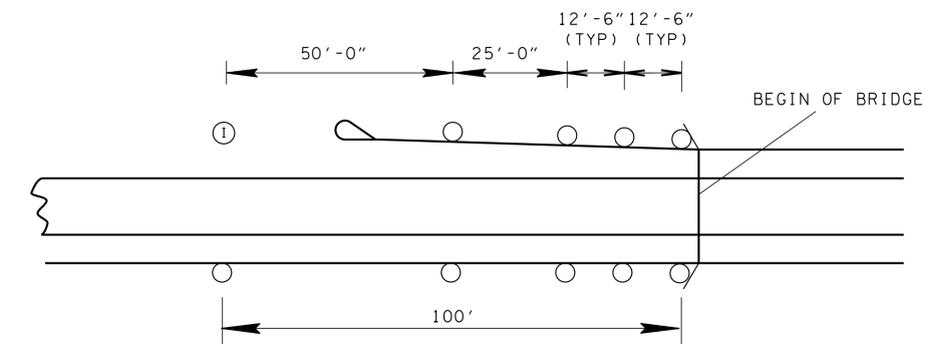


PLAN

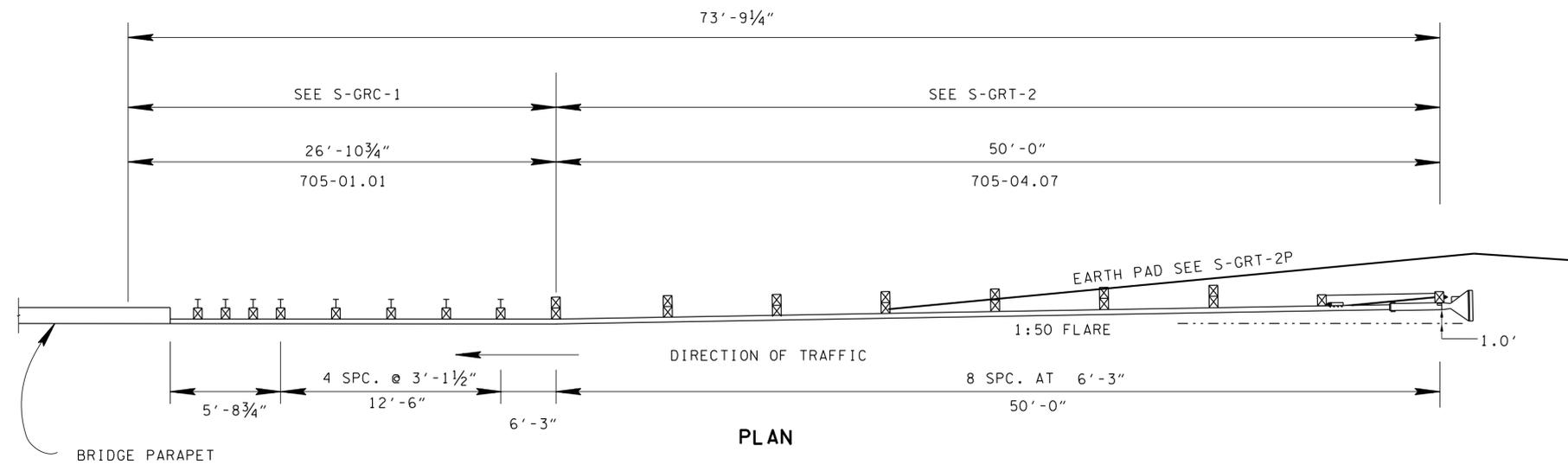
**MINIMUM INSTALLATION LENGTH FOR SLOTTED GUARDRAIL TERMINAL**

SAFETY PERFORMANCE OF SLOTTED GUARDRAIL TERMINAL IS ACCEPTABLE ACCORDING TO THE TL-2 EVALUATION CRITERIA SPECIFIED IN NCHRP REPORT 350. SLOTTED GUARDRAIL TERMINAL MAY BE USED ON ALL LOW SPEED ROADS NOT ON THE DESIGNATED NATIONAL HIGHWAY SYSTEM, INCLUDING SIDE ROADS TO STATE AND US ROUTES, WHEN THE CURRENT DESIGN SPEED EXCEEDS 40 MILES PER HOUR. EARTH PAD IS REQUIRED AS SHOWN ON S-GRT-3P. FOR LOW VOLUME LOCAL ROADS WITH ADT<400 VEH/DAY S-GRC-2 MAY BE USED.



