

ELEVATION

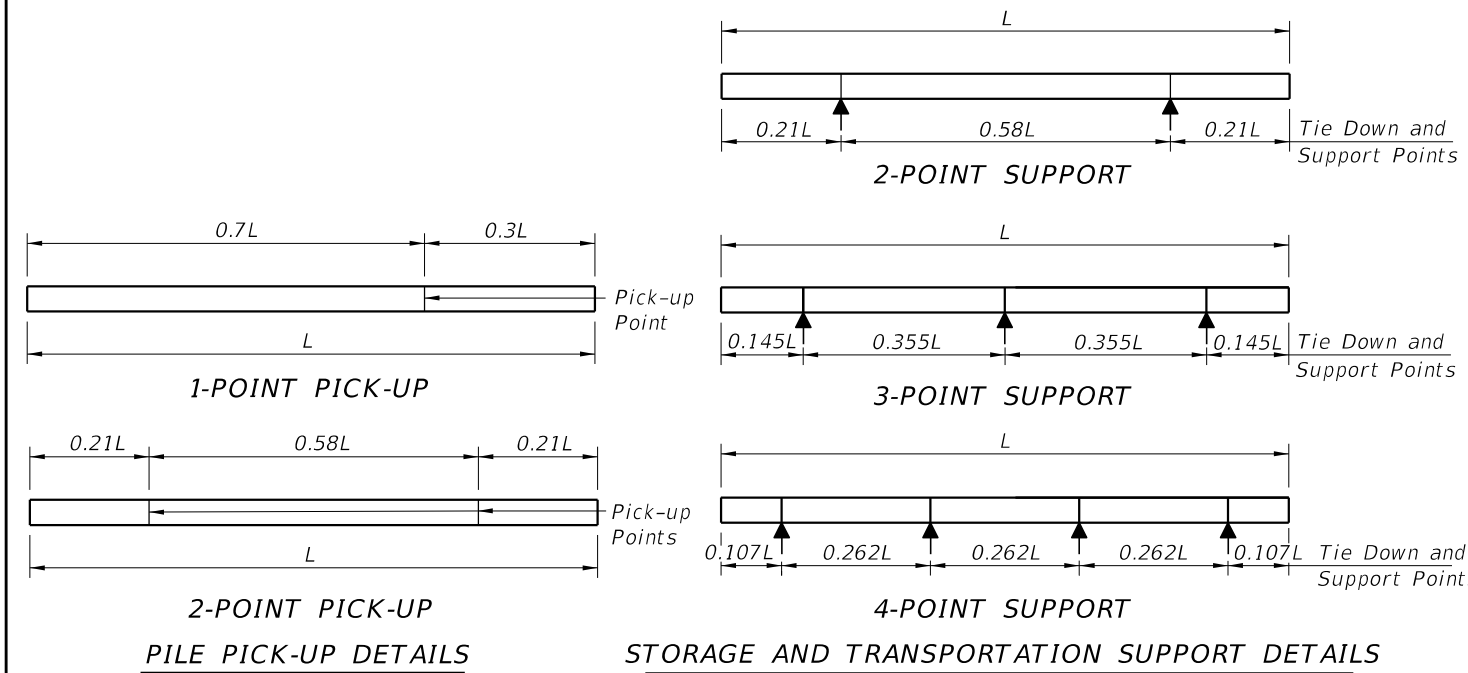


TABLE OF MAXIMUM PILE PICK-UP AND SUPPORT LENGTHS		
Maximum Pile Length (Feet)	Required Storage and Transportation Detail	Pick-Up Detail
119	2, 3, or 4 point	1 Point
170	2, 3, or 4 point	2 Point

