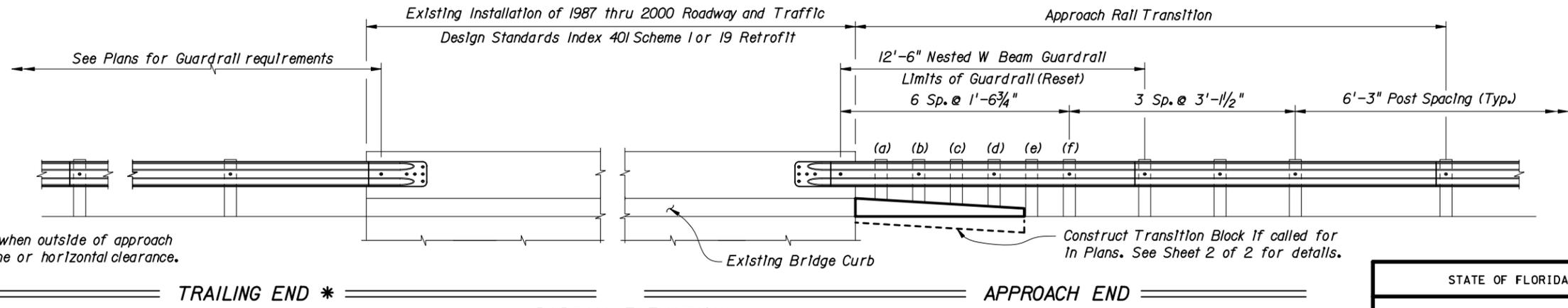
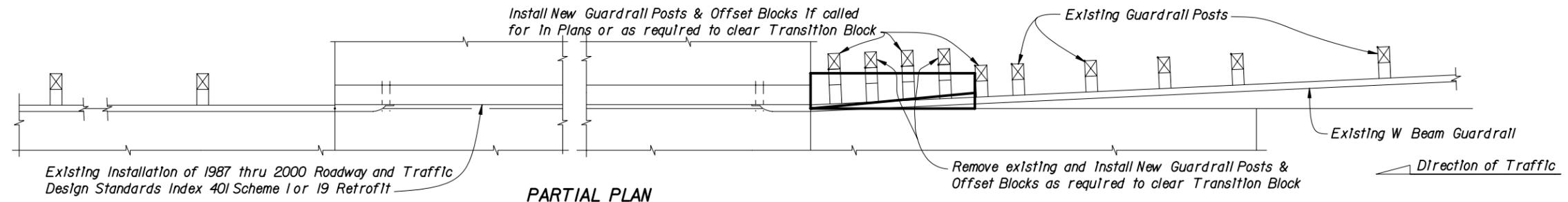


**Notes:**  
Do not bolt nested W Beam to Posts and Offset Blocks at Posts (a), (c) & (e), (Typ.)

**PARTIAL ELEVATION  
W-BEAM BRIDGE TRAFFIC RAILING RETROFITS**



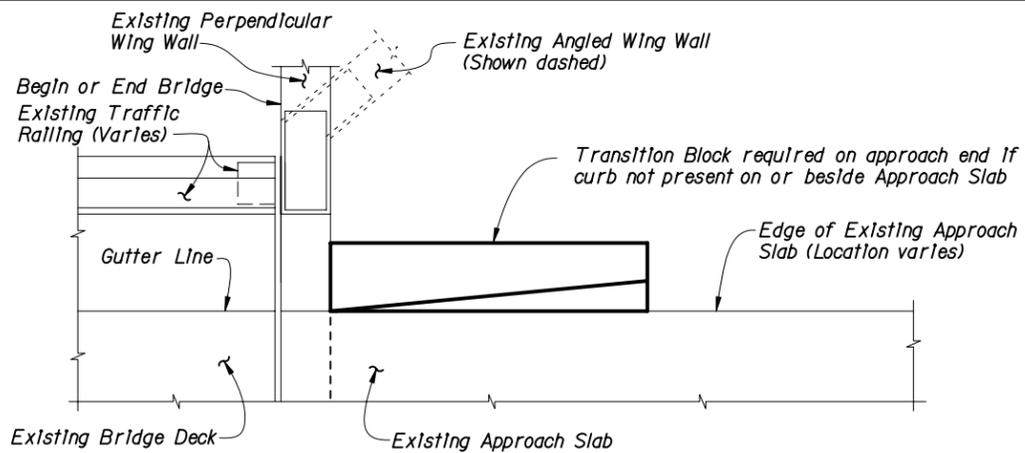
\* For use when outside of approach clear zone or horizontal clearance.

