

SECTION 00583 - ELECTRICAL CONDUIT ON STRUCTURES

(Follow all instructions and make all edits with "Track Changes" turned on. If there are no instructions [purple text] above a subsection, paragraph, sentence, or bullet, then include it in the project. Delete all purple text before preparing the final document. All other modifications to this Section will require ODOT Technical Resource and State Specifications Engineer approval.)

Comply with Section 00583 of the Standard Specifications modified as follows:-

00583.03 Submittals - Replace the paragraph that begins "Submit detailed descriptions ..." with the following paragraph:

Submit detailed descriptions of all Materials to the Agency according to 00150.37 at least 21 Calendar Days before the scheduled start of the Work. Identify all relevant constituents and properties of each Material and the Specifications that it complies with. Data published by the manufacturer is acceptable.

00583.10(a) Extruded PVC - Replace this subsection, except for the subsection number and title, with the following:

Extruded PVC electrical conduit and factory bent elbows according to UL 651. Furnish gray conduit and elbows. Furnish solvent cement according to ASTM D2564 or as recommended by the conduit manufacturer.

00583.10(b) Hot-dip GRC - Replace this subsection, except for the subsection number and title, with the following:

Hot-dip GRC and elbows according to UL 6 and ANSI C80.1 with each end threaded per ANSI B1.20.1. Factory threads are to be hot-dip galvanized after cutting. Conform coating thickness to ASTM A153.

00583.10(c) 316 SS RMC - Replace this subsection, except for the subsection number and title, with the following:

316 SS RMC and elbows according to UL 6A and ANSI C80.1 with each end threaded per ANSI B1.20.1.

00583.10(d) RTRC - Replace this subsection, except for the subsection number and title, with the following:

RTRC and elbows according to UL 2515 for above ground applications. Furnish conduit with UV stabilized gray pigmented resin. Furnish a joint adhesive recommended by the manufacturer.

00583.10(e) LFNC - Replace this subsection, except for the subsection number and title, with the following:

LFNC according to UL1660.

00583.11 Fittings and Conduit Bodies - Replace the paragraph that begins "Furnish fittings and conduit ..." with the following paragraph:

Furnish fittings and conduit bodies according to UL 514B. Furnish conduit bodies with a weather tight gasket and expansion fittings with a weather tight seal. Set screw type fittings and conduit bodies are not allowed. Furnish fittings and conduit bodies meeting one of the following requirements:

00583.12(a) PVC or Thermoplastic - Replace this subsection, except for the subsection number and title, with the following:

PVC or thermoplastic according to NEMA 250 Type 4X. Furnish gray junction boxes.

00583.12(b) Galvanized Steel - Replace this subsection, except for the subsection number and title, with the following:

Galvanized steel according to NEMA 250 Type 4. Coating thickness according to ASTM A153.

00583.12(c) 316 SS - Replace this subsection, except for the subsection number and title, with the following:

316 SS according to NEMA 250 Type 4X

00583.12(d) GFRP - Replace this subsection, except for the subsection number and title, with the following:

GFRP according to NEMA 250 Type 4X.

00583.13(b) 316 SS - Replace the paragraph that begins "316 SS wedge type anchors ..." with the following paragraph:

316 SS wedge type anchors, bolts, threaded rod and nuts according to ASTM A193/194, Grade B8M, B8MA, B8M2, or B8M3, Class 1, 1A, 1D, or 2 or ASTM F593/594 Group 2 Condition CW. Furnish 316 SS channel strut, hangers, clamps, support straps, and coil inserts, and washers.

00583.16 Pull Line - Replace the bullet that begins "Furnish nylon, ..." with the following bullet:

- Furnish nylon, polypropylene, or polyester pull line or rope with a minimum tensile strength of 1,000 pounds.

00583.40 General - Replace the bullet that begins "Any other local rules ..." with the following bullet:

- Any other local rules, regulations and ordinances that may apply

Replace the paragraph that begins "Metallic raceways, fittings ..." with the following paragraph:

Furnish metallic raceways, fittings, boxes, and cabinets free from contact with reinforcing steel.

00583.44 Joints and Terminations - Replace the paragraph that begins "Join RTRC conduit using ..." with the following paragraph:

Join RTRC conduit using adhesive and fittings according to all manufacturer's recommendations.

00583.90 Payment - Replace the paragraph that begins "In items (a), (b), (c) ..." with the following paragraph:

In items (a), (b), (c), and (d) the nominal size of the pipe is inserted in the blank.

Replace the paragraph that begins "Payment will be payment ..." with the following paragraph:

Payment will be payment in full for furnishing and placing all Materials, and for providing all Equipment, labor, and Incidentals necessary to complete the Work as specified.