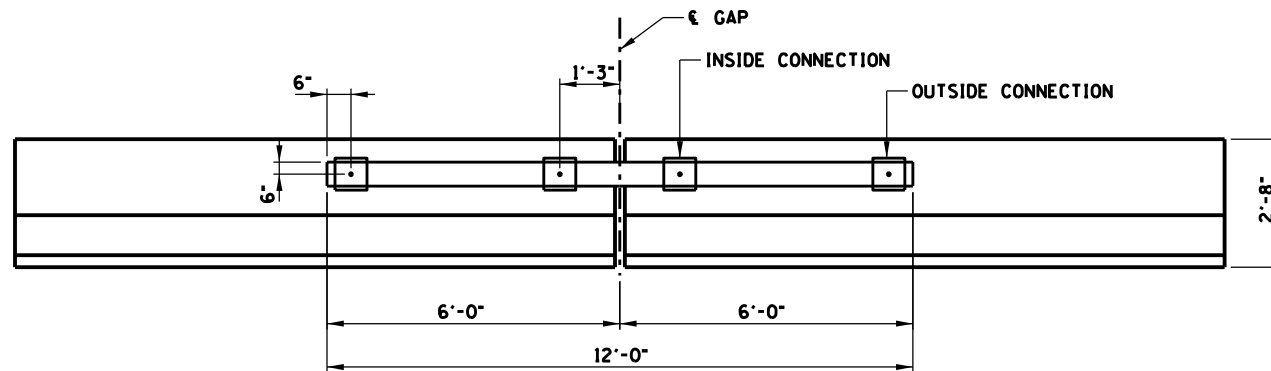


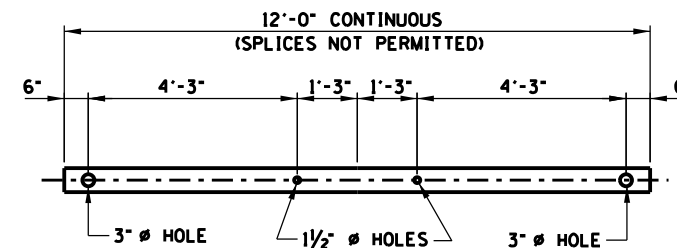
PROJECT NO.	YEAR	SHEET NO.	
	2018		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



