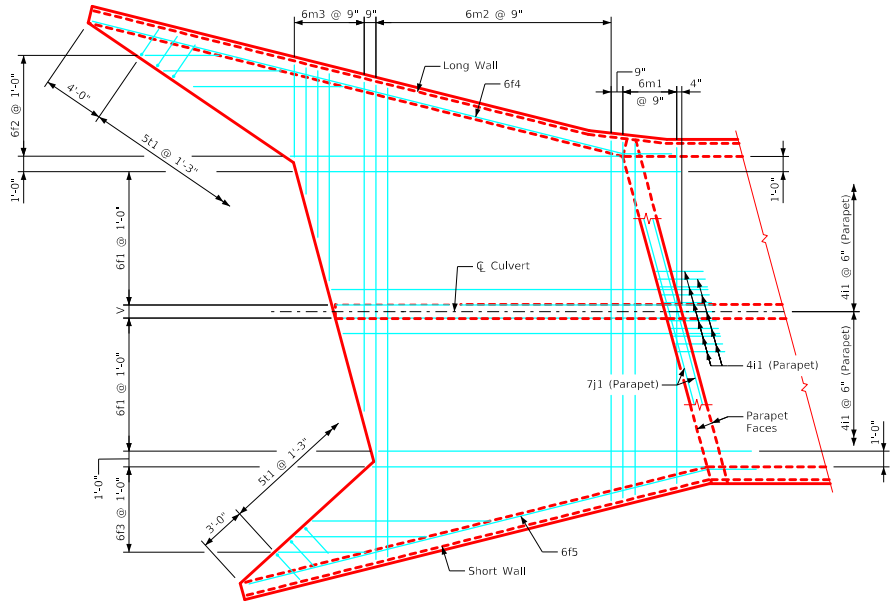
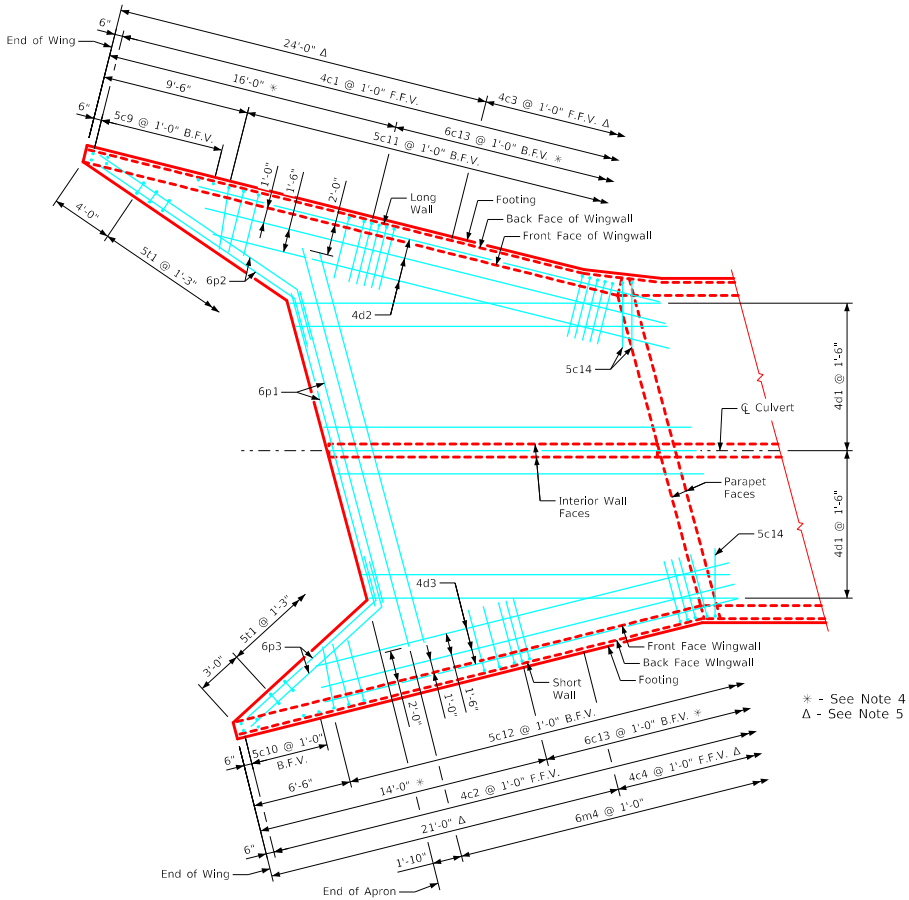


Plan View - Top of Apron Reinforcing



✳ - See Note 4
Δ - See Note 5

Plan View - Bottom of Apron Reinforcing

Notes:

1. Bar spacings and positions shown are similar for all sizes of headwalls in this standard.
2. Wingwall bars consistently referenced from end of wing for all headwalls.
3. Top transverse floor bars are referenced approximately 4" from the back of the parapet for all headwalls.
4. There are no 6c13 bars in the 4' & 5' height headwalls.
5. 4c3 & 4c4 bars used only in the 9', 10', 11' & 12' height headwalls.
6. For dimension table see Sheet TWFWH 15-2-21.
7. For reinforcing in curtain wall see Curtain Wall Details on Sheet TWFWH 15-4-21.

LATEST REVISION DATE	APPROVED BY BRIDGE ENGINEER	IOWADOT Highway Division	
		Standard Design - Twin Reinforced Concrete Box Culverts Flared Wing Headwalls February, 2021	
		Apron Details 15° Skew	TWFWH 15-3-21

ENGLISHLRFDSIGNEDTWINCULVERTSFWH.DGN - TWFWH 15-3-21 - THIS SHEET ISSUED 02-2021.