

# Origination Form

## Proposed Revisions to a Standard Plans Index

|                    |                               |                         |                                                   |
|--------------------|-------------------------------|-------------------------|---------------------------------------------------|
| <b>Originator:</b> | Turley, Joshua                | <b>Index Number:</b>    | 455-112                                           |
| <b>Date:</b>       | 8/21/2024                     | <b>Sheet Number(s):</b> | 2                                                 |
| <b>E-mail:</b>     | Joshua.Turley@dot.state.fl.us | <b>Index Title:</b>     | 12" SQUARE CFRP & SS<br>PRESTRESSED CONCRETE PILE |

### Summary of the changes:

Sheet 2: Adjusted Strand Pattern diameter decimal places

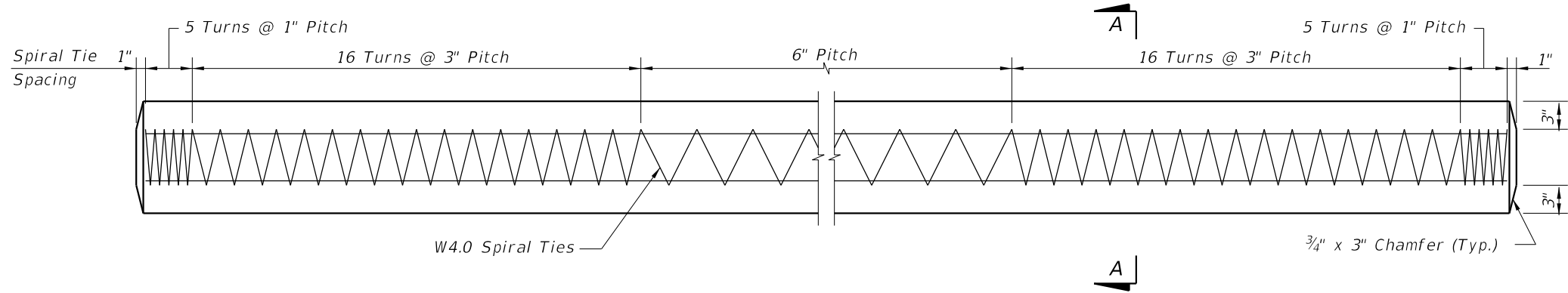
### Commentary/Background:

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

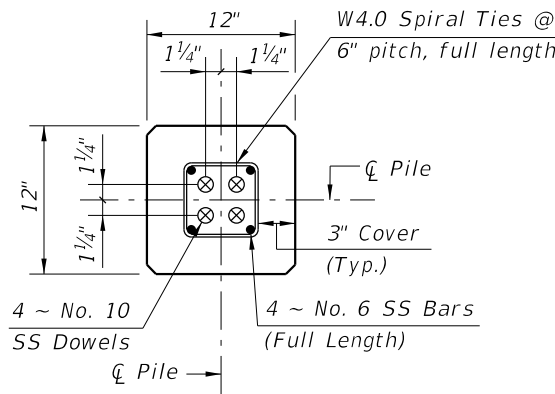
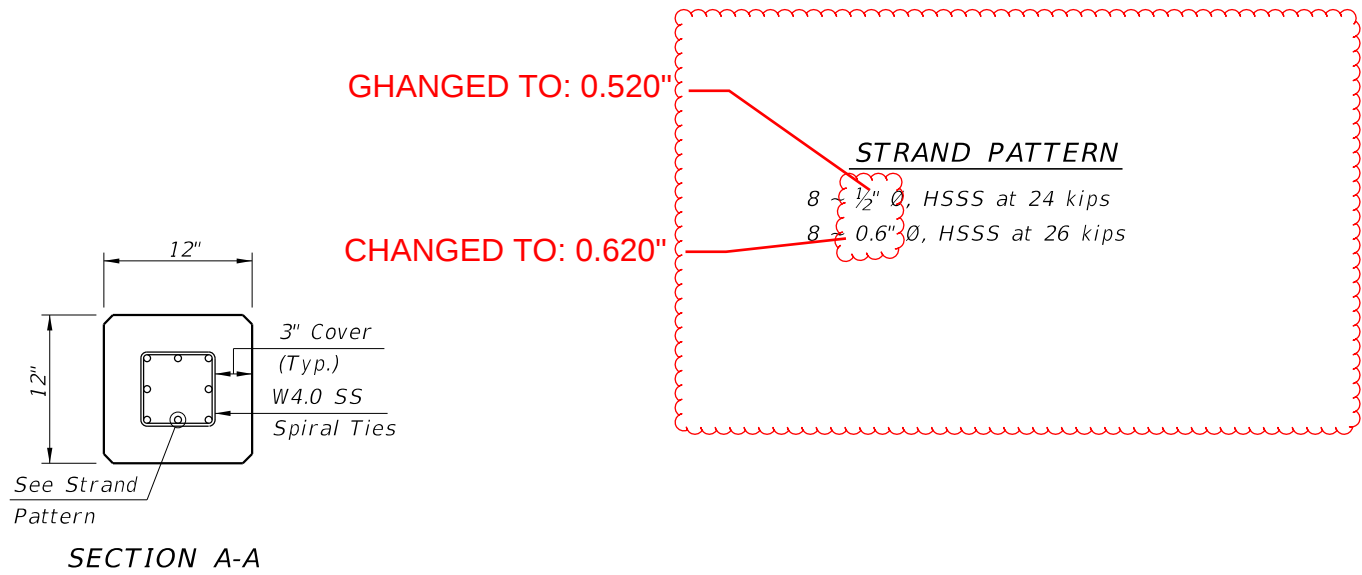
| Other Affected Documents/Offices | Person Contacted | Affected (Yes/No) |
|----------------------------------|------------------|-------------------|
| Other Standard Plans             |                  | No                |
| FDOT Design Manual               |                  | No              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

