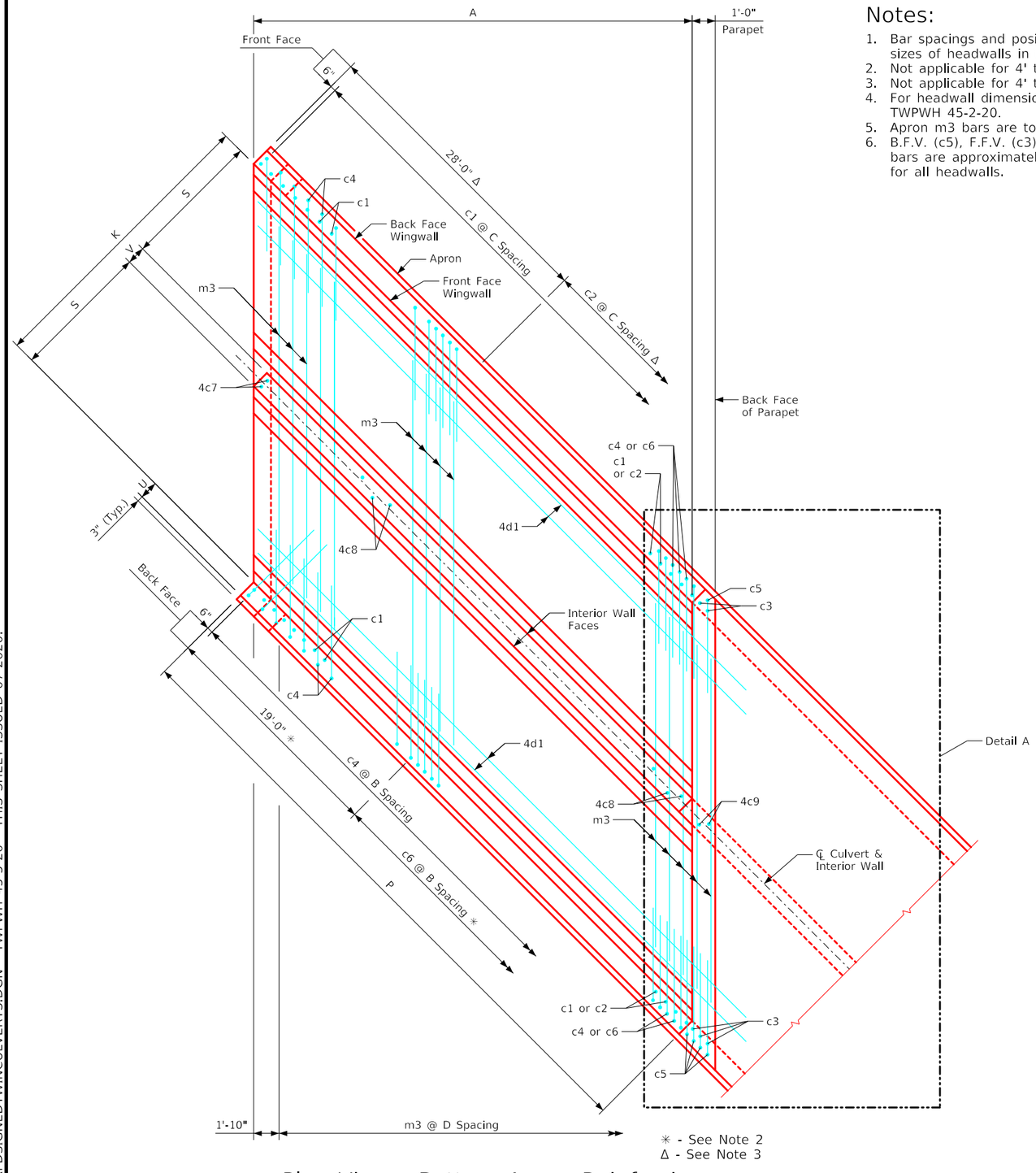


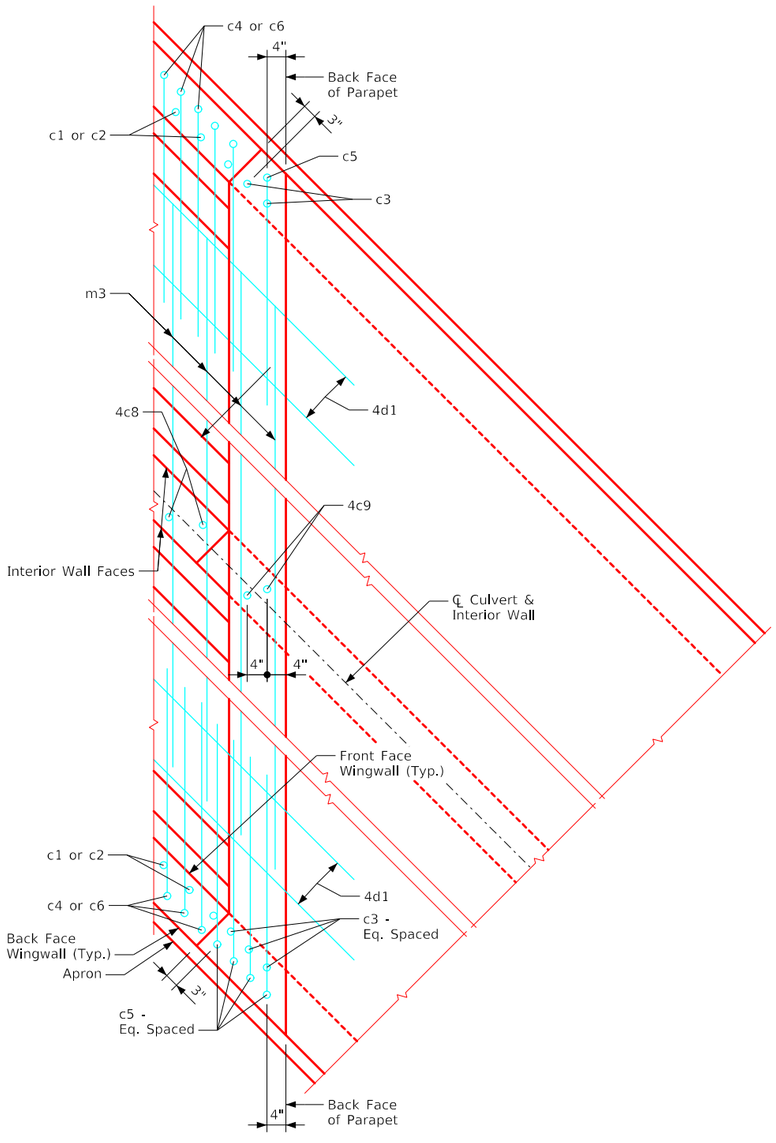
✳ - See Note 2
Δ - See Note 3

Plan View - Bottom Apron Reinforcing

(Curtain Wall Reinforcing not shown, See Sheet TWPWH 45-2-20)

Notes:

1. Bar spacings and positions shown are similar for all sizes of headwalls in this standard.
2. Not applicable for 4' thru 5' height headwalls.
3. Not applicable for 4' thru 8' height headwalls.
4. For headwall dimensions and bar spacing see Sheet TWPWH 45-2-20.
5. Apron m3 bars are to be centered on ℄ culvert.
6. B.F.V. (c5), F.F.V. (c3) and interior wall both F.V. (c9) bars are approximately 4" from the back of parapet for all headwalls.



Detail A

LATEST REVISION DATE

APPROVED BY BRIDGE ENGINEER

IOWADOT

Standard Design - Twin Reinforced Concrete Box Culverts

Parallel Wing Headwalls

July, 2020

Bottom Apron Reinforcing
45° Skew

TWPWH
45-5-20

ENGLISHLRFDSIGNEDTWINCULVERTS.DGN - TWPWH 45-5-20 - THIS SHEET ISSUED 07-2020.