ORIGINATION FORM

Proposed Revisions to a Standard Plans Index

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

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Standard Plans:

Index Number: 455-031 Sheet Number (s): 1 of 1

Index Title: 30" SQUARE PRESTRESSED CONCRETE PILE -

HIGH MOMENT CAPACITY

Summary of the changes:

Sheet 1: Changed the location of the dowels; Deleted part of note 2 not allowing for corrugated galvanized metal pipe forms.

Commentary / Background:

The location of drilled holes for the #10 dowels that are epoxied into the voided end for the splice connection are extremely close to the face of the void and will spall during drilling (1-3/4) drill bit).

These dowel bars should be moved further inside the pile wall, but the only place to avoid other reinforcing is inside the corner of the strand pattern (see the blue circle in the markup below). This would reduce the total number of dowel bars possible from 8 to 4, but this should be OK since almost all the moment capacity comes from the collar reinforcing (36~ #8 bars on the perimeter) recognized these extend lapped 10-feet either side of the splice joint while the #10 dowel bars only extend 4-feet and are temporary restraint and alignment while the exterior collar is constructed. -- Steve Nolan

For the metal pipe forms it was decided that the forms would create a corrosion risk and reduce the possible lifespan of the pile. Therefore, this allowance was removed.

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Yes	No			
	\checkmark	Other Standard Plans –		
	\checkmark	FDOT Design Manual –		
	/	Basis of Estimates Manual –		
	\checkmark	Standard Specifications –		
	\checkmark	Approved Product List –		
	\checkmark	Construction –		
	/	Maintenance –		
Origination Package Includes: (Submit package to Rick Jenkins)		n Package Includes: (Submit package to Rick Jenkins)	Implementation:	
Yes	N/A	A	Design Bulletin (Interim)	
\checkmark		Redline Mark-ups	☐ DCE Memo	
		Revised or Proposed Standard Plan Instruction (SPI)	Program Mgmt. Bulletin	
		Other Support Documents	FY-Standard Plans (Next Release)	

Contact the Roadway Design Office for assistance in completing this form



