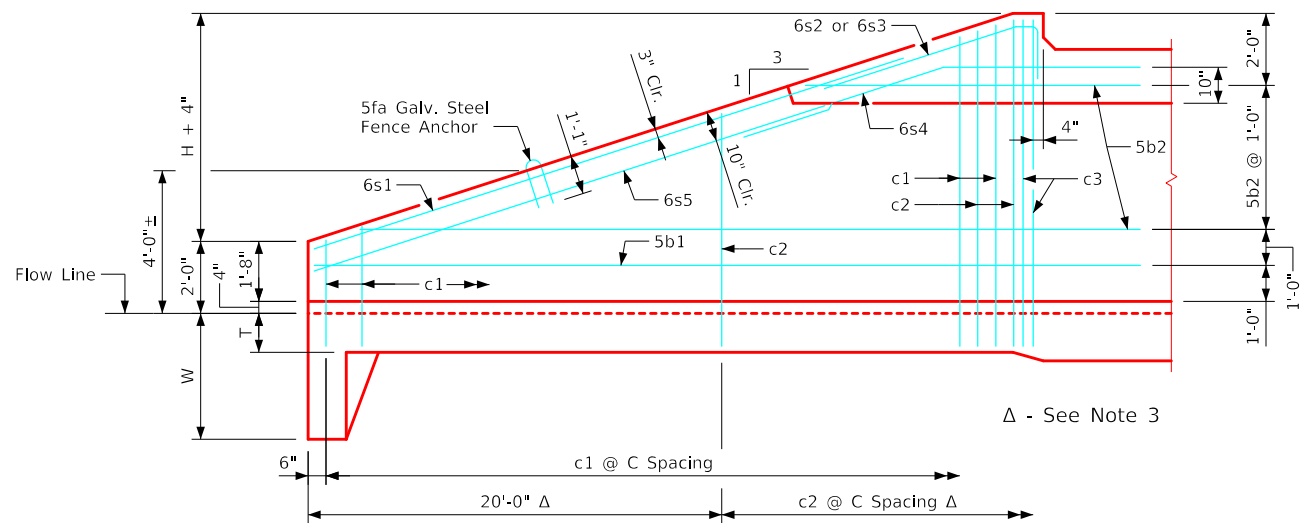
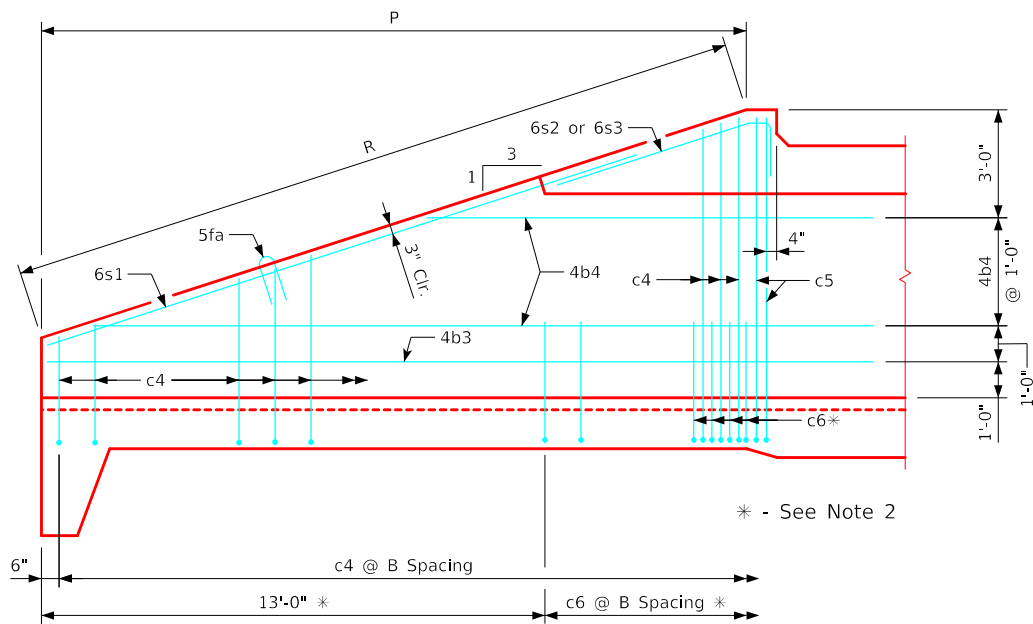


