
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: October 21, 2021
Originator: Joshua Turley
Phone: (850) 414-4475
Email: joshua.turley@dot.state.fl.us

Standard Plans:

Index Number: 455-054
Sheet Number (s): 1
Index Title: 54" Precast/Post-Tensioned Concrete
Cylinder Pile

Summary of the changes:

Changed Class V (Special) concrete to Class V.

Commentary / Background:**Other Affected Offices / Documents:** (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standard Specifications –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Construction –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

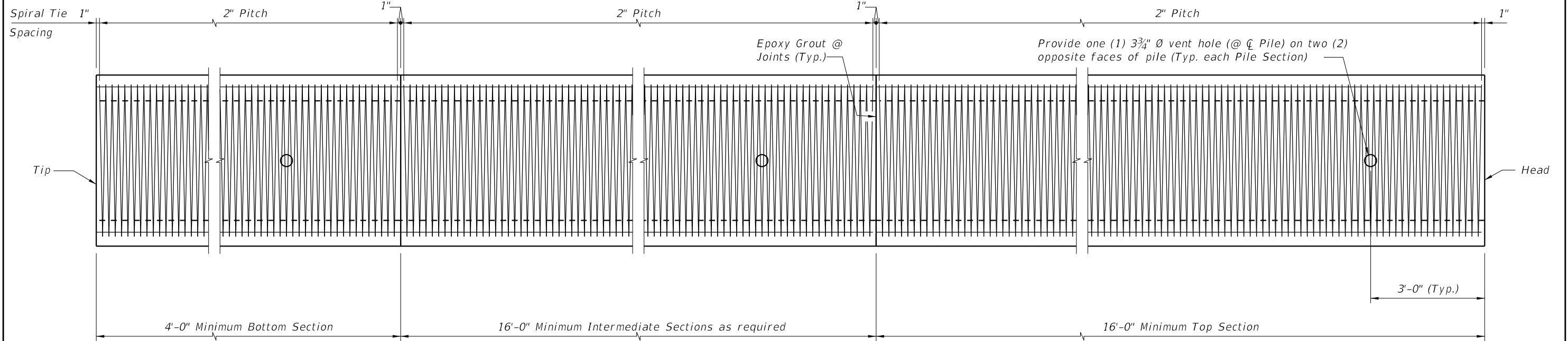
Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

Implementation:

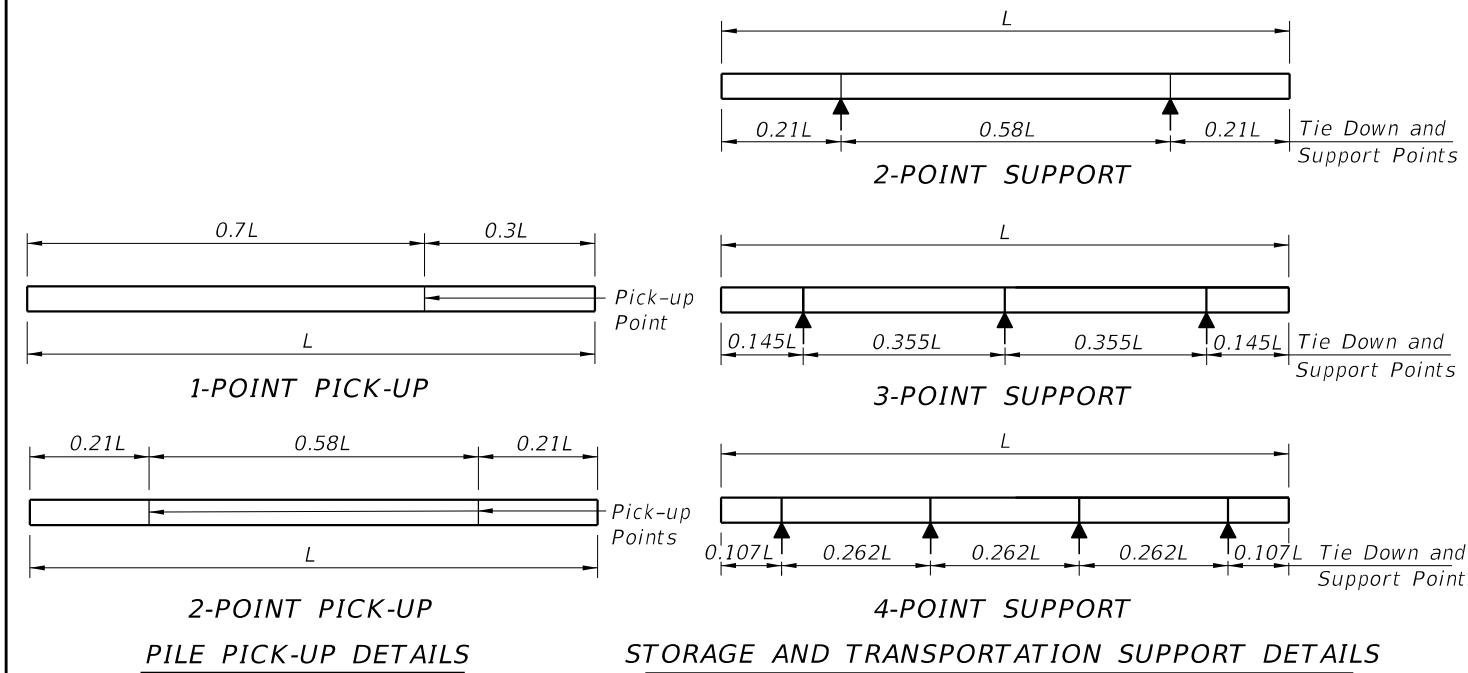
<input type="checkbox"/>	Design Bulletin (Interim)
<input type="checkbox"/>	DCE Memo
<input checked="" type="checkbox"/>	Program Mgmt. Bulletin
<input checked="" type="checkbox"/>	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us



