# Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Turley, Joshua	Index Number:	460-474
Date:	5/15/2024	Sheet Number(s):	1-4
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	TRAFFIC RAILING - (THRIE-BEAM RETROFIT) INTERMEDIATE CURB

# Summary of the changes:

Sheets 1-4: Added a note to the details captioning that what is shown is the Adhesive anchor option.

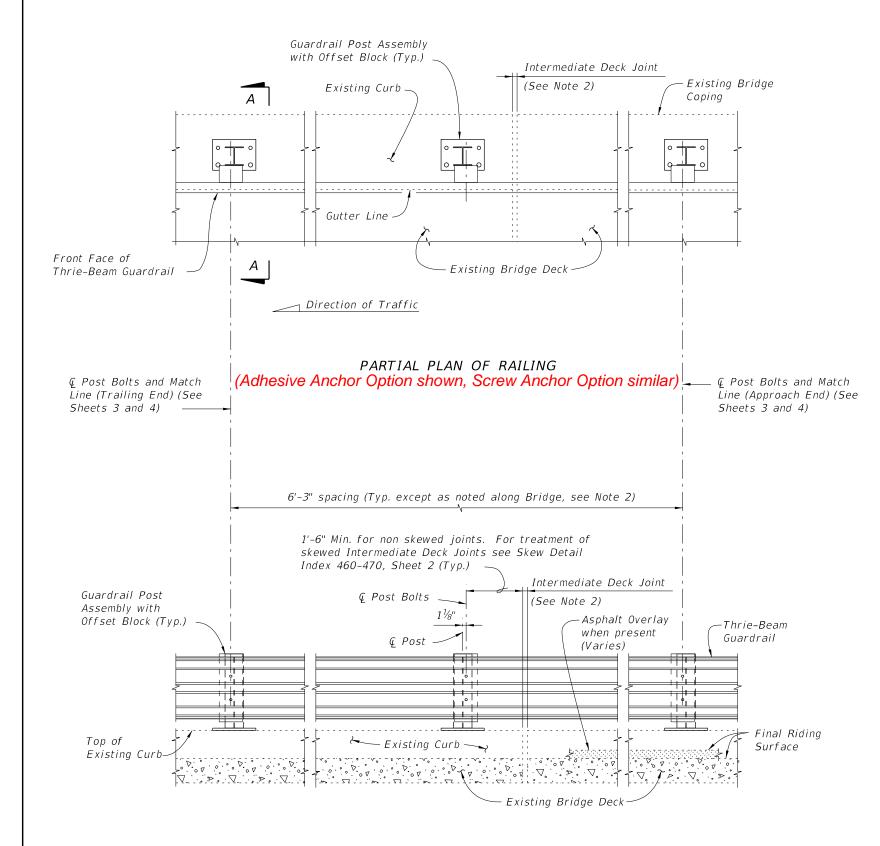
# Commentary/Background:

We have recently finished research into screw anchors and are now allowing them as an option on this Standard and we needed to add a note clarifying that that is the case. Otherwise the user might think that what is shown is the only option.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

# Implementation

["FY-Standard Plans (Next Release)"]



PARTIAL ELEVATION OF INSIDE FACE OF RAILING

== TYPICAL TREATMENT OF RAILING ALONG BRIDGE =====

- 1. On approach end provide Index 536-002 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.
- 2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index 460-470, Sheet 2, as required.
- 3. Areas where existing structure has been removed shall match adjoining areas and shall be finished flat by grouting or grinding as required. Exposed existing reinforcing steel shall be burned off 1" below existing concrete and grouted over.

CROSS REFERENCES: For Match Line see Sheets 3 & 4.

For Section A-A see Sheet 2. For Traffic Railing Notes and Details see Index 460-470.

