



Florida Department of Transportation

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GOVERNOR

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Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

November 8, 2023

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

Re: State Specifications Office
Section: 960
Proposed Specification: **9600203 Post-Tensioning Components**

Dear Mr. Nguyen:

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

The changes are proposed by Ben Goldsberry to allow the standards to conform to the requirements for connections between smooth HDPE duct and the trumpet and anchorage components.

Please review and transmit your comments, if any, within two weeks (10 business days). Comments should be sent via email daniel.strickland@dot.state.fl.us.

If you have any questions relating to this specification change, please call me at (850) 414-4130.

Sincerely,

Signature on File

Daniel Strickland, P.E.
State Specifications Engineer

DS/dh

Attachment

cc: Florida Transportation Builders' Assoc.
State Construction Engineer

POST-TENSIONING COMPONENTS.**(REV 7-10-23)**

SUBARTICLE 960-2.2.1.5 is deleted and the following substituted:

960-2.2.1.5 Connections, Fittings, and Tolerance:

1. Devices or methods for all duct connections (e.g., splices, joints, couplers, connection to anchorages), shall produce smooth interior alignment with no lips or kinks.
2. Use of tape, caulking, epoxy, or other sealants is not permitted to join or repair duct, to make connections, or for any other purpose.
3. Use a reducer when adjacent sections of duct are directly connected to each other and the outside diameters vary more than plus or minus 0.08 inch.
4. Provide all connections that are external to the concrete with a minimum pressure rating of 150 psi.
5. Use heat shrink sleeves and circular sleeve couplers made from high-density polyethylene or polypropylene material, or duct couplers made from high-density polyethylene or polypropylene material with O-rings or seals to make connections between sections of corrugated plastic duct or between corrugated plastic duct and trumpets.
6. Use heat shrink sleeves and circular sleeve couplers made from high-density polyethylene or polypropylene material to make connections between corrugated plastic duct and steel pipe.
7. Use heat shrink sleeves with or without circular sleeve couplers made from high-density polyethylene or polypropylene material to make connections between corrugated or smooth plastic duct and anchorages with integral trumpets that are internal to the concrete.
8. Use heat welding techniques, electrofusion duct couplers, or elastomer sleeves and stainless steel band clamps to make connections between sections of smooth plastic duct.
9. Use elastomer sleeves and stainless steel band clamps to make connections between smooth plastic duct and steel pipe.
10. Use welding or elastomer sleeves and stainless steel band clamps to make connections between sections of steel pipe that are external to the concrete.
11. Use welding, elastomer sleeves and stainless steel band clamps or heat shrink sleeves and circular sleeve couplers made from high-density polyethylene or polypropylene material to make connections between steel pipe and trumpets that are internal to the concrete.
12. Use elastomer sleeves with a minimum wall thickness of 3/8--inches and reinforced with a minimum of four ply polyester reinforcement. Use a 3/8--inch--wide stainless--steel power seated band and clamps on each end of the elastomer sleeves to secure the sleeves to plastic ducts or steel pipes. Seat the bands with a 120--pound force prior to clamping them in place.

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3. Use a reducer when adjacent sections of duct are directly connected to each other and the outside diameters vary more than plus or minus 0.08 inch.
4. Provide all connections that are external to the concrete with a minimum pressure rating of 150 psi.
5. Use heat shrink sleeves and circular sleeve couplers made from high-density polyethylene or polypropylene material, or duct couplers made from high-density polyethylene or polypropylene material with O-rings or seals to make connections between sections of corrugated plastic duct or between corrugated plastic duct and trumpets.
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9. Use elastomer sleeves and stainless steel band clamps to make connections between smooth plastic duct and steel pipe.
10. Use welding or elastomer sleeves and stainless steel band clamps to make connections between sections of steel pipe that are external to the concrete.
11. Use welding, elastomer sleeves and stainless steel band clamps or heat shrink sleeves and circular sleeve couplers made from high-density polyethylene or polypropylene material to make connections between steel pipe and trumpets that are internal to the concrete.
12. Use elastomer sleeves with a minimum wall thickness of 3/8-inch and reinforced with a minimum of four ply polyester reinforcement. Use a 3/8-inch wide stainless-steel power seated band and clamps on each end of the elastomer sleeves to secure the sleeves to plastic ducts or steel pipes. Seat the bands with a 120-pound force prior to clamping them in place.