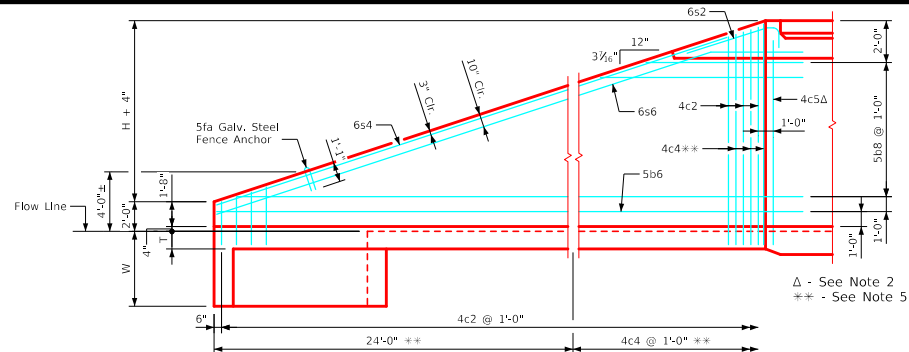
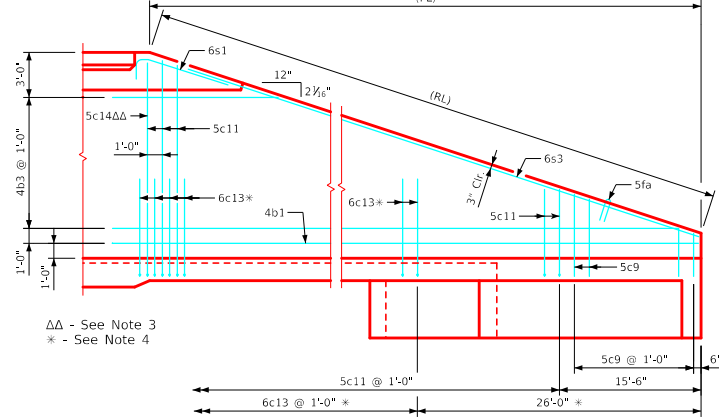


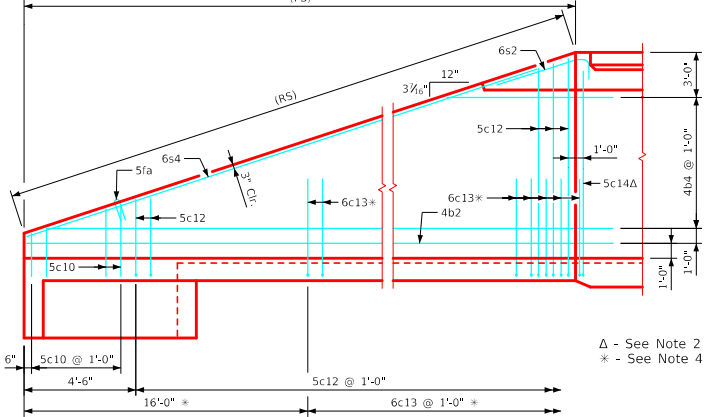
Typical View - Front Face Long Wingwall Reinforcing (PL)



Typical View - Front Face Short Wingwall Reinforcing (PS)

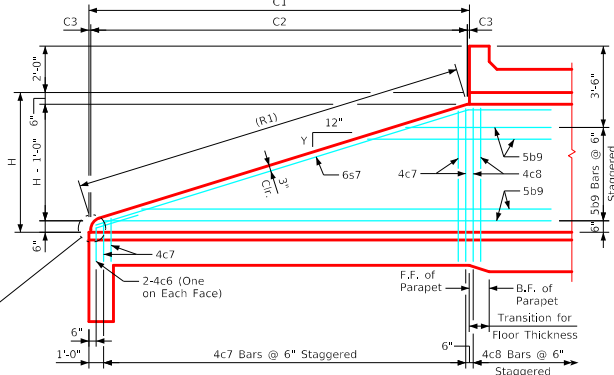


Typical View - Back Face Long Wingwall Reinforcing (RL)



Typical View - Back Face Short Wingwall Reinforcing (RS)

Culvert Height (H)	Slope (Y) Inches
4'	3 3/8"
5'	3 3/8"
6'	3 3/8"
7'	3 3/8"
8'	3 1/2"
9'	3 3/8"
10'	3 1/2"
11'	3 3/8"
12'	3 3/8"



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 4', 6', 8', 10' & 12' height headwalls. One 4c5 & one 5c14 bar for 5', 7', 9' & 11' height headwalls.
 3. Two 4c5 & two 5c14 for 4', 5', 9', 10' & 11' height headwalls. One 4c5 & one 5c14 bar for 6', 7', 8' & 12' height headwalls.
 4. Not applicable for 4' & 5' height headwalls.
 5. Not applicable for 4' thru 8' height headwalls.
 6. For dimension table, see sheet TRFWH 45-2-21.
 7. Top of wall slope may be rounded in some instances.

LATEST REVISION DATE	 IOWADOT Highway Division Standard Design - Triple Reinforced Concrete Box Culverts Flared Wing Headwalls February, 2021	Wingwall Details 45° Skew	TRFWH 45-6-21
		APPROVED BY BRIDGE ENGINEER 	
		FLOW LINE	