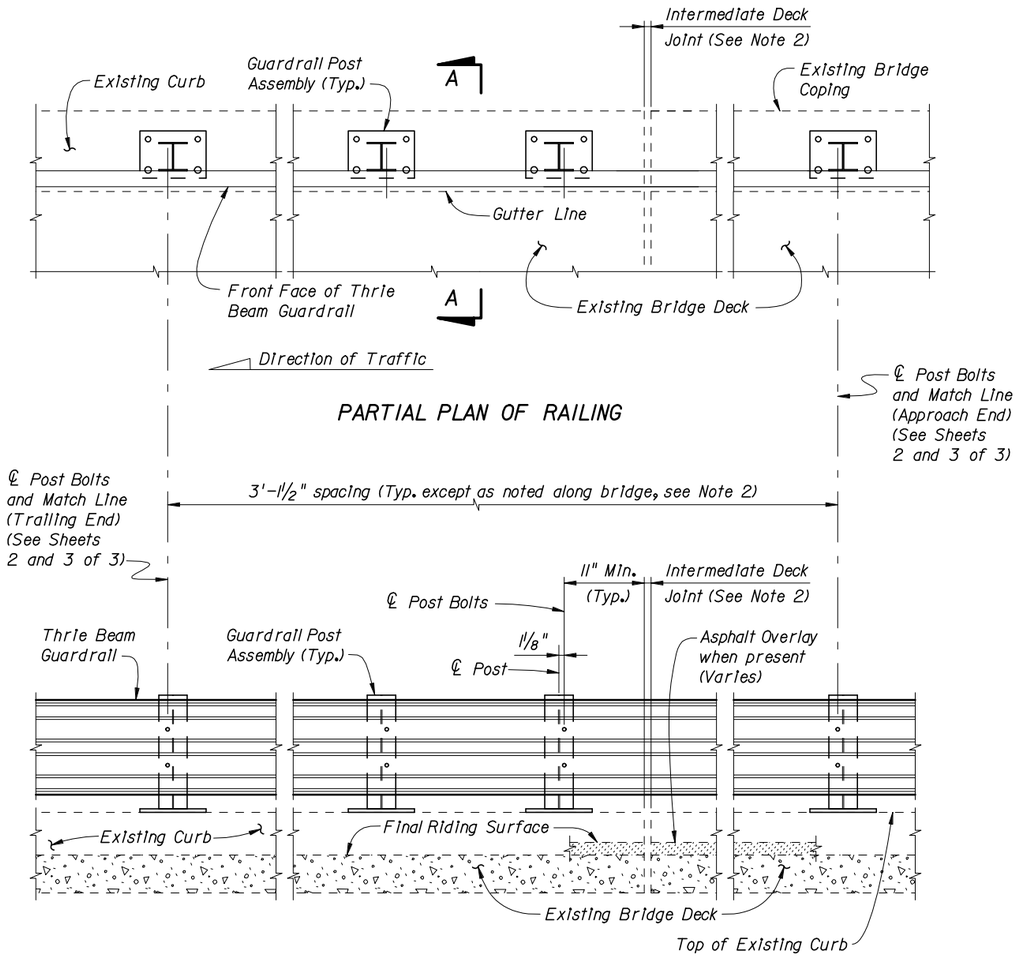



PARTIAL PLAN OF RAILING

PARTIAL ELEVATION OF INSIDE FACE OF RAILING

## TYPICAL TREATMENT OF RAILING ALONG BRIDGE

NOTES:

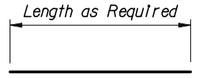
1. On approach end provide Index No. 402 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.
2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index No. 470, Sheet 1 of 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 location of Section B-B see Index No. 471, Sheets 2 & 3 of 3.
For Traffic Railing Notes and Details see Index No. 470.