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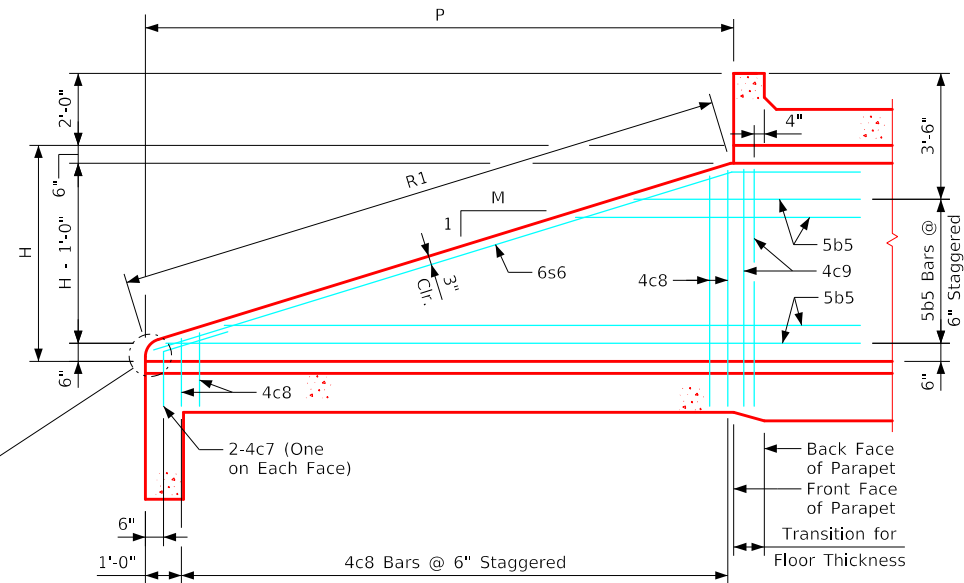
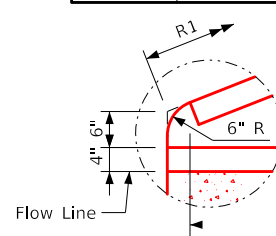


Typical View - Front Face Wingwall Reinforcing



Typical View - Back Face Wingwall Reinforcing

| Culvert Height (H) | Slope (M) |
|--------------------|-----------|
| 4'                 | 4.33      |
| 5'                 | 4.00      |
| 6'                 | 3.80      |
| 7'                 | 3.67      |
| 8'                 | 3.57      |
| 9'                 | 3.50      |
| 10'                | 3.44      |
| 11'                | 3.40      |
| 12'                | 3.36      |



Typical View - Interior Wall

#### 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 TRPWH 0-1-20.
5. Apron m3 bars are to be centered on  $\mathcal{Q}$  culvert.
6. B.F.V. (c5) and F.F.V. (c3) and interior wall both F.V. (c9) bars are approximately 4" from the back of parapet for all headwalls.

|                      |                                                                                                                      |                                                                                                                                                                      |                 |
|----------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| LATEST REVISION DATE | <br>APPROVED BY BRIDGE ENGINEER | <br>Standard Design<br>Triple Reinforced Concrete<br>Box Culverts<br>July, 2020 |                 |
|                      |                                                                                                                      | Wingwall Elevations<br>0° Skew                                                                                                                                       | TRPWH<br>0-3-20 |
|                      |                                                                                                                      |                                                                                                                                                                      |                 |