ORIGINATION FORM -

Proposed Revisions to a Standard Plans Index

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

Contact Information:	Standard Plans:
Date: June 5, 2023	Index Number: 455-440
Originator: Dino Jameson	Sheet Number (s): 1 of 4
Phone: (352) 955-2933	Index Title: Precast Concrete Sheet Pile Wall (CFRP/GFRP &
Email: dino.jameson@dot.state.fl.us	HSSS/GFRP)
Summary of the changes:	

Sheet 1: Changed the "PLASTIC FILTER FRABRIC" Note in the SHEET PILE DESIGN CRITERIA AND NOTES to "GEOTEXTILE: Provide and install Type D-2 or D-3 geotextile in accordance with Specifications 514. Extend the geotextile to the bottom of the "X" dimension."; Changed all references of "Filter Fabric" or "Plastic Filter Fabric" to "Geotextile".

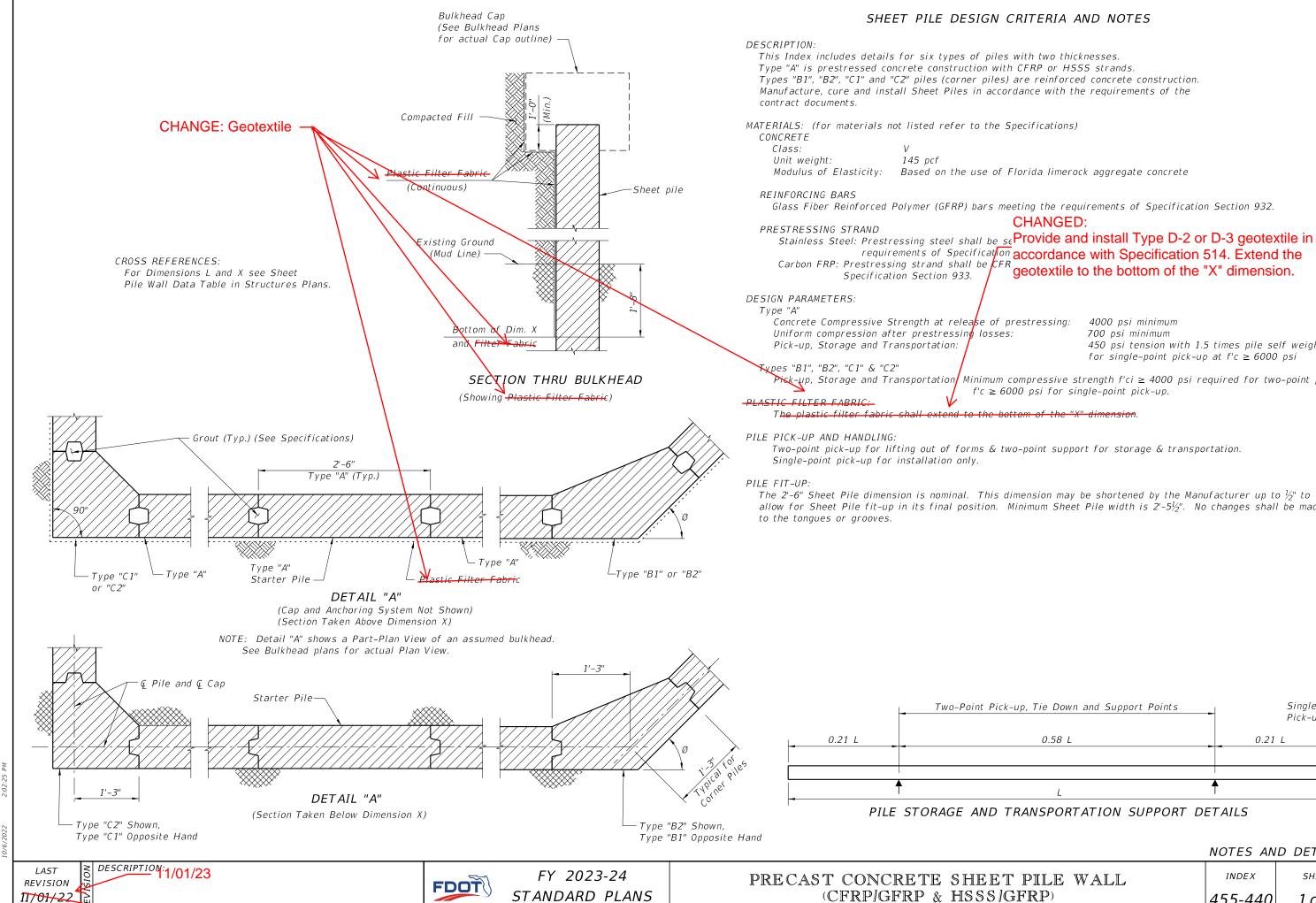
Areas of the Standard Plans where 985 is referenced for drainage details needs to now reference Specs 514 (Division II specs). The Contractor is not responsible for the producer requirements division III specs, but ensure that the product used is on the APL and used for appropriate intended use. Specs 514 essentially does reference 985 to meet the materials requirement.