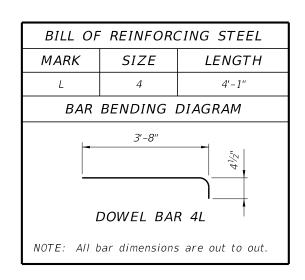
REVISION 01/01/08

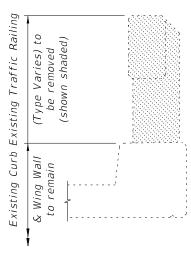
DESCRIPTION:

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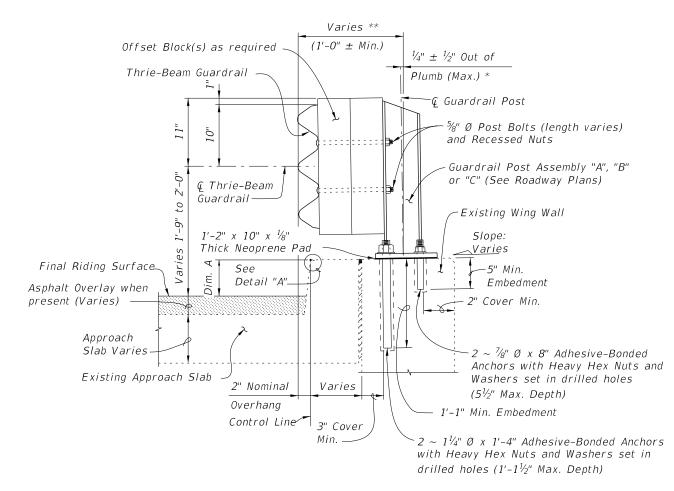
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# SECTION A-A TYPICAL SECTION THRU RAILING ON BRIDGE DECK (Adhesive Anchor Option shown solid, Screw Anchor Option shown dashed)



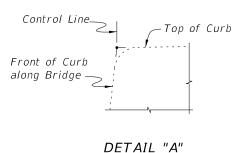


TYPICAL SECTION THRU EXISTING TRAFFIC RAILING SHOWING LIMITS OF REMOVAL (BRIDGE DECK SHOWN, WING WALL SIMILAR)



## SECTION B-B (SCHEME 2) TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB

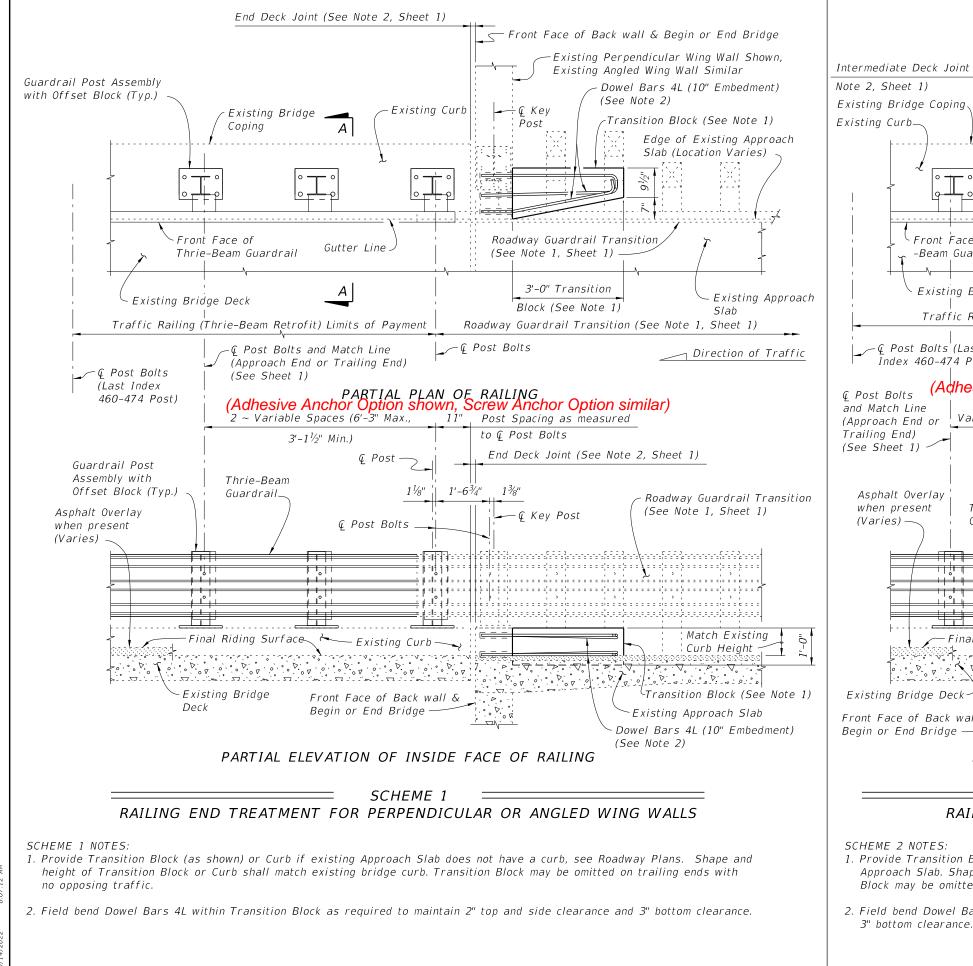
- Shim with washers around Anchor Bolts and Anchors as required to maintain tolerance.
- $^{**}$ Offset may vary  $\pm$  1" for Adhesive-Bonded Anchors to clear existing curb reinforcing and provide minimum edge clearance. Offset shall be consistent along length of bridge.