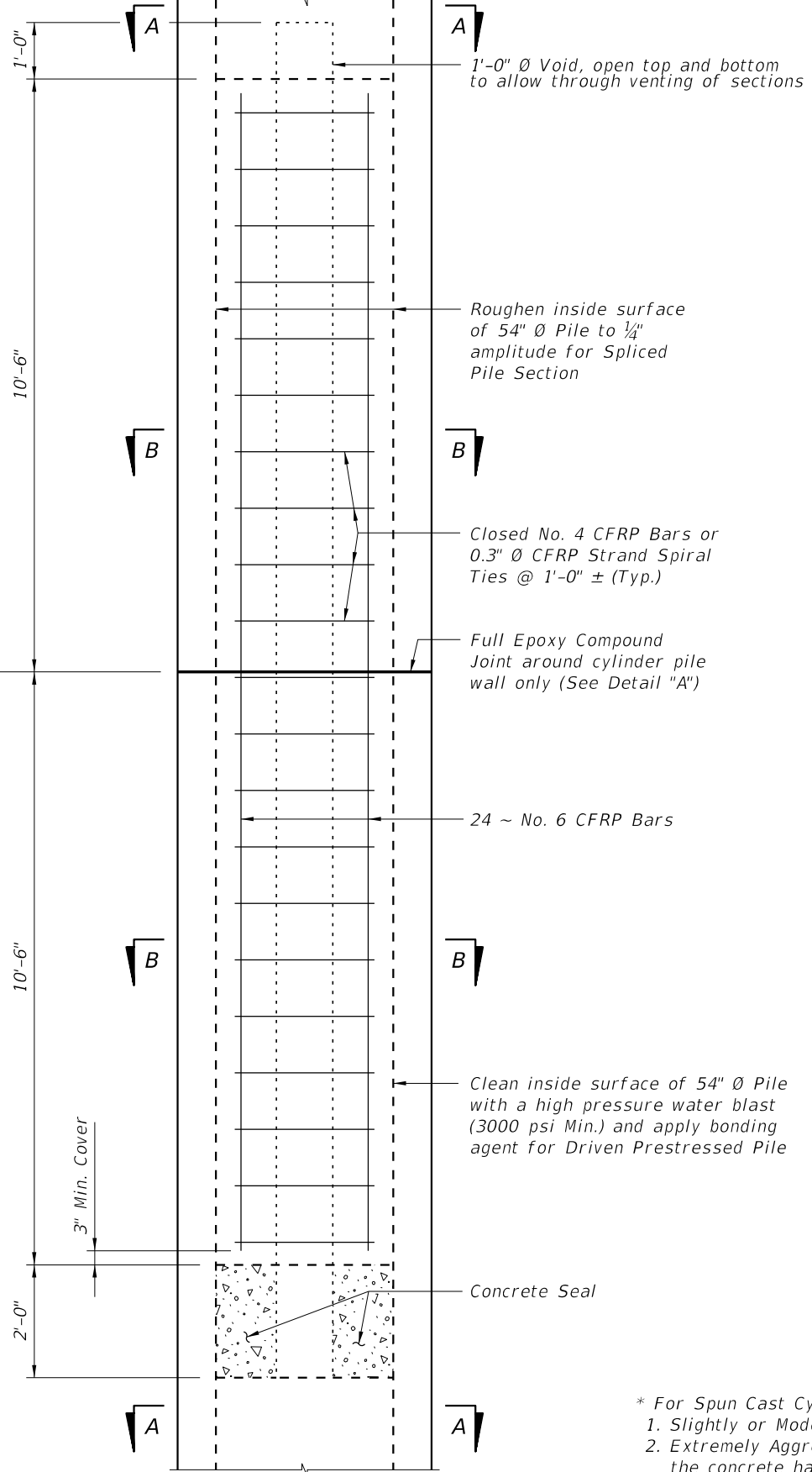
NOTES

- DESIGN SPECIFICATIONS:**
 Florida Department of Transportation (FDOT) "Structures Design Guidelines", Current Edition.
 American Association of State Highway and Transportation Officials (AASHTO) "LRFD Bridge Design Specifications", Current Edition.
- SPIRAL TIES:**
 One full wrap of spirals is required at both the head and tip of pile. One half turn required for spiral splices.
- CONCRETE CLASS:**
 Concrete for all piles shall be Class V (Special). Concrete for pile splices shall be Class IV. See "GENERAL NOTES" in Structures Plans for any specific locations where the use of Silica Fume is required.
- CONCRETE STRENGTH:**
 The cylinder strength shall be 6,000 psi minimum at time of transfer of the Prestressing Force.
- SPLICE BONDING MATERIAL:**
 The material to form the joint between pile sections shall be a Type B Epoxy Compound in accordance with Section 926 of the Specifications. The bonding agent used on internal pile surfaces shall be a Type A Epoxy Compound in accordance with Section 926 of the Specifications. Epoxy Compounds used shall be contained on the Approved