

SUPERSEDED BY EB 15-031 EFFECTIVE 9/28/15		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 08-015
Title: ELIMINATION OF WEATHERING STEEL BRIDGE RAIL			
Distribution: ☒ Manufacturers (18) ☐ Surveyors (33) ☒ Local Govt. (31) ☒ Consultants (34) ☒ Agencies (32) ☒ Contractors (39)		Approved:  George Christian, P.E., Deputy Chief Engineer Structures 4/2/08 Date	

ADMINISTRATIVE INFORMATION:

- This Engineering Instruction (EI) is effective beginning with projects submitted for the letting of September 4, 2008.
- No issuances are superseded by this EI.

PURPOSE: To issue revisions to §568 BRIDGE RAILING and §710-23 STEEL BRIDGE RAILING of the Standard Specifications.

TECHNICAL INFORMATION:

- It has been the policy for several years that weathering steel must not be used for bridge rail. This was accomplished through a note in the plans prohibiting the weathering steel option that is available in the Standard Specifications of Construction and Materials. As weathering steel is not permitted for this use, this EI removes the option from the Standard Specifications.
- There is no cost impact, since the option for weathering steel was not available before the issuance of this EI.
- The term 'rustic' is being dropped, in favor of 'brown' or 'weathered brown'.

IMPLEMENTATION:

- Main Office Design Quality Assurance Bureau will insert the standard specification shelf note beginning with projects submitted for the letting of September 4, 2008.

TRANSMITTED MATERIALS: Attached is a standard specification shelf note for *Elimination of Weathering Steel for Bridge Railing*.

CONTACT: Direct questions regarding this EI to Duane Carpenter of the Office of Structures via e-mail at dcarpenter@dot.state.ny.us or phone at (518) 457-5715.

Washers² F436M
 Lock Washers High Carbon Heat Treated Spring Steel: ASME B18.2
 Anchor Plates A36M (A 709 Grade 250)
 Plate Shims A36M (A 709 Grade 250)
 Tube Rail Splices A500 Grade B
 Solid Rail Splices A572M Grade 345 (A709M grade 345)
 Angle¹ A572M Grade 345 (A709M grade 345)
 Splice Plates A572M Grade 345 (A709M grade 345)
 Railing Post¹ A572M Grade 345 (A709M grade 345)
 Tubular Posts A500 Grade B

1 All post material, including base plates, shall be furnished to minimum Charpy V-notch toughness requirements as required by §715-01, under Charpy V-Notch Impact test.

2 Use the following nut and washers for the given bolt class:

Bolt or Stud Class	NUT F563M (class & Dimension style of nut)	Washer A563M Type
4.6	5 H1	1 or 3
8.8	10S HH	1 or 3

Page 821, §710-23 E. Galvanizing, fourth paragraph, *replace* "When paint is used to obtain a rustic appearance", with the following:

" F. Brown Rail. When brown rail is specified"

Section 568 – Bridge Railing

Make the following changes to the Standard Specifications of May 4, 2006:

Page 397, Section 568-1 Description, *delete* the second and third paragraphs, and *replace* with the following:

As soon as the Contract is awarded, the Contractor shall notify the DCES of the name and address of the Fabricator of all bridge railing in accordance with §106-01 Sources of Supply. This notification shall list the specific shop or shops in which the railing will be fabricated.

Page 398, Section 568-2 Materials, *delete* the second paragraph, beginning with, "When Steel Bridge Railing - Rustic . . ."

Page 400, Section 568-5.01 Material Requirements, *replace* the list of items with the following:

Item No.	Item	Pay Unit
568.50	Steel Bridge Railing (Two-Rail)	Meter
568.51	Steel Bridge Railing (Four-Rail)	Meter
568.52	Steel Bridge Railing (Five-Rail)	Meter
568.53	Steel Bridge Railing (Two-Rail) with Handrail	Meter
568.54	Steel Bridge Railing (Three-Rail)	Meter
568.60	Steel Bridge Railing - Brown (Two-Rail)	Meter
568.61	Steel Bridge Railing - Brown (Four-Rail)	Meter
568.62	Steel Bridge Railing - Brown (Five-Rail)	Meter
568.63	Steel Bridge Railing - Brown (Two-Rail) with Handrail	Meter
568.64	Steel Bridge Railing - Brown (Three-Rail)	Meter
568.70	Transition Bridge Railing	Meter
568.71	Transition Bridge Railing - Brown	Meter
568.80	Pedestrian and Bicycle Railing (One-Rail)	Meter
568.81	Pedestrian and Bicycle Railing (Two-Rail)	Meter
568.82	Pedestrian and Bicycle Railing (Three-Rail)	Meter
568.83	Pedestrian and Bicycle Railing (Four-Rail)	Meter
568.84	Pedestrian and Bicycle Railing (Five-Rail)	Meter
568.85	Pedestrian and Bicycle Railing - Brown (One-Rail)	Meter
568.86	Pedestrian and Bicycle Railing - Brown (Two-Rail)	Meter
568.87	Pedestrian and Bicycle Railing - Brown (Three-Rail)	Meter
568.88	Pedestrian and Bicycle Railing - Brown (Four-Rail)	Meter
568.89	Pedestrian and Bicycle Railing - Brown (Five-Rail)	Meter
568.90	Bicycle Railing (Two-Rail)	Meter
568.91	Bicycle Railing - Brown (Two-Rail)	Meter
568.92	Bicycle Railing (Four-Rail)	Meter
568.93	Bicycle Railing - Brown (Four-Rail)	Meter

Pages 819 and 820, §710-23 Material Requirements, *replace* the list of materials with the following:

Rail Tubes	A500 Grade B
Rail End Caps	A36M (A 709 Grade 250)
Base Plates ¹	A572M Grade 345 (A709M grade 345)
Anchor Studs	F568M Class 8.8
Splice Bolts	F568M Class 8.8
Round Head Bolts	F568M Class 8.8
Nuts ²	A563M