
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: January 28, 2020

Originator: Cheryl Hudson

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Standard Plans:

Index Number: 641-010

Sheet Number (s): 1

Index Title: Concrete Poles

Summary of the changes:

Add minimum strength of concrete at transfer.

Commentary / Background:

Currently the specifications allow 4 ksi concrete strength at transfer unless noted otherwise. This design require 6 ksi concrete strength at transfer.

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standard Specifications –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Construction –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Support Documents

Implementation:

- Design Bulletin (Interim)
- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

GENERAL NOTES:

1. Work these Index drawings with the Strain Pole Schedule in the Plans.
2. Shop Drawings: This Index is considered fully detailed and no shop drawings are necessary. Submit shop drawings for minor modifications not detailed in the plans.
3. Materials:
 - A. Concrete: Class V Special or Class VI **with 4 ksi minimum strength at transfer**
 - B. Prestress Strands & Spiral Reinforcing: Specification 641 **with 6.5 ksi minimum strength at transfer**
 - C. Hand and coupler cover plates: Non-corrosive material
 - D. Screws: Round headed, chrome plated
4. Fabrication:
 - A. Pole Taper for pole width, strands, reinforcing and void: 0.081 in/ft per face.
 - B. Concrete Cover: 1" minimum
 - C. Spiral Reinforcing: As shown, plus one turn for splices and two turns at both the tip and butt ends of the pole.
 - D. The design dimensions for Front Face (FF) and Back Face (BF) of the poles may vary transversely from the section shown by $\pm \frac{1}{4}$ " to assist with removal from forms. Balance addition and subtraction of the face widths to maintain section areas shown.
 - E. Tie ground wires to the interior of reinforcing steel to prevent displacement during concreting operations.
 - F. Cut the tip end of the prestressed strand first or simultaneously with the butt end.
 - G. Provide cover plates and screws for hand hole and couplers. Attach cover plates to the poles using lead anchors or embedded threaded inserts.
 - H. Provide Aluminum Identification Tags on the poles with the following information:
 - a. Financial Project ID.
 - b. Pole Manufacturer
 - c. Standard Pole Type Number
 - d. Pole Length (L)
5. Support locations are for strand release, storage, lifting and transport. Keep BF oriented downward until final erection.
6. Pick-up and support locations shown may vary within a tolerance of ± 3 ".
7. Two point attachment: provide an eye bolt hole for the messenger wire.
8. Tether Wire: When required, field-drill the eyebolt hole prior to installation

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LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2020-21 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 1 of 8
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 - C. Hand and coupler cover plates: Non-corrosive material
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LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 1 of 8
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