

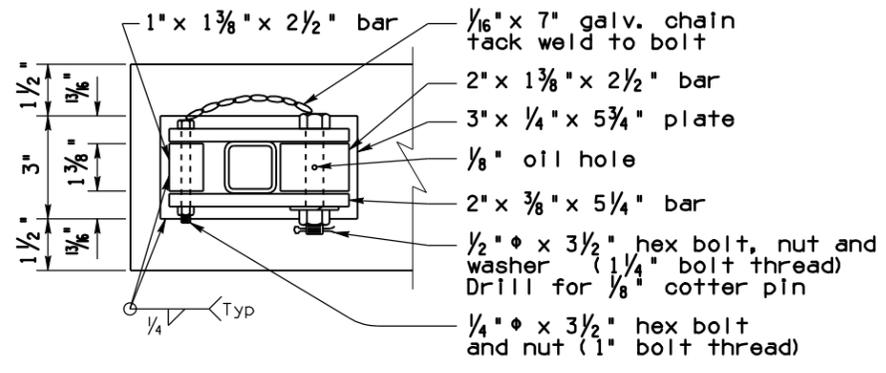
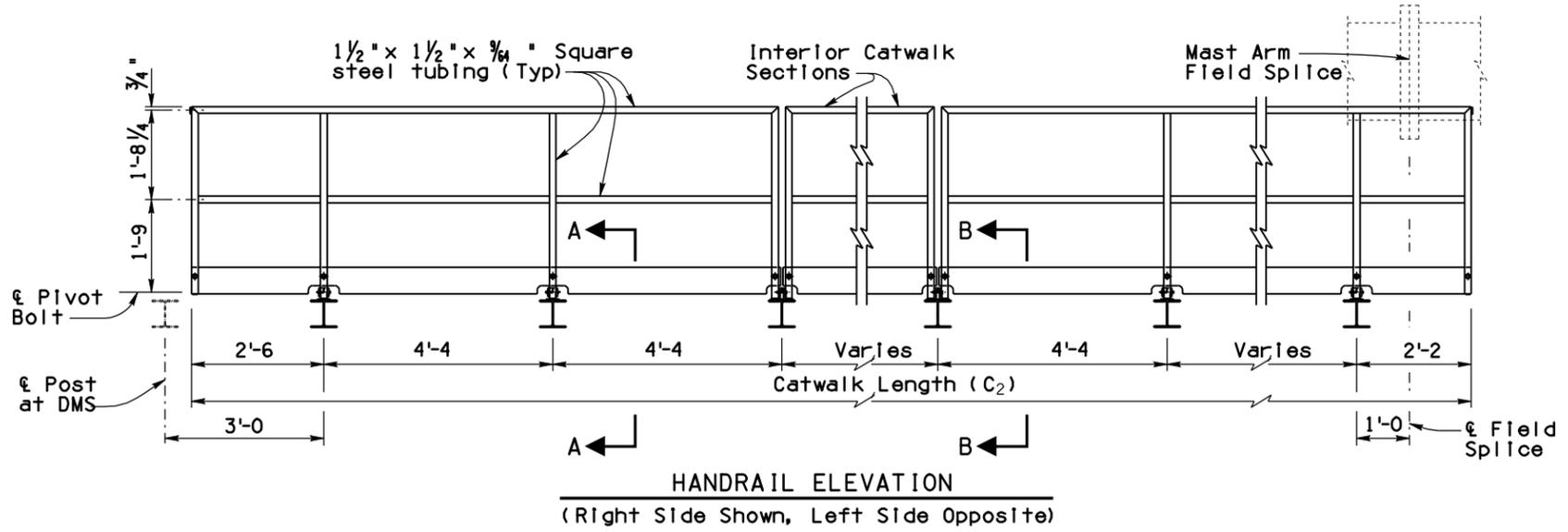
Note to Designer: The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