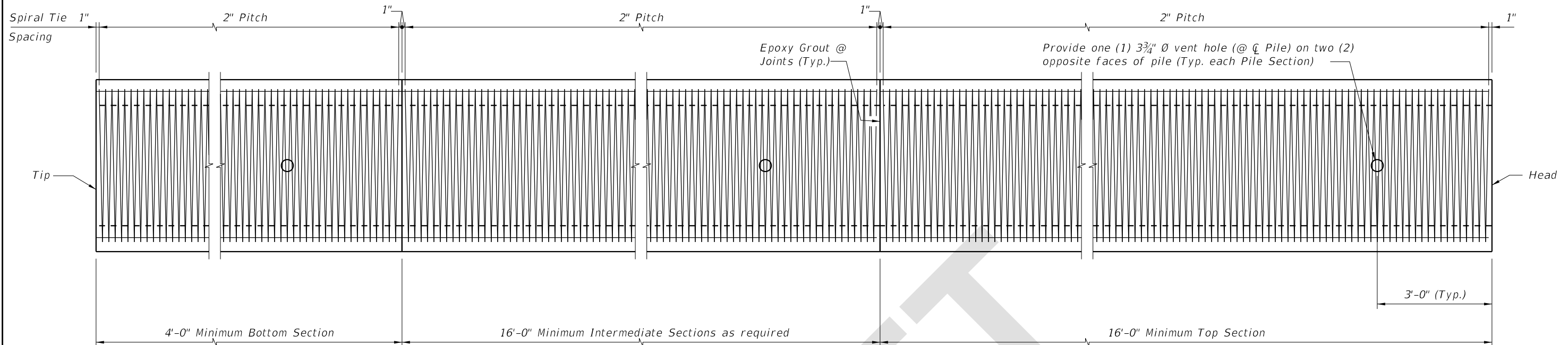
ELEVATION



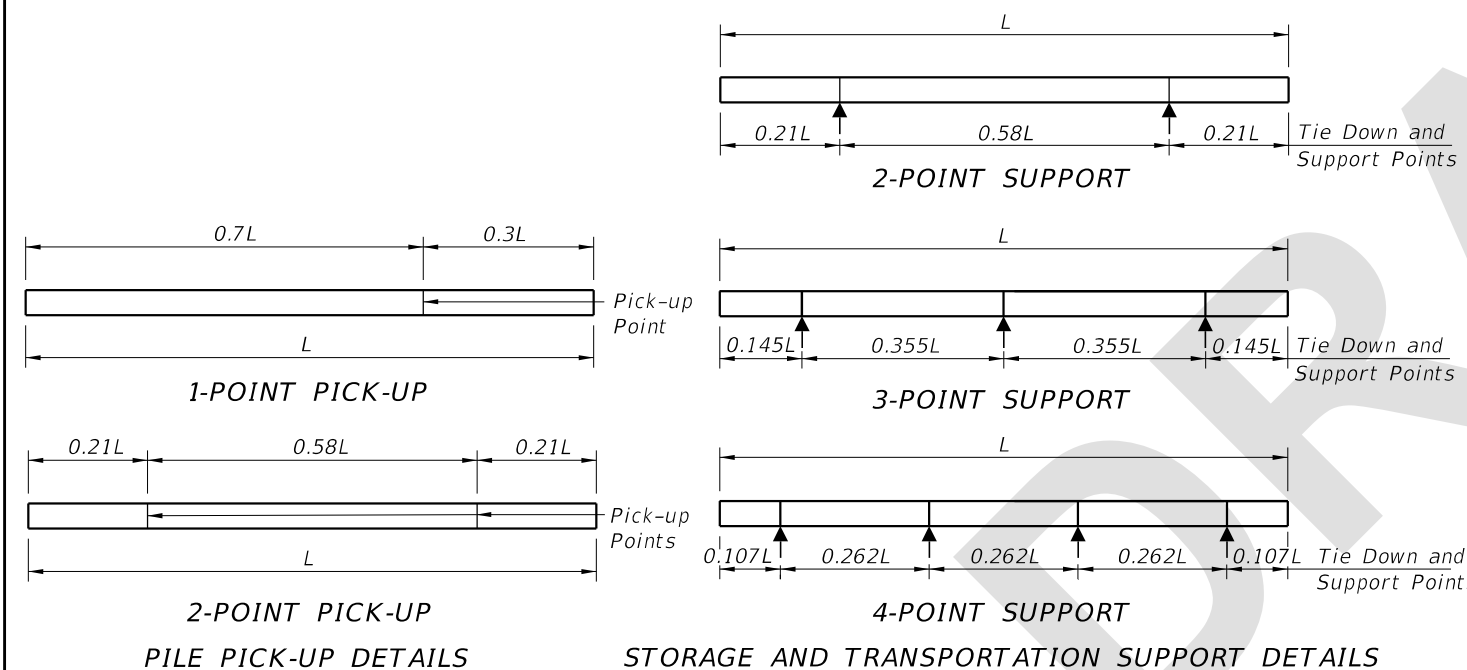
- NOTES**
- Work this Index with the Pile Data Table in the Structures Plans.
 - Concrete:
 - Piles: Class V ~~(Special)~~
 - Splice: Class IV.
 - See "GENERAL NOTES" in Structures Plans for locations where the use of Highly Reactive Pozzolans is required.
 - Concrete Strength at time of prestress transfer:
 - Piles: 6,000 psi minimum.
 - Carbon-Steel Reinforcing:
 - Bars: Meet the requirements of Specification Section 415.
 - Prestressing Strands: Meet the requirements of Specification Section 933.
 - Tendons: Two seven-wire 1/2" dia. (Special) Grade 270, low-relaxation strands tensioned to 33.8 kips.
 - Protect all carbon-steel strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
 - Spiral Ties:
 - One half turn is required for carbon-steel spiral splice.
 - One full turn is required at the pile head and tip.
 - Pile Splices:
 - Epoxy: Type AB Epoxy Compound or Mortar must meet the requirements of Specification Section 926.
 - Use a Type AB Epoxy Bonding Compound or Epoxy Mortar, as recommended by the Manufacturer, to form the joint between pile sections
 - Use a Type AB Epoxy Bonding Compound as a bonding agent on internal pile surfaces.
 - Driving: Resume pile driving after splice concrete reaches a minimum strength of 5,500 psi.
 - Mark piles at the pick-up points to indicate the proper points for attaching handling lines.

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

10/27/19 AM
10/8/2020



ELEVATION



