

Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	455-114
Date:	8/21/2024	Sheet Number(s):	2
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	14" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE

Summary of the changes:

Sheet 2: Adjusted Strand Pattern diameter decimal places

Commentary/Background:

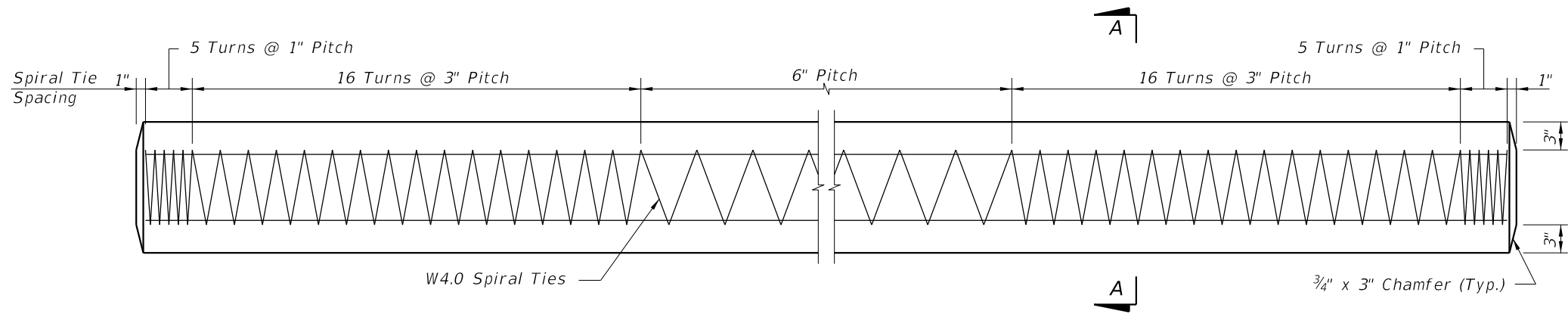
This is a more accurate representation of the nominal diameter driven by the fact that the strands are fabricated in millimeters not inches.

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

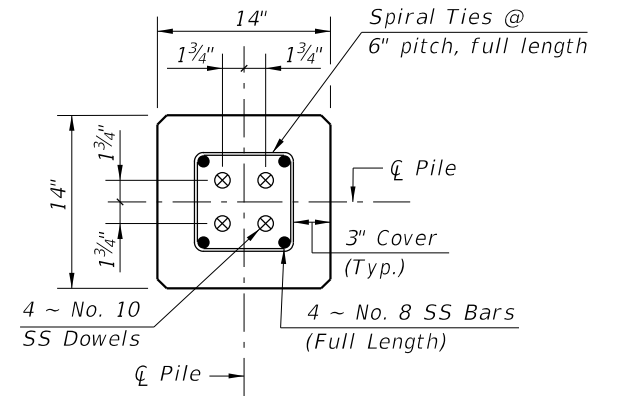
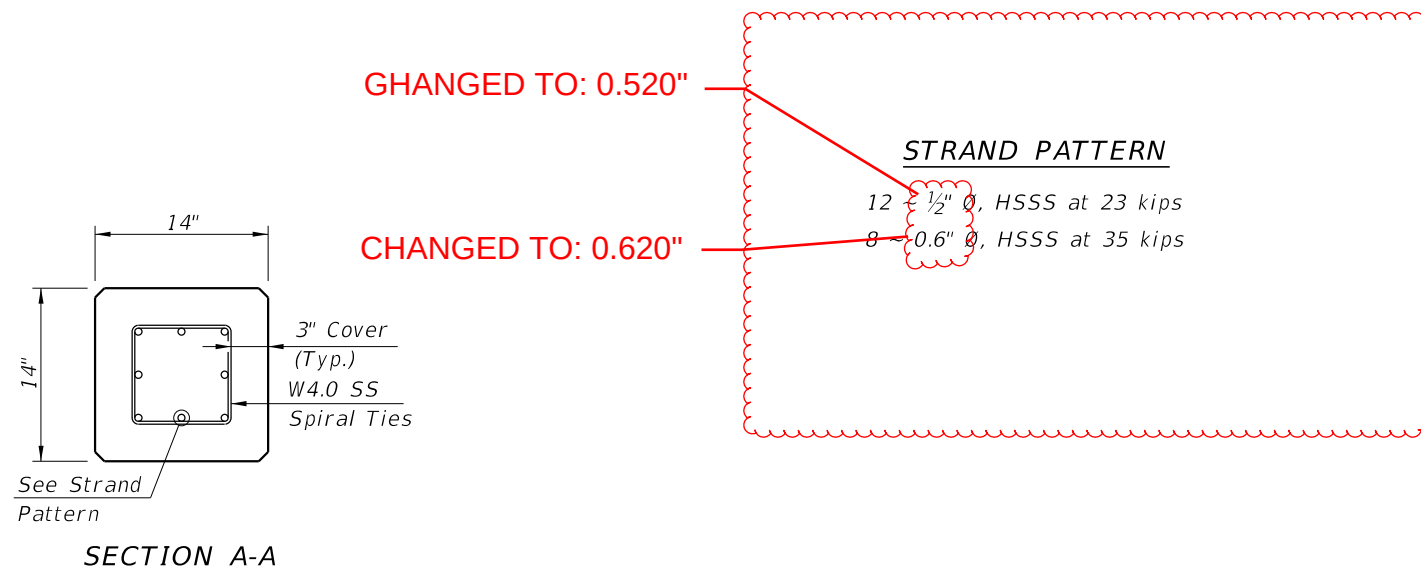
Implementation