Products List (APL). Use Epoxy Bonding Compound or Epoxy Mortar as recommended by the Manufacturer. For Epoxy Mortar only use sand or other filler material supplied by the manufacturer and in the proportions recommended.
- PICK-UP POINTS:**
 Piles shall be marked at the pick-up points to indicate proper points for attaching handling lines.
- REINFORCING STEEL:**
 Stainless Steel: All reinforcing steel shall meet the requirements of Specification Section 931 for Type 304, Grade 75.
 Carbon FRP: All reinforcing bars shall be CFRP meeting the requirements of Specification Section 932.
- PRESTRESSING STEEL:**
 Stainless Steel: Prestressing steel shall be seven-wire strand HSSS, UNS S32205 (Type 2205) or UNS S31803 strand, meeting the requirements of Specification Section 933.
 Carbon FRP: Prestressing strand shall be CFRP Strand meeting the requirements of Specification Section 933.
- PILE DRIVING AFTER SPLICING:**
 Pile splices shall reach a minimum strength of 5500 psi before driving is resumed.

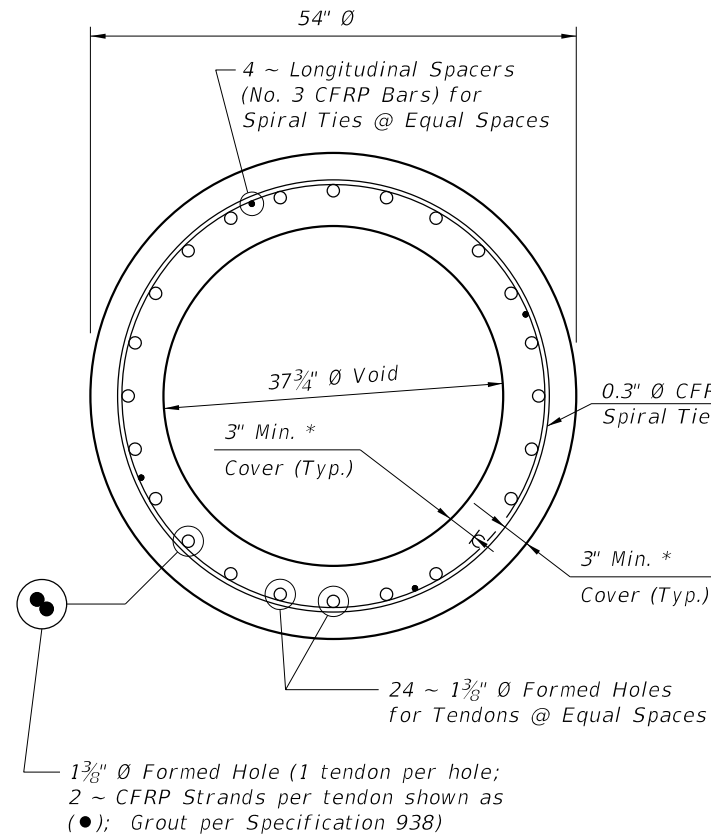
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Spliced Precast/Post-Tensioned Pile Section

