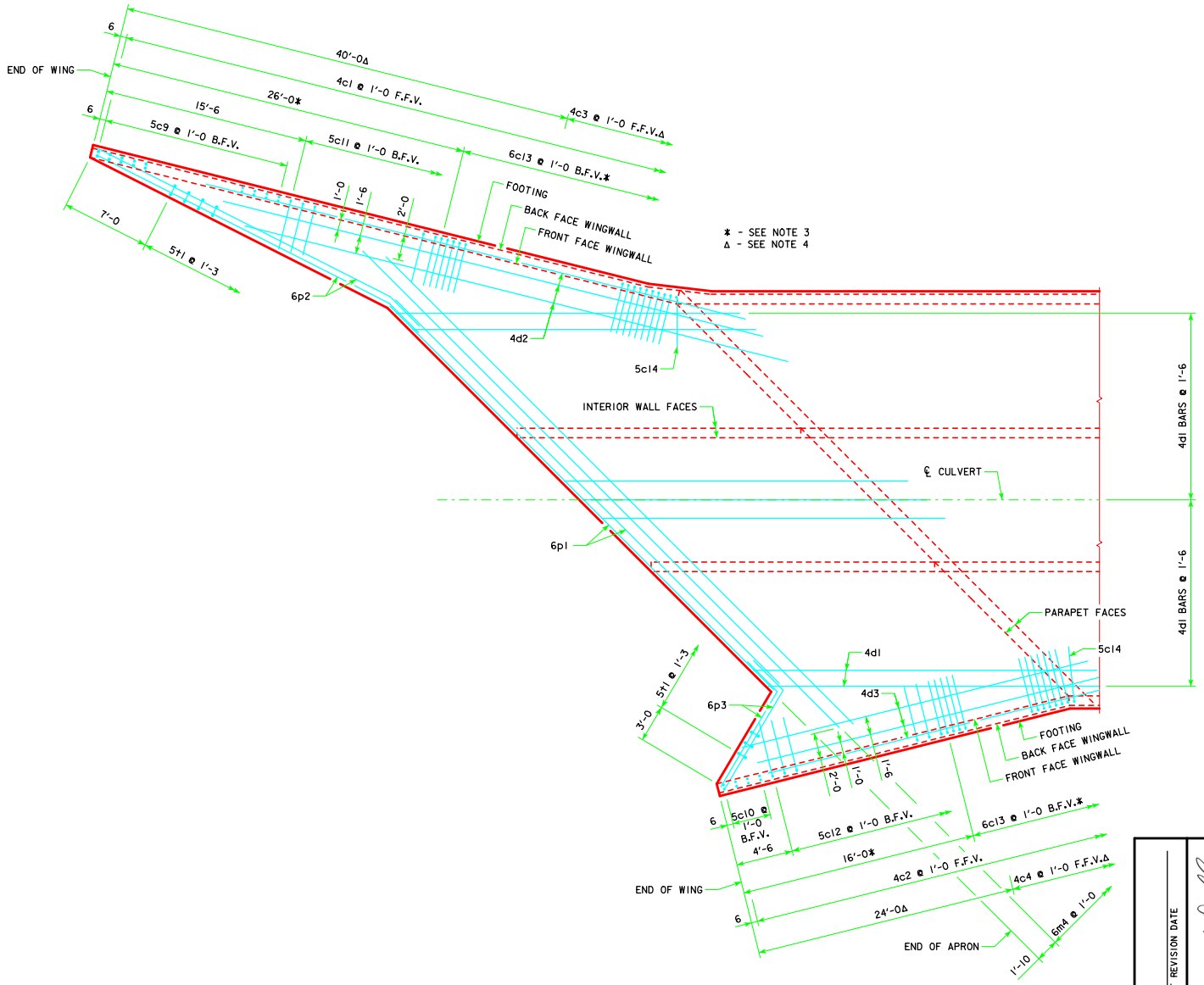

* - SEE NOTE 3
Δ - SEE NOTE 4

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. THERE ARE NO 6c13 BARS IN THE 4' & 5' HEIGHT HEADWALLS.
4. 4c3 & 4c4 BARS USED ONLY IN THE 9', 10', 11' & 12' HEIGHT HEADWALLS.
5. FOR DIMENSION TABLE SEE SHEET TRH 45-2-12.
6. FOR REINFORCING IN CURTAIN WALL SEE CURTAIN WALL DETAILS ON SHEET TRH 45-5-12.

PLAN VIEW - BOTTOM OF APRON REINFORCING BARS

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

45° SKEW

TRH 45-4-12

ENGLISH\RFDSIGNED\TRIPLECULVERTS.DGN - TRH 45-4-12 - THIS SHEET ISSUED 04-12.