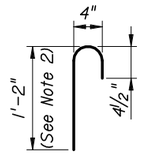
## BILL OF REINFORCING STEEL

| MARK | SIZE | LENGTH |
|---|---|---|
| A | 4 | AS REQUIRED |
| D | 4 | 1'-11" |
| L | 4 | 4'-1" |

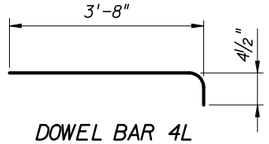
## BAR BENDING DIAGRAMS




BAR 4A

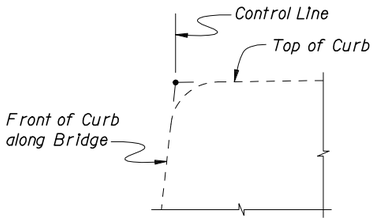



Dowel Bar 4D
(Standard 180° Hook)

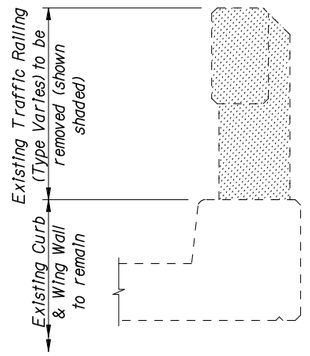



DOWEL BAR 4L

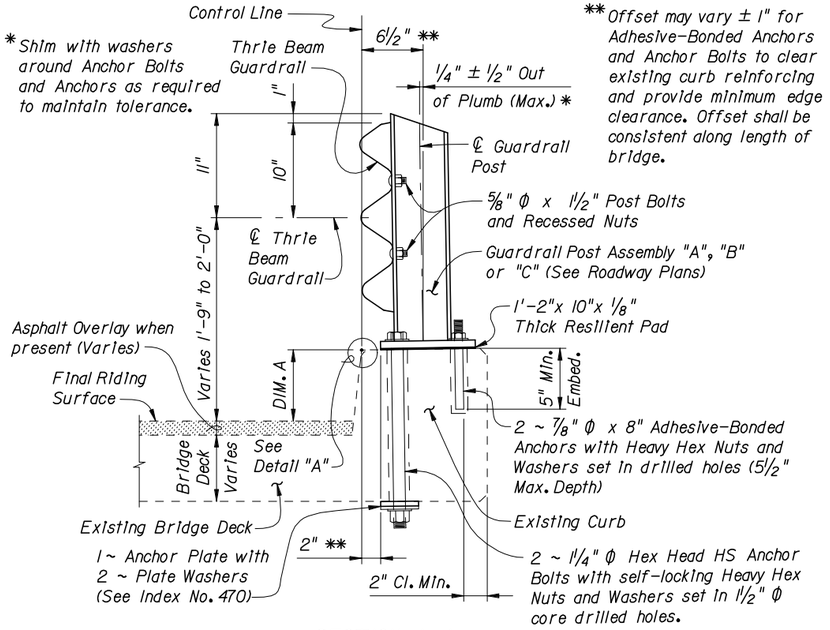
NOTES:
1. All bar dimensions are out to out.
2. The 1'-2" vertical dimension shown for Bar 4D is based on a curb height of 9". If curb height is less or more than 9", decrease or increase this dimension by an amount equal to the difference in curb height.



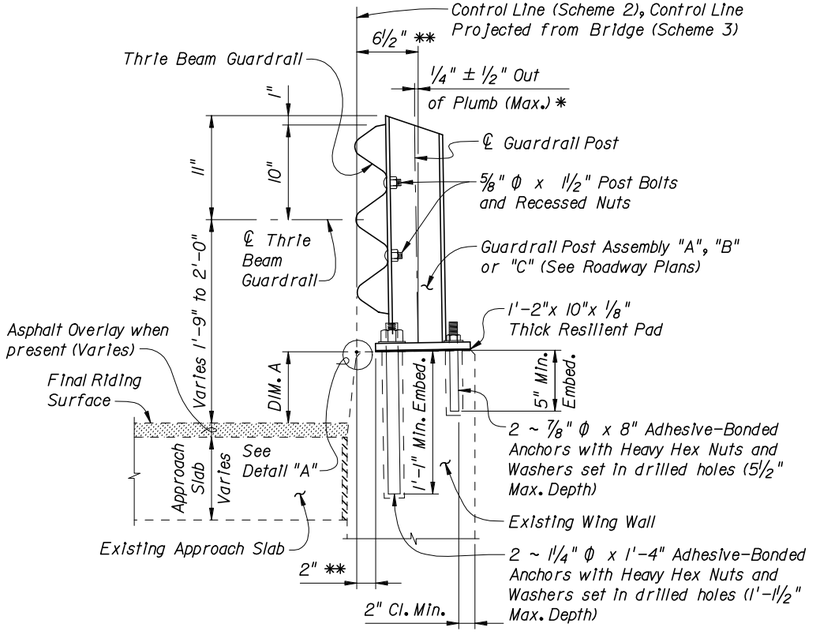

DETAIL "A"