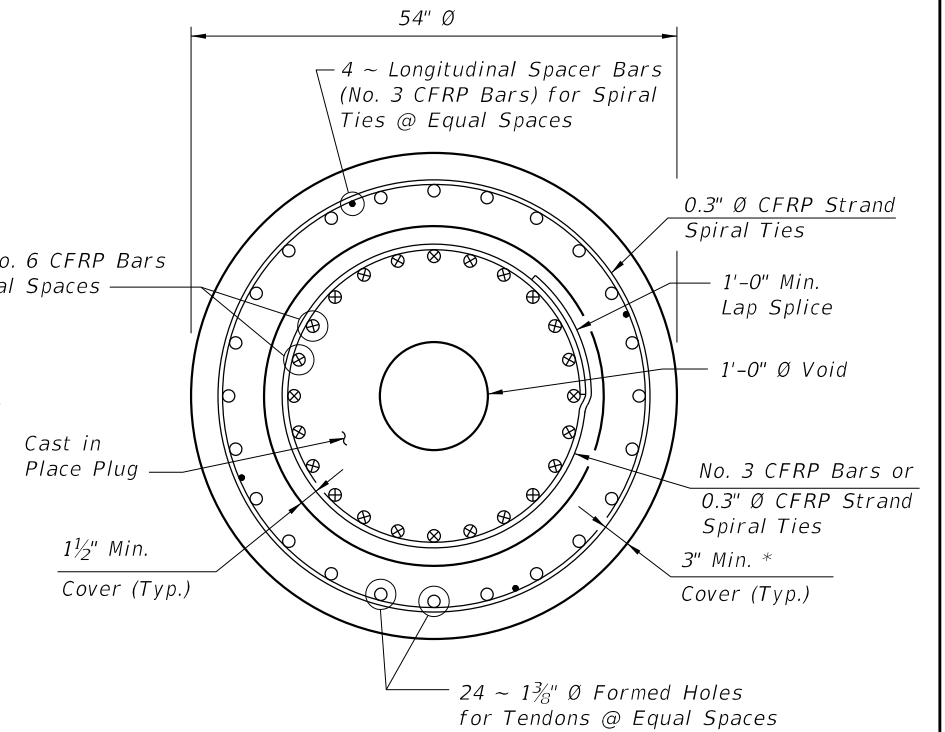
Driven Precast/Post-Tensioned Pile



DRIVABLE UNFORESEEN FIELD SPLICE DETAIL
(Cast-In-Place Plug)



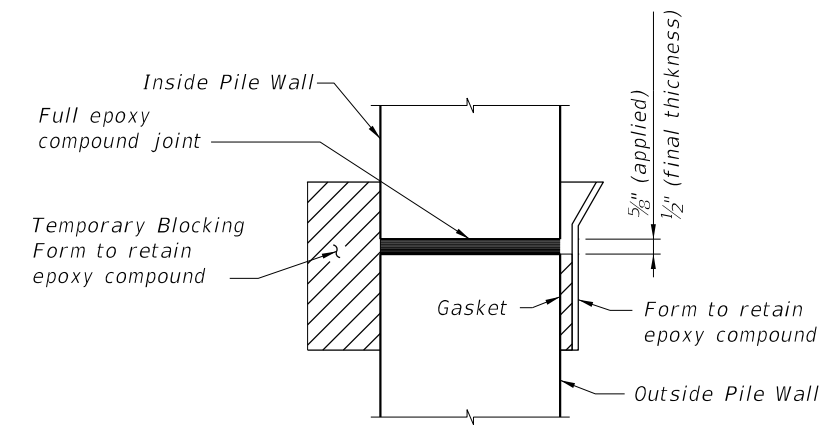
SECTION A-A



SECTION B-B

ALTERNATE STRAND PATTERNS

- 48 ~ 0.5" Ø, Single-Strand, at 28 kips
- 48 ~ 0.6" Ø, 7-Strand, at 29 kips



DETAIL "A"

