# **ORIGINATION FORM** -

# Proposed Revisions to a Standard Plans Index

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

#### **Contact Information:**

Date: June 5, 2023 Originator: Dino Jameson Phone: (352) 955-2933

Email: dino.jameson@dot.state.fl.us

### **Standard Plans:**

Index Number: 400-011 Sheet Number (s): 1 of 1 Index Title: Gravity Wall

# **Summary of the changes:**

**Updated GENERAL NOTES:** 

Note 1 - 3 Updated to active voice.

Note 5 - Updated "Joint Seal: Provide and install organic bond breaker or Type D-5 geotextile in accordance with Specifications 400 and 514, respectively."

Note 6 - Updated reference from Specification 985 to Specification 514.

Changed all references of "Geotextile Fabric" to "Geotextile".

Changed all references of "Section" to "Specification".

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.

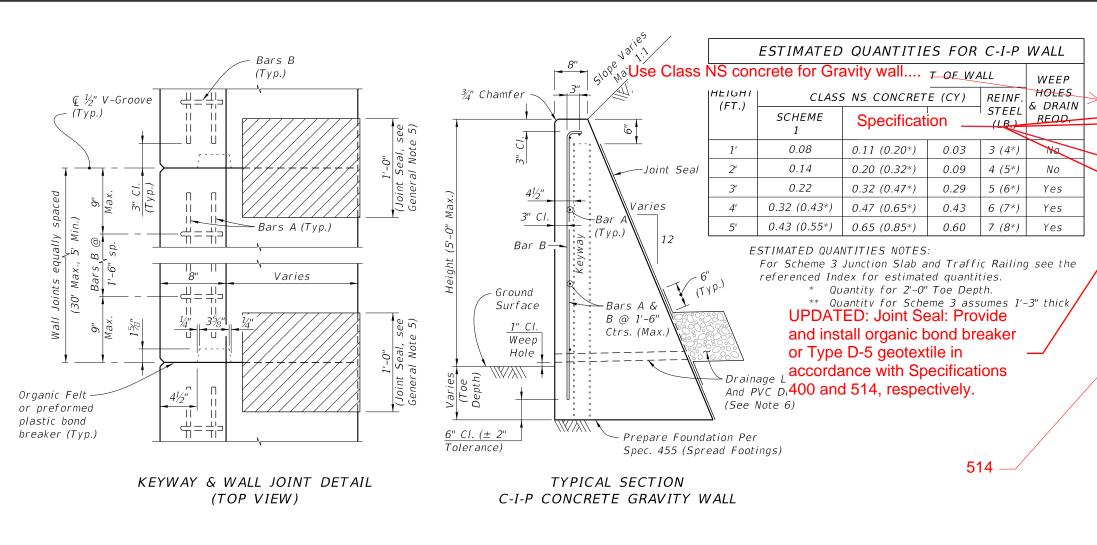
# Commentary / Background:

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		
	lacksquare	Other Standard Plans –	
	$\checkmark$	FDOT Design Manual –	
	$\checkmark$	Basis of Estimates Manual –	
$\checkmark$		Standard Specifications – Various sections where 985 is referenced.	
	$\checkmark$	Approved Product List –	
	$\checkmark$	Construction –	
	$\checkmark$	Maintenance –	
<u>Origin</u>	atio	n Package Includes: (Submit package to Rick Jenkins)	Implementation:
Yes	N/A	A	☐ Design Bulletin (Interim)
	$\checkmark$	Redline Mark-ups	☐ DCE Memo
	<b>/</b>	Revised or Proposed Standard Plan Instruction (SPI)	Program Mgmt. Bulletin
	<b>✓</b>	Other Support Documents	FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form -



\_provide GENEKAL NOTES

1. C-I-P Gravity Walls constructed as extensions of reinforced concrete retaining walls, except walls of proprietary designs, shall have the same face texture and finish as the reinforced concrete retaining wall.

Concrete for Gravity Wall shall be Class NS per Section 347. Concrete for Scheme 3 Junction Slab and Traffic Railing shall be Class II per Section 346, unless otherwise specified in the plans. meets

