**Alternate Strand Patterns**

12 ~ 0.6" Ø, CFRP 7-Strand, at 34 kips
12 ~ 0.6" Ø, CFRP Single-Strand, at 33 kips

**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.
3. 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.

See Alternate Strand Patterns (Typ.)

ELEVATION

**See Note 4 on Index 455-102**

**SECTION A-A**

**SECTION D-D**

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

**SECTION E-E**

(See Drivable Prestressed Precast Pile Build-Up Detail)

**SECTION F-F**

(See Drivable Preplanned Prestressed Precast Pile Build-Up Detail)

CFRP PILE SPLICE REINFORCEMENT DETAILS

CFRP PRESTRESSED PILE DETAILS

FY 2020-21

18' SQUARE CFRP & SS PRESTRESSED CONCRETE PILE

INDEX 455-118
Prestressing Strands
8 ~ No. 10 SS Dowels
(10'-6" long)
(shift as required to clear strands)

3" Cover
(Typ.)

3" Cover
(Typ.)

3" Cover
(Typ.)

W40 Spiral Ties

Spiral Ties

W40 Spiral Ties

SECTION A-A

ELEVATION

** See Note 4 on Index 455-102

STRAND PATTERN

16 ~ ½" B, HSSS, at 26 kips

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.

See Strand Pattern

SECTION D-D

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

SECTION E-E

(See Drivable Prestressed Precast Splice Detail)

SECTION F-F

(See Drivable Preplanned Prestresses Precast Splice Detail)

5S PILE SPLICE REINFORCEMENT DETAILS

SS PRESTRESSED PILE DETAILS

INDEX 455-118

SHEET 2 of 2

Fy 2020-21
STANDARD PLANS

18" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE

REV: 01/01/16

REV: 01/01/16

DESCRIPTION:

SS PRESTRESSED PILE DETAILS

REV: 01/01/16