
ORIGINATION FORM

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

Contact Information:

Date: March 12, 2020

Originator: Cheryl Hudson

Phone: 414-5332

Email: cheryl.hudson@dot.state.fl.us

Standard Plans:

Index Number: 455-124

Sheet Number (s): 1, 2

Index Title: 24" CFRP & SS Prestressed Concrete Piles

Summary of the changes:

Sheet 1: Changed 0.5" CFRP strand layout; Sheet 2: Added 0.6" HSSS strand

Commentary / Background:

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

Yes	No	
☐	☒	Other Standard Plans –
☐	☒	FDOT Design Manual –
☐	☒	Basis of Estimates Manual –
☐	☒	Standard Specifications –
☐	☒	Approved Product List –
☐	☒	Construction –
☐	☒	Maintenance –

Origination Package Includes:

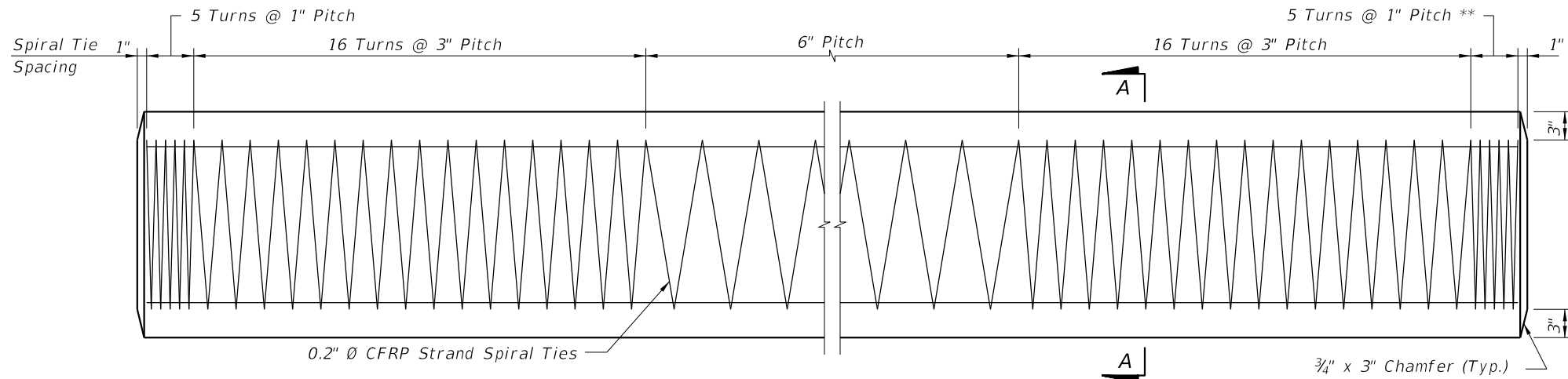
(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
☒	☐	Redline Mark-ups
☐	☒	Proposed Standard Plan Instruction (SPI)
☐	☒	Revised SPI
☐	☒	Other Support Documents

Implementation:

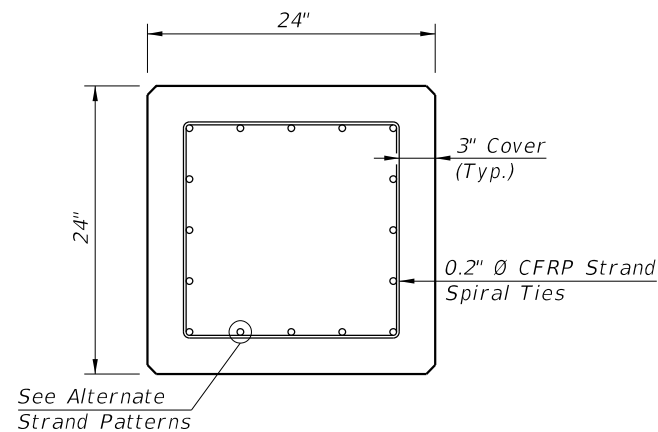
☐	Design Bulletin (Interim)
☐	DCE Memo
☐	Program Mgmt. Bulletin
☒	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form