# CROSS REFERENCES:

For location of Section A-A see Sheet 1 and 3. For location of Section B-B see Sheet 3 For application of Dim. A see Post Dimension Table on Index 460-470, Sheet 3.

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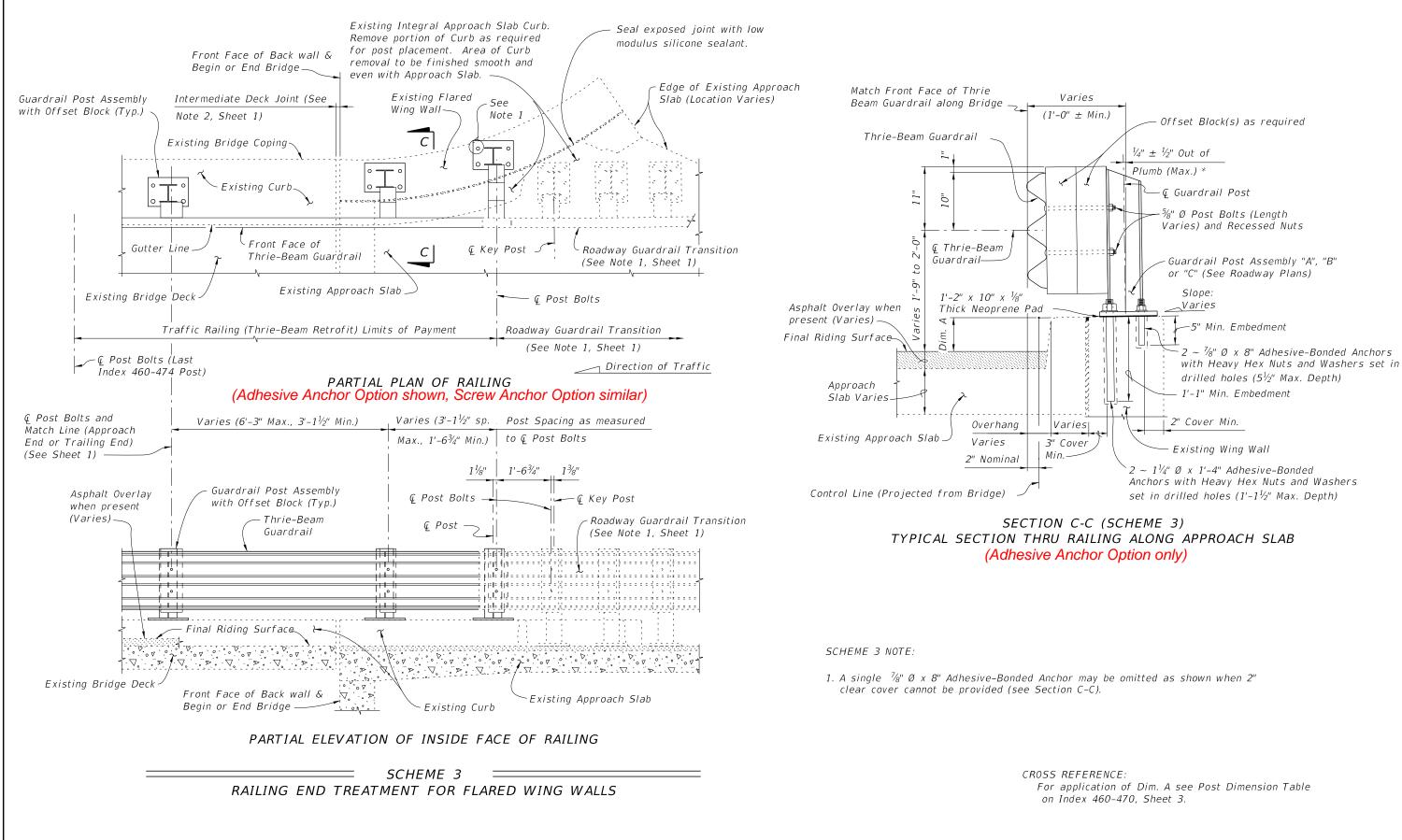
Front Face of Back wall 3'-0" Transition & Begin or End Bridge Block (See Note 1) Intermediate Deck Joint (See Dowel Bars 4L Existing Parallel Wing Wall (10" Embedment) (See Note 2) Existing Bridge Coping. End of Existing Wing Wall-Transition Block (See Note 1) @ Kev. Post -::::;:::::::::::::::::::::::::: Edge of Existing Approach Front Face of Thrie Guardrail Post Assembly Slab (Location Varies) <sup>C</sup>Roadway Guardrail Transitior with Offset Block (Typ.) -Beam Guardrail (See Note 1, Sheet 1) Existing Bridge Deck - Existing Approach Slab € Post Bolts -Traffic Railing (Thrie-Beam Retrofit) Limits of Payment Roadway Guardrail Transition (See Note 1, Sheet 1) © Post Bolts (Last \_\_\_\_ Direction of Traffic Index 460-474 Post) PARTIAL PLAN OF RAILING (Adhesive Anchor Option shown, Screw Anchor Option similar) Varies (6'-3" Max. Varies  $(3'-1\frac{1}{2}'')$  Spacing Max.) 11" Post Spacing as measured to G Post Bolts (Typ. Along Wing Wall)  $3'-1\frac{1}{2}$ " Min.) End of Existing Wing Wall € Key Post — Guardrail Post Assembly with 1 ½" 1'-6¾" Offset Block (Typ.) Roadway Guardrail Transition Thrie-Beam (See Note 1, Sheet 1) @ Post Bolts -Guardrail-Transition Block (See Note 1) : ii =|| ii ii ii = = || = = = || = = = || = = = || = = = || = = = || = = = || = = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || = || : # =|= # # = = =|= = = |: = = |: = = = = |: = = |: . . . . . . . . . . . . . . . . . ....... – Final Riding Surface Existing Bridge Deck-Match Existing Existing Approach Slab Curb Height Front Face of Back wall & - Existing Curb Dowel Bars 4L (10" Begin or End Bridge -Embedment) (See Note 2) PARTIAL ELEVATION OF INSIDE FACE OF RAILING SCHEME 2 RAILING END TREATMENT FOR PARALLEL WING WALLS 1. Provide Transition Block (as shown) or Curb if existing Approach Slab Curb does not extend to end of Approach Slab. Shape and height of Transition Block or Curb shall match existing bridge curb. Transition Block may be omitted on trailing ends with no opposing traffic. 2. Field bend Dowel Bars 4L within Transition Block as required to maintain 2" top and side clearance and

LAST REVISION 01/01/08

DESCRIPTION:

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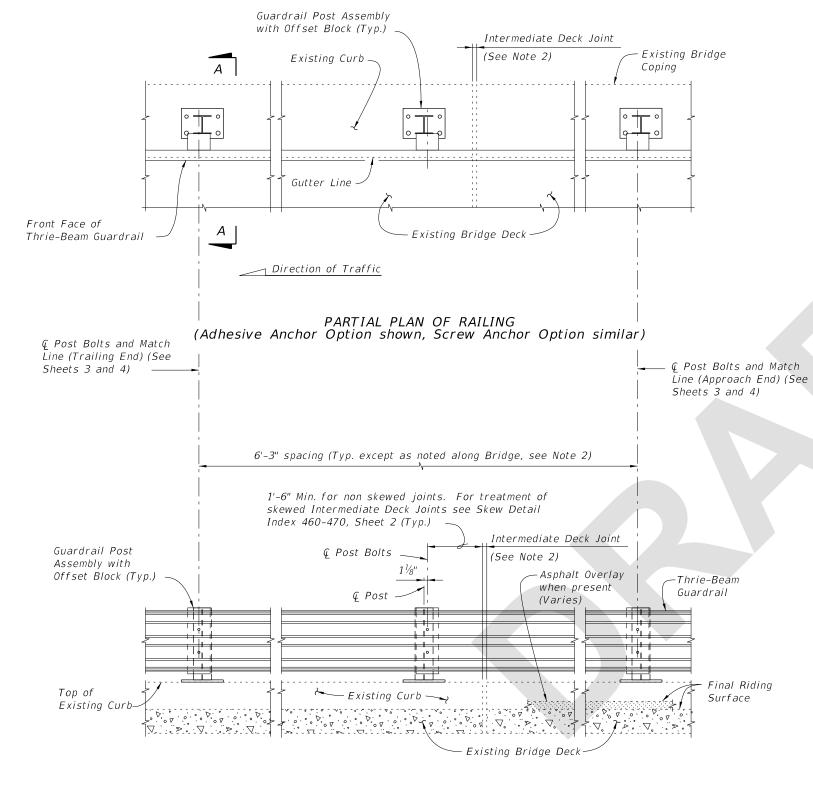
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REVISION 07/01/09

DESCRIPTION:

FDOT



PARTIAL ELEVATION OF INSIDE FACE OF RAILING

== TYPICAL TREATMENT OF RAILING ALONG BRIDGE =====

#### NOTES:

- 1. On approach end provide Index 536-002 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.
- 2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index 460-470, Sheet 2, as required.
- 3. Areas where existing structure has been removed shall match adjoining areas and shall be finished flat by grouting or grinding as required. Exposed existing reinforcing steel shall be burned off 1" below existing concrete and grouted over.

CROSS REFERENCES:

For Match Line see Sheets 3 & 4. For Section A-A see Sheet 2. For Traffic Railing Notes and Details see

Index 460-470.

LAST REVISION 11/01/24

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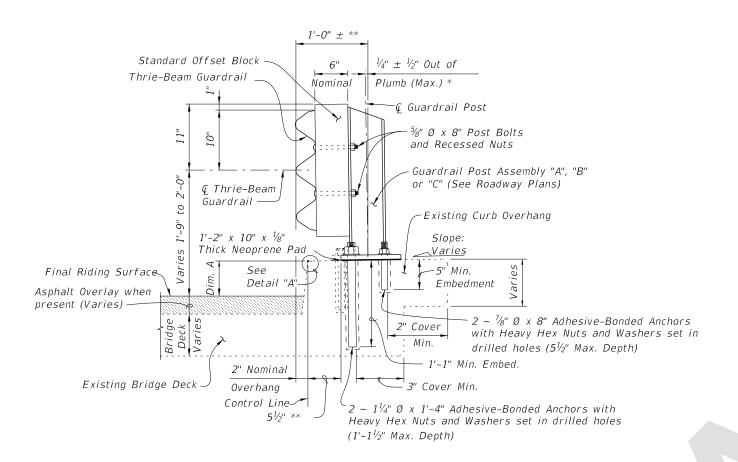
FY 2025-26 STANDARD PLANS

TRAFFIC RAILING - (THRIE-BEAM RETROFIT) INTERMEDIATE CURB

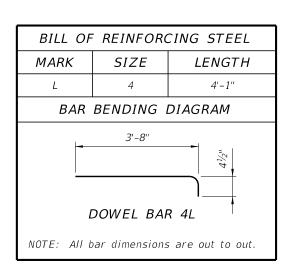
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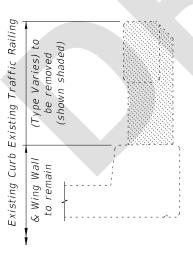
SHEET

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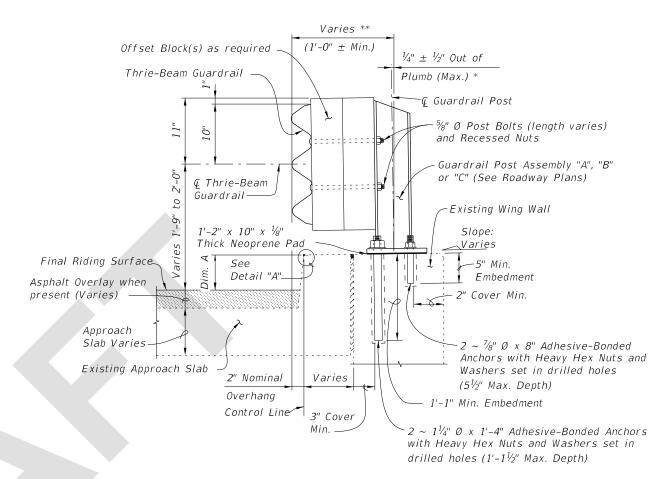


SECTION A-A TYPICAL SECTION THRU RAILING ON BRIDGE DECK (Adhesive Anchor Option shown solid, Screw Anchor Option shown dashed)





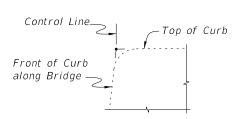
TYPICAL SECTION THRU EXISTING TRAFFIC RAILING SHOWING LIMITS OF REMOVAL (BRIDGE DECK SHOWN, WING WALL SIMILAR)



### SECTION B-B (SCHEME 2) TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB

 $^{^*}$  Shim with washers around Anchor Bolts and Anchors as required to maintain tolerance.

Offset may vary  $\pm$  1" for Adhesive-Bonded Anchors to clear existing curb reinforcing and provide minimum edge clearance. Offset shall be consistent along length of bridge.



DETAIL "A"

CROSS REFERENCES:

For location of Section A-A see Sheet 1 and 3. For location of Section B-B see Sheet 3

For application of Dim. A see Post Dimension Table on Index 460-470, Sheet 3.

