# **ORIGINATION FORM**

Proposed Revisions to a Standard Plans Index (Please provide all information – Incomplete forms will be returned)

# **Contact Information:**

### Standard Plans:

Date: August 2, 2018 Originator: Derwood Sheppard, Richard Stepp Phone: (850) 414-4334 Email: Index Number: **544-001** Sheet Number (s): 1 and 2 of 2 Index Title: Crash Cushion Details

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# Summary of the changes:

Redeveloped Sheets for improved clarity of details and new Length of Need process. Sheet 1: Deleted Concrete Barrier and Guardrail Applications Tables; Revised the General Notes; Updated Departure Line locations, Length Restrictions, and other callouts. Sheet 2: Updated Design Length. station location points. and other callouts

# **Commentary / Background:**

Updated the SPI to provide increased designer information; Updated the Length of Need process in coordination with the Concrete Barrier and Guardrail Standards; Developed a uniform system of Plans development to handle most projects with a Contractor's option of varying proprietary crash cushion lengths

		Other Affected Offices / Documents: (Provide name of responsible personnel)					
Yes	No	Other Standard Plans –					
	$\checkmark$	FDOT Design Manual –					
	$\checkmark$	Basis of Estimates Manual –					
	$\checkmark$	Standard Specifications –					
	$\checkmark$	Approved Product List –					
	$\checkmark$	Construction –					
	$\checkmark$	Maintenance –					
Yes	N/A	<b>Origination Package Includes:</b> (Email or hand deliver package to Derwood Sheppard) Redline Mark-ups					
		Proposed Standard Plan Instructions (SPI)					
$\checkmark$		Revised SPI					
	$\checkmark$	Other Support Documents					
Implementation: Design Bulletin (Interim) DCE Memo Program Mgmt. Bulletin 🗹 FY-Standard Plans (Next Release)							
———— Contact the Roadway Design Office for assistance in completing this form ————							



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CRASH CUSHION DETAILS



#### GENERAL NOTES:

- 1. GENERAL: Work this Index in accordance with Specification 544 and the "Summary of Permanent Crash Cushions" table in the Plans.
- 2. TRANSITION PANEL: Where crash cushions are placed between two-way traffic or adjacent to two-way two-lane traffic, place a Transition Panel from the Concrete Barrier to the Crash Cushion on the downstream side of the barrier end (as shown). Follow the requirements of the APL drawing.
- 3. MANUFACTURER'S TRANSITION: Construct the proprietary guardrail transition only if shown in the applicable APL drawing. See Note 4 below.
- 4. STANDARD GUARDRAIL TRANSITION: If the APL drawing does not provide a guardrail transition to w-beam guardrail, construct the Standard Guardrail Transition segment from thrie-beam to w-beam as shown per Sheet 2. This 21'-10<sup>1</sup>/<sub>2</sub>" segment must remain parallel to the roadway.

If the APL drawing does provide a guardrail transition to w-beam guardrail, replace the Standard Guardrail Transition segment with a w-beam guardrail segment at 6'-3" post spacing, except that Post (10) will remain where shown herein if it is located at a guardrail begin or end taper station callout per the Plans. This 21'-10<sup>1</sup>/<sub>2</sub>" segment must also remain parallel to the roadway.

5. LENGTH OF END TREATMENT: For Crash Cushions, the Length of End Treatment includes all proprietary elements of the design as shown in the APL drawing, including the manufacture's transition of guardrail if applicable.

The actual Length of End Treatment varies per Crash Cushion type, but an estimated Length of End Treatment is generally shown in the Plans to provide sufficient space for the Contractor's option of differing Crash Cushion types.

- 6. LENGTH RESTRICTION: In the "Summary of Permanent Crash Cushions" table, if a value is provided in the Length Restriction column, then select a Crash Cushion from the APL which has a Length of End Treatment less than or equal to the value shown. If the table instead shows not applicable (N/A), then Crash Cushion selection is unrestricted regarding length.
- 7. CRASH CUSHION STATION: The Crash Cushion Station point shown herein corresponds to the station provided in the "Summary of Permanent Crash Cushions" table in the Plans.

	Begin/End Concrete Barrier Sta.		
Direction of Traffic	Crash Cushion Sta. (See Note 7)		
	Concrete Barrier (See Index 521-001)		
Foundation Pad			
	— Transition Panel (See Note 2)		
PERMANENT CRASH CUSHION			
	Concrete Barrier		
	(Median Barrier Snown, Shoulder Barrier Similar)		
Departure Line			
Length of End Treatment (See Note 5)			
	1		
Direction of Traffic			
CONCRETE	BARRIER APPLICATION		
	ے۔ Begin/End Guardrail Sta. (@ Post)		
Direction of Traffic	Crach Cuchian Sta (See Note 7)		
	Crash Cushion Sta. (See Note 7)		
Manutacturer's Tra (If Applicable, See	Note 3) —		
- Foundation Pad	Standard Guardrail Transition G		
r oundation r au	(If Applicable, See Note 4) (See In		
PERMANENT CRASH CUSHION			
	Guardrail		
	(Double-Faced Shown, Single Eaced Similar)		
- Dep	arture Line Single-raced Similar)		
Length of End Treatment (See Note 5)			
1	1		
Direction of Traffic			

= GUARDRAIL APPLICATION =====

< DESCRIPTION: LAST REVISION 11/01/18

SCRIFTION.									





PERMANENT CRASH CUSHION APPLICATIONS

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