PARTIAL ELEVATION OF INSIDE FACE OF RAILING

TYPICAL TREATMENT OF RAILING ALONG BRIDGE

## NOTES:

- 1. On approach end provide Index No. 402 (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 No. 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.

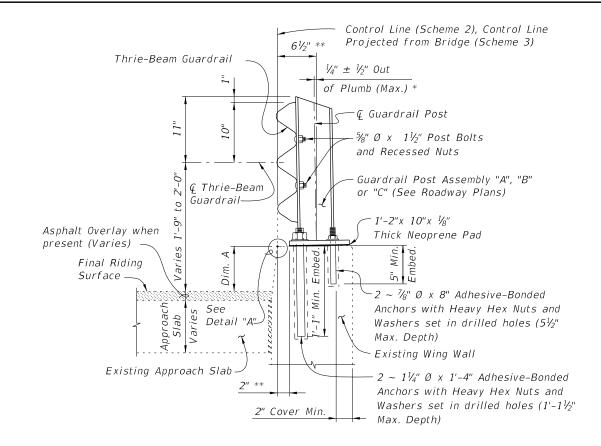
CROSS REFERENCES: For Section A-A see Sheet 2. For Traffic Railing Notes and Details see Index No. 470.

**REVISION** 01/01/08

2016 DESIGN STANDARDS

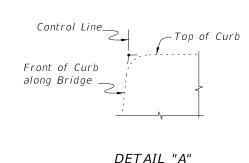
SECTION A-A TYPICAL SECTION THRU RAILING ON BRIDGE DECK

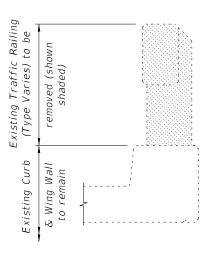
BILL OF REINFORCING STEEL			BAR BENDING DIAGRAMS
MARK	SIZE	LENGTH	4"
Α	4	AS REQUIRED	$\approx$
D	4	1'-11"	1'-2" Note
L	4	4'-1"	1'-2 See No 41%"
Length as Required			<b>Dowel Bar 4D</b> (Standard 180° Hook)
NOTES:  1. All bar dimensions are out to out. 2. The 1'-2" vertical dimension shown for			3'-8"
Bar 4D If curb decreas	is based on a height is less se or increase	mension snown for a curb height of 9". 5 or more than 9", this dimension by he difference in curl	DOWEL BAR 4L



SECTION B-B TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB (SCHEME 2 SHOWN, SCHEME 3 SIMILAR)

- Shim with washers around 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.





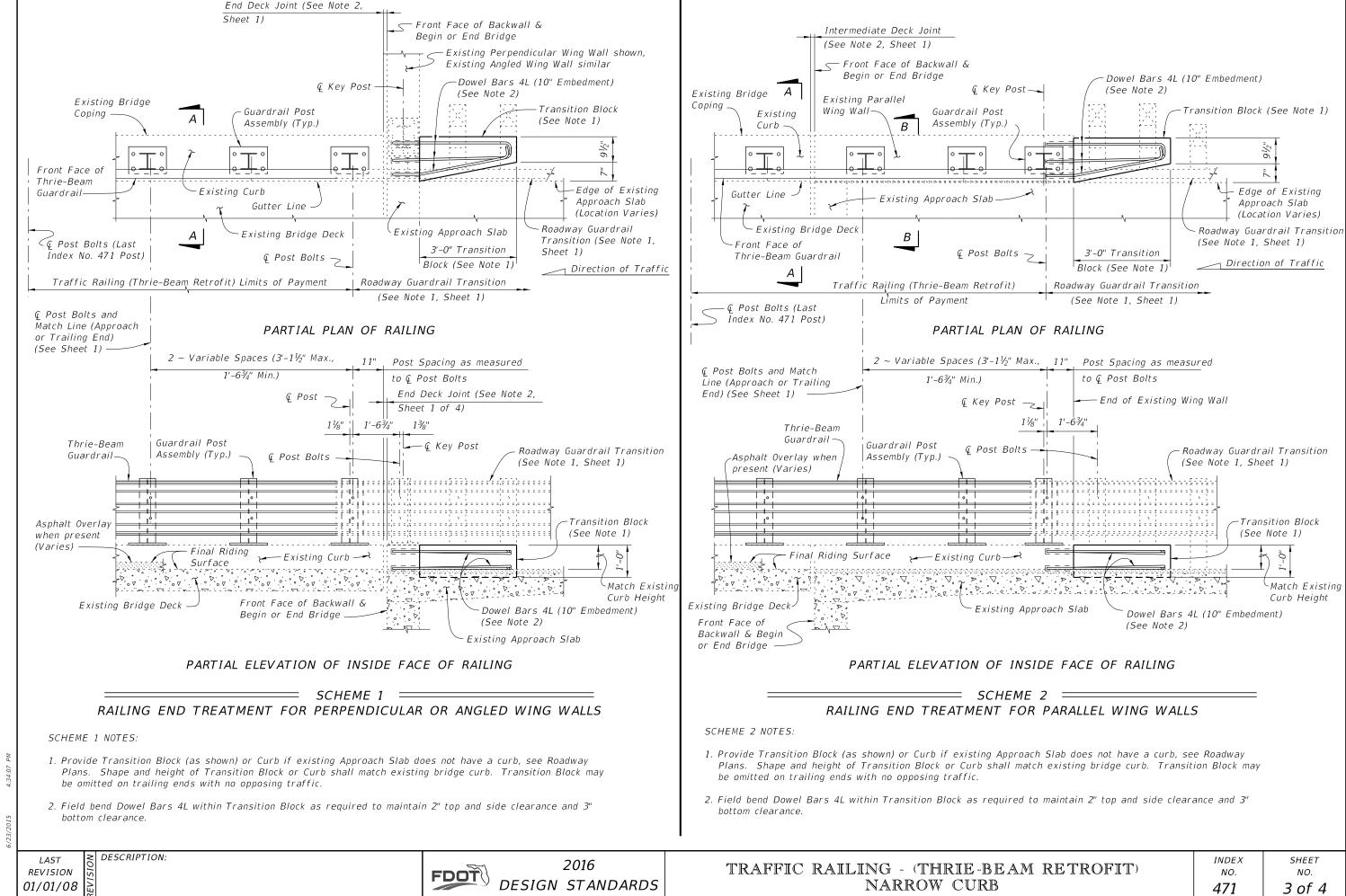
TYPICAL SECTION THRU EXISTING TRAFFIC RAILING SHOWING LIMITS OF REMOVAL (BRIDGE DECK SHOWN, WING WALL SIMILAR)