SPIRAL TIE ELEVATION

** See Note 4 on Index 455-102



SECTION A-A

ALTERNATE STRAND PATTERNS

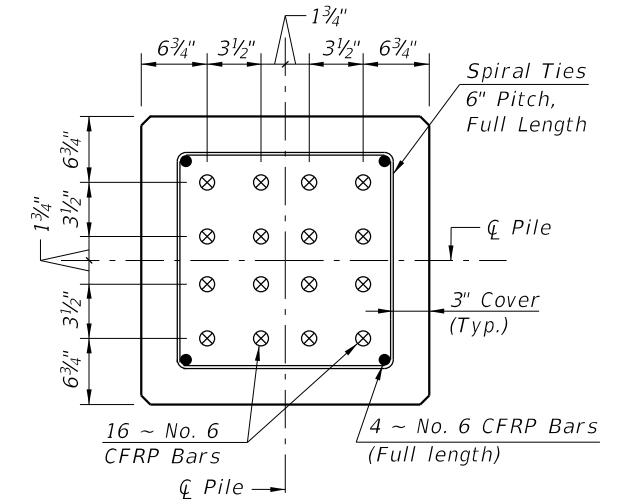
16 ~ 0.6" Ø, CFRP 7-Strand, at 42 kips
~~16 ~ 1/2" Ø, CFRP Single-Strand, at 41 kips~~

20

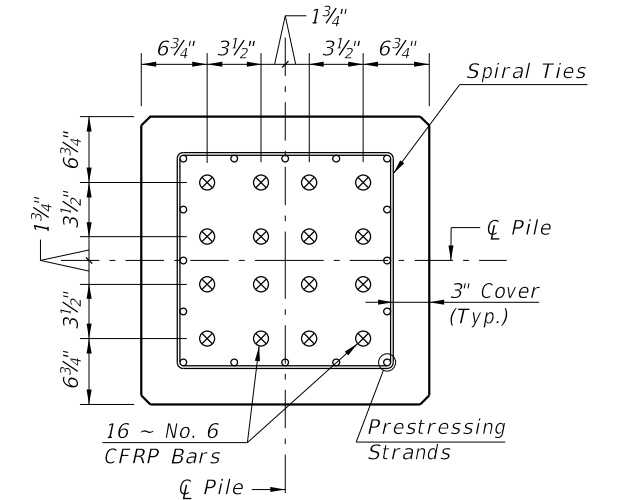
35

NOTES:

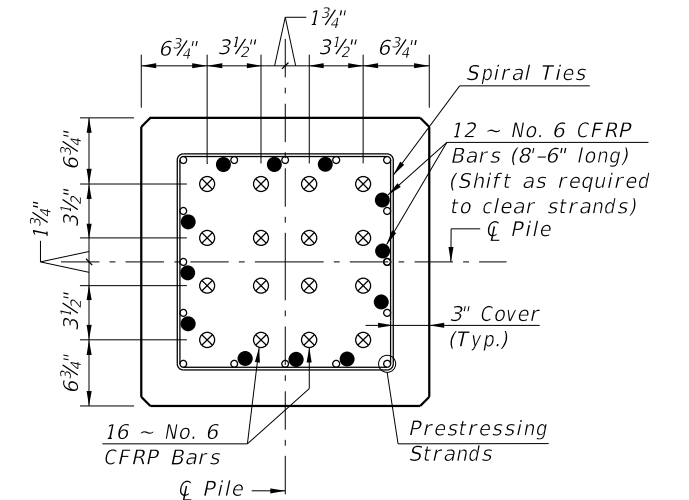
1. Work this Index with Index 455-101 - Typical Details and Notes for Square CFRP & SS Prestressed Concrete Piles and Index 455-102 - Square CFRP & SS Prestressed Concrete Pile Splices.
2. Any of the given Strand Patterns may be utilized.
 The strands shall be located as follows:
 Place one strand at each corner and place the remaining strands equally spaced between the corner strands.
 The total strand pattern shall be concentric with the nominal concrete section of the pile.