**PARTIAL ELEVATION  
VERTICAL FACE BRIDGE TRAFFIC RAILING RETROFITS**

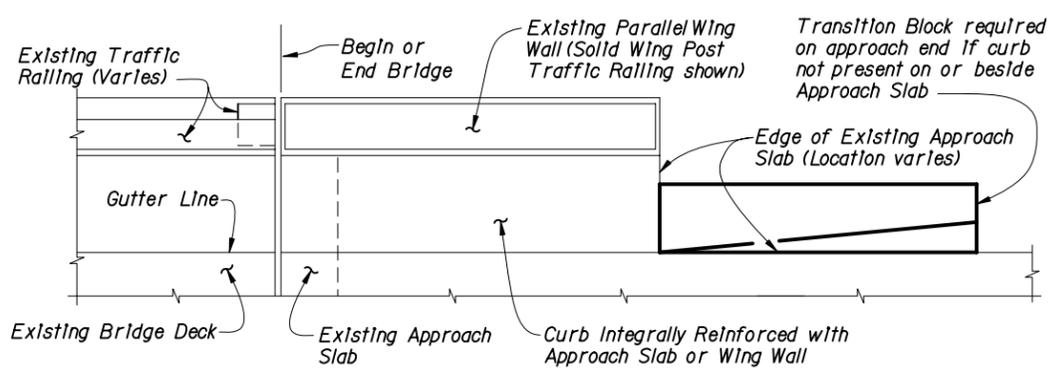
INTERIM STANDARD IN ENGLISH UNITS  
APPLICABLE TO DESIGN STANDARDS  
BOOKLET PUBLISHED IN ENGLISH UNITS.

Date: 07-01-05

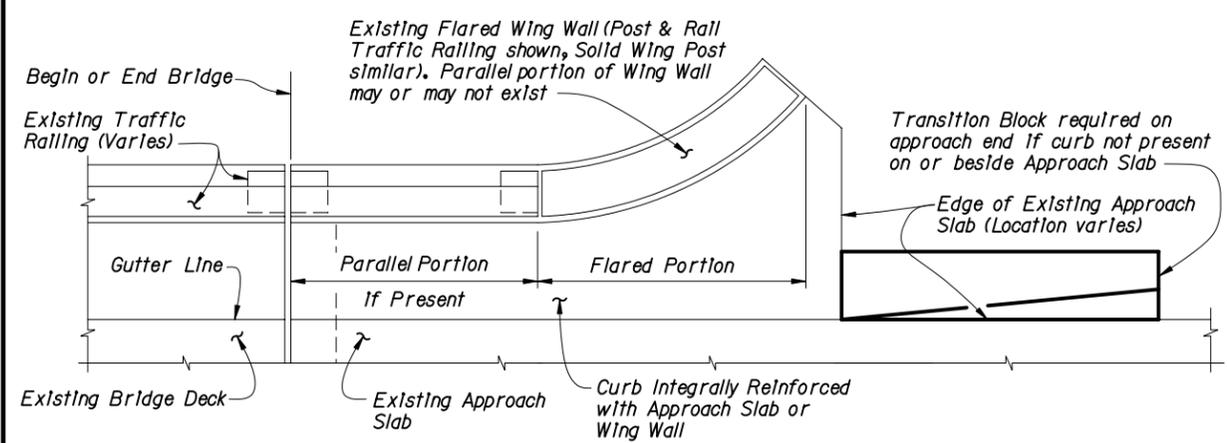
|  |   |                         |
|--|---|-------------------------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION                                  |   |                         |
| <b>GUARDRAIL TRANSITIONS FOR EXISTING BRIDGE TRAFFIC RAILING RETROFITS</b>     |   |                         |
| INTERIM STANDARD   | APPROVED BY<br><i>Ben Blum</i><br>State Roadway Design Engineer |                         |
| THIS INDEX IS A SUPPLEMENT TO THE DESIGN STANDARDS BOOKLET DATED JANUARY 2004. | REVISION NO.<br>2005  | SHEET NO.<br>1 of 2     |
|  |   | INDEX NO.<br><b>403</b> |



