# Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	455-101
Date:	8/21/2024	Sheet Number(s):	1
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	SQUARE CFRP & SS PRESTRESSED CONCRETE PILES - TYPICAL DETAILS & NOTES

#### Summary of the changes:

Sheet 1: Added a note to General Note 4 indicating that all the strand diameters are nominal

#### Commentary/Background:

This adds clarification to distinguish between nominal and actual diameters driven by the fact that the strands are fabricated in millimeters not inches.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans	Joshua Turley	Yes
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation	
["FY-Standard Plans (Next Release)"]	

## PRESTRESSED CONCRETE PILE NOTES:

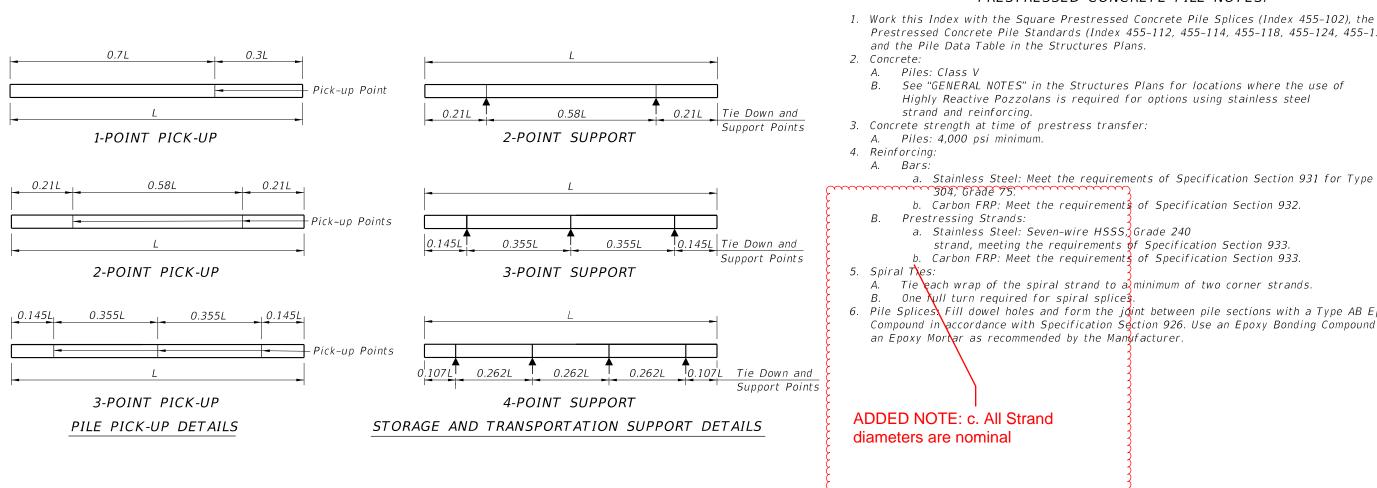
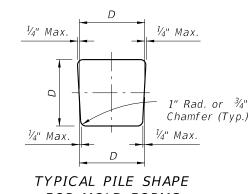
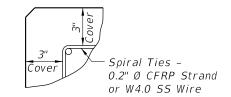


TABLE OF MAXIMUM PILE PICK-UP AND SUPPORT LENGTHS							
D = Square Pile Size (inches)						Required Storage and	Dick Up Datail
	12	14	18	24	30	Transportation Detail	Pick-Up Detail
Maximum	48	52	59	68	87	2, 3, or 4 point	1 Point
Pile Length	69	75	85	98	124	2, 3, or 4 point	2 Point
(Feet)	99	107	121	140	178	3 or 4 point	3 Point



FOR MOLD FORMS



DETAIL SHOWING TYPICAL COVER

11/01/24

DESCRIPTION: REVISION



FY 2024-25 STANDARD PLANS

SQUARE CFRP & SS PRESTRESSED ( - TYPICAL DETAILS & N

LAST

11/01/22

Prestressed Concrete Pile Standards (Index 455-112, 455-114, 455-118, 455-124, 455-130,

a. Stainless Steel: Meet the requirements of Specification Section 931 for Type 6. Pile Splices Fill dowel holes and form the joint between pile sections with a Type AB Epoxy Compound in accordance with Specification Section 926. Use an Epoxy Bonding Compound or

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### PRESTRESSED CONCRETE PILE NOTES:

- 1. Work this Index with the Square Prestressed Concrete Pile Splices (Index 455-102), the and the Pile Data Table in the Structures Plans. 2. Concrete:
  - Piles: Class V Α.
  - See "GENERAL NOTES" in the Structures Plans for locations where the use of В. Highly Reactive Pozzolans is required for options using stainless steel strand and reinforcing.
  - 3. Concrete strength at time of prestress transfer: Piles: 4,000 psi minimum. Α.
  - 4. Reinforcing: Α. Bars:
    - 304, Grade 75.
    - b. Carbon FRP: Meet the requirements of Specification Section 932. Prestressing Strands: В.
      - a. Stainless Steel: Seven-wire HSSS, Grade 240
    - - c. All Strand diameters are nominal.
  - 5. Spiral Ties:
    - Α.
  - One full turn required for spiral splices. Β.
  - 6. an Epoxy Mortar as recommended by the Manufacturer.

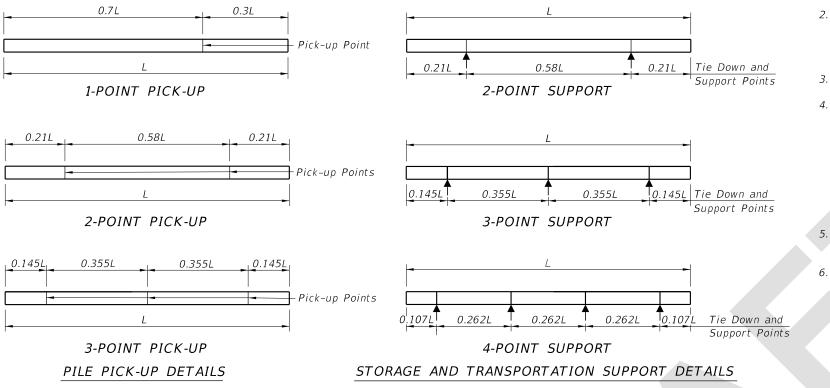
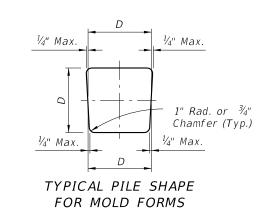
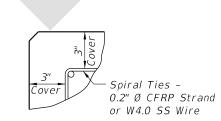


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DETAIL SHOWING TYPICAL COVER



FY 2025-26 STANDARD PLANS

SQUARE CFRP & SS PRESTRESSED C - TYPICAL DETAILS & NO

Prestressed Concrete Pile Standards (Index 455-112, 455-114, 455-118, 455-124, 455-130,

a. Stainless Steel: Meet the requirements of Specification Section 931 for Type

strand, meeting the requirements of Specification Section 933. b. Carbon FRP: Meet the requirements of Specification Section 933.

Tie each wrap of the spiral strand to a minimum of two corner strands. Pile Splices: Fill dowel holes and form the joint between pile sections with a Type AB Epoxy Compound in accordance with Specification Section 926. Use an Epoxy Bonding Compound or

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