**MIN. DELINEATOR PLACEMENT AT BRIDGE APPROACHES INSTALLED ON GUARDRAIL POSTS**

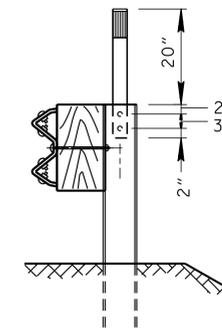
LEGEND: "o" DENOTES GUARDRAIL DELINEATORS. (SHOULDER LINES AND GUARDRAIL POSTS NOT SHOWN FOR CLARITY.)



PLAN

**MINIMUM INSTALLATION LENGTH FOR TANGENTIAL GUARDRAIL END TERMINAL**

SAFETY PERFORMANCE OF TANGENTIAL GUARDRAIL TERMINAL END SHALL MEET THE TL-3 EVALUATION CRITERIA SPECIFIED IN NCHRP REPORT 350 OR AASHTO MASH. ONLY TERMINAL LISTED ON OPL LIST 17 SHALL BE USED. EARTH PAD IS REQUIRED AS SHOWN ON S-GRT-2P OR S-GRT-2M AS DESCRIBED ON THE DRAWING.



STEEL POST

**GENERAL NOTES**

- (A) THIS DRAWING SHALL BE USED FOR BRIDGE ENDS OR RIGID CONCRETE BARRIER WALL ENDS ONLY. FOR OTHER HAZARDS STANDARD DRAWING S-PL-1 SHALL BE USED TO DETERMINE LENGTH OF NEED FOR GUARDRAIL.
- (B) SEE STANDARD DRAWING S-GRC-1 FOR DETAILS AND SPECIFICATIONS REGARDING INSTALLATION OF PROTECTIVE GUARDRAIL AT BRIDGE ENDS PAID FOR UNDER ITEM NO. 705-01.01 GUARDRAIL AT BRIDGE ENDS.
- (C) IF A FIELD EVALUATION DISCOVERS A SECONDARY HAZARD, THEN STANDARD DRAWING S-GRP-1 SHALL BE USED TO DETERMINE LENGTH OF NEED.
- (D) LOCATIONS WHERE ABOVE SHOWN MINIMUM TRANSITION AND GUARDRAIL TERMINAL ANCHOR CAN NOT BE INSTALLED DUE TO SIDE ROAD OR DRIVEWAY, OTHER ALTERNATIVES SHALL BE CONSIDERED SUCH AS CURVED GUARDRAIL (S-PL-2) OR INTRODUCING NON-GATING ATTENUATOR.

**FLEXIBLE DELINEATOR GENERAL NOTES**

- (A) DELINEATORS SHALL CONFORM TO NOTES AND DETAILS SPECIFIED ON STANDARD DRAWING T-S-11,
- (B) DELINEATORS SHALL BE INSTALLED ACROSS BRIDGES ONLY WHEN GUARDRAIL IS CONTINUOUS ACROSS BRIDGES. DELINEATOR SPACING ON BRIDGES SHALL BE AT 12'-6" INTERVALS.
- (C) THE COLOR OF DELINEATORS SHALL CONFORM TO THE COLOR OF EDGELINES STIPULATED IN SECTION 3B.06 OF THE MUTCD (CURRENT EDITION).
- (D) DELINEATORS SHALL BE FACED TOWARD THE APPROACHING TRAFFIC IN LANE ADJACENT TO THE GUARDRAIL AT ALL LOCATIONS.
- (E) DELINEATORS SHALL BE FIRMLY SECURED TO POST BY TWO CONNECTIONS.
- (F) THE TWO HOLES IN THE STEEL GUARDRAIL POSTS USED TO ATTACH THE DELINEATOR SHALL BE 1/4" IN DIAMETER. IF THE HOLES ARE SHOP DRILLED IT SHALL BE 1/4" IN DIAMETER AND SHALL BE SHOP DRILLED OR BE DONE PRIOR TO GALVANIZING THE POST. IF THE HOLES ARE FIELD DRILLED THEY SHALL BE THOROUGHLY PAINTED WITH A TOUCH-UP GALVANIZING SPRAY PAINT PRIOR TO ATTACHING THE DELINEATOR POST.
- (G) THE COST OF FURNISHING AND INSTALLING THESE BRIDGE APPROACH GUARDRAIL DELINEATORS SHALL BE INCLUDED IN THE PRICE BID FOR THE ITEMS OF GUARDRAIL TO WHICH THE DELINEATORS ARE ATTACHED.
- (H) ONLY DELINEATORS LISTED ON THE OPL, LIST 1, SECTION G.2 GUARDRAIL POST DELINEATION, MAY BE USED.
- (I) DELINEATORS ARE NOT REQUIRED IF GUARDRAIL IS TERMINATED PRIOR TO INDICATED LOCATION.