ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

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

Contact Information:

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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.

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

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Yes No \square Other Standard Plans – \square FDOT Design Manual – \square Basis of Estimates Manual – Standard Specifications – Approved Product List – \square Construction – \square Maintenance – **Origination Package Includes:** (Submit package to Rick Jenkins) Implementation: Yes N/A Design Bulletin (Interim) Redline Mark-ups DCE Memo Revised or Proposed Standard Plan Instruction (SPI) Program Mgmt. Bulletin **FY-Standard Plans (Next Release)** Other Support Documents Contact the Roadway Design Office for assistance in completing this form

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