PRIOR DISTRIBUTION DATE 03/17

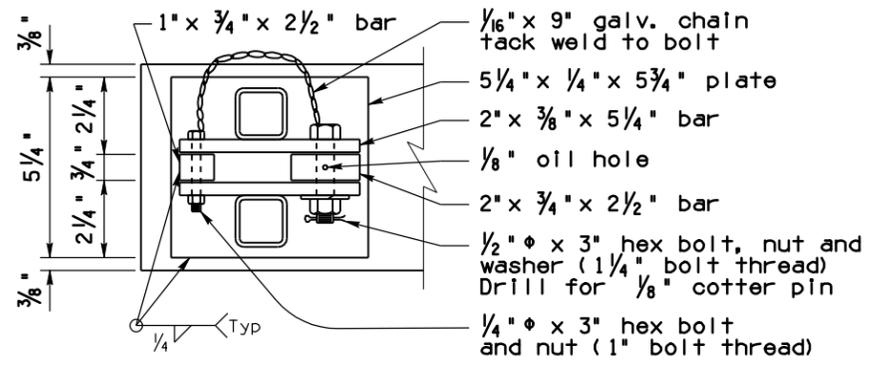
DMS TUBULAR FRAME CAMBER ( INCHES )								
Frame Type	2F	2F	3F	3F	3F	4F	4F	4F
Span	56'-0"	70'-0"	82'-0"	94'-0"	106'-0"	118'-0"	130'-0"	142'-0"
"X"	1"	1 1/2"	1 3/4"	2 1/2"	3 1/2"	4"	6"	7 3/4"
"Y"	1 1/4"	2"	2 1/4"	3 1/2"	4 3/4"	6"	8 1/4"	11 1/4"

Calculated camber provides for deflections due to dead load of tubular structure and dead loads of DMS cabinet, catwalks and attachments. For spans other than shown, interpolate for "X" and "Y" dimensions.

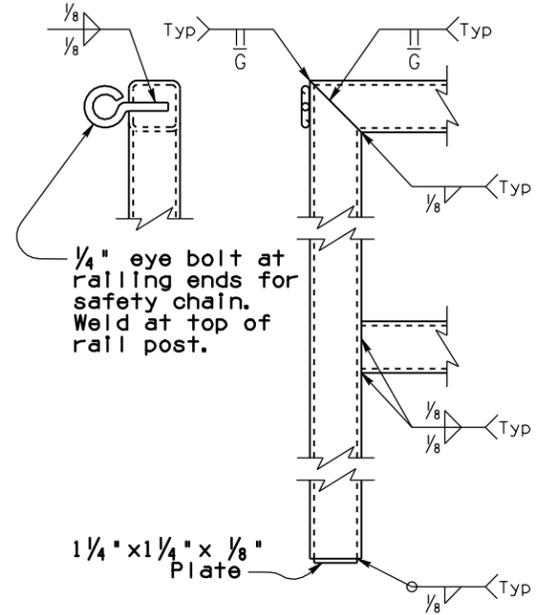
See SD 9.20 (3 of 5) for CAMBER DIAGRAM and camber notes.



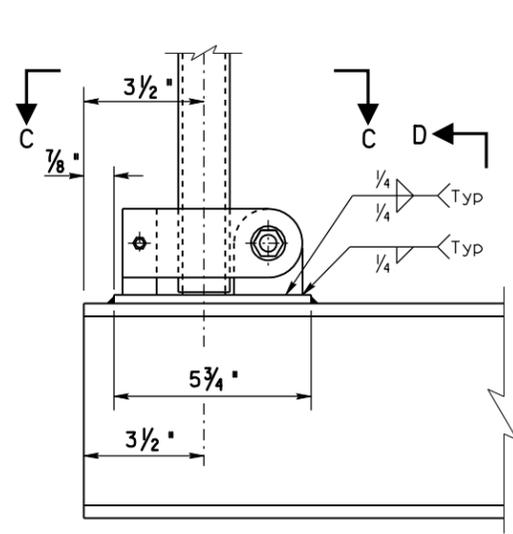
SECTION C-C  
(Single Post)



SECTION E-E  
(Dual Post)

