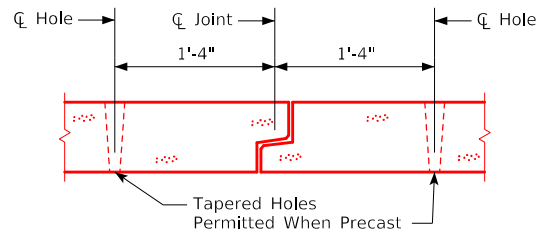
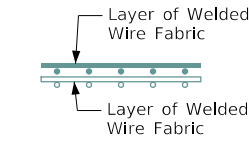


REVISED 10-2021: Updated Note 3.
REVISED 01-2023: Added note to burr threads of Concrete Box Ties.
ENGLISHIGNEDPRECASTCULVERTS.DGN - PRCB G2-20 - THIS SHEET ISSUED 12-2020.



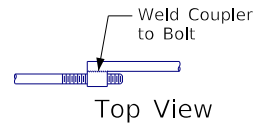
Typical Tie Layout

Note:
Holes shall be cast or drilled 1'-4" from centerline of joints as shown above, unless forms are set up for 1'-4" spacing from outside of joint.

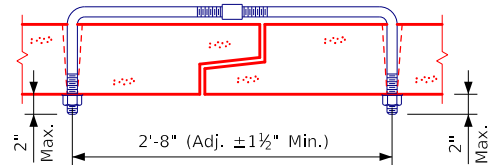


Fabric Layer Detail

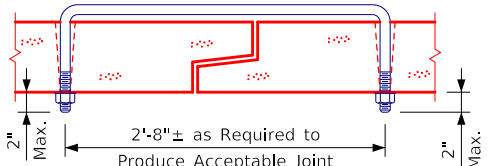
Note:
When more than one layer of welded wire fabric is used to obtain the required reinforcement areas, the wires of the welded wire fabric shall be placed as shown.



