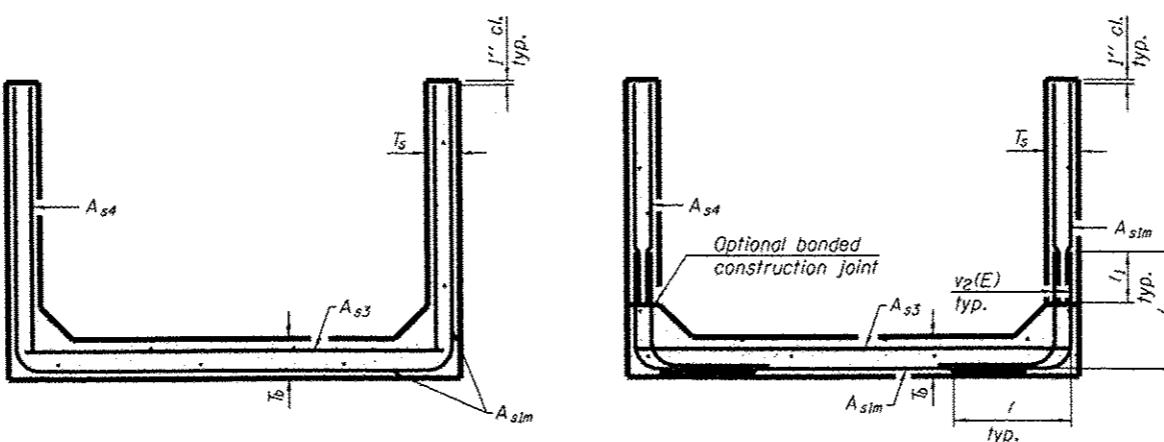


(Design Earth Cover < 2 ft.) (Design Earth Cover ≥ 2 ft.)

SECTION C-C



SECTION D-D

ALTERNATE SECTION D-D

T(in.), T_s (in.)	Reinforcing Steel A_s1m (in. ² /ft.)											
	2	3	4	5	6	7	8	9	10	11	12	
4	0.19	0.17										
5	0.26	0.21	0.18									
6	0.26	0.23	0.22									
7	0.33	0.59	0.27	0.28								
8		0.43	0.39	0.36	0.34	0.40						
9			0.43	0.40	0.37	0.36	0.48					
10				0.47	0.44	0.41	0.38	0.42	0.56			
11					0.54		0.46	0.41	0.50	0.65		
12						0.58	0.50	0.45	0.46	0.75		

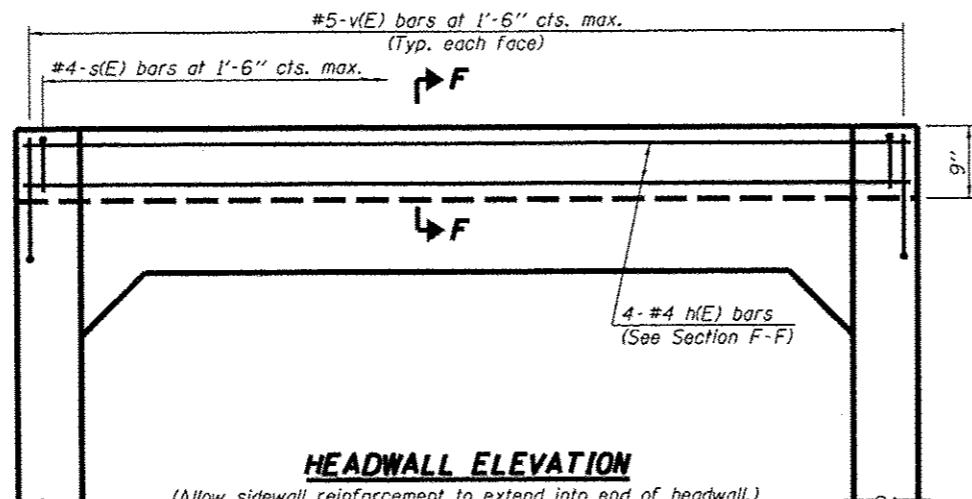
(A_s1m reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

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.

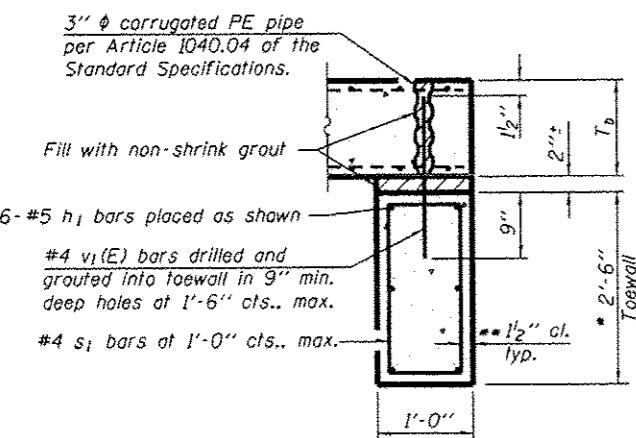
The size and spacing of the v₂(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10(A_{s1m}). v₂(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

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



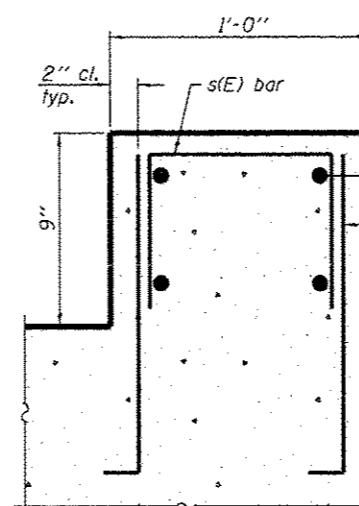
HEADWALL ELEVATION

(Allow sidewall reinforcement to extend into end of headwall.)



SECTION E-E

10-16-12



SECTION F-F

DETAILS (Sheet 2 of 2)

DETAILS SINGLE CELL PRECAST BOX CULVERT END SECTIONS

SHEET NO. 6 OF 7 SHEETS

FILE NAME #FILE#	USER NAME #USER#	DESIGNED -	REVISED -	SECTION 03-00053-01-WR	COUNTY MADISON	TOTAL SHEETS 145	SHEET NO. 54
PLOT DATE #DATE#	PLOT SCALE #SCALE#	DRAWN -	REVISED -				CONTRACT NO. 97509

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS FED. AID PROJECT