NOTES

1. Work this Index with the Pile Data Table in the Structures Plans.
2. Concrete:
 - A. Piles: Class V.
 - B. Splice: Class IV.
 - C. See "GENERAL NOTES" in Structures Plans for locations where the use of Highly Reactive Pozzolans is required.
3. Concrete Strength at time of prestress transfer:
 - A. Piles: 6,000 psi minimum.
4. Carbon-Steel Reinforcing:
 - A. Bars: Meet the requirements of Specification Section 415.
 - B. Prestressing Strands: Meet the requirements of Specification Section 933.
 - C. Tendons: Two seven-wire 1/2" dia. (Special) Grade 270, low-relaxation strands tensioned to 33.8 kips.
 - D. Protect all carbon-steel strands permanently exposed to the environment and not embedded under final conditions in accordance with Specification Section 450.
 - E. Spiral Ties:
 - a. One half turn is required for carbon-steel spiral splice.
 - b. One full turn is required at the pile head and tip.
5. Pile Splices:
 - A. Epoxy: Type AB Epoxy Compound or Mortar must meet the requirements of Specification Section 926.
 - a. Use a Type AB Epoxy Bonding Compound or Epoxy Mortar, as recommended by the Manufacturer, to form the joint between pile sections
 - b. Use a Type AB Epoxy Bonding Compound as a bonding agent on internal pile surfaces.
 - B. Driving: Resume pile driving after splice concrete reaches a minimum strength of 5,500 psi.
6. Mark piles at the pick-up points to indicate the proper points for attaching handling lines.

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

7/22/2022 1:56:35 PM