SECTION D-D
 (See Non-Drivable Unforeseen Reinforced Precast Pile Build-Up Detail)



SECTION E-E
 (See Drivable Prestressed Precast Pile Splice Detail)



SECTION F-F
 (See Drivable Preplanned Prestressed Precast Pile Splice Detail)
CFRP PILE SPLICE REINFORCEMENT DETAILS

CFRP PRESTRESSED PILE DETAILS

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**FY 2020-21
 STANDARD PLANS**

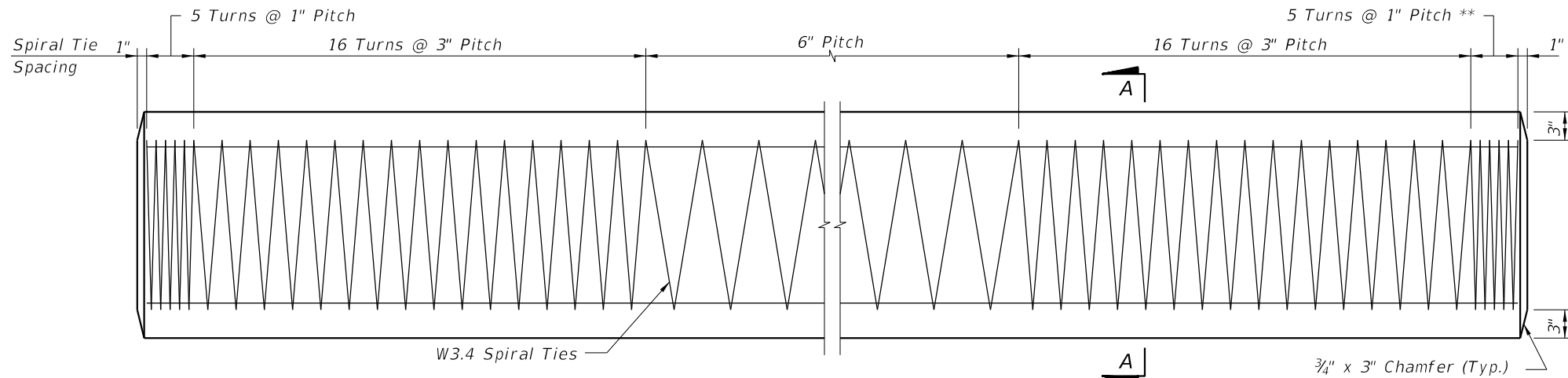
**24" SQUARE CFRP & SS PRESTRESSED
 CONCRETE PILE**

**INDEX
 455-124**

**SHEET
 1 of 2**

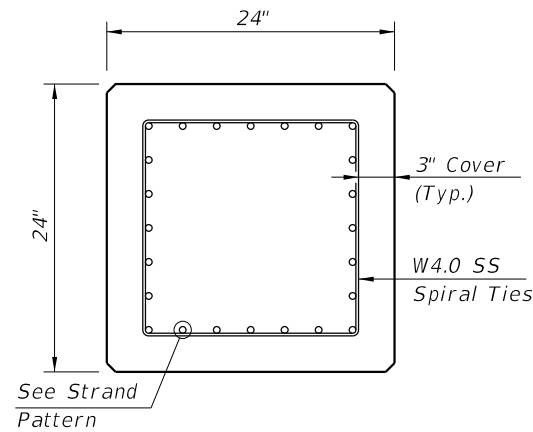
**LAST REVISION
 11/01/16**

DESCRIPTION:



ELEVATION

** See Note 4 on Index 455-102



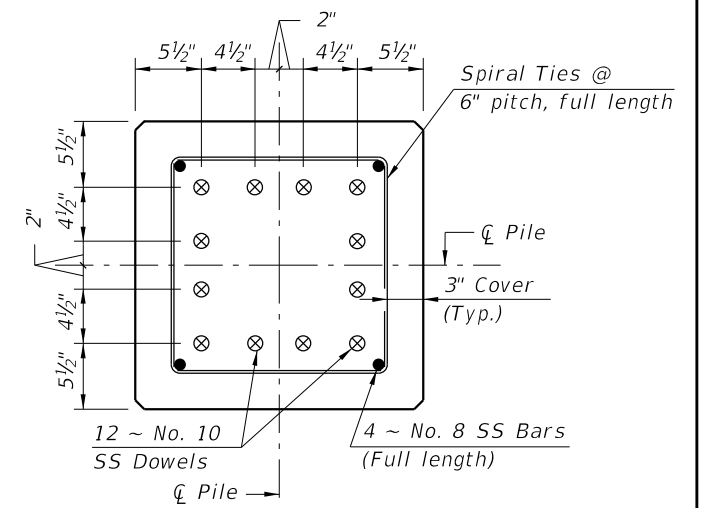
SECTION A-A

STRAND PATTERN

28 ~ 1/2" Ø, HSSS at 26 kips
20~ .06" Ø, HSSS at 35 kips

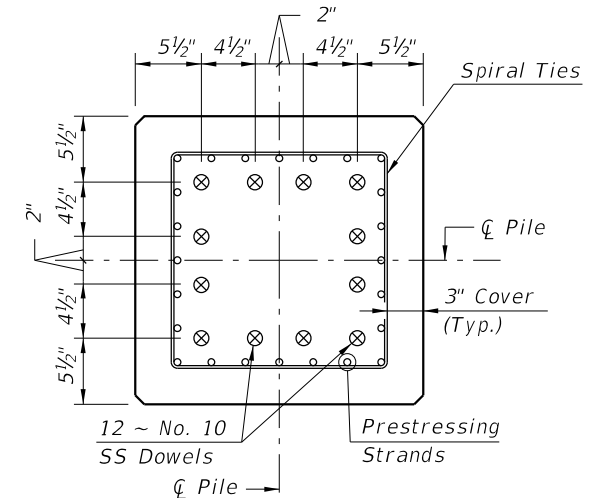
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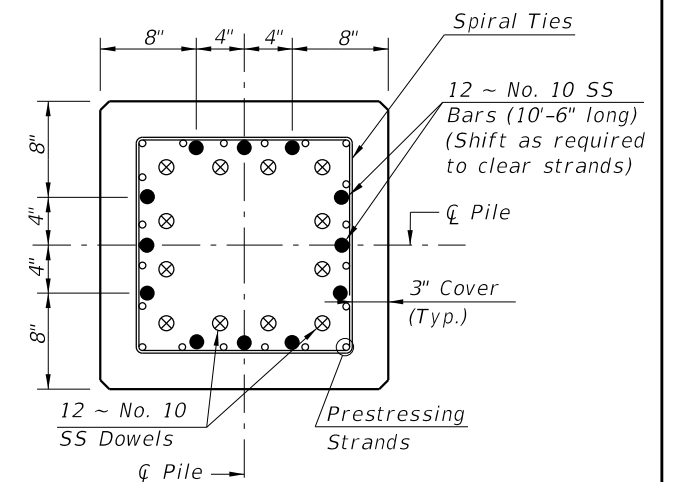
SECTION D-D

(See Non-Drivable Unforeseen Reinforced Precast Pile Build-Up Detail)



SECTION E-E

(See Drivable Prestressed Precast Pile Splice Detail)



SECTION F-F

(See Drivable Preplanned Pile Splice Detail)