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




SECTION A-A
TYPICAL SECTION THRU RAILING ON BRIDGE DECK




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

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# TRAFFIC RAILING - (THRIE BEAM RETROFIT) NARROW CURB

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| 07/01/05 | 1 of 3 |

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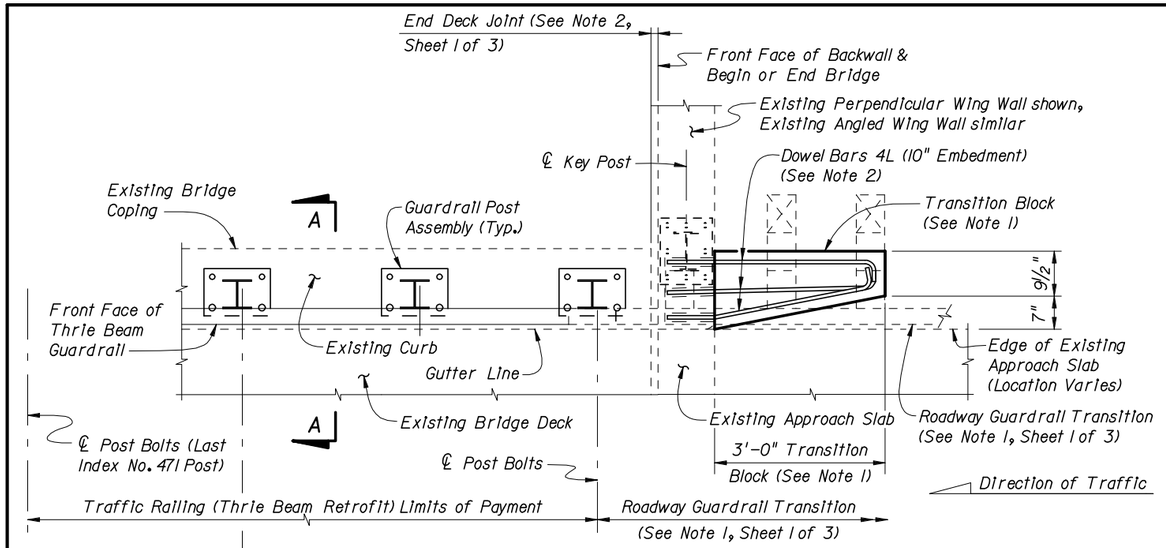
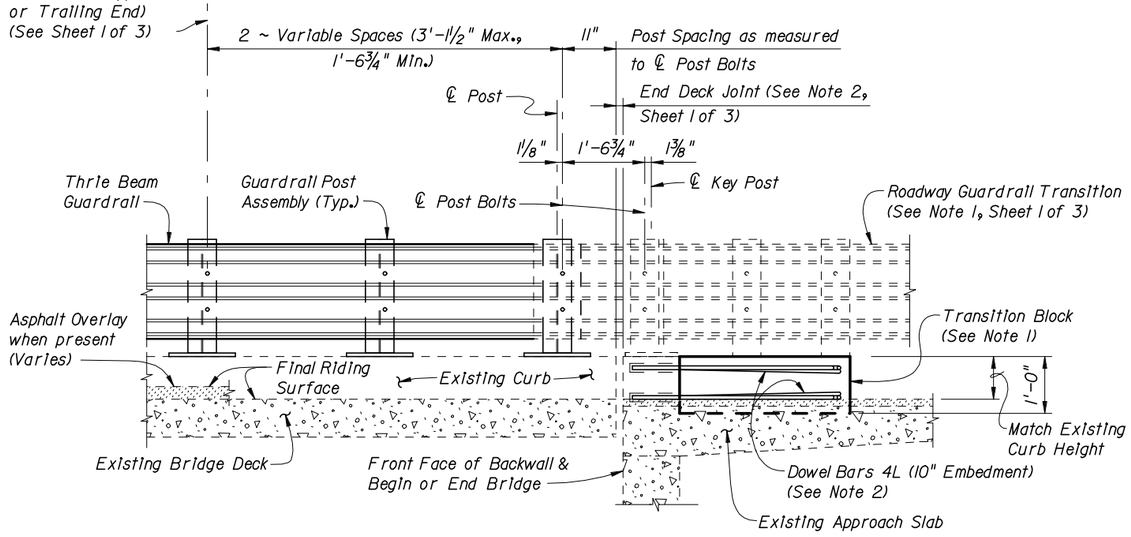