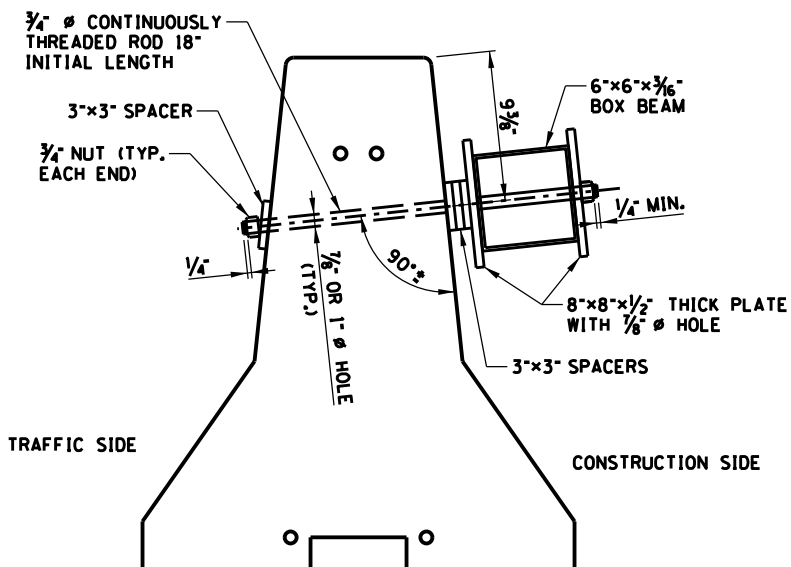
END ELEVATION
NOT TO SCALE



SIDE VIEW
(CONSTRUCTION SIDE)
NOT TO SCALE

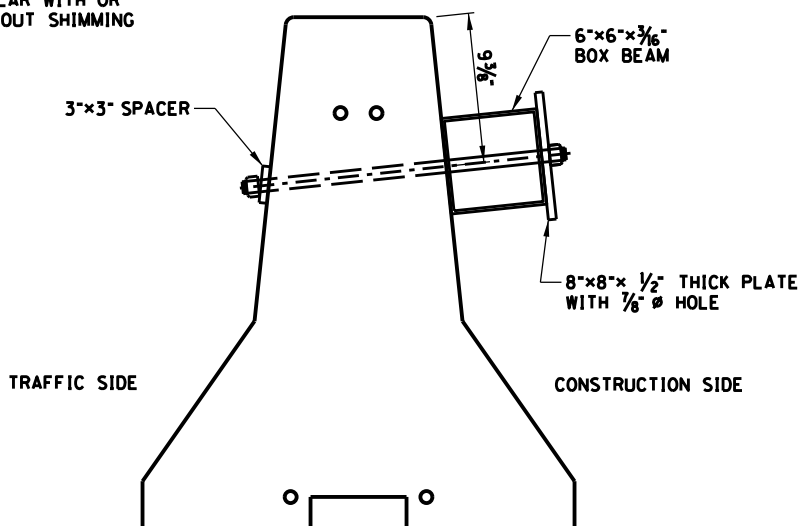


BOX BEAM GUIDE RAIL
HOLE LAYOUT DETAIL
NOT TO SCALE



SECTION WITH SHIMMING
INTERCONNECTED PORTABLE BARRIER RAIL
(SEE STD-2-1)