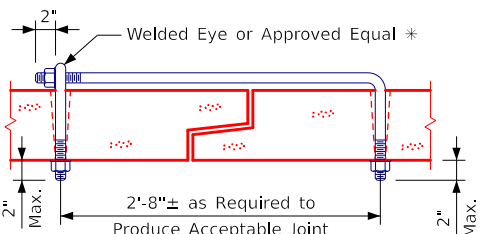
Top View



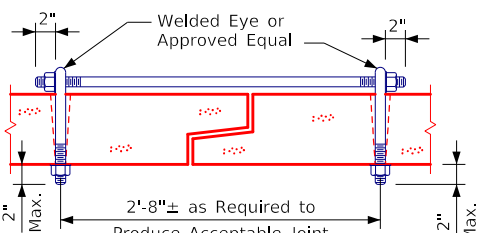
Adjustable Tie



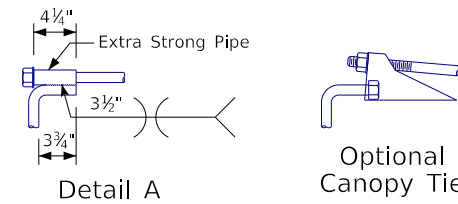
U Bolt Tie ⑥



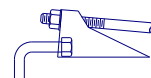
Eye Bolt Tie



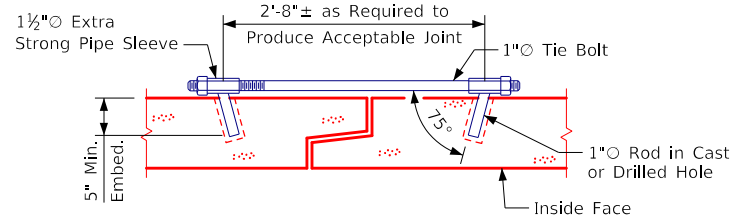
Double Eye Bolt Tie



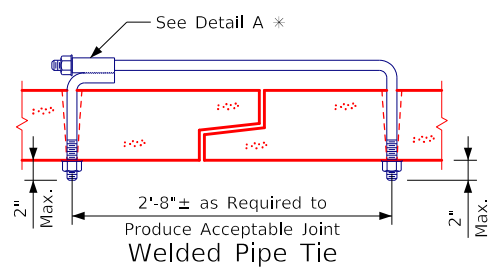
Detail A



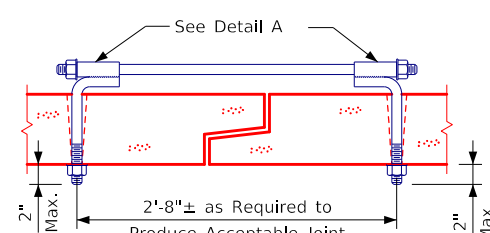
Optional Canopy Tie



Concealed Double Welded Pipe Tie



Welded Pipe Tie

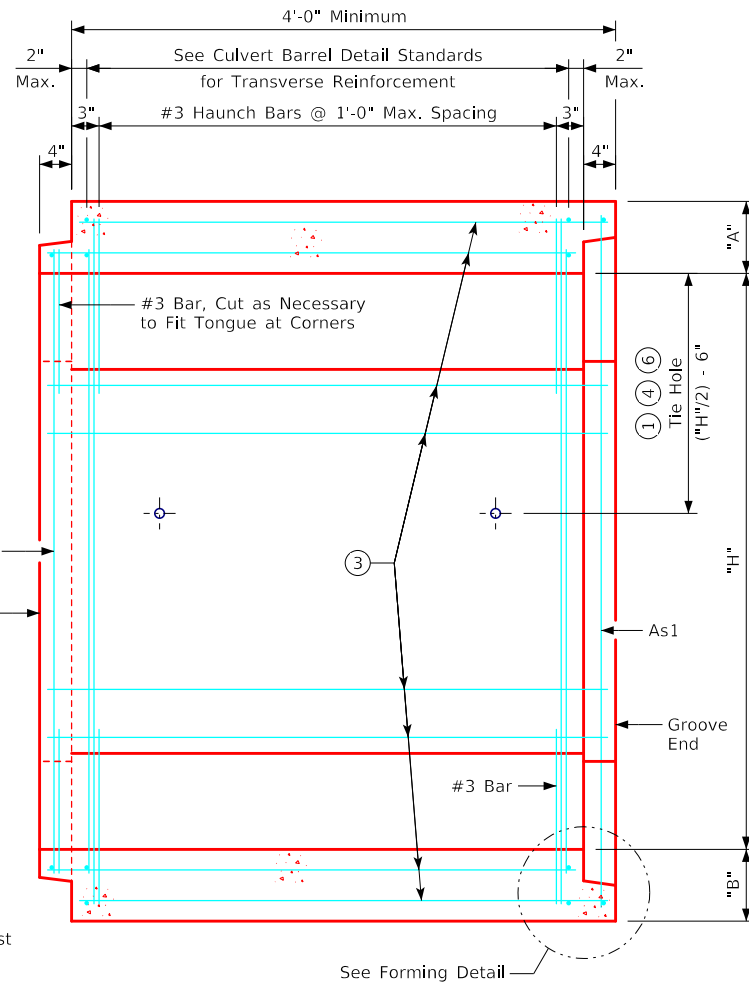


Double Welded Pipe Tie

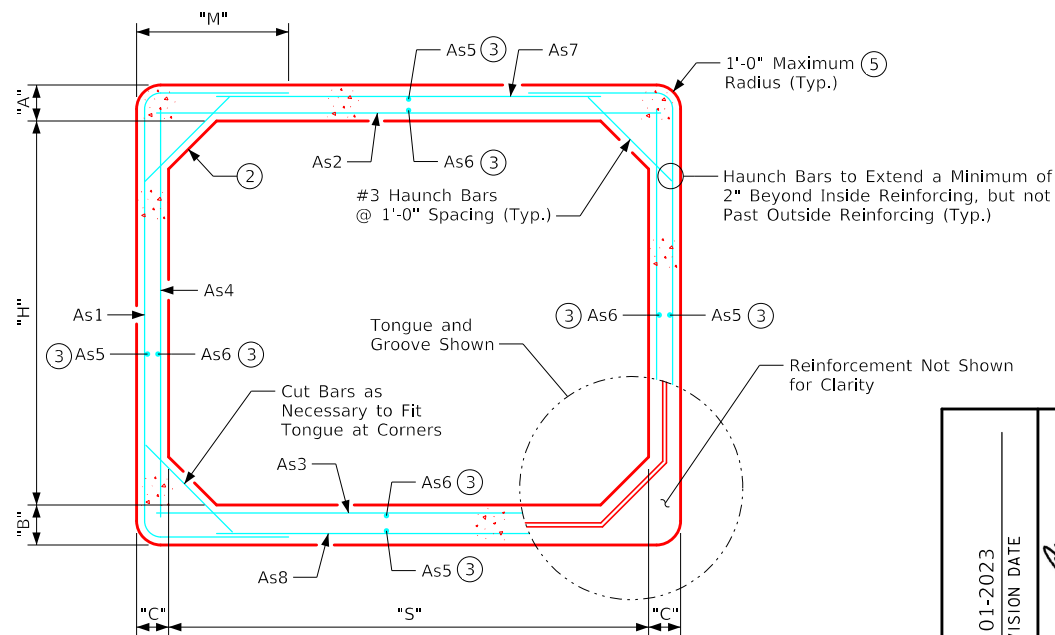
Approved Concrete Box Ties

Note:
Burr threads of Concrete Box Ties without damaging galvanizing to prevent nut rotation after tightening is complete.

* The connections shall be placed at the downstream end when the connections are placed inside of structure.



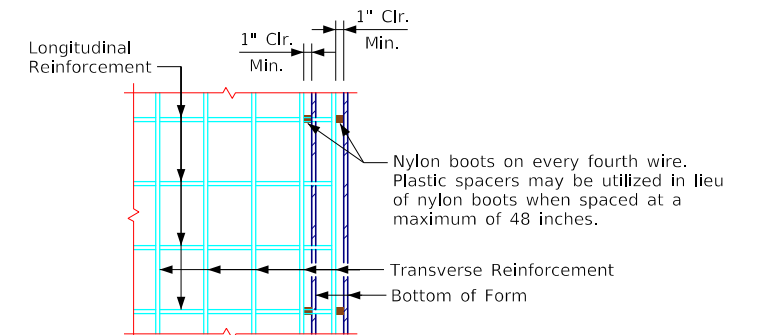
Longitudinal Barrel Section