PARTIAL PLAN OF RAILING



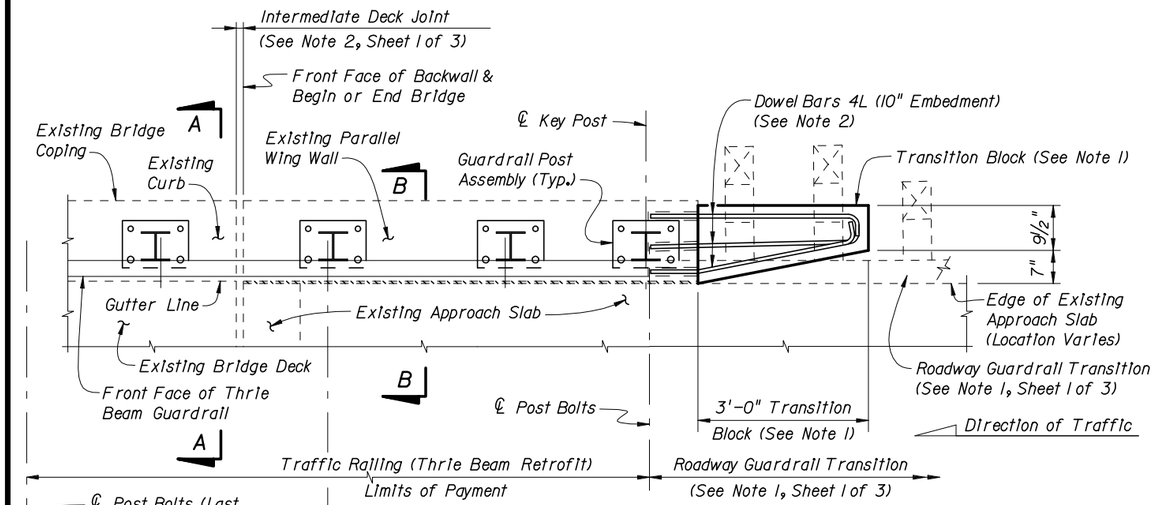

PARTIAL ELEVATION OF INSIDE FACE OF RAILING

## SCHEME 1
## RAILING END TREATMENT FOR PERPENDICULAR OR ANGLED WING WALLS

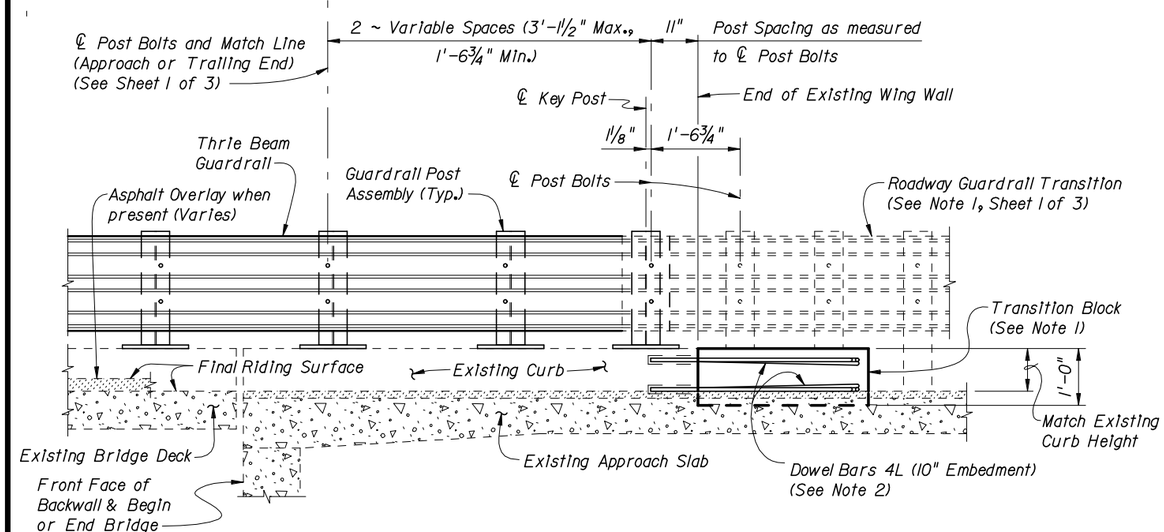
SCHEME 1 NOTES:

1. Provide Transition Block (as shown) or Curb if existing Approach Slab does not have a curb, see Roadway Plans. 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 3" bottom clearance.