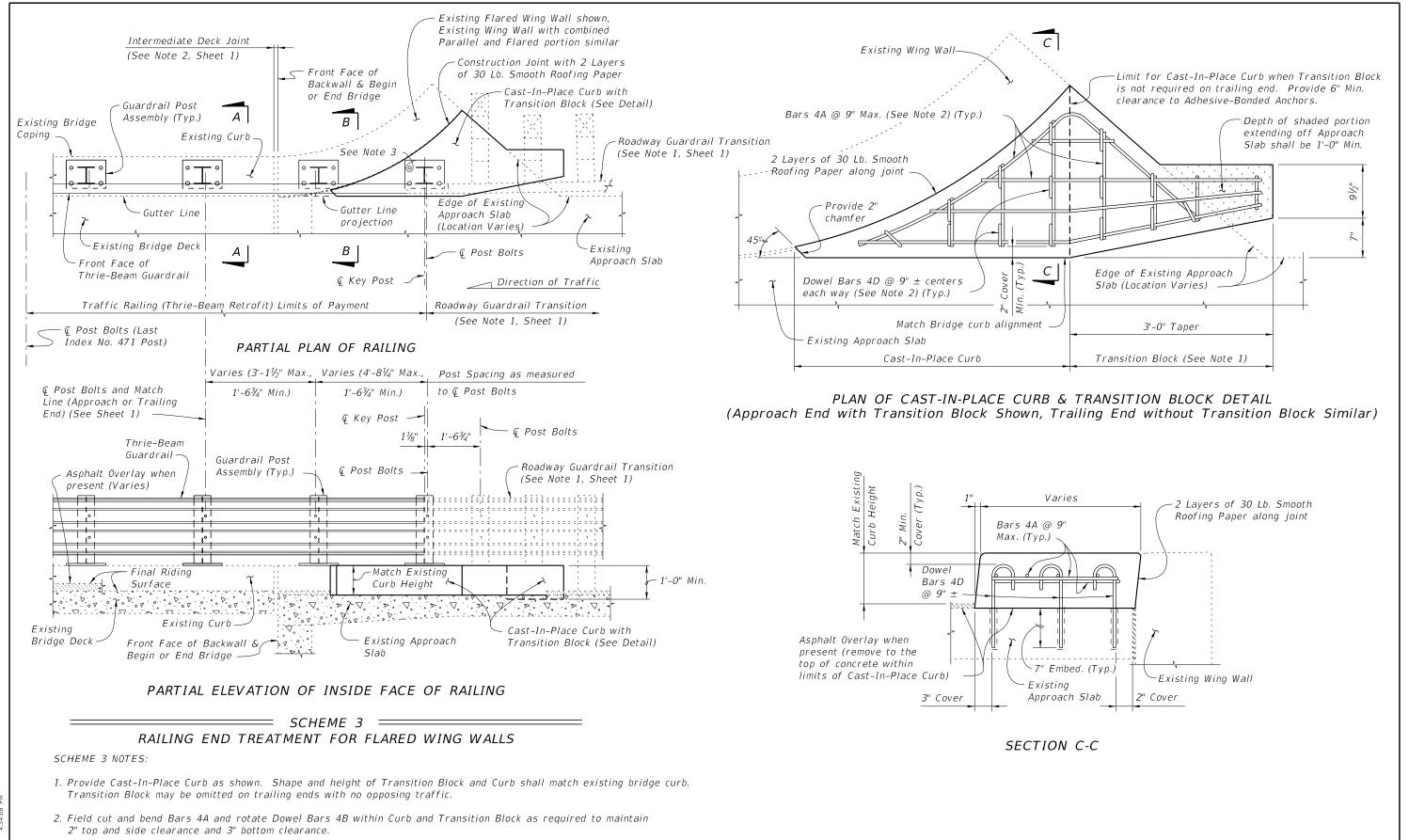
## CROSS REFERENCES:

For location of Section A-A see Sheets 1, 3 & 4. For location of Section B-B see Sheets 3 & 4. For application of Dim. A see Post Dimension Table on Index 470, Sheet 3.

DESCRIPTION: **REVISION** 01/01/08

2016 DESIGN STANDARDS TRAFFIC RAILING - (THRIE-BEAM RETROFIT)





6/23/2013

LAST DESCRIPTION:
REVISION US DESCRIPTION:

3. A single  $\frac{7}{8}$  Ø x 8" Adhesive-Bonded Anchor may be omitted as shown when 2" clear cover cannot be provided.



TRAFFIC RAILING - (THRIE-BEAM RETROFIT)
NARROW CURB

0.04.00