DESCRIPTION:

REV IS IO N

18" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE

ELEVATION

** See Note 4 on Index 455-102

ALTERNATE STRAND PATTERNS

12 ~ 0.6" Ø, CFRP 7-Strand, at 34 kips
12 ~ 1" Ø, CFRP Single-Strand, at 33 kips

NOTES:

1. Work this Index with Index 455-101 – Typical Details and Notes for Square CFRP 4 SS Prestressed Concrete Piles and Index 455-102 – Square CFRP 4 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 Nondrivable Unforeseen Reinforced Precast Pile Build-Up Detail)
(See Drivable Preplanned Prestressed Precast Splice Detail)

SECTION D-D

(See Drivable Prestressed Precast Pile Detail)

SECTION E-E

(See Drivable Prestressed Precast Pile Detail)

SECTION F-F

(See Drivable Prestressed Precast Pile Detail)
** Prestressing Strands **

8 ~ No. 10 Dowels (Full Length)

3" Cover (Typ.)

5 Turns @ 1" Pitch

16 ~ No. 9 Bars

5 Turns @ 1" Pitch **

6" Pitch

16 Turns @ 3" Pitch

3" Cover

18" Spiral Ties

18" Spiral Ties

W40 Spiral Ties

1/2" x 3" Chamfer (Typ.)

** ELEVATION **

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

** STRAND PATTERN **

16 ~ No. 10, HSSS, @ 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 strand 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 Nondrivable Unforeseen Reinforced Precast Pile Build-Up Detail)

** SECTION E-E **

(See Drivable Preplanned Predtresses Precast Splice Detail)

** SECTION F-F **

(See Drivable Preplanned Predtresses Precast Splice Detail)

** SS PILE SPLICE REINFORCEMENT DETAILS **

18" SQUARE CFRP & SS PRESTRESSED CONCRETE PILE