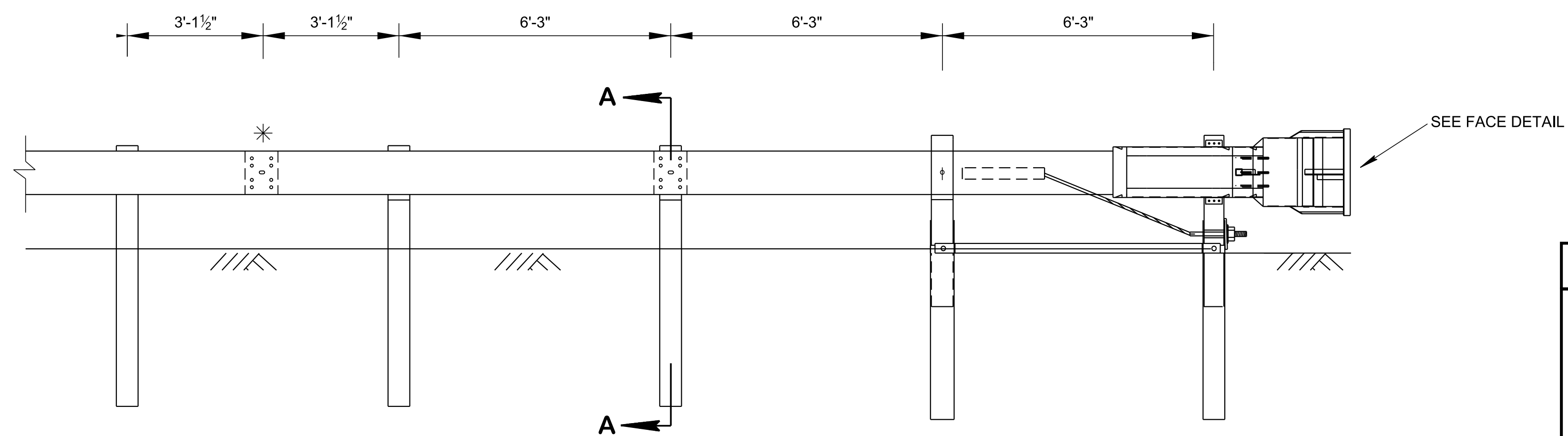
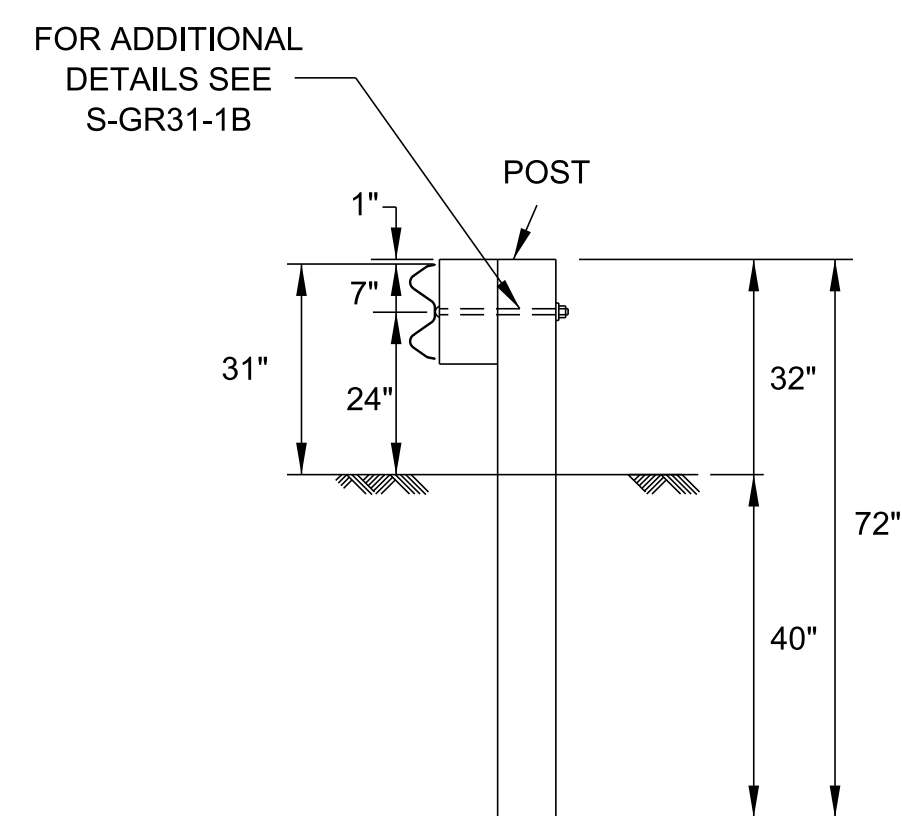


