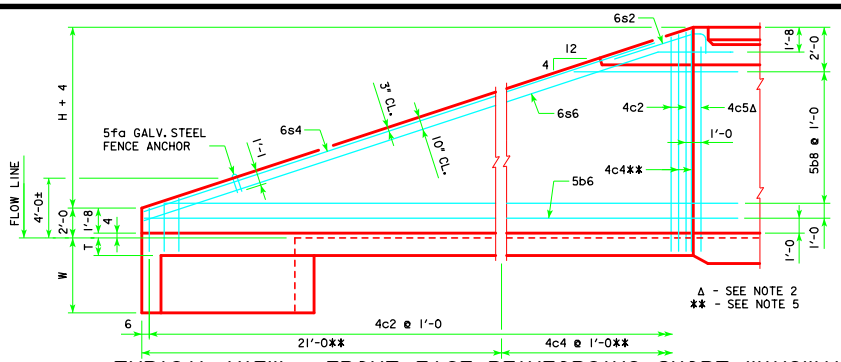
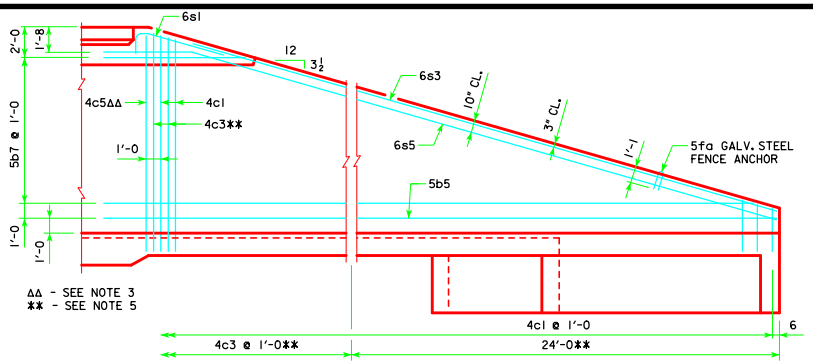
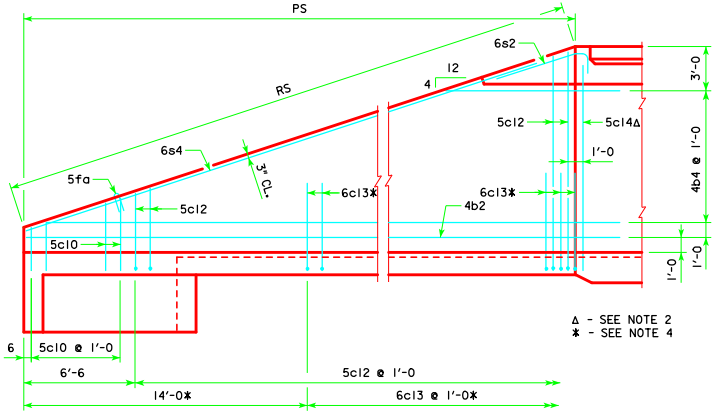


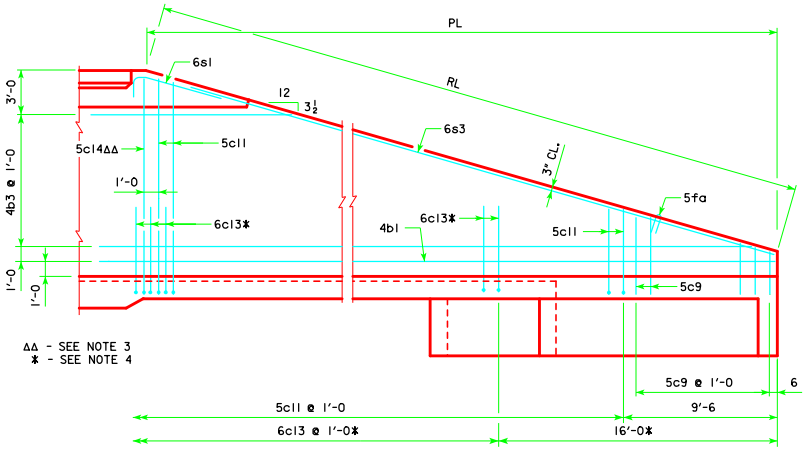
TYPICAL VIEW - FRONT FACE REINFORCING SHORT WINGWALL



TYPICAL VIEW - FRONT FACE REINFORCING LONG WINGWALL

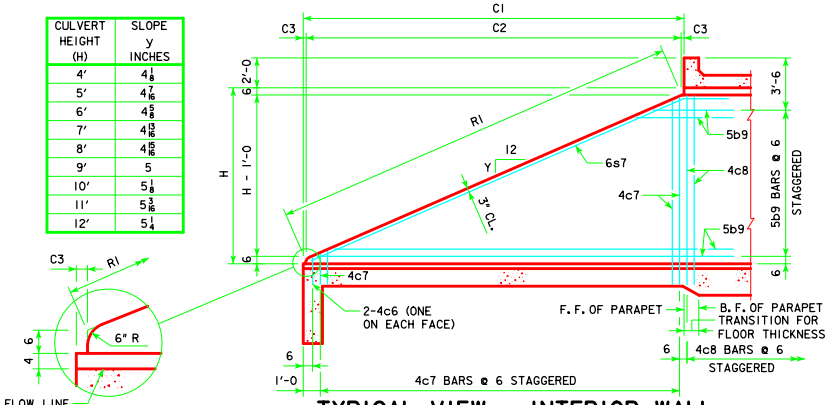


TYPICAL VIEW - BACK FACE REINFORCING SHORT WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING LONG WINGWALL

CULVERT HEIGHT (H)	SLOPE y INCHES
4'	4 1/8
5'	4 7/16
6'	4 5/8
7'	4 15/16
8'	4 13/16
9'	5
10'	5 1/8
11'	5 5/16
12'	5 1/4



TYPICAL VIEW - INTERIOR WALL

NOTES:

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. TWO 4c5 & TWO 5c14 BARS FOR ALL HEADWALLS.
3. TWO 4c5 & TWO 5c14 BARS FOR 4', 5', 7', 9', 10' & 12' HEIGHT HEADWALLS. ONE 4c5 & ONE 5c14 BAR FOR 6', 8' & 11' HEIGHT HEADWALLS.
4. NOT APPLICABLE FOR 4' & 5' HEADWALLS.
5. NOT APPLICABLE FOR 4' THRU 8' HEIGHT HEADWALLS.
6. FOR DIMENSION TABLE SEE SHEET TRH 15-2-12.

05-13
LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

Iowa Department of Transportation
Highway Division

STANDARD DESIGN

TRIPLE REINFORCED CONCRETE BOX CULVERTS

APRIL, 2012

FLARED WING HEADWALLS

15° SKEW

TRH 15-6-12

REVISED 05-13 - CHANGED BAR MARK 6c3 TO 6c13 IN TYPICAL VIEW - BACK FACE REINFORCING LONG WINGWALL DETAIL.
ENGLISH\RFDSIGNED\TRIPLECULVERTS.DGN - TRH 15-6-12 - THIS SHEET ISSUED 04-12