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

10/15/2023 11:54:51 AM

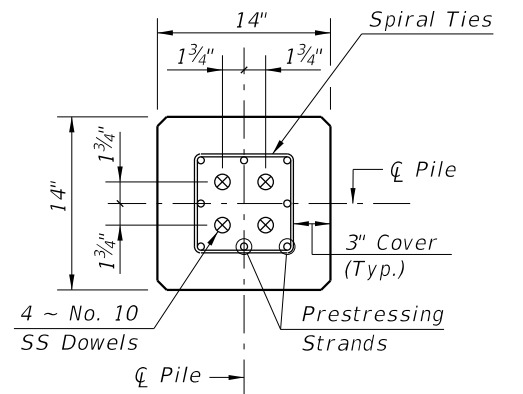


ELEVATION



SECTION D-D

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



SECTION E-E

(See Drivable Unforescen Prestressed Precast Splice Detail)

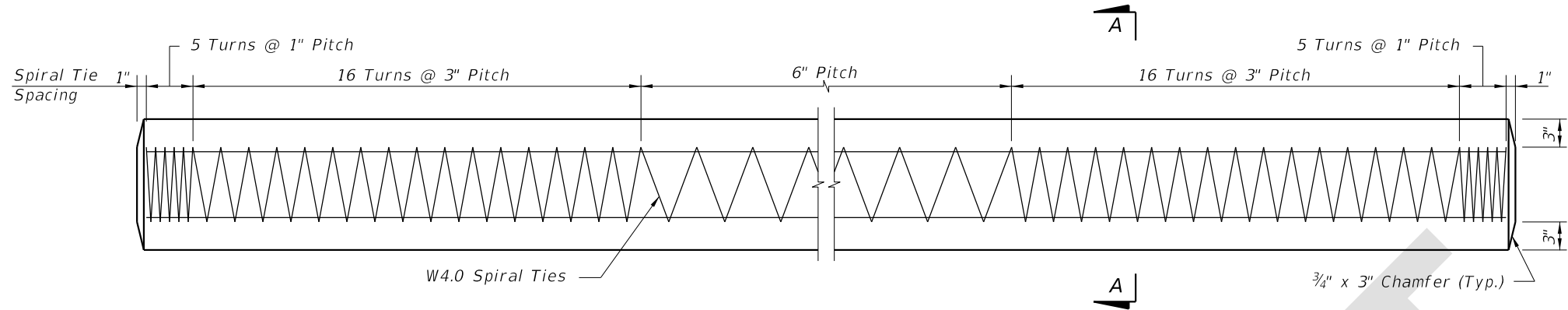
SS PILE SPLICE REINFORCEMENT DETAILS

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 Alternate 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.

SS PRESTRESSED PILE DETAILS

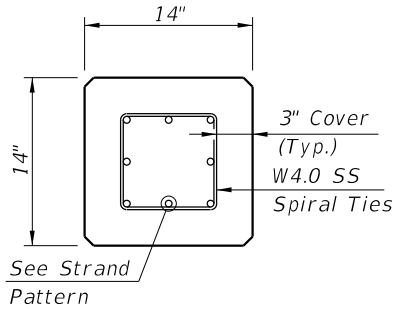
LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	14" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE	INDEX	SHEET
11/01/20	11/01/24				455-114	2 of 2



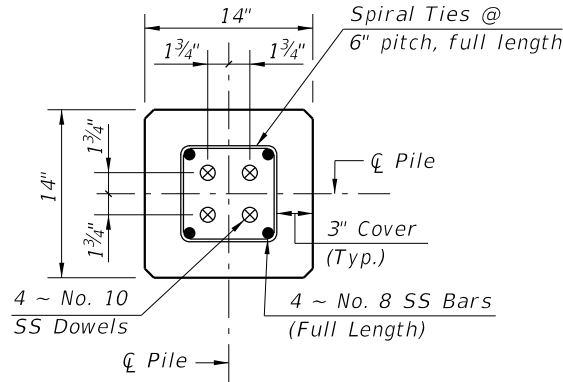
ELEVATION

STRAND PATTERN

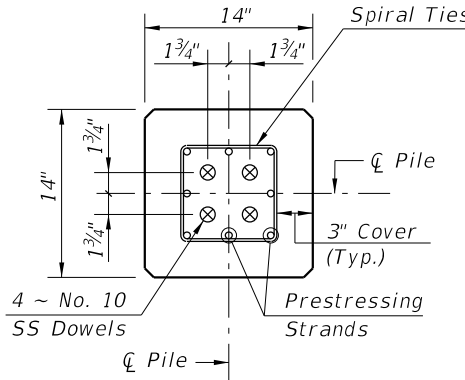
12 ~ 0.52" Ø, HSSS at 23 kips
8 ~ 0.62" Ø, HSSS at 35 kips



SECTION A-A



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



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

SS PILE SPLICE REINFORCEMENT DETAILS

- NOTES:
- 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.
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SS PRESTRESSED PILE DETAILS

LAST REVISION	DESCRIPTION:	FDOT	FY 2025-26 STANDARD PLANS	14" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE	INDEX	SHEET
11/01/24					455-114	2 of 2