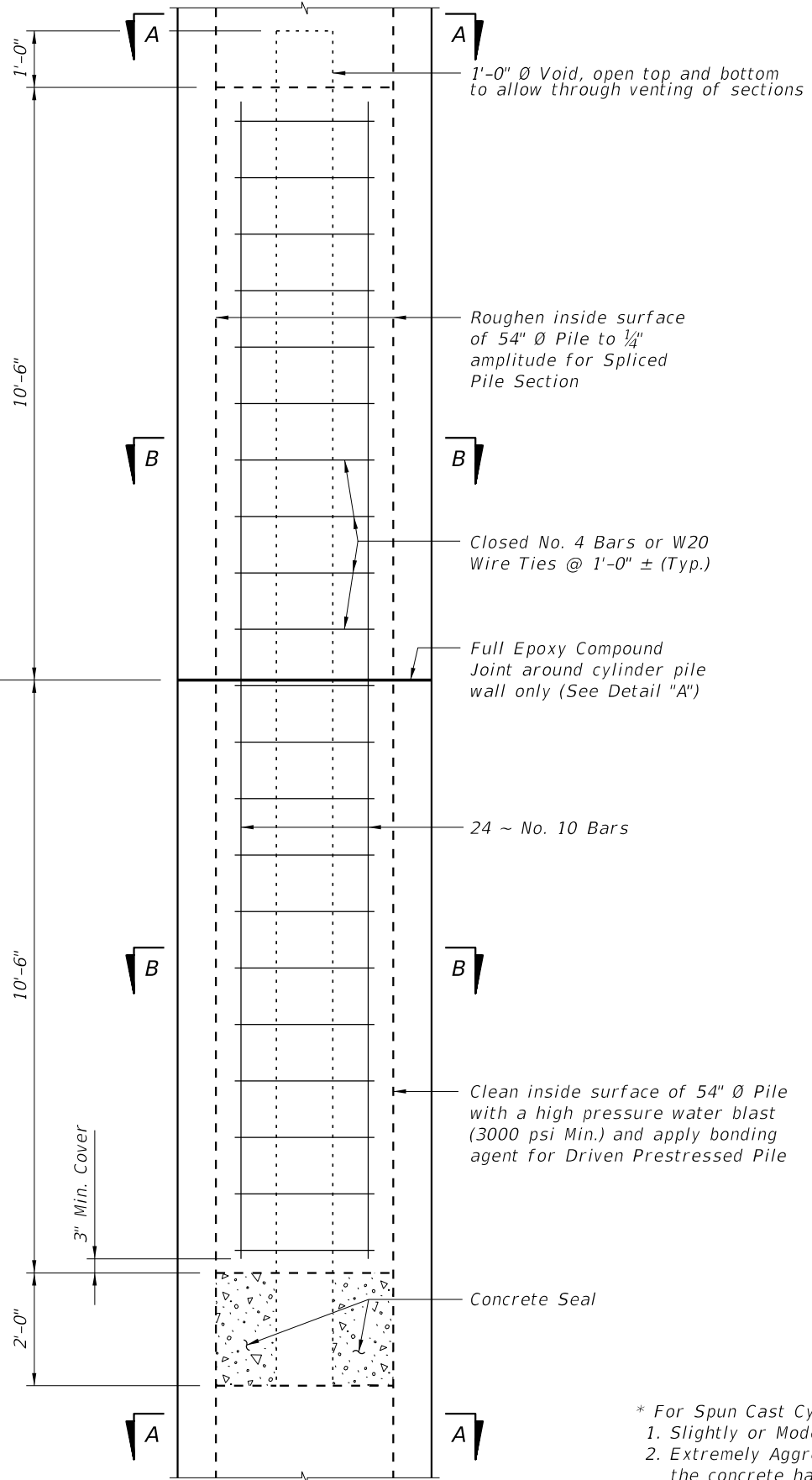
* For Spun Cast Cylinder Piles, the following requirements for concrete cover apply:
 1. Slightly or Moderately Aggressive Environments: The concrete cover may be reduced to 2 inches.
 2. Extremely Aggressive Environments: The concrete cover may be reduced to 2 inches as long as the concrete has a documented chloride ion penetration apparent diffusion coefficient with a mean value of 0.005 in² per year or less; otherwise, a 3-inch concrete cover is required.