**PLAN**

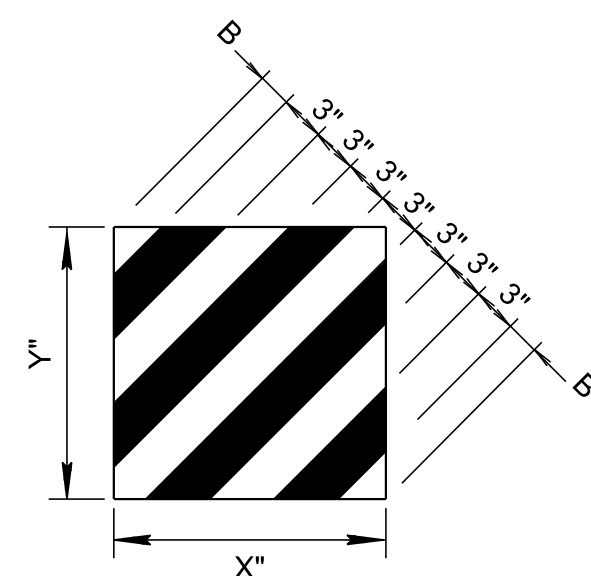


**ELEVATION**

\* FOR MAINTENANCE AND REPAIR PROJECTS:  
IF ONLY THE TERMINAL IS TO BE REPLACED,  
USE S-GRS-4 TO TRANSITION BACK TO 27" HEIGHT.



**SECTION A-A**  
(NOMINAL DIMENSIONS)



STRIPES AT 45 DEGREE TOWARD TRAVEL WAY.

BACKGROUND: YELLOW  
(STANDARD SPECIFICATION 916.06)  
COPY: BLACK

X AND Y SHALL BE WITHIN 3" OF FACE WIDTH AND HEIGHT, RESPECTIVELY, AND FACE SHALL HAVE A MINIMUM 300 SQUARE INCHES COPY AREA.

**FACE DETAIL**

**GENERAL NOTES**

- (A) ONLY MASH COMPLIANT TL-2 END TERMINALS ON THE TDOT QUALIFIED PRODUCTS LIST MAY BE INSTALLED. MANUFACTURER'S SHOP DRAWINGS SHALL BE REQUIRED BEFORE ANY TANGENTIAL END TERMINAL INSTALLATIONS CAN BEGIN. THE CONTRACTOR SHALL HAVE ONE COMPLETE SET OF SHOP DRAWINGS ON SITE DURING INSTALLATION OR REPAIR OF ANY TANGENTIAL GUARDRAIL TERMINAL ANCHOR. THE CONTRACTOR SHALL ALSO PROVIDE THE CONSTRUCTION OR MAINTENANCE SUPERVISOR WITH ONE COMPLETE SET OF SHOP DRAWINGS INCLUDING TDOT QUALIFIED PRODUCTS LIST EVALUATION NUMBER.
- (B) FOR THE TYPE 21 GUARDRAIL TERMINAL TO FUNCTION AS IT WAS CRASH TESTED UNDER MASH TL-2, THE EARTH PAD MUST BE CONSTRUCTED PER STANDARD DRAWING S-GRT-2P OR S-GRT-2R.
- (C) THE END TERMINAL (INCLUDING ANCHOR) IS TO BE INSTALLED UNDER ITEM NUMBