



- GENERAL NOTES**
- BRIDGE RAIL T101 SHALL NOT BE USED ON NATIONAL HIGHWAY SYSTEMS.
  - BRIDGE RAIL T101 WAS SUCCESSFULLY CRASHED TESTED FOR NCHRP 350 (@ HEIGHT OF 2'-3"), TL-3 PER FHWA MAY 30, 1997 MEMORANDUM. USE OF THIS SYSTEM SHALL BE FOR POSTED SPEEDS ≤ 45 mph.
  - ITEM 563.3, BRIDGE RAIL T101, SHALL INCLUDE POSTS, BASE PLATES, ANCHOR PLATES, ANCHOR STUDS, PREFORMED PADS, RAIL ASSEMBLY BOLTS, NUTS, WASHERS, STRUCTURAL TUBING, SPLICE BARS, PIPE SLEEVES AND W-BEAM SECTIONS.
    - ASTM A572 GRADE 50 : POSTS AND BASE PLATES
    - ASTM A500 GRADE B : STRUCTURAL TUBING
    - ASTM A36 : PIPE SLEEVES, RAIL SPLICE BARS AND ANCHOR PLATES
    - ASTM A449 : ANCHOR STUDS WITH STANDARD NUTS AND HARDENED STEEL COMMERCIAL TYPE A PLAIN WIDE WASHERS
    - A307 : RAIL BOLTS, NUTS, AND WASHERS
    - AASHTO M180 TYPE II : W-BEAM SECTIONS
  - ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH AASHTO M232 (ASTM A153) AND AASHTO M111 (ASTM A123). GALVANIZED SURFACES SHALL HAVE A UNIFORM APPEARANCE AND GALVANIZED MATERIAL SHALL BE PROPERLY STORED.
  - STRUCTURAL TUBING SHALL BE SUPPLIED AS ONE PIECE FOR BRIDGE RAIL 40 FEET OR LESS IN LENGTH. IN OTHER CASES, TUBING SHALL BE SPLICED WITH A SPLICE BAR (SEE SPLICE BAR DETAILS). NO TRANSVERSE BUTT WELDS ARE PERMITTED ON RAIL TUBING WITHIN A CONTINUOUS LENGTH.
  - EACH PIECE OF RAIL TUBING SHALL BE ATTACHED TO A MINIMUM OF THREE POSTS.
  - FOR BRIDGE RAIL POST SPACING, SEE BRIDGE RAIL LAYOUT. THE MAXIMUM BRIDGE RAIL POST SPACING SHALL BE 8'-4". POST SPACING OF 8'-4" OR 6'-3" IS RECOMMENDED WHENEVER POSSIBLE FOR USE WITH 25' SECTIONS OF STANDARD W-BEAM RAIL.
  - PREFORMED BEARING PADS SHALL CONFORM TO AASHTO M251.
  - NUTS FOR THREADED ANCHOR STUDS CONNECTING THE BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
  - OTHER TYPES OF OFFSET BLOCKS MAY BE SUBSTITUTED FOR THOSE SHOWN. SEE NOTES IN STANDARD PLAN GR-2 (BEAM GUARDRAIL STANDARD SECTION - STEEL POSTS & HARDWARE DETAILS) OF THE HIGHWAY DESIGN STANDARD PLANS FOR ROAD CONSTRUCTION.

(GALVANIZED - 3" CURB REVEAL)

**STATE OF NEW HAMPSHIRE**  
DEPARTMENT OF TRANSPORTATION \* BUREAU OF BRIDGE DESIGN

TOWN	BRIDGE NO.		STATE PROJECT	
LOCATION				
<b>T101 BRIDGE &amp; APPROACH RAIL (STEEL POSTS)</b>				
REVISIONS AFTER PROPOSAL	BY	DATE	BY	DATE
	DESIGNED	TEXAS/JSZ	3/90	CHECKED
	DRAWN	PJP	1/10	CHECKED
	QUANTITIES			CHECKED
ISSUE DATE	1/20/10	FEDERAL PROJECT NO.		SHEET NO.
REV. DATE	3/30/14			TOTAL SHEETS

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
English/T101	T101-3GALV_SP	AS NOTED