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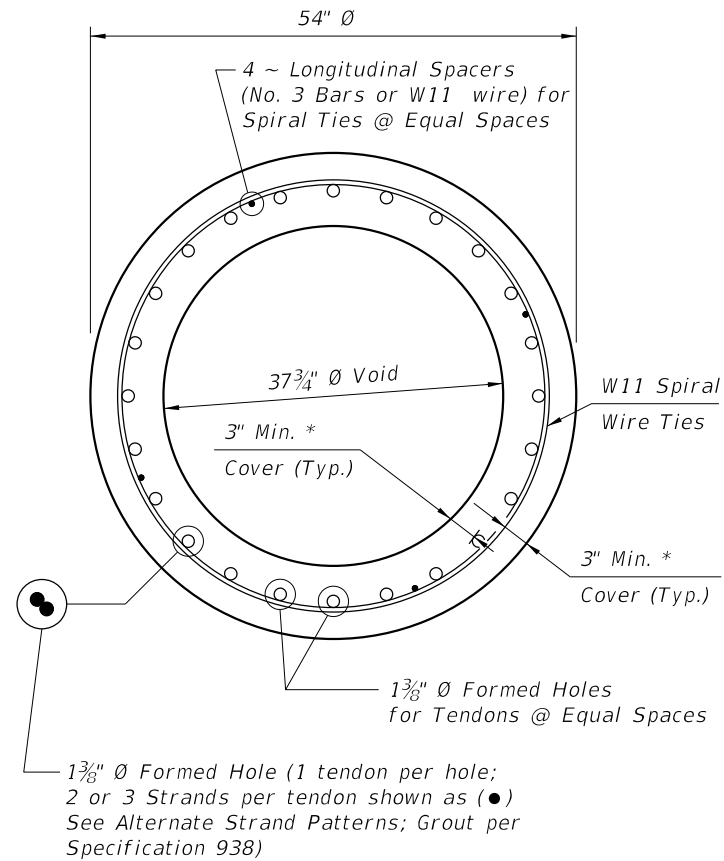
LAST REVISION 01/01/16	DESCRIPTION:	 FY 2016-17 DESIGN STANDARDS	54" PRECAST/POST-TENSIONED CFRP & SS CONCRETE CYLINDER PILE	INDEX NO. 22654	SHEET NO. 2 of 3
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Spliced Precast/Post-Tensioned Pile Section