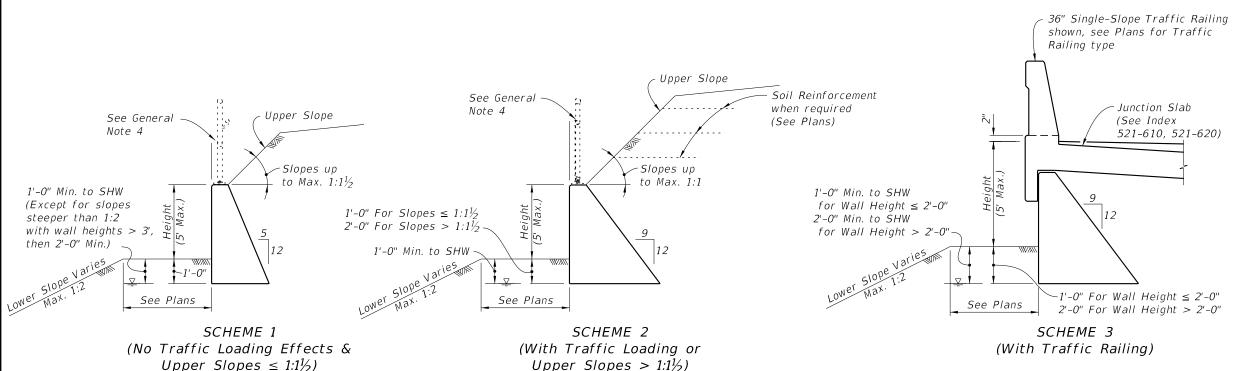
Reinforcing steel shall meet the requirements of Specification Section 931 (Grade 40 or 60). Smooth or Deformed Welded Wire Reinforcement (WWR) may be substituted on an equal area basis. Do not increase bar/wire spacing for Grade 60 reinforcing steel or WWR.

When required, for adjunct guiderail, see Index 515-070 or 515-080 as appropriate. For adjunct Type B fence see Index 550-002.

Joint Seal: Organic Felt bond breaker in accordance with Specification Section 400 or Type D 5 geotextile fabric in accordance with Specification Section 985. Mop all contact surfaces of concrete and Organic Felt or geotextile fabric with cut-back asphalt. Stop Organic Felt or geotextile fabric 6" below top of wall.

Provide a continuous 1'x1' clean gravel or crushed rock drain for wall heights 3 ft. and higher. Wrap drainage layer as shown, with Type D-3 geotextile fabric in accordance with Specification Section 7985. Provide 8"x8" galvanized mesh with  $\frac{1}{4}$ " openings, at the inside end of the PVC Drain Pipe. Provide 2" Ø PVC Drain Pipe (Sch. 40) at 10 ft. max. spacing (when Drainage Layer is required). Locate outermost edge of Drain Pipe a minimum of 2'-0" from wall joints.

Cost of reinforcing steel, face texture, finish, joint seal, drain pipes, drainage layer, galvanized mesh and geotextile fabric to be included in the Contract Unit Price for Concrete Class NS, Gravity Wall. Cost of concrete for Junction Slab in Scheme 3, to be included in Contract Unit Price for Concrete Traffic Railing Barrier With Junction Slab. Adjunct railings or fences to be paid for separately.



FY 2023-24

STANDARD PLANS

FDOT

11/01/23

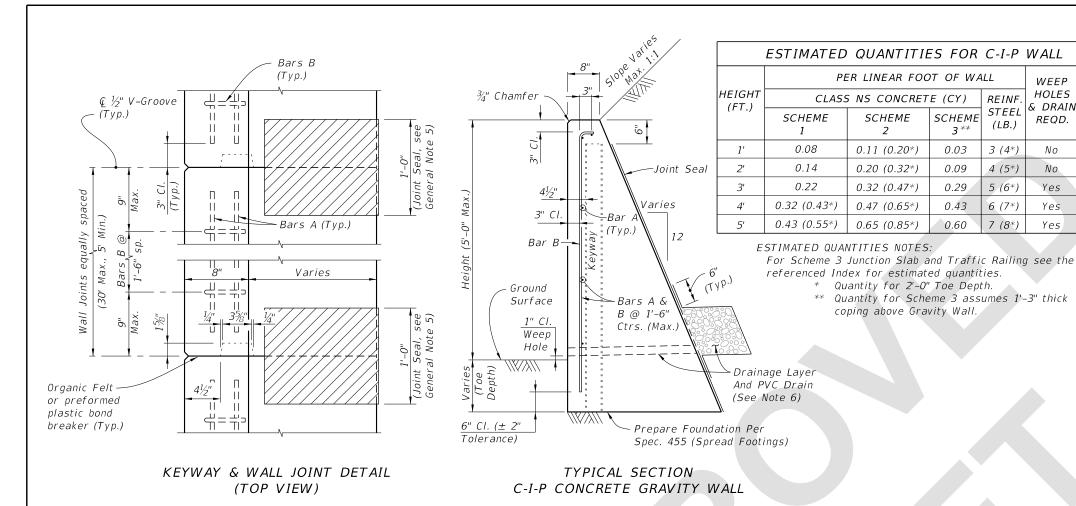
DESCRIPTION:

REVISION

11/01/17

BILL C	BILL OF REINFORCING STEEL						
MARK	SIZE	LENG	GTH				
А	4	As Reqd.					
В	4	As R	eqd.				
BAF	Scheme 3 Scheme 1 & 2 Wall Joint spacing - 4"  Wall Joint spacing - 4"						
, Wall Joi							
(29	(29'-8" Max.)						
BAR A  Height + Toe Depth - Area Depth - Are							
NOTES: BAR B  1. All bar dimensions are out to out. 2. Lap splices for Bars A must be a minimum of 1'-10".							

