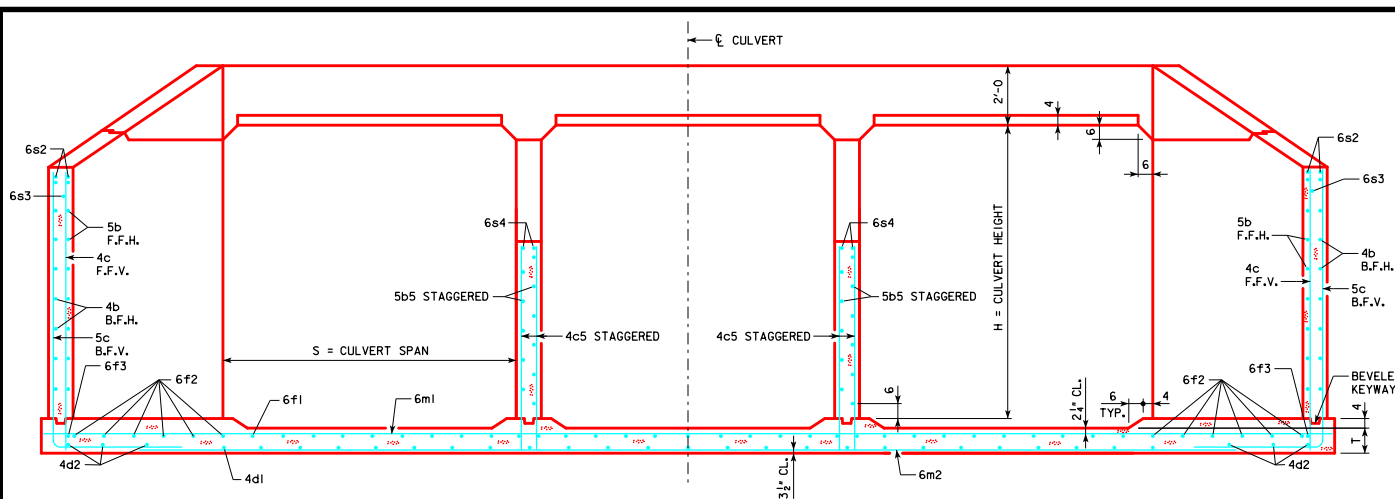
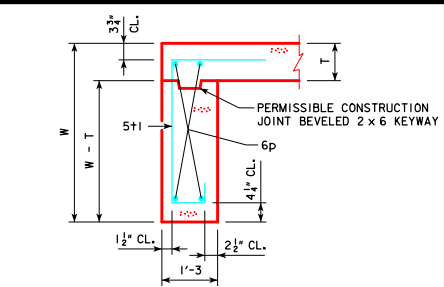


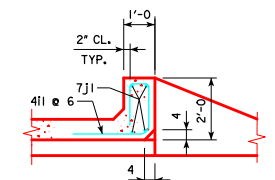
REVISED 12-2016; ADDED CURTAIN WALL CLASS 20 EXCAVATION DETAIL. ENGL/LSH/BE/AS/IGN/TRE/LE/CULVERT/SDGN - TRH 0-3-12 - THIS SHEET ISSUED 04-12.



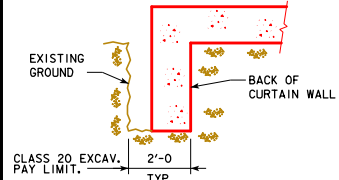
TYPICAL SECTION - NEAR CENTER OF APRON



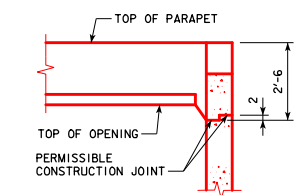
SECTION THRU CURTAIN WALL



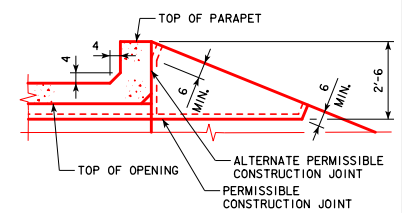
SECTION THRU PARAPET



CURTAIN WALL CLASS 20 EXCAVATION

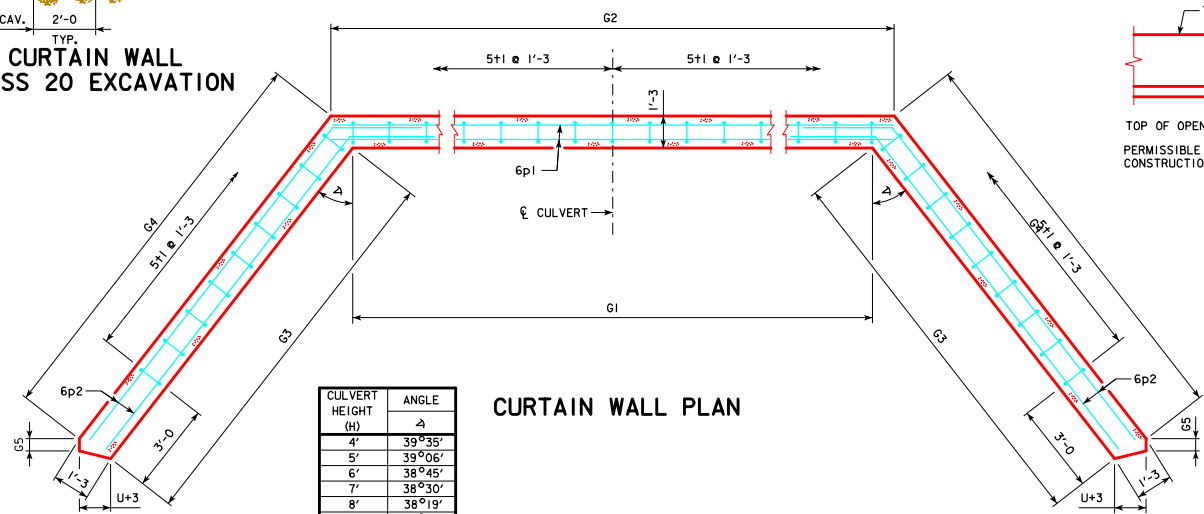


TOP OF WINGWALL DETAILS



NOTES:

1. SEE SHEET TRRCB G1-12 FOR GENERAL INFORMATION, SPECIFICATIONS, AND DESIGN STRESSES.
2. FOR DIMENSION TABLE SEE SHEET TRH 0-1-12.



CURTAIN WALL PLAN

CULVERT HEIGHT (H)	ANGLE
4'	39°35'
5'	39°06'
6'	38°45'
7'	38°30'
8'	38°19'
9'	38°09'
10'	38°02'
11'	37°56'
12'	37°51'

LATEST REVISION DATE
12-2016
APPROVED BY BRIDGE ENGINEER
Thomas E. McQuill

Iowa Department of Transportation
Highway Division

STANDARD DESIGN
TRIPLE REINFORCED CONCRETE BOX CULVERTS
APRIL, 2012

FLARED WING HEADWALLS
0° SKEW

TRH 0-3-12