# **ORIGINATION FORM**

## **Proposed Revisions to a Standard Plans Index**

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

Contact Information:	Standard Plans:
Date: July 26, 2020	Index Number: 536-001
Originator: Richard Stepp	Sheet Number (s): 6, 7, 9, and 17
Phone: (850) 414-4313	Index Title: Guardrail
Email: richard.stepp@dot.state.fl.us	

Summary of the changes:

Sheet 6: Removed some 1:10 max. slope labels to clarify that this doesn't alter FDM and drainage slope requirements. Added additional text to note 1 to further clarify.

Sheet 7: Removed some 1:10 max. slope labels (similar to Sheet 6)

Sheet 9: Add Trailing Anchor. Sta. callout at post 1

Sheet 17: Added additional notes to guardrail bolt connection to concrete rigid barrier in order to accomodate nearby sidewalk or shared use path.

### **Commentary / Background:**

Clarified 1:10 max. slope based on industry feedback of misunderstandings. Added Trailing Anchorage callout for consistency with other Index sheets and corresponding plans callouts. Added bolt modification to handle additional case of nearby sidewalk by reducing protrusion of mounting bolts.

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

Yes No  $\Box$ Other Standard Plans –  $\square$  $\mathbf{V}$ FDOT Design Manual - $\square$  $\checkmark$ Basis of Estimates Manual - $\square$  $\checkmark$ Standard Specifications - $\mathbf{\nabla}$ Approved Product List - $\checkmark$ Construction -Maintenance – **Origination Package Includes: Implementation:** Design Bulletin (Interim) (Email or hand deliver package to Rick Jenkins) DCE Memo Yes N/A  $\checkmark$ Program Mgmt. Bulletin **Redline Mark-ups** 11 Proposed Standard Plan Instruction (SPI) **Revised SPI Other Support Documents** 

FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form



REVISION

#### NOTES:

1:10 (To Typical Front Slope Break)

10'-0"

-Impact Head

**1** Direction of Traffic

(See Note 4)

1. INSTALLATION: Locate Approach Terminals where called for in the plans, with the Post (1) ( placed at the Begin/End Guardrail Station indicated in the plans

The Plan Views shown herein are schematic only, showing basic geometry for Approach Terminals listed on the APL. The predefined Length of End Treatment, 'LE', includes the proprietary portion of various Approach Terminals and provides for more consistent planning of assembly installations across the differing Approach Terminal types. Forward-anchoring style Approach Terminals may vary from the planned lengths shown by up to 3'-0".

Construct Approach Terminals as shown in the APL and in accordance with the manufacturer's unique drawing details, procedures, and specifications.

Install posts in accordance with the manufacturer's drawings. The Special Posts on Sheet 23, including Special Steel Posts, Encased Posts, and Frangible Leave-Outs, are not permitted within the Approach Terminal segment unless otherwise called for in the plans.

Align panel lap splices in accordance with the manufacturer's drawings, regardless of the direction of traffic.

2. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments.

herein if indicated in the plans.

3. APPROACH TERMINAL TEST LEVEL: Install either a Test Level 3 (TL-3) or Test Level 2 (TL-2) Approach Terminal as specified in the plans. TL-3 Approach Terminals may substitute for TL-2 Approach Terminals unless the substitution is specifically prohibited in the plans. TL-2 Approach Terminals may not substitute for TL-3 installations.

4. IMPACT HEAD END DELINEATOR: Apply Yellow Retroreflective Sheeting to the nose of the End Terminal in accordance with Specification 536.

5. 2" MISCELLANEOUS ASPHALT PAVEMENT: The Plan View depicts the Unpaved Shoulder condition. For Fully Paved Shoulder and Shoulder Gutter conditions, extend the 2" Misc. Asphalt Pavement as shown in the corresponding 'Section at Post (1)' details below

The 2" Misc. Asphalt Pavement shown upstream of Post (1) may be substituted with a different pavement type where called for in the Plans.

7. 'CURBED' AND 'DOUBLE FACED' GUARDRAIL SEGMENTS: See Sheet 8.



Face of Guardrail-53'-1½" (TL-3, General) 40'-71/2" (TL-2, Low-Speed)

(4)

(3)

Approach Terminal,

Guardrail Sta.,

(2

(1)

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& Q Post (1)

Begin/End

#### APPROACH TERMINAL ASSEMBLY 'PARALLEL' TYPE - PLAN VIEW

Edge of 2" Misc Asphalt Pavt

Front Slope Break

2" Misc. Asphalt Pavt

Midspan

Location

Splice

(Тур.)

(See Note 5)

Face of

General

General Guardrail

(See Note 2)

Length of End Treatment 'LE'

Guardrail (See Note 2)



Install adjacent grading, gutters, and/or curbing as shown herein.

Approach Transitions, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown

6. CLEAR AREA REQUIREMENT: Do not place any permanent aboveground installations within the areas shown with 1:10 maximum grading. For the finished condition, keep this area free of all aboveground obstructions, including dense vegetation and trees.

> END TREATMENT -APPROACH TERMINAL GEOMETRY - PARALLEL

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#### NOTES:

1:10 (To Typical Front Slope Break)

10'-0"

Impact Head

Direction of Traffic

(See Note 4)

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STANDARD PLANS

(4)

(3)

Edge of 2" Misc. Asphalt Pavt

Front Slope Break

2" Misc. Asphalt Pavt

Midspan

Location

Splice

(Тур.)

(See Note 5)

Face of Guardrail

53'-11/2" (TL-3, General)

40'-71/2" (TL-2, Low-Speed)

APPROACH TERMINAL ASSEMBLY

'PARALLEL' TYPE - PLAN VIEW

Approach Terminal,

Begin/End

Guardrail Sta.,

(2

(1) ≤ッ₽₽∕

& Q Post (1)

LAST REVISION



Eace of

General

General Guardrail

(See Note 2)

Length of End Treatment 'LE

Guardrai

(See Note 2)

GUARDRAIL

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2" Misc. Asphalt Pavt.

# END TREATMENT -APPROACH TERMINAL GEOMETRY - PARALLEL

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