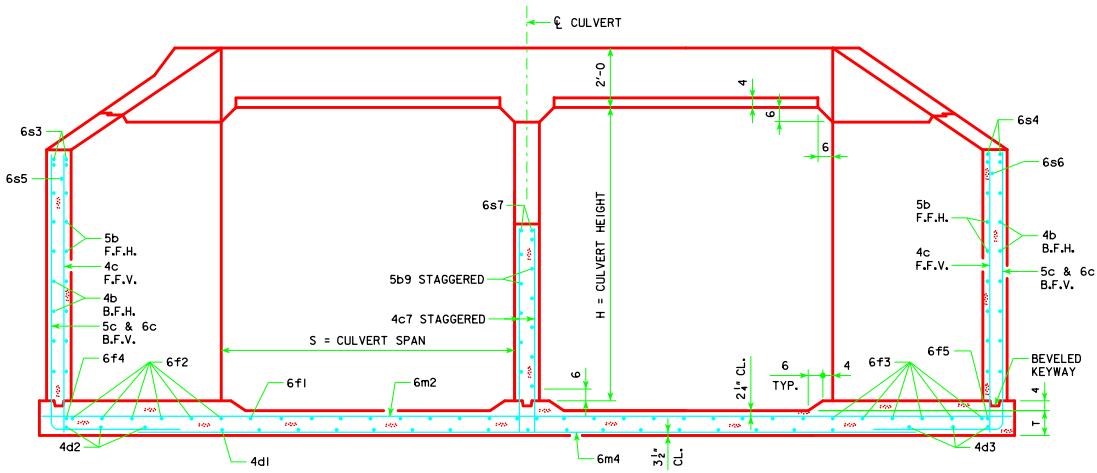
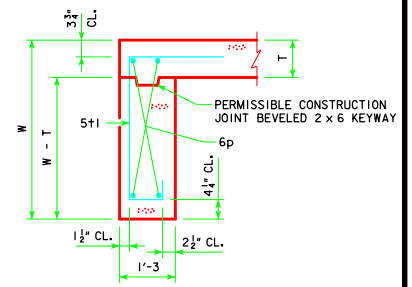


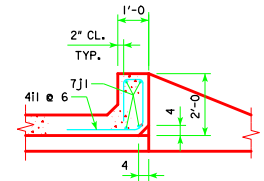
ENGLISH BEDSIGNEDTWINCULVERTS.DGN - TWH 15-4-12 - THIS SHEET ISSUED 04-12



TYPICAL SECTION - NEAR CENTER OF APRON

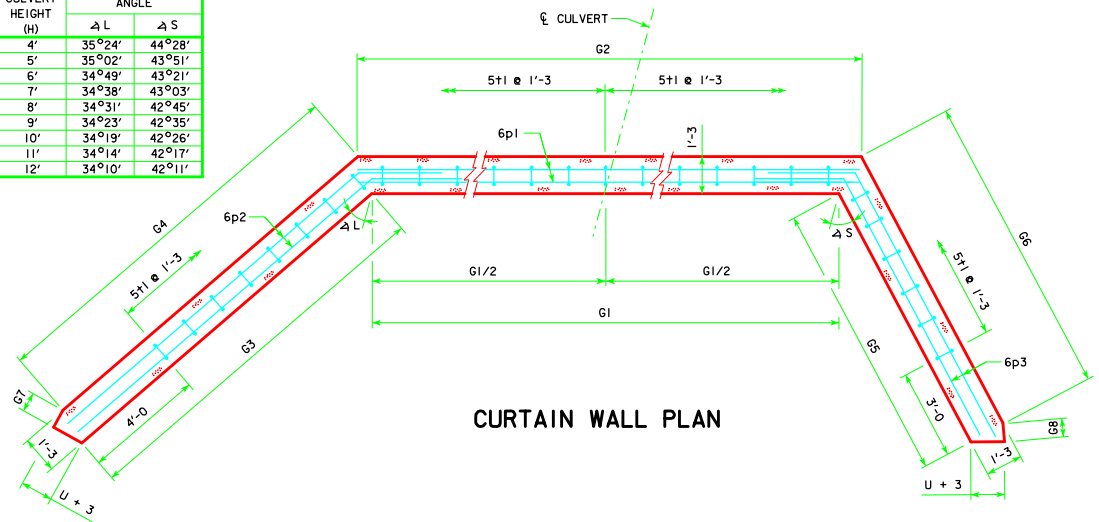


SECTION THRU CURTAIN WALL

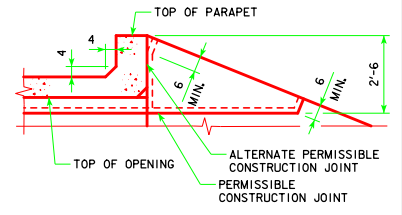
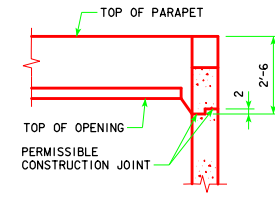


SECTION THRU PARAPET

CULVERT HEIGHT (H)	ANGLE	
	∠ L	∠ S
4'	35°24'	44°28'
5'	35°02'	43°51'
6'	34°49'	43°21'
7'	34°38'	43°03'
8'	34°31'	42°45'
9'	34°23'	42°35'
10'	34°19'	42°26'
11'	34°14'	42°17'
12'	34°10'	42°11'



CURTAIN WALL PLAN



TOP OF WINGWALL DETAILS

NOTES:

1. SEE SHEET TWRCB G1-12 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
2. FOR DIMENSION TABLE SEE SHEET TWH 15-2-12.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	Iowa Department of Transportation Highway Division
		STANDARD DESIGN TWIN REINFORCED CONCRETE BOX CULVERTS APRIL, 2012
		FLARED WING HEADWALLS 15° SKEW
		TWH 15-4-12