Commentary / Background:

In the July 2022 SSRBC workbook, construction requirements for the Contractor for geosynthetic materials from Section 985 was removed. The reason for it was that the construction requirements doesn't belong in Division III of the specifications, as this is for producer requirements. Instead of applying specific requirements to each individual specs that references 985 in Division II, the Department is going to modify specification 514 to cover geosynthetics used for drainage applications. Specs 145 covers the reinforcement (structural) applications and construction requirements and erosion control has specific requirements in various areas of Division II, therefore, both erosion and reinforcement are covered. The only missing link in Division II is the drainage applications. Proposed changes to 514 cover construction requirements and material acceptance. In addition, specs 514 ensures that the Contractor obtains geosynthetic product from a manufacturer that meets 985 spec requirements.

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

Yes	No					
	\checkmark	Other Standard Plans –				
	\checkmark	FDOT Design Manual –				
	\checkmark	Basis of Estimates Manual –				
\checkmark	\Box	Standard Specifications – Various sections where 985 is referenced.				
	\checkmark	Approved Product List –				
	\checkmark	Construction –				
	\checkmark	Maintenance –				
<u>Origir</u>	atio	n Package Includes: (Submit package to Rick Jenkins)	Implementation:			
Yes	N//	A	🔲 Design Bulletin (Interim)			
\checkmark		Redline Mark-ups	DCE Memo			
	\checkmark	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 co	mpleting this form			
	Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us					



Based on the use of Florida limerock aggregate concrete

CHANGED:

requirements of Specification accordance with Specification 514. Extend the

4000 psi minimum 700 psi minimum 450 psi tension with 1.5 times pile self weight for single-point pick-up at $f'c \ge 6000$ psi

Pick-up, Storage and Transportation Minimum compressive strength f'ci \geq 4000 psi required for two-point pick-up; $f'c \ge 6000$ psi for single-point pick-up.