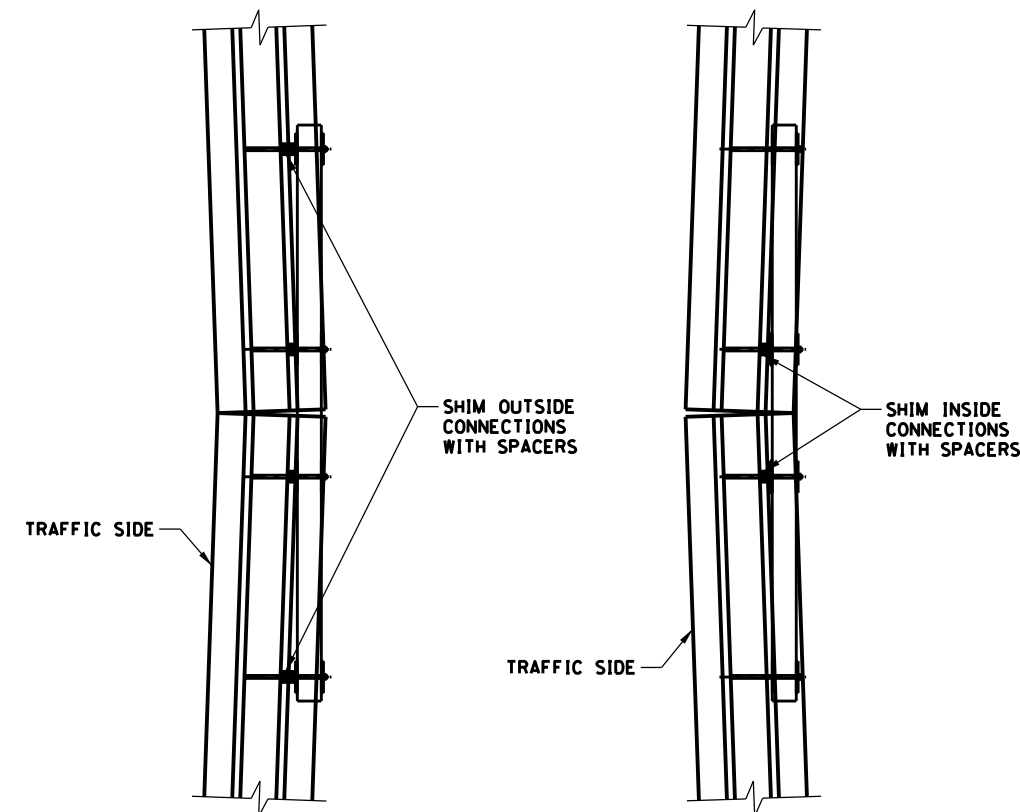
NOTE:
HARDWARE DETAILS
SIMILAR WITH OR
WITHOUT SHIMMING



SECTION WITHOUT SHIMMING
INTERCONNECTED PORTABLE BARRIER RAIL
(SEE STD-2-1)

NOTES:

1. THE BOX BEAM STIFFENER AND HARDWARE AS SHOWN ON THIS SHEET SHALL REPLACE THE USE OF THE 1 1/8" Ø ANCHOR BOLTS SHOWN ON STD-2-1. THE BOX BEAM STIFFENER SHALL BE GALVANIZED AND ASTM A500 GRADE B COLD-FORMED WELDED CARBON STEEL STRUCTURAL TUBING, AND SHALL BE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
2. THE INTERCONNECTED PORTABLE BARRIER RAIL (IPBR) SHALL BE IN ACCORDANCE WITH STD-2-1.
3. IPBR WITH BOX BEAM STIFFENER SHALL BEGIN AT LEAST 50'-0" PRIOR TO, BE CONTINUOUS THROUGH, AND EXTEND AT LEAST 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, THE FIRST/LAST IPBR SEGMENT SHOULD BE PINNED WITH 4 PINS ON THE CONSTRUCTION SIDE.
4. BOX BEAM STIFFENER MAY BE USED WITH IPBR SEGMENTS 14'-0" OR LONGER.
5. IPBR MAY ONLY BE INSTALLED TO THE FOLLOWING MINIMUM RADII:
14'-0" SEGMENT - 161'-0" RADIUS
16'-0" SEGMENT - 184'-0" RADIUS
18'-0" SEGMENT - 207'-0" RADIUS
20'-0" SEGMENT - 230'-0" RADIUS
6. WHERE IPBR ARE PLACED ON A RADIUS, THE RESULTING GAPS BETWEEN THE BOX BEAM AND CONCRETE BARRIER SHALL BE SHIMMED.
7. THE SHIMMING SHALL CONSIST OF 8" x 8" x 1/2" SQUARE PLATE, AND SPACERS AS NEEDED TO SNUG THE BOX BEAM STIFFENER TO THE IPBR. ALL PLATES SHALL BE GALVANIZED AND ASTM A36.
8. SPACERS SHALL BE GALVANIZED AND CONFORM TO ASTM A36.
9. THREADED RODS SHALL BE GALVANIZED AND ASTM A307 GRADE A. NUTS TO BE ASTM A563 GRADE A OR BETTER.
10. THE BOX BEAMS AND OTHER HARDWARE NEED TO BE NEW, BUT THE GALVANIZING REMAINING SHALL BE SUFFICIENT TO ENSURE THAT THE STEEL IS STRUCTURALLY INTACT.
11. COST OF BOX BEAMS STIFFENERS, HARDWARE, GALVANIZATION, AND INSTALLATION SHALL BE INCLUDED IN THE UNIT COST FOR ITEM NO. 712-02.47 (L.F.).



PLAN VIEW IPBR CURVING
TOWARD TRAFFIC

PLAN VIEW IPBR CURVING
AWAY FROM TRAFFIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNTED
INTERCONNECTED
PORTABLE BARRIER RAIL
ALTERNATE CONNECTION
DETAIL
2018

CORRECT *Deed A. K...*
ENGINEER OF STRUCTURES

DESIGNED BY G. YOUNG
DRAWN BY G. YOUNG
SUPERVISED BY T. KHAZEYICZ
CHECKED BY H. WALKER
DATE 07/2018
DATE 07/2018
DATE 07/2018
DATE 07/2018