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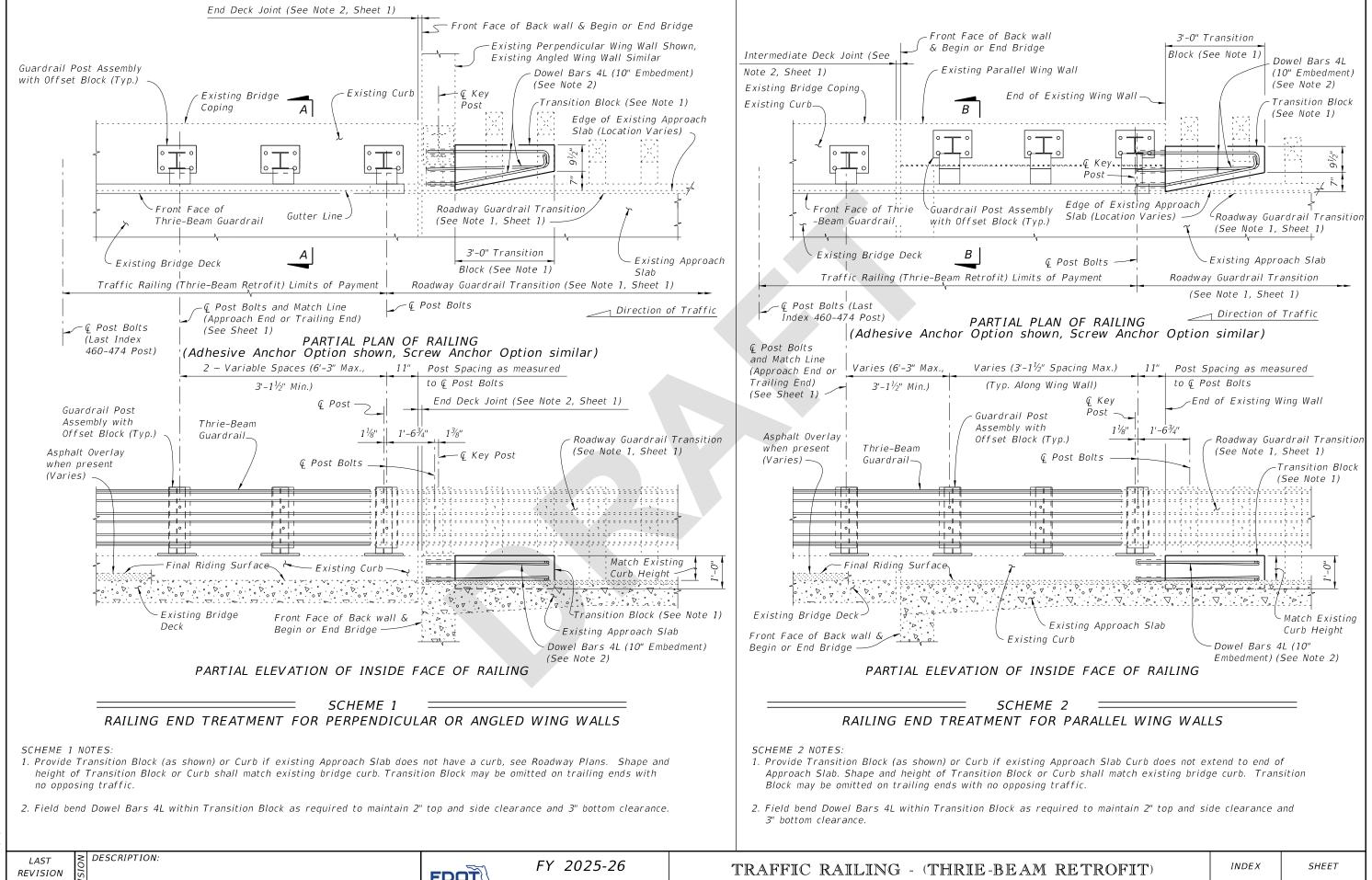
INTERMEDIATE CURB