PARTIAL PLAN OF RAILING




PARTIAL ELEVATION OF INSIDE FACE OF RAILING

## SCHEME 2
## RAILING END TREATMENT FOR PARALLEL WING WALLS

SCHEME 2 NOTES:

1. Provide Transition Block (as shown) or Curb if existing Approach Slab does not have a curb, see Roadway Plans. 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 3" bottom clearance.

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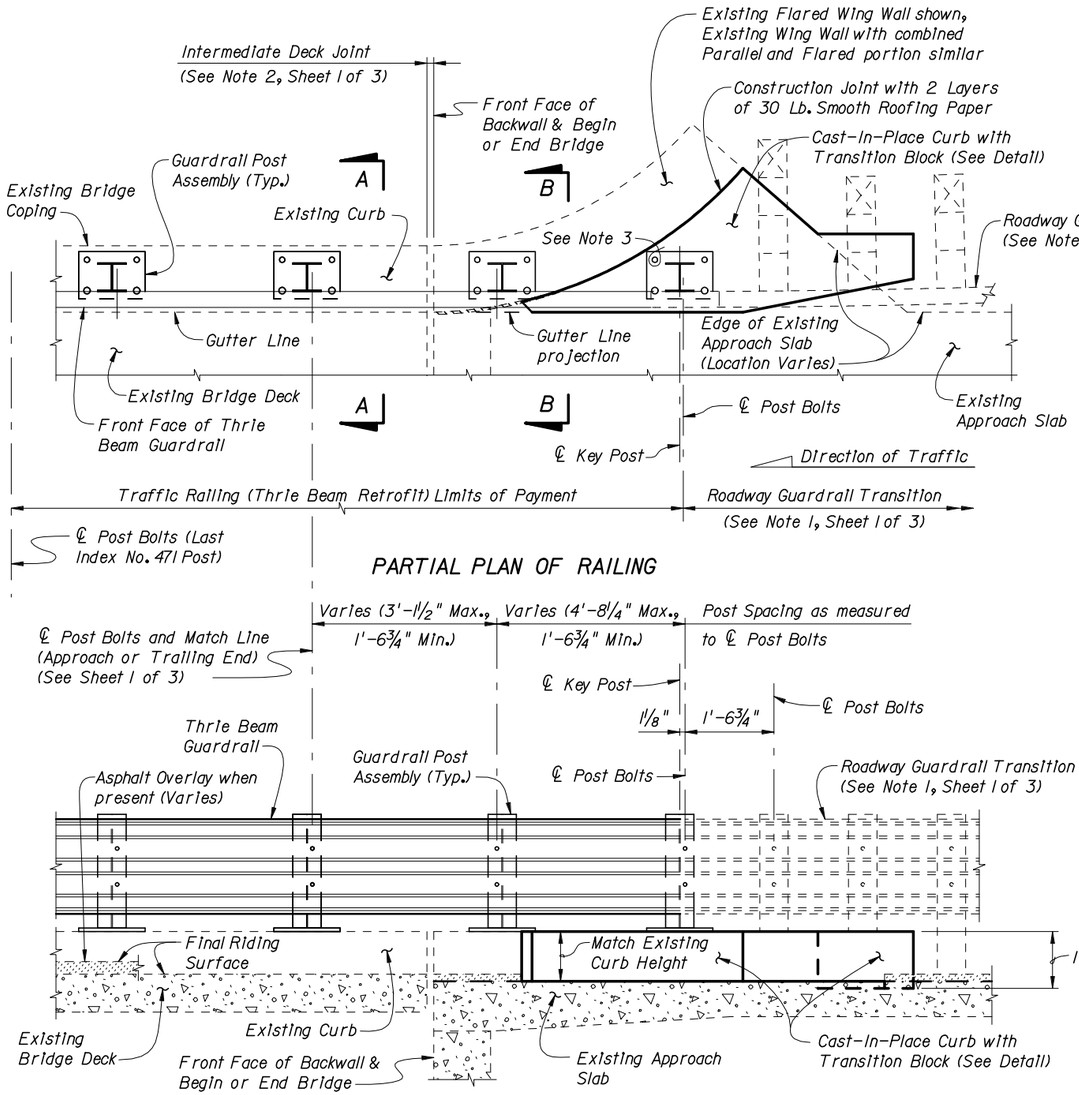
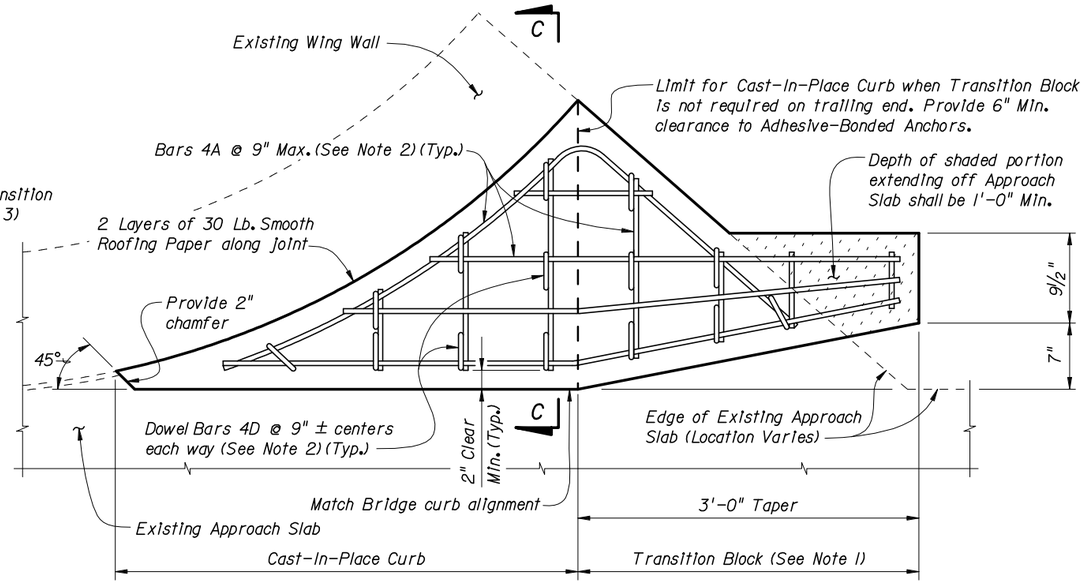
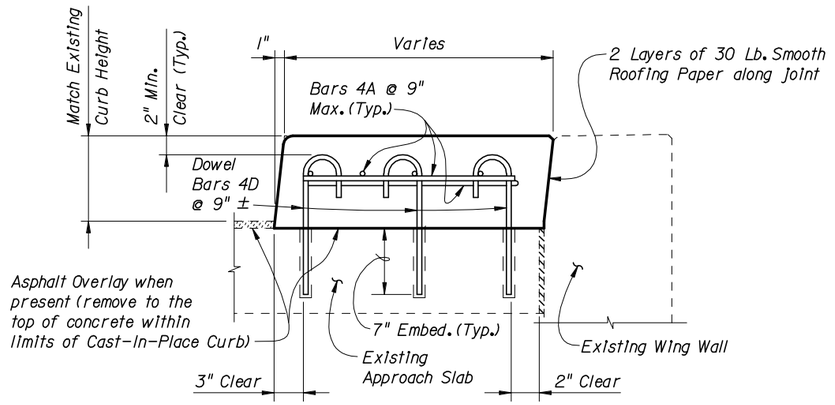



PARTIAL PLAN OF RAILING

PARTIAL ELEVATION OF INSIDE FACE OF RAILING




PLAN OF CAST-IN-PLACE CURB & TRANSITION BLOCK DETAIL
(Approach End with Transition Block Shown, Trailing End without Transition Block Similar)




SECTION C-C

## SCHEME 3
## RAILING END TREATMENT FOR FLARED WING WALLS

SCHEME 3 NOTES:

1. Provide Cast-In-Place Curb as shown. Shape and height of Transition Block and Curb shall match existing bridge curb. Transition Block may be omitted on trailing ends with no opposing traffic.

2. Field cut and bend Bars 4A and rotate Dowel Bars 4B within Curb and Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.

3. A single 7/8" Φ x 8" Adhesive-Bonded Anchor may be omitted as shown when 2" clear cover cannot be provided.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

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# TRAFFIC RAILING - (THRIE BEAM RETROFIT) NARROW CURB

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