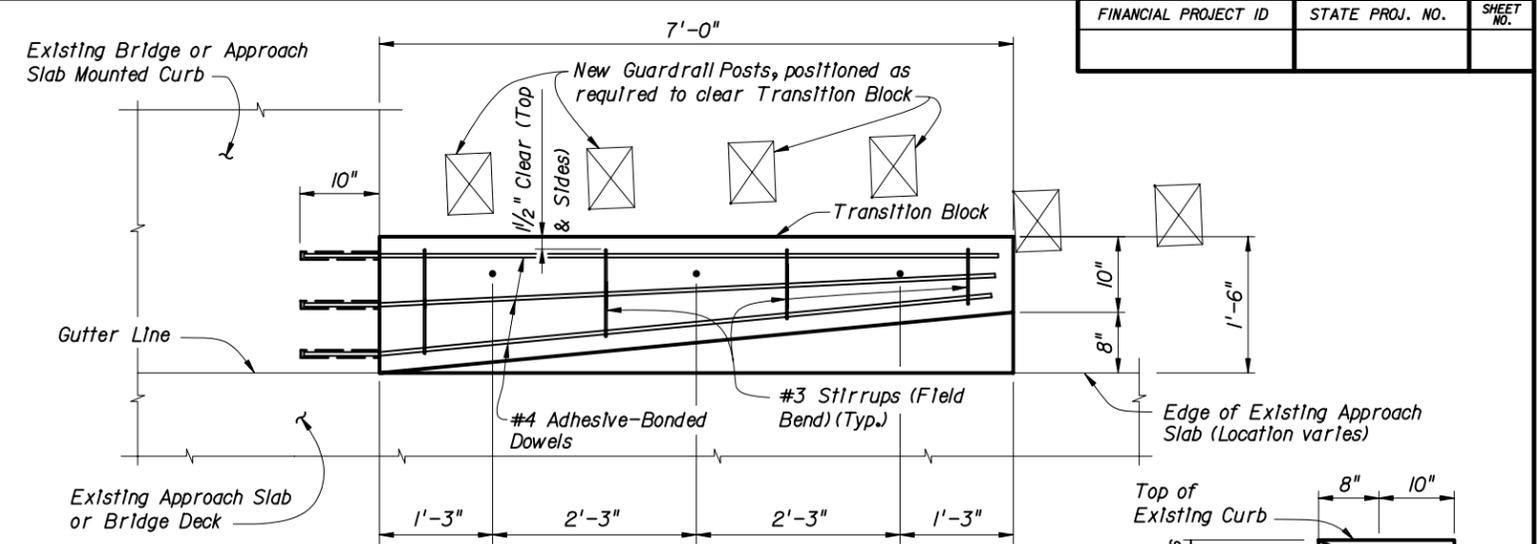
**PARTIAL PLAN VIEW OF EXISTING BRIDGE WITH PERPENDICULAR OR ANGLED WING WALLS**