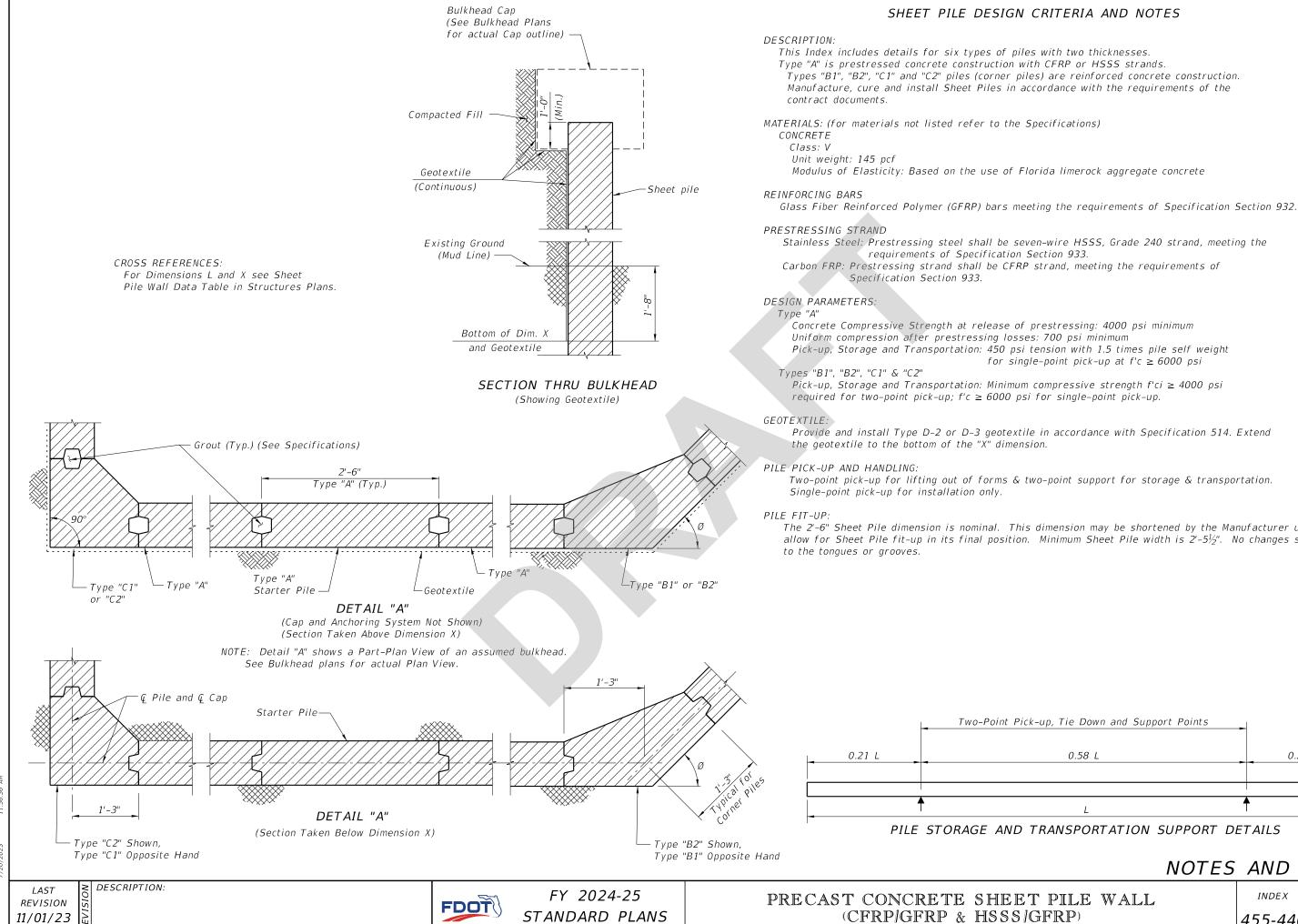
allow for Sheet Pile fit-up in its final position. Minimum Sheet Pile width is 2'-5%''. No changes shall be made

, Tie Down and Support Points	- Single Point Pick-up						
0.58 L	0.21						
L	†						
ANSPORTATION SUPPORT DETAILS							
	NOTES AN	D DETAILS					
PILE WALL	INDEX	SHEET					

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SHEET PILE DESIGN CRITERIA AND NOTES



STANDARD PLANS

(CFRP/GFRP & HSSS/GF

for single-point pick-up at $f'c \ge 6000$ psi

The 2'-6" Sheet Pile dimension is nominal. This dimension may be shortened by the Manufacturer up to $\frac{1}{2}$ " to allow for Sheet Pile fit-up in its final position. Minimum Sheet Pile width is 2'-5½". No changes shall be made

, Tie Down and Support Points	Single Point Pick-up						
0.58 L	0.21						
L	1						
ANSPORTATION SUPPORT DETAILS							
NOTES AND DETAILS							
PILE WALL	INDEX	SHEET					
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