

THE DIMENSIONS SHOWN IN THESE DETAILS ARE BASED ON ORIGINAL CONSTRUCTION RECORDS. THE EXISTING BRIDGE DIMENSIONS, ESPECIALLY THE CURB HEIGHT AND CURB LENGTH, SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE FABRICATION AND LAYOUT OF ANY COMPONENTS.

THRIE BEAM RETROFIT NOTES:

- BID ITEMS AND UNITS TO BID:
GUARDRAIL THRIE BEAM - LF
THRIE BEAM TO W BEAM CONNECTOR - EACH
GUARDRAIL-STEEL W BEAM-S FACE A - LF

PAYMENT AT THE UNIT BID PRICES SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, AND INCIDENTALS NEEDED TO COMPLETE THE WORK AS SHOWN IN THESE DETAILS AND ACCORDING TO THE PROPOSAL NOTES.

DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONING OF THE PART, INCLUDING ITS APPEARANCE AND ACCEPTED MANUFACTURING PRACTICES. THE SAME TYPE OF RAIL ELEMENT, POST, FASTENINGS AND ACCESSORIES SHALL BE USED THROUGHOUT THE WORK.

IF REINFORCING IS ENCOUNTERED DURING DRILLING FOR ANCHORS, GROUT AND MAKE APPROPRIATE ADJUSTMENTS.

GUARDRAIL THRIE BEAM: This item includes the Thrie Beam guardrail, guardrail posts and base plates, hardware, labor, and incidentals necessary to properly install the thrie beam guardrail along the existing bridge structure. For thrie beam guardrail components, refer to Standard Drawing RBR-100-07.

THRIE BEAM TO W BEAM CONNECTOR: This item includes the Thrie Beam to W Beam Connector, guardrail posts and base plates, hardware, labor, and incidentals necessary to properly install the connector between the Thrie Beam and W-Beam guardrail. For details on the Thrie Beam to W Beam Connector refer to Standard Drawing RBR-005-11.

GUARDRAIL-STEEL W BEAM (SINGLE FACE A): This item includes the W-Beam guardrail (2 ply for extra strength), guardrail posts, offset blocks, hardware, labor, and incidentals necessary to properly install the approach guardrail within the 25'-0" limits at each corner of the structure. For details on the guardrail components, offset blocks, and posts, refer to the Standard Drawings RBR-001-12, RBR-005-11, and RBR-015-05.

These notes spell out the various bid items related to the Thrie Beam Retrofit and what is included.

REMOVAL OF EXISTING ALUMINUM HANDRAIL:

- BID ITEM AND UNIT TO BID:
REMOVE HANDRAIL - LS

PAYMENT AT THE UNIT BID PRICE SHALL INCLUDE ALL MATERIALS, TOOLS, LABOR, AND INCIDENTALS NEEDED TO REMOVE THE EXISTING ALUMINUM HANDRAIL AND ALUMINUM HANDRAIL SUPPORTS, AND TO CUT OFF THE EXISTING ANCHOR BOLTS FLUSH WITH THE EXISTING CONCRETE PARAPET WALL.

ALL ALUMINUM HANDRAIL AND HANDRAIL SUPPORTS SHALL BE DELIVERED TO THE SCOTT COUNTY MAINTENANCE LOT. DELIVERY SHALL BE INCIDENTAL TO THE BID ITEM "REMOVE HANDRAIL". THE CONTRACTOR IS TO TAKE CARE NOT TO DAMAGE THE EXISTING ALUMINUM HANDRAIL OR THE ALUMINUM HANDRAIL SUPPORTS DURING THE REMOVAL AND DELIVERY PROCESS.

COORDINATE DELIVERY OF THE ALUMINUM HANDRAIL AND HANDRAIL SUPPORTS WITH THE SCOTT CO. BRIDGE CREW FOREMAN, DARREN JACKSON (TELEPHONE: 859-227-3180)

STEEL POST ANCHORAGE AND BASE PLATE NOTES:

1. ALL MATERIAL, LABOR, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. MATERIAL SPECIFICATIONS:
 - STEEL SHAPES AND PLATES: ASTM A 36 OR ASTM A 992
 - BOLTS, NUTS, AND WASHERS (UNLESS OTHERWISE NOTED): ASTM A 307 AND STD. SPEC. SECT. 813.09.
 - RESIN BONDED ANCHORS (ALL THREAD): ASTM A 193 GRADE B7, OR ASTM A 449
3. ALL STEEL POSTS AND PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 AFTER FABRICATION. BOLTS AND HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
(NOTE: THE ZINC PLATED WEDGE ANCHORS WILL NOT HAVE TO BE GALVANIZED.)
4. ALL BOLT HOLES SHALL BE $\frac{3}{16}$ " LARGER THAN THE BOLT DIAMETER UNLESS OTHERWISE SPECIFIED. USE TEMPLATE TO LOCATE HOLES IN CONCRETE. BOLT LENGTHS NOT SHOWN SHALL BE SIZED TO PROVIDE A $\frac{1}{4}$ " MIN. OF THREAD EXPOSED BEYOND THE NUT.

You could modify this section to show the bid item "Remove Concrete Masonry - CU Yd" as well as discuss that a saw cut is required and shall be incidental to "Remove Concrete Masonry"

BRIDGE RAIL - THRIE BEAM RETROFIT

COUNTY:	Fayette
ROUTE:	KY 4 (New Circle Road)
CROSSING:	