### Implementation

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

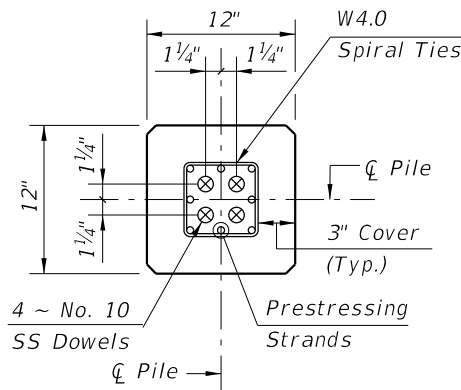


ELEVATION



**SECTION D-D**

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



**SECTION E-E**

(See Drivable Unforeseen Prestressed Precast Pile Splice Detail)

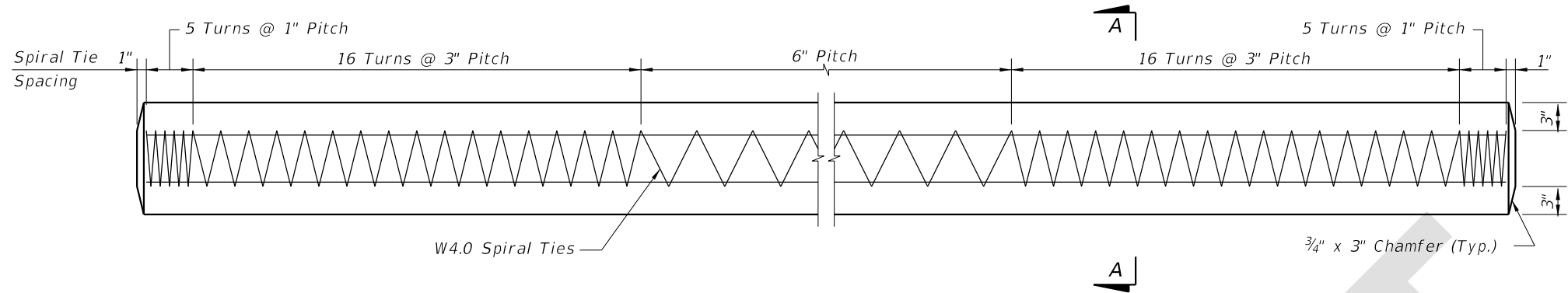
**SS PILE SPLICE REINFORCEMENT DETAILS**

- 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.
  - 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.

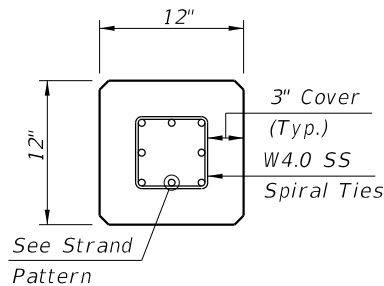
**SS PRESTRESSED PILE DETAILS**

|                                   |                     |                                                      |                                                               |                          |                         |
|-----------------------------------|---------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------|-------------------------|
| <p>LAST REVISION<br/>11/01/20</p> | <p>DESCRIPTION:</p> | <p><b>FDOT</b><br/>FY 2024-25<br/>STANDARD PLANS</p> | <p>12" SQUARE CFRP &amp; SS PRESTRESSED<br/>CONCRETE PILE</p> | <p>INDEX<br/>455-112</p> | <p>SHEET<br/>2 of 2</p> |
|-----------------------------------|---------------------|------------------------------------------------------|---------------------------------------------------------------|--------------------------|-------------------------|

11/01/24



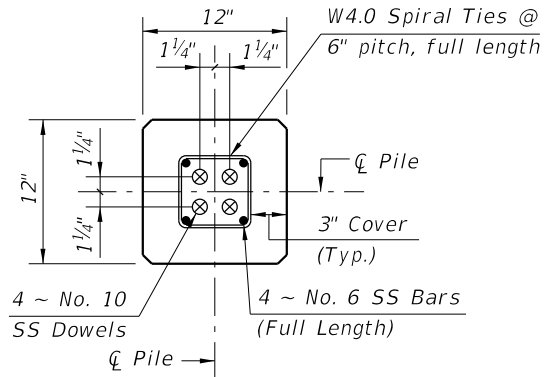
ELEVATION



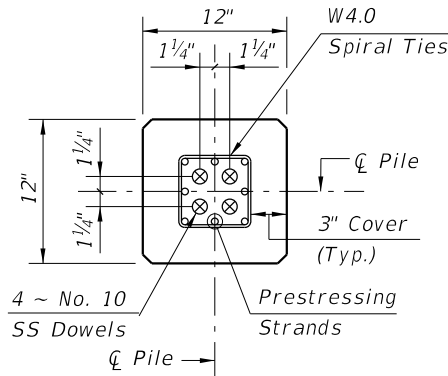
SECTION A-A

STRAND PATTERN

- 8 ~ 0.52" Ø, HSSS at 24 kips
- 8 ~ 0.62" Ø, HSSS at 26 kips



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



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

SS PILE SPLICE REINFORCEMENT DETAILS

- NOTES:
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SS PRESTRESSED PILE DETAILS

| LAST REVISION | REVISION | DESCRIPTION: | FY 2025-26<br>STANDARD PLANS | 12" SQUARE CFRP & SS PRESTRESSED<br>CONCRETE PILE | INDEX   | SHEET  |
|---------------|----------|--------------|------------------------------|---------------------------------------------------|---------|--------|
| 11/01/24      |          |              |                              |                                                   | 455-112 | 2 of 2 |