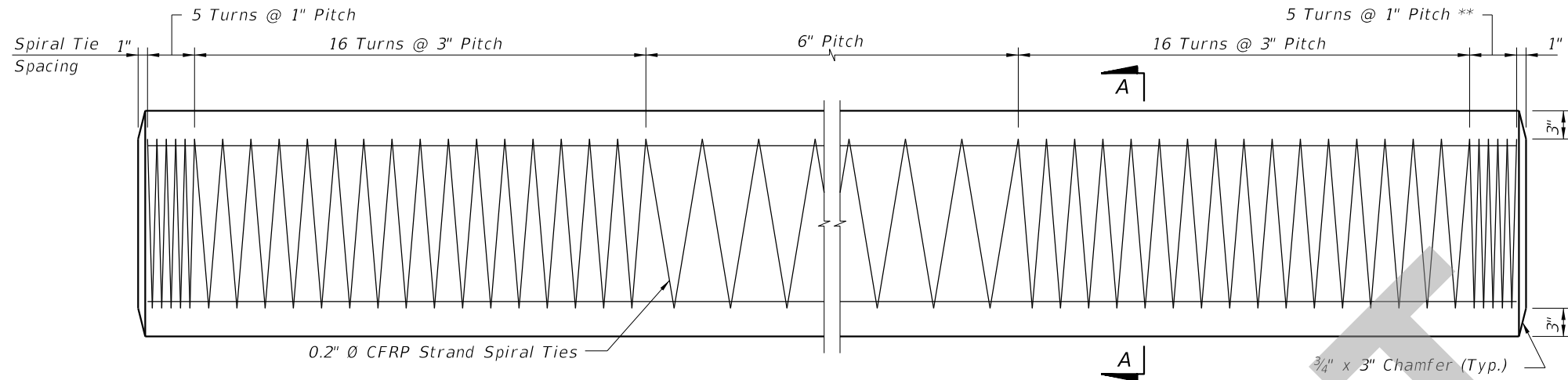
SS PILE SPLICE REINFORCEMENT DETAILS

SS PRESTRESSED PILE DETAILS

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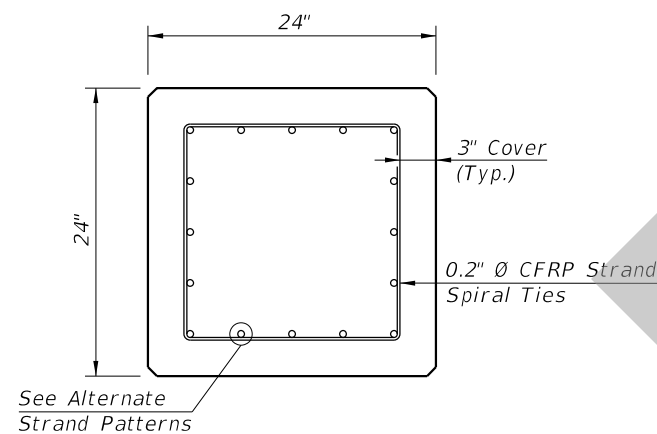
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LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	24" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE	INDEX	SHEET
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SPIRAL TIE ELEVATION