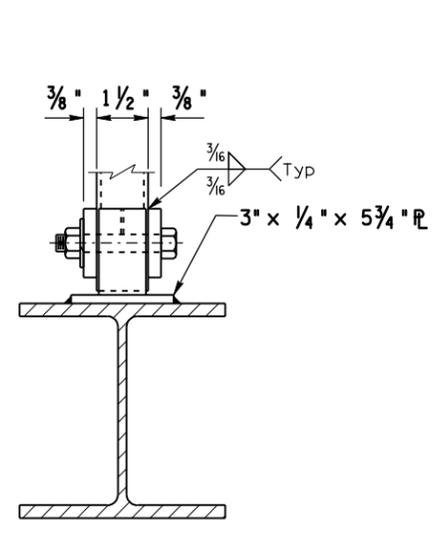


HANDRAIL WELD DETAILS

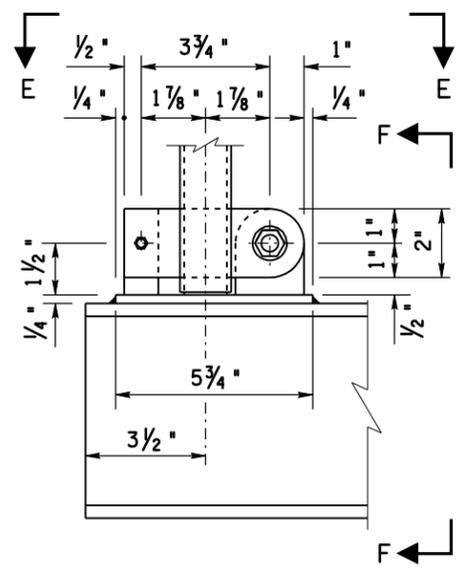


SECTION A-A  
(Single Post)

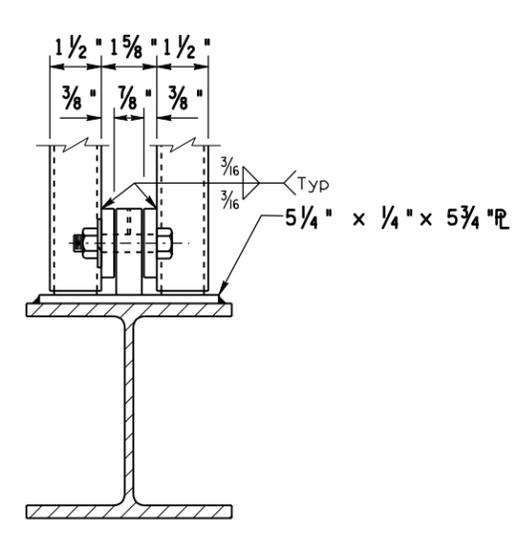
See SECTION B-B for dimensions not shown



SECTION D-D  
(Single Post)



SECTION B-B  
(Dual Post)



SECTION F-F  
(Dual Post)

**NOTES:**

- Maximum support post spacing shall be 4'-4" (Maximum three spaces per rail section).
- Minimum support post spacing shall be 1'-10" (Minimum two support posts per rail section).
- Adjacent Catwalk section shall be dual post for interior sections.
- Minimum catwalk length shall be 6'-6".
- Handrail to be 1 1/2 x 1 1/2 x 3/4 square steel tubing weighing 2.70 plf.
- Provide eye bolts at ends of top handrails for 3/16 galvanized safety chain with (1) 1/4 snap hook per catwalk end.
- Provide 5/8 holes for 1/2 pivot bolts and 3/8 holes for 1/4 lock bolts.
- See SD 9.52 (5 of 5) for inside handrails, grating and toeboard details.

STANDARDS ENGINEER <b>A. ALZUBI</b> RECOMMENDED FOR APPROVAL GROUP MANAGER APPROVED STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION BRIDGE GROUP STANDARD DRAWING  DYNAMIC MESSAGE SIGN TUBULAR FRAME HANDRAIL DETAILS	DRAWING NO. <b>SD 9.52</b> (4 of 5)
DATE 04/19		