



Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

ANANTH PRASAD, P.E.
SECRETARY

November 26, 2013

Chad Thompson
Programs Operations Engineer
Federal Highway Administration
545 John Knox Road, Suite 200
Tallahassee, Florida 32303

Re: State Specifications and Estimates Office
Section **415**
Proposed Specification: **4150600 Reinforcing Steel.**

Dear Mr. Thompson:

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

These changes were proposed by Ghulam Mujtaba of the State Materials Office to update the language for current industry practice.

Please review and transmit your comments, if any, within two weeks. Comments should be sent via email to SP965DS or daniel.scheer@dot.state.fl.us.

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

Sincerely,

Daniel Scheer, P.E.
State Specifications Engineer

DS/cah

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

REINFORCING STEEL.**(REV 10-16-13)**

ARTICLE 415-6 is deleted and the following substituted:

415-6 Welded Deformed Steel Wire ~~Fabric~~ Reinforcement.

415-6.1 General: The Contractor may substitute welded deformed steel wire ~~fabric~~ reinforcement for deformed bar reinforcement when approved on shop drawings. Propose substitutions of welded deformed steel wire ~~reinforcement fabric~~ in a manner that provides a cross-sectional area per foot of welded deformed steel wire ~~fabric~~ equal to that provided in the Plans for deformed bar reinforcement. Orient the deformed wires of welded deformed steel wire ~~fabric~~ reinforcement in the same position as bar reinforcement detailed in the Plans. The Contractor may use smooth or deformed cross wires of welded deformed steel wire reinforcement. Use a cross wire size that is a minimum of 35% or more of the area of the deformed wire.

Provide welded steel wire ~~fabric~~ reinforcement as shown in the Plans.

415-6.2 Design: When welded deformed steel wire ~~fabric~~ reinforcement is substituted for deformed bar reinforcement, ensure that the development length, splices, shear reinforcement, and distribution meet the requirements of the AASHTO LRFD Bridge Design Specifications.

ARTICLE 415-7 is deleted and the following substituted:

415-7 Method of Measurement.

415-7.1 General: The quantity to be paid for will be the computed weight, in pounds, of reinforcing steel entering into the completed structure or item of work and accepted. The quantity will not include the reinforcing steel in any item of work for which the basis of payment includes the steel reinforcement. No separate payment will be made for reinforcing steel in pipe endwalls. No deduction will be made from reinforcing steel quantities for encroachment of inlets and pipes in box culverts. The lengths to be used in the calculation will be the detailed lengths of bars as shown in the Plans. The quantity to be paid for will be the original plan quantity, determined as provided above.

415-7.2 Unit Weights of Bars: The unit weights used will be CRSI Standard Reinforcing Steel Bar Weights.

415-7.3 Welded Wire ~~Fabric~~ Reinforcement: Where ~~welded wire fabric~~ reinforcement is to be paid for by weight, the quantity to be paid for will be the product of the area, in square feet, of the ~~welded wire reinforcement fabric~~ actually incorporated in the structure and accepted, by the manufacturer's standard weight per square foot.

When welded deformed steel wire ~~fabric~~ reinforcement is substituted for deformed bar reinforcement, the quantity to be paid for will be the quantity which would be paid for if bar reinforcement as detailed in the Plans were utilized, based on plan quantity.

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415-6 Welded Deformed Steel Wire Reinforcement.

415-6.1 General: The Contractor may substitute welded deformed steel wire reinforcement for deformed bar reinforcement when approved on shop drawings. Propose substitutions of welded deformed steel wire reinforcement in a manner that provides a cross-sectional area per foot of welded deformed steel wire equal to that provided in the Plans for deformed bar reinforcement. Orient the deformed wires of welded deformed steel wire reinforcement in the same position as bar reinforcement detailed in the Plans. The Contractor may use smooth or deformed cross wires of welded deformed steel wire reinforcement. Use a cross wire size that is a minimum of 35% or more of the area of the deformed wire.

Provide welded steel wire reinforcement as shown in the Plans.

415-6.2 Design: When welded deformed steel wire reinforcement is substituted for deformed bar reinforcement, ensure that the development length, splices, shear reinforcement, and distribution meet the requirements of the AASHTO LRFD Bridge Design Specifications.

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415-7 Method of Measurement.

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415-7.2 Unit Weights of Bars: The unit weights used will be CRSI Standard Reinforcing Steel Bar Weights.

415-7.3 Welded Wire Reinforcement: Where welded wire reinforcement is to be paid for by weight, the quantity to be paid for will be the product of the area, in square feet, of the welded wire reinforcement actually incorporated in the structure and accepted, by the manufacturer's standard weight per square foot.

When welded deformed steel wire reinforcement is substituted for deformed bar reinforcement, the quantity to be paid for will be the quantity which would be paid for if bar reinforcement as detailed in the Plans were utilized, based on plan quantity.