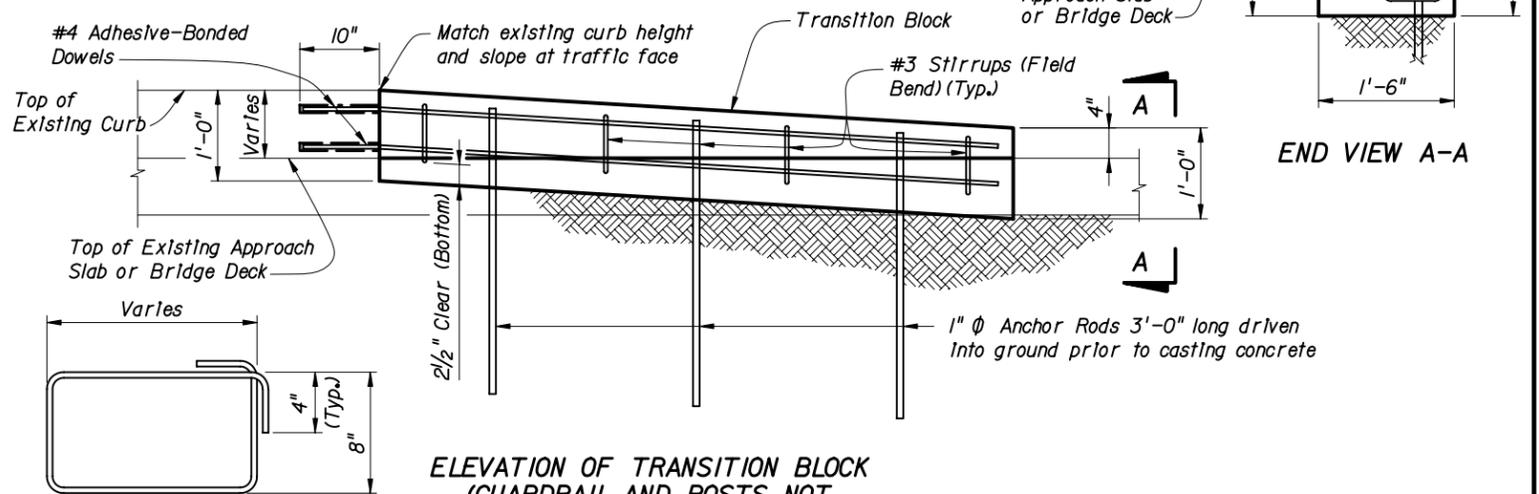
**PARTIAL PLAN VIEW OF EXISTING BRIDGE WITH PARALLEL WING WALLS AND INTEGRALLY REINFORCED APPROACH SLAB CURBS (APPROACH SLAB WITH DETACHED CURBS OR SIDEWALK SIMILAR)**



**PARTIAL PLAN VIEW OF EXISTING BRIDGE WITH FLARED WING WALLS AND PARALLEL INTEGRALLY REINFORCED APPROACH SLAB CURBS (APPROACH SLAB WITH DETACHED CURBS OR SIDEWALK SIMILAR)**



**PLAN VIEW OF TRANSITION BLOCK (GUARDRAIL NOT SHOWN FOR CLARITY)**



**ELEVATION OF TRANSITION BLOCK (GUARDRAIL AND POSTS NOT SHOWN FOR CLARITY)**

**#3 STIRRUP (FIELD BEND)**

**NOTES:**

**CONCRETE:** Concrete for Transition Blocks shall be Class II (Miscellaneous).

**REINFORCING STEEL:** Reinforcing steel shall be ASTM A615, Grade 60.

**ANCHOR RODS:** Steel Anchor Rods shall be ASTM A36, ASTM A709 Grade 36 or ASTM A615 Grade 60 hot dip galvanized in accordance with Specification Section 962.

**W BEAM GUARDRAIL:** Guardrail components and installation shall be in accordance with Design Standards Index 400.

**ADHESIVE-BONDED DOWELS:** Adhesive Bonding Material Systems for Dowels shall comply with Specification Section 937 and be installed in accordance with Specification Section 416.

Adhesive Bonded Dowels are shown installed in an existing curb or sidewalk integrally reinforced with Approach Slab, Wingwall or Bridge Deck. For installations in existing detached curbs or sidewalks, install dowels in available sound concrete.

**PAYMENT:** Payment for Guardrail work will be made under Pay Item Guardrail (Reset) (LF). Payment for Transition Block will be made under Pay Items Concrete Class II (Miscellaneous) (CY) and Reinforcing Steel (Roadway) (LB).

| ESTIMATED QUANTITIES              |      |          |
|-----------------------------------|------|----------|
| ITEM                              | UNIT | QUANTITY |
| Concrete Class II (Miscellaneous) | CY.  | 0.4      |
| Reinforcing Steel (Roadway)       | LB.  | 61       |
| Guardrail (Reset)                 | LF.  | 12.5     |

INTERIM STANDARD IN ENGLISH UNITS APPLICABLE TO DESIGN STANDARDS BOOKLET PUBLISHED IN ENGLISH UNITS.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

**GUARDRAIL TRANSITIONS FOR EXISTING BRIDGE TRAFFIC RAILING RETROFITS**

INTERIM STANDARD

APPROVED BY: *Ben Blum*  
State Roadway Design Engineer

THIS INDEX IS A SUPPLEMENT TO THE DESIGN STANDARDS BOOKLET DATED JANUARY 2004.

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Date: 07-01-05