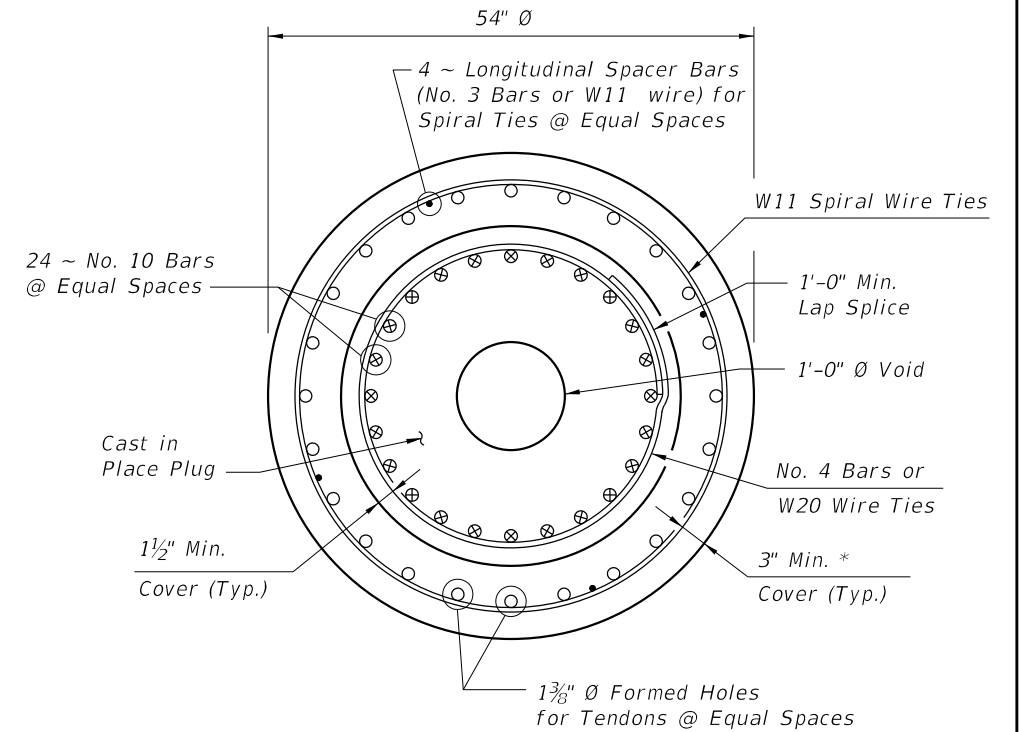
Driven Precast/Post-Tensioned Pile



DRIVABLE UNFORESEEN FIELD SPLICE DETAIL
(Cast-In-Place Plug)



SECTION A-A

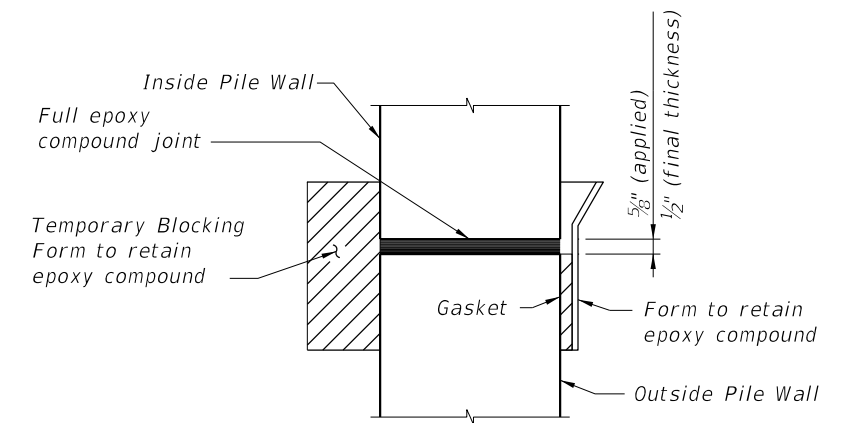


SECTION B-B

ALTERNATE STRAND PATTERNS

- 72 ~ 1/2" Ø, HSSS Strands, at 21 kips (24~3 strand tendons)
- 58 ~ 1/2" Ø, HSSS Strands, at 24 kips (29~2 strand tendons)
- 48 ~ 0.6" Ø, HSSS Strands, at 32 kips (24~2 strand tendons)

* For Spun Cast Cylinder Piles, the following requirements for concrete cover apply:
 1. Slightly or Moderately Aggressive Environments: The concrete cover may be reduced to 2 inches.
 2. Extremely Aggressive Environments: The concrete cover may be reduced to 2 inches as long as the concrete has a documented chloride ion penetration apparent diffusion coefficient with a mean value of 0.005 in² per year or less; otherwise, a 3-inch concrete cover is required.



DETAIL "A"

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LAST REVISION	01/01/16	DESCRIPTION:
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