** See Note 4 on Index 455-102



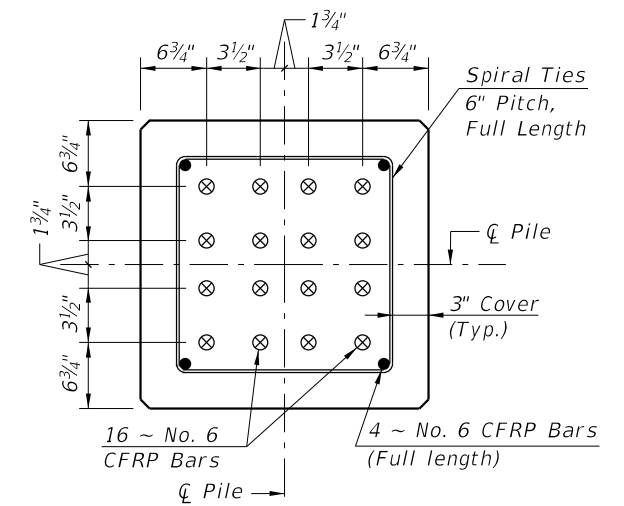
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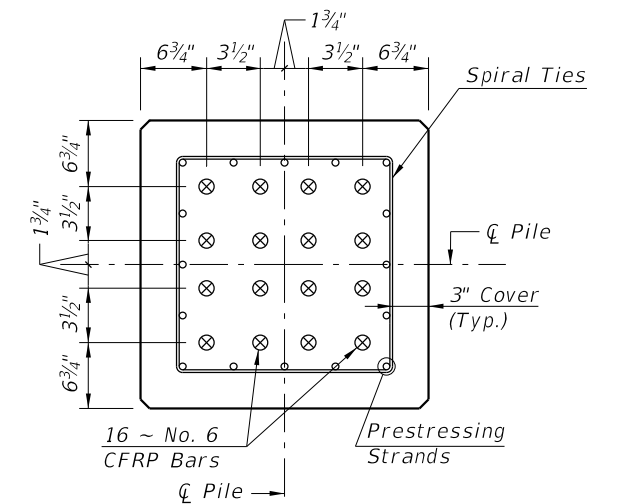
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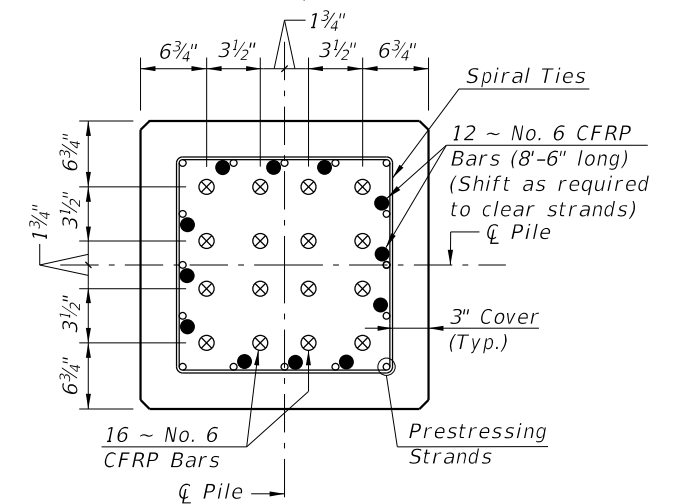
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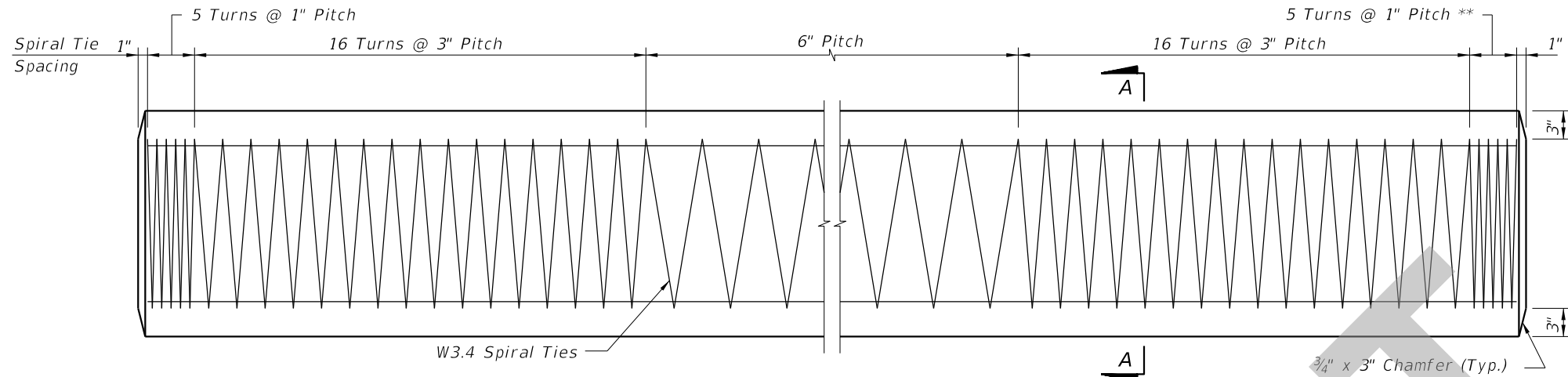


SECTION F-F
(See Drivable Preplanned Prestressed Precast Pile Splice Detail)

CFRP PILE SPLICE REINFORCEMENT DETAILS

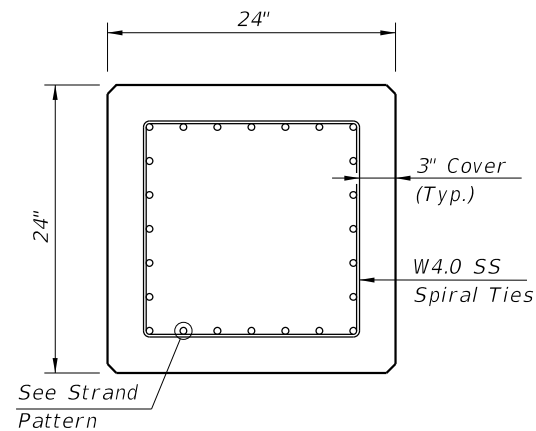
CFRP PRESTRESSED PILE DETAILS

LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	24" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE	INDEX	SHEET
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ELEVATION

