Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	455-030
Date:	5/15/2025	Sheet Number(s):	Sheet 1
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	30" SQUARE PRESTRESSED CONCRETE PILE

Summary of the changes:

Sheet 1: Changed pitch spacing for the spiral ties; Changed SECTION D-D note "See unplanned reinforced CIP pile splice or non-drivable unplanned reinforced precast pile splice detail".

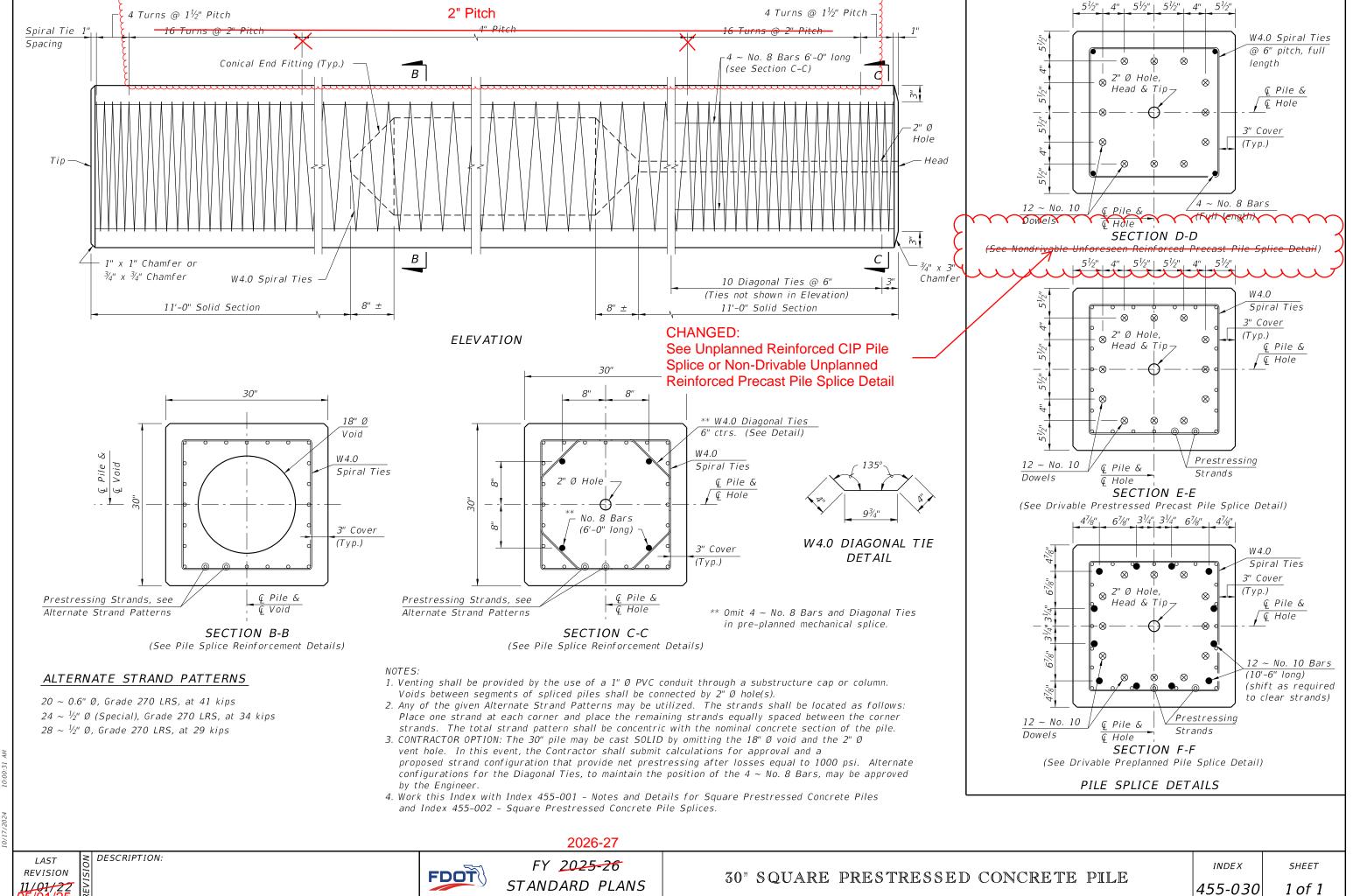
Commentary/Background:

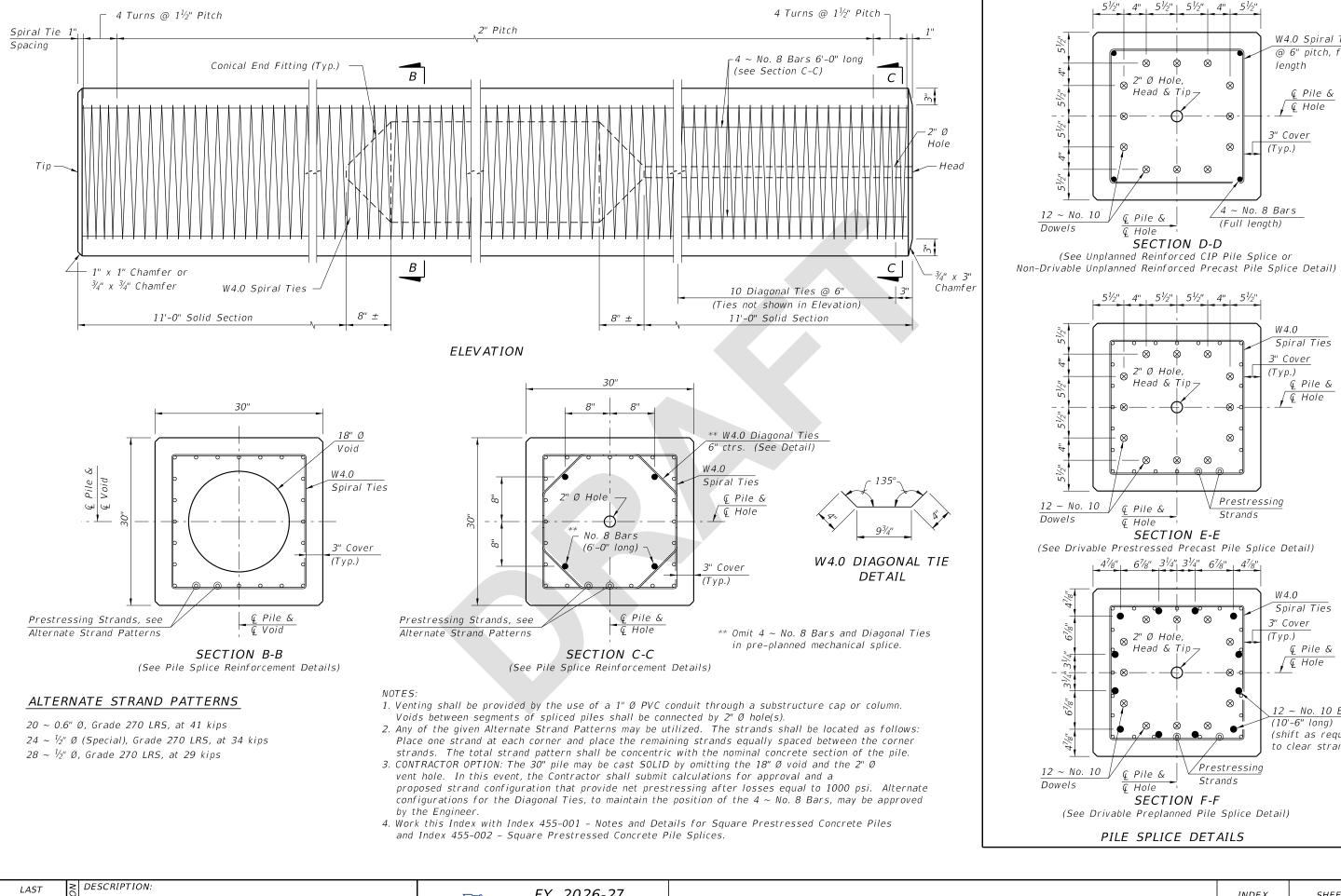
Vertical cracking has been observed in hollow core prestressed concrete piles, including 30-in. voided square HMC and conventional piles, and 60-in. hollow cylindrical piles, during installation and service. To address cracks frequently occur within the 4" stirrup pitch zone, a reduction in stirrup pitch to 2" is proposed to help mitigate cracking in these areas.

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)"]





W4.0 Spiral Ties

@ 6" pitch, full

∉ Pile & ∤ ⊊ Hole

length

3" Cover

W4.0Spiral Ties

3" Cover

(Typ.)

W4.0 Spiral Ties

3" Cover

⊊ Pile &

12 ~ No. 10 Bars

(shift as required

to clear strands)

√<u>⊊ Hole</u>

(10'-6" long)

(Typ.)

 \otimes

Prestressing

(Typ.)

4 ~ No. 8 Bars

(Full length)