

ORIGINATION FORM

Date: 8-9-13

Originator: Eddy Scott

Contact Information: District 2 Specifications/Final Plans 386.961.7831

Specification Title: **Coating Existing Structural Steel**

Specification Section, Article, or Subarticle Number: **561**

Why does the existing language need to be changed? 561-10.1: To address problems with painting overspray complaints from the public due to overspray on vehicles, etc. during construction work involving painting activities. For 561-12 & 561-13: The unit of measurement is lump sum (1) however the unit of measure for estimating purposes (per the BOE) is tons. Painting is a surface application (area) with little relationship to the weight of the object. Therefore Estimators have to consider the surface area and convert to tons. As no quantities are shown in the plans Bidders are left guessing as to the total area (or tons) needing paint. This is particularly difficult when spot painting small areas rather than large area or an entire structure. There is a need to use a more precise unit of measure with less potential for error to calculate, bid and adjust quantities.

Summary of the changes: 561-10.1: Requires plans and programs for overspray protection, handling complaints, claims, and documentation. 561-12 & 561-13: Added method of measurement and basis of payments for new pay item 561-2 – Coating Existing Structural Steel – square feet.

Are these changes applicable to all Department jobs? 561-10.1: Yes, when coating existing structural steel. 561-12 & 561-13: Yes, when coating existing structural steel and the new pay item is used.

If not, what are the restrictions?

Will these changes result in an increase or decrease in project costs? 561-10.1: There may be additional cost in the form of higher bids that are difficult to quantify. There is a potential for an even greater savings by reducing the chance of property damage and personal injury. However it is conservatively estimated that there will be no change in cost. 561-12 & 561-13: Yes.

If yes, what is the estimated change in costs? 561-10.1: None. 561-12 & 561-13: Savings could be generated by the more precise estimating, bidding, and adjustments allowed by using a square feet pay item. As there is no historical cost for using a square feet or other area measurement for this work it's difficult to quantify. However based on the wide disparity between estimates and the bids for the lump sum item currently in use there should be an average minimum savings of \$5000 per project.

With who have you discussed these changes? District Bridge Maintenance, District Estimates, Central Office Specifications and Estimates.



Florida Department of Transportation

RICK SCOTT
GOVERNOR

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: September 25, 2013

TO: Specification Review Distribution List

FROM: Daniel Scheer, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **5611001 Coating Existing Structural Steel.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Eddy Scott to address problems with painting overspray complaints from the public due to overspray on vehicles, etc. during construction work involving painting activities. Also the unit of measurement is lump sum (1) however the unit of measure for estimating purposes (per the BOE) is tons. Therefore there is a need to use a more precise unit of measure with less potential for error to calculate, bid and adjust quantities.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DS, or daniel.scheer@dot.state.fl.us. Comments received after **October 28, 2013**, may not be considered. Your input is encouraged.

DS/cah
Attachment

COATING EXISTING STRUCTURAL STEEL.
(REV 9-910-13)

SUBARTICLE 561-10.1 is deleted and the following substituted:

561-10.1 General: Establish plans and programs to protect the environment, public, contractor employees, ~~and~~ other workers, *and property* from *overspray*, exposure to toxic heavy metals ~~as well as~~ *and the* releases and emissions of hazardous materials and nuisance dusts. *Include in such plans and programs a procedure for the receipt, processing, evaluation and timely written response by the Contractor or its insurance company for claims by the public for damage resulting from the foregoing work. Provide the Department with copies of any written response which denies such damage claims.* Conduct all coating application and removal operations in compliance with EPA, OSHA, and other applicable Federal, State and local regulations. Provide a contingency plan for the remediation of water and land in the event of contamination by solid or liquid paint and contaminated water.

ARTICLES 561-12 and 561-13 are deleted and the following substituted:

561-12 Method of Measurement.

*When a lump sum pay item is provided, t*The quantity to be paid *for coating existing structural steel* will be the lump sum quantity *for the areas shown in the plans, coated,* completed and accepted.

When a square foot item is provided, the quantity to be paid for coating existing structural steel will be the square foot surface area shown in the plans, completed and accepted.

561-13 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section.

Payment will be made under:

- | | |
|-------------------------|---|
| Item No. 561- 1- | Coating Existing Structural Steel - lump sum. |
| <i>Item No. 561- 2-</i> | <i>Coating Existing Structural Steel - square foot.</i> |

What other offices will be impacted by these changes? 561-10.1: Construction and Bridge Maintenance. 561-12 & 561-13: Construction, Bridge Maintenance, Design and Estimates.

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? Proposed changes to the BOE are attached.

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No

Contact the State Specifications Office for assistance in completing this form.

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