400-011



#### GENERAL NOTES

WEEP

HOLES

& DRAIN

REQD.

No

No

Yes

Yes

Yes

REINE

SCHEME

0.03

0.09

0.29

0.43

0.60

3 \*\*

2

STEEL

(LB.)

3 (4\*)

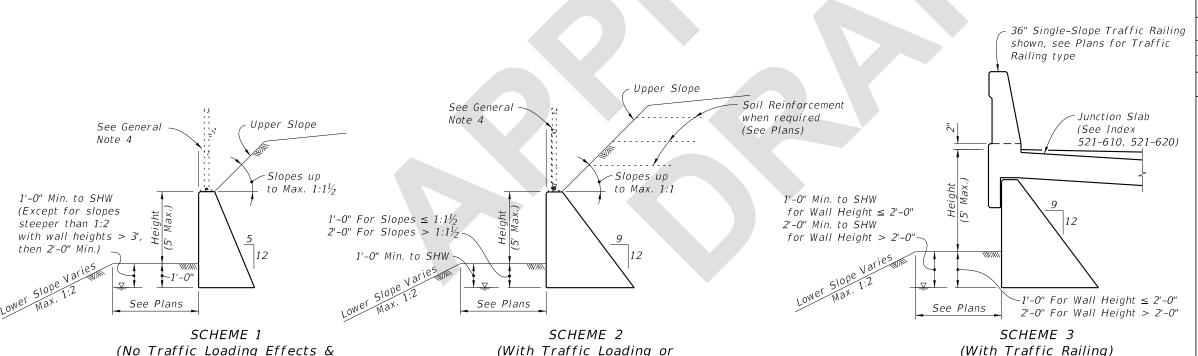
4 (5\*)

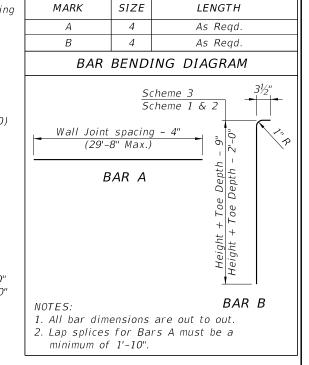
5 (6\*)

6 (7\*)

7 (8\*)

- 1. C-I-P Gravity Walls constructed as extensions of reinforced concrete retaining walls, except for walls of proprietary designs, provide the same face texture and finish as the reinforced concrete retaining wall.
- Use Class NS Concrete for Gravity Wall per Specification 347. Concrete for Scheme 3 Junction Slab and Traffic Railing shall be Class II per Specification 346, unless otherwise specified in the plans.
- 3. Reinforcing steel meets the requirements of Specification 931 (Grade 40 or 60). Smooth or Deformed Welded Wire Reinforcement (WWR) may be substituted on an equal area basis. Do not increase bar/wire spacing for Grade 60 reinforcing steel or WWR.
- 4. When required, for adjunct guiderail, see Index 515-070 or 515-080 as appropriate. For adjunct Type B fence see Index 550-002.
- Joint Seal: Provide and install organic bond breaker or Type D-5 geotextile in accordance with Specifications 400 and 514 respectively. Mop all contact surfaces of concrete and Organic Felt or geotextile with cut-back asphalt. Stop Organic Felt or geotextile 6" below top of wall.
- 6. Provide a continuous  $1'x\dot{1}'$  clean gravel or crushed rock drain for wall heights 3 ft. and higher. Wrap drainage layer as shown, with Type D-3 geotextile in accordance with Specification 514. Provide 8"x8" galvanized mesh with  $\frac{1}{2}$ " openings, at the inside end of the PVC Drain Pipe. Provide 2" Ø PVC Drain Pipe (Sch. 40) at 10 ft. max. spacing (when Drainage Layer is required). Locate outermost edge of Drain Pipe a minimum of 2'-0" from wall joints.
- 7. Cost of reinforcing steel, face texture, finish, joint seal, drain pipes, drainage layer, galvanized mesh and geotextile to be included in the Contract Unit Price for Concrete Class NS, Gravity Wall. Cost of concrete for Junction Slab in Scheme 3, to be included in Contract Unit Price for Concrete Traffic Railing Barrier With Junction Slab. Adjunct railings or fences to be paid for separately.





BILL OF REINFORCING STEEL

LAST REVISION 11/01/23

DESCRIPTION:

Upper Slopes  $\leq 1:1\frac{1}{2}$ )

FDOT

FY 2024-25 STANDARD PLANS

Upper Slopes >  $1:1\frac{1}{2}$ )

GRAVITY WALL

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