Florida Department of Transportation

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ANANTH PRASAD, P.E.
SECRETARY

April 10, 2012

Monica Gourdine
Program Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: Office of Design, Specifications
Section **931**
Proposed Specification: **9310100 Metal Accessory Materials for Concrete Pavement and Concrete Structures.**

Dear Ms. Gourdine:

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

These changes were proposed by Tim Ruelke to define LOT size and clarify acceptance for reinforcing steel.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via Email to RD967DB or duane.brautigam@dot.state.fl.us.

If you have any questions relating to this specification change, please call Duane Brautigam, Director, Office of Design at 414-4175.

Sincerely,

Duane Brautigam, P.E.
Director, Office of Design

DB/cah
Attachment
cc: Florida Transportation Builders' Assoc.
State Construction Engineer

METAL ACCESSORY MATERIALS FOR CONCRETE PAVEMENT AND CONCRETE STRUCTURES.

(REV *4*~~1~~-*9*~~23~~-12)

ARTICLE 931-1 (of the Supplemental Specification) is deleted and the following substituted:

931-1 Reinforcement Steel (for Pavement and Structures).

931-1.1 Steel Bars: Unless otherwise shown in the plans, billet steel bars for concrete reinforcement shall conform to the requirements of ASTM A-615 Grade 60 except that the process of manufacture will not be restricted. For processes not included in ASTM A-615 the phosphorus content will be limited to 0.08%.

The following special requirements shall apply:

(1) Unless otherwise specified or shown on the plans all reinforcement bars No. 3 and larger shall be deformed bars.

(2) All billet-steel bars shall be of the grade called for on the plans.

(3) Twisted bars shall not be used.

(4) Wherever in the Specifications the word "purchaser" appears it shall be taken to mean the Department.

Acceptance of reinforcing steel shall be based on ~~test~~ samples taken ~~randomly~~ by the Department and manufacturer's certified mill analysis *certifying that the* ~~of~~ test results meet~~ing~~ the specification limits of the ASTM or AASHTO designation for the particular size, grade and any additional requirements. ~~*Prior to use, submit to the Engineer t*~~*The manufacturer's certified mill analysis for each heat, size, and grade per shipment of reinforcing steel shall be provided to the Engineer prior to use.*

The Engineer will ~~Randomly taken~~*select* ~~test~~ samples ~~and certification of test values~~*certified mill analysis,* representing each ~~production~~ LOT of reinforcing steel~~, shall be provided to the Engineer for each Contract prior to use~~. *A sample is defined as the reinforcing steel and a copy of the certified mill analysis corresponding to the sample. A LOT is defined as the weight of all bars, regardless of size, grade or pay item in consecutive shipments of 80 tons or less.* ~~Randomly taken test s~~*S*amples shall be cut from bundled steel that is shipped to the jobsite.

931-1.2 Welded Wire Reinforc*ing*~~ement~~ *Steel*: ~~Welded wire reinforcement shall meet the requirements of AASHTO M-55.~~

~~Welded deformed wire reinforcement shall meet the requirements of AASHTO M-221.~~

~~Wherever the word "purchaser" is used it shall mean the Department.~~

931-1.2.1 Plain Welded Wire Reinforcing Steel: *Unless otherwise shown in the plans, plain welded wire reinforcing steel shall meet the requirements of AASHTO M-55 or ASTM A-1064.*

Acceptance of plain welded wire reinforcement shall be based on the manufacturer's certified mill analysis certifying that the test results meet the specification limits of the ASTM or AASHTO designation for the particular sizes and any additional requirements. Prior to use, submit to the Engineer the manufacturer's certified mill analysis for each heat and size per shipment.

931-1.2.2 Deformed Welded Wire Reinforcing Steel: *Unless otherwise shown in the plans, deformed welded wire reinforcement shall meet the requirements of AASHTO M-221 or ASTM A-1064.*

Acceptance of deformed welded wire reinforcement shall be based on the manufacturer's certified mill analysis certifying that the test results meet the specification limits of the ASTM or AASHTO designation for the particular sizes and any additional requirements. Prior to use, submit to the Engineer the manufacturer's certified mill analysis for each heat and size per shipment.

METAL ACCESSORY MATERIALS FOR CONCRETE PAVEMENT AND CONCRETE STRUCTURES.
(REV 4-9-12)

ARTICLE 931-1 (of the Supplemental Specification) is deleted and the following substituted:

931-1 Reinforcement Steel (for Pavement and Structures).

931-1.1 Steel Bars: Unless otherwise shown in the plans, billet steel bars for concrete reinforcement shall conform to the requirements of ASTM A-615 Grade 60 except that the process of manufacture will not be restricted. For processes not included in ASTM A-615 the phosphorus content will be limited to 0.08%.

The following special requirements shall apply:

(1) Unless otherwise specified or shown on the plans all reinforcement bars No. 3 and larger shall be deformed bars.

(2) All billet-steel bars shall be of the grade called for on the plans.

(3) Twisted bars shall not be used.

(4) Wherever in the Specifications the word "purchaser" appears it shall be taken to mean the Department.

Acceptance of reinforcing steel shall be based on samples taken by the Department and manufacturer's certified mill analysis certifying that the test results meet the specification limits of the ASTM or AASHTO designation for the particular size, grade and any additional requirements. The manufacturer's certified mill analysis for each heat, size, and grade per shipment of reinforcing steel shall be provided to the Engineer prior to use.

The Engineer will select samples representing each LOT of reinforcing steel. A sample is defined as the reinforcing steel and a copy of the certified mill analysis corresponding to the sample. A LOT is defined as the weight of all bars, regardless of size, grade or pay item in consecutive shipments of 80 tons or less. Samples shall be cut from bundled steel that is shipped to the jobsite.

931-1.2 Welded Wire Reinforcing Steel:

931-1.2.1 Plain Welded Wire Reinforcing Steel: Unless otherwise shown in the plans, plain welded wire reinforcing steel shall meet the requirements of AASHTO M-55 or ASTM A-1064.

Acceptance of plain welded wire reinforcement shall be based on the manufacturer's certified mill analysis certifying that the test results meet the specification limits of the ASTM or AASHTO designation for the particular sizes and any additional requirements. Prior to use, submit to the Engineer the manufacturer's certified mill analysis for each heat and size per shipment.

931-1.2.2 Deformed Welded Wire Reinforcing Steel: Unless otherwise shown in the plans, deformed welded wire reinforcement shall meet the requirements of AASHTO M-221 or ASTM A-1064.

Acceptance of deformed welded wire reinforcement shall be based on the manufacturer's certified mill analysis certifying that the test results meet the specification limits of the ASTM or AASHTO designation for the particular sizes and

any additional requirements. Prior to use, submit to the Engineer the manufacturer's certified mill analysis for each heat and size per shipment.