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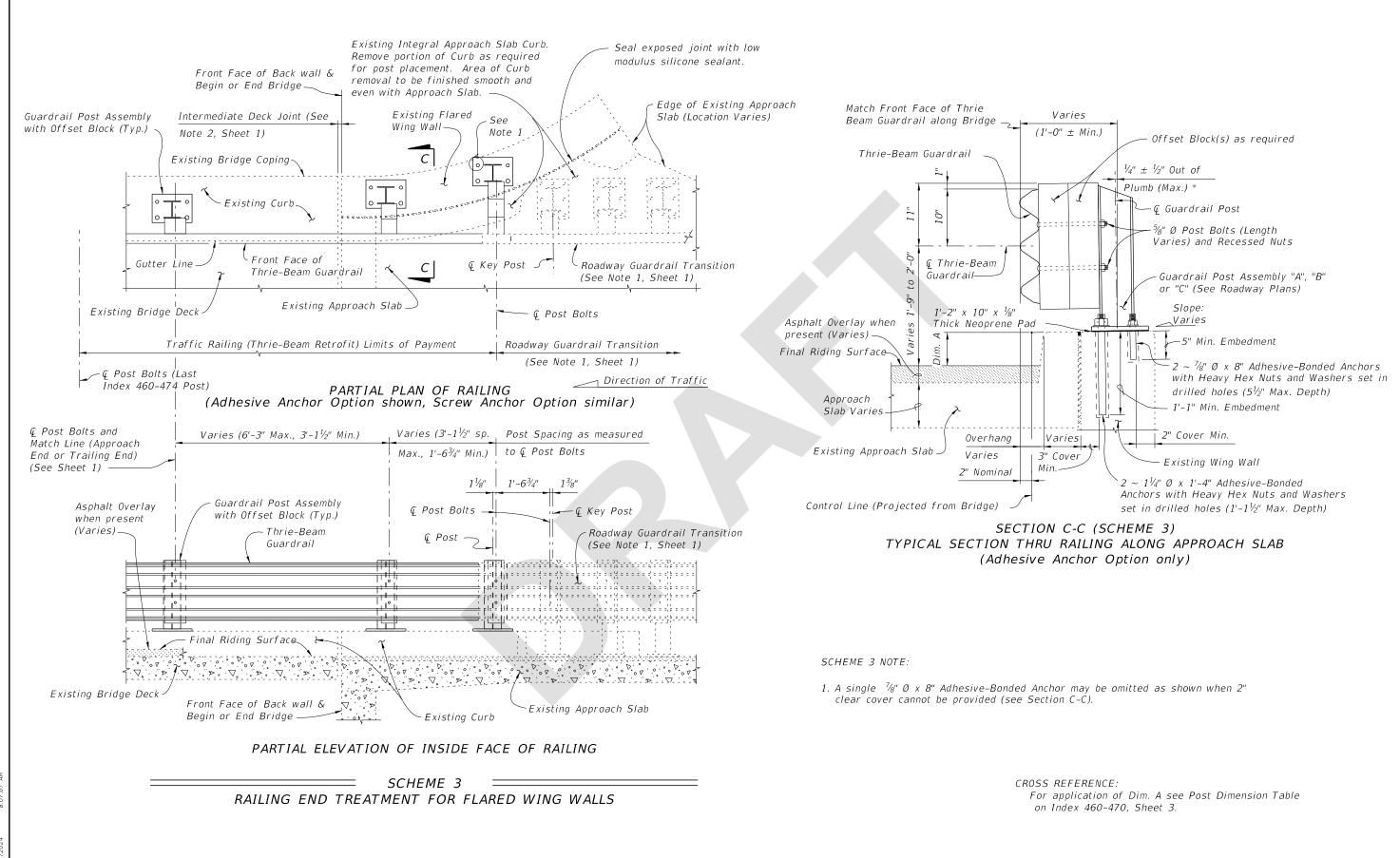
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STANDARD PLANS

INTERMEDIATE CURB

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LAST REVISION 11/01/24 DESCRIPTION:

FDOT

FY 2025-26 STANDARD PLANS

TRAFFIC RAILING - (THRIE-BEAM RETROFIT)
INTERMEDIATE CURB

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