(Reinforcement Bar Option Shown)



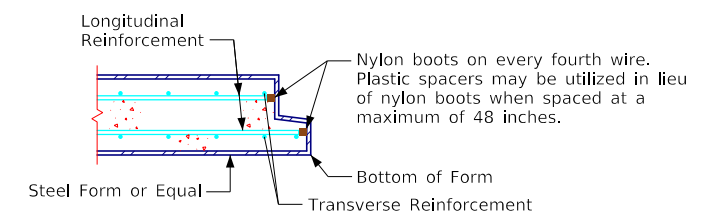
Transverse Barrel Section
(Reinforcement Bar Option Shown)

Notes:

- ① Culvert ties are to be 1"Ø rods. See this sheet for connection details.
- ② Haunch sizes are to be 12" vertical, 12" horizontal on all box sizes.
- ③ Longitudinal reinforcement denoted as As5 & As6 must be placed in slab, floor, and walls and must be 0.06 IN.²/FT. MIN.
- ④ Refer to applicable end section detail sheet for barrel to end section connection tie hole locations.
- ⑤ Optional squared corners with 3/4" to 2" chamfer.
- ⑥ U bolt ties are required for cattle paths with nuts on fill side.

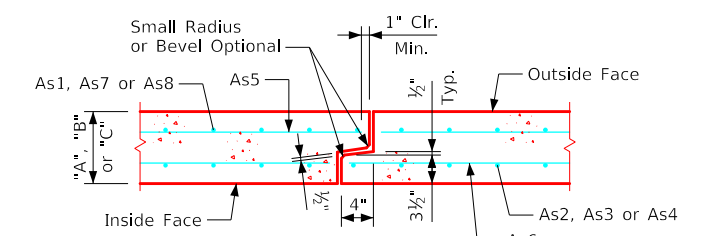


Plan



Section

Forming Detail



Tongue and Groove Joint Detail

01-2023 LATEST REVISION DATE	 Standard Design Single Precast Reinforced Concrete Box Culverts December, 2020	Typical Culvert Barrel Details	
		PRCB G2-20	