** See Note 4 on Index 455-102



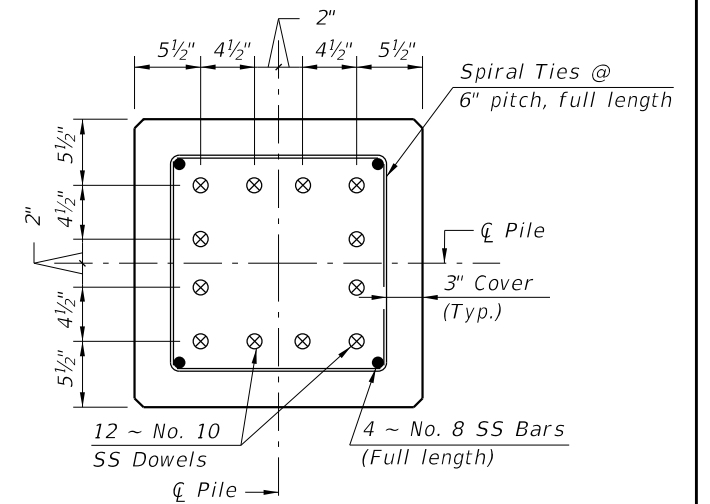
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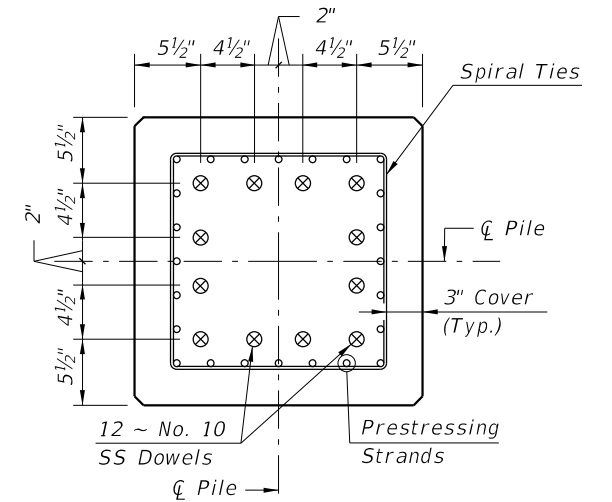
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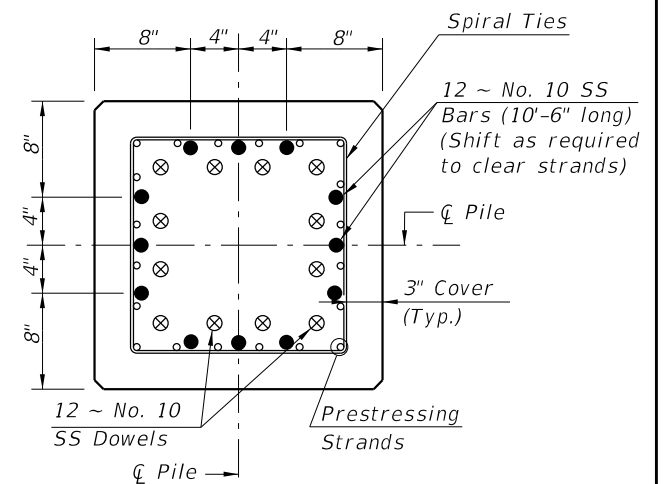
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SECTION E-E

(See Drivable Prestressed Precast Pile Splice Detail)



SECTION F-F

(See Drivable Preplanned Pile Splice Detail)

SS PILE SPLICE REINFORCEMENT DETAILS

SS PRESTRESSED PILE DETAILS

LAST REVISION	DESCRIPTION:	FDOT	FY 2020-21 STANDARD PLANS	24" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE	INDEX	SHEET
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