



# **INDIANA DEPARTMENT OF TRANSPORTATION**

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## **Design Memorandum No. 23-10**

August 14, 2023

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ Stephanie Wagner  
Stephanie Wagner  
Director of Bridge Engineering

**SUBJECT:** Bridge Painting Pay Items and Descriptions

**REVISES:** *Indiana Design Manual Section 17-5.11 and Figure 17-5L*

**EFFECTIVE:** As Noted

### **Bridge Painting Pay Items**

The Standards Committee approved changes to *Standard Specifications* Section 619, Painting Bridge Steel, at the February 2023 meeting, which have been incorporated into the 2024 *Standard Specifications*. The changes address contract inconsistencies in the application of beam end cleaning and painting when existing beams are encased in concrete, typically as part of a semi-integral end bent conversion.

Effective with lettings on or after September 1, 2023, projects that contain existing steel beams and a semi-integral end bent conversion will require partial bridge cleaning and painting pay items. Projects that contain existing steel beams, semi-integral end bent conversion, and bridge painting will require both partial bridge cleaning and painting pay items as well as full bridge cleaning and painting pay items. Bridge painting pay item requirements by project work activity are summarized in a table on page 3.

The limits of the partial paint system should extend 1 ft beyond the face of end bent. Designers must dimension the partial paint limits on the plans until a Standard Drawing is issued. If the project also includes complete bridge painting, the limits of this painting will be from face of end bent to face of end bent. Note that these limits will overlap a portion of the partial paint system limits. An illustration of the partial paint system limits to be shown on plans is included on page 4.

[IDM Chapter 17](#) has been updated to reflect these changes. Pay items requirements have been incorporated in the IDM Figure 17-5L.

**Bridge Painting Pay Item Descriptions**

The Standards Committee approved changes to various *Standard Specifications* section at the July 2023 meeting to change the term “paint(ing)” to “coat(ing)”. This change will result in better consistency between the *Standard Specifications* and typical industry nomenclature.

Effective with lettings on or after December 1, 2023, RSP 619-B-321 will be included in any contract with a 619 pay items.

As shown in the table below, the existing bridge painting pay item numbers will remain the same, but the descriptions will be revised from “paint” to “coat” in accordance with the RSP. The description will be updated automatically in CES. Revised estimates need not be resubmitted.

Designers should begin using the term bridge “coating” on plans, but projects past the Stage 3 plan development stage as of the date of this memo need not be revised.

Associated changes to affected Design Manual chapters will be made editorially at a later date.

Pay Item	Old Description	New Description	Unit
619-12507	Clean and Paint Steel Piling, Bridge No. ____	Clean and <i>Coat</i> Steel Piling Bridge No. ____	LS
619-51859	Paint Steel Bridge, Br. No. ____	<i>Coat</i> Steel Bridge Br. No. ____	LS
619-51860	Paint Steel Bridge, Partial Br. No. ____	<i>Coat</i> Steel Bridge Partial Br. No. ____	LS
619-95315	Clean and Paint Bearing Assemblies Br. No. ____	Clean and <i>Coat</i> Bearing Assemblies Br. No. ____	LS

For questions related to this design memo please contact the Bridge Engineering Division at [Bridgedesignoffice@indot.in.gov](mailto:Bridgedesignoffice@indot.in.gov)

Bridge Painting Pay Items by Project Work Activity (Eff. September 1, 2023)

Project Includes...	And...	Required Pay Item(s) <sup>(1)</sup>	Notes
<b>New Steel Beam (non-weathering steel)</b>	beam ends encased in concrete (integral or semi-integral end bent)	No painting pay items	SS 619.12 Field Painting New Steel Bridge Beams are shop-primed, subsequent coatings are field-applied.
<b>New Steel Beam (weathering steel)</b>	beam ends encased in concrete (integral or semi-integral end bent)	No painting pay items	SS 619.12 Field Painting New Steel Bridge Beams are shop-primed, subsequent coatings are field-applied. Paint limits (distance beyond bent or pier) are shown on Standard Drawings.
<b>Existing steel beam</b>	beam end encased in concrete (semi-integral conversion only, no additional bridge painting)	Clean Steel Bridge, Partial, QP____, Br. No.____ <b>AND</b> Paint Steel Bridge, Partial, Br. No.____ <b>AND</b> Disposal of Cleaning Waste, ( <u>Waste Type</u> ), Br. No.____	SS 619.13 and 619.20 (line 930) Partial Paint System  Note: Partial paint system limits must be shown on the plans until such time as the limits are incorporated into the Standard Drawings. Limits should be 12-in. beyond the face of the end bent.
<b>Existing steel beam</b>	beam end encased in concrete (semi-integral conversion) <b>AND</b> bridge painting	Clean Steel Bridge, Partial, QP____, Br. No.____ <b>AND</b> Paint Steel Bridge, Partial, Br. No.____ <b>AND</b> Clean Steel Bridge, QP____, Br. No.____ <b>AND</b> Paint Steel Bridge, Br. No.____ <b>AND</b> Disposal of Cleaning Waste, ( <u>Waste Type</u> ), Br. No.____	SS 619.13 and 619.20 (line 930) Requires both partial and full bridge cleaning and painting pay items.  Note: Partial paint system limits must be shown on the plans until such time as the limits are incorporated into the Standard Drawings. Limits should be 12-in. beyond the face of the end bent. Partial painting limits will overlap the full painting limits.

<sup>(1)</sup> Effective December 1, “Paint” will be revised “Coat” in these pay item descriptions. Pay item numbers will remain unchanged. Descriptions will be updated automatically in CES.

Paint Limits to be Shown on Plans for Existing Beam End Encased in Concrete<sup>(1)</sup>

<sup>(1)</sup> “Paint(ing)” will be revised “Coat(ing)” effective December 1, 2023.

