



Florida Department of Transportation

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GOVERNOR

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Tallahassee, FL 32399-0450

KEVIN J. THIBAUT, P.E.
SECRETARY

January 21, 2020

Khoa Nguyen
Director, Office of Technical Services
Federal Highway Administration
3500 Financial Plaza, Suite 400
Tallahassee, Florida 32312

Re: State Specifications Office
Section: **962**
Proposed Specification: **9620800 Structural Steel and Miscellaneous Metal Items
(Other than Aluminum)**.

Dear Mr. Nguyen:

We are submitting, for your approval, two copies of the above referenced Supplemental Specification.

The changes are proposed by Chase Knight from the State Materials Office to relocate language from the Standard Plans to the Specification.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to daniel.strickland@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at 414-4130.

Sincerely,

Signature on file

Daniel Strickland, P.E.
State Specifications Engineer

DS/rf

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

**STRUCTURAL STEEL AND MISCELLANEOUS
METAL ITEMS (OTHER THAN ALUMINUM)
(REV 12-9-19)**

ARTICLE 962-8 is expanded by the following new Subarticle:

962-8 Miscellaneous Metal Items.

Unless otherwise specified in the Contract Documents, provide the following specific materials.

962-8.1 Pipe Railings: Provide steel pipe conforming to the requirements of ASTM A53 for Standard Weight Pipe.

962-8.2 Steel Sheet Piling: Provide steel sheet piles conforming to the requirements of ASTM A328, ASTM A572 or ASTM A690.

962-8.3 Steel Sign Supports and Accessories: Provide steel members for sign supports that meet the material requirements specified in the Contract Documents.

962-8.4 Structural Tubing:

962-8.4.1 Materials: Provide steel structural tubing as one of the following:
Cold-formed, welded or seamless conforming to the requirements of ASTM A500, Grade B or C, coated in accordance with the Contract Documents;

Hot-formed, welded or seamless tubing conforming to the requirements of ASTM A501, coated in accordance with the Contract Documents;

ASTM A847 when weathering characteristics are required; or

As indicated elsewhere in the Contract Documents.

962-8.4.2 Testing: Structural steel tubing subjected to tensile stresses used in main load carrying members or components (as defined in Section 460) shall meet the impact test requirements of ASTM A709 for non-fracture and fracture critical tension components for Zone 1. Minimum Average energy shall be 15 ft-lbf at 70°F (non-fracture critical); or 25 ft-lbf at 70°F (fracture critical).

962-8.5 Steel for Concrete Reinforcement: Requirements for concrete reinforcement are contained in Section 931.

962-8.6 Steel Guardrail: Requirements for steel guardrail are contained in Section 967.

962-8.7 Field Splice Filler Materials: Provide field splice filler materials in accordance with the Contract Documents. If unspecified and less than 3/16 inches thick provide ASTM A606 or ASTM A1011.

962-8.8 Steel Pipe Piling: Provide seamless, or longitudinal or helical welded pipe conforming to the requirements of API 5L Grade L320, X46 or higher, or ASTM A252 Grade 3. Provide longitudinal or helical welded pipe with only complete joint penetration (CJP) welds conforming to the requirements of API 5L or AWS D1.1.

962-8.9 Steel Grates: Provide Grade 50 steel per ASTM A242/A242 M, A572/A572 M or A588/A588 M for grates. Galvanize grates in accordance with 962-9 when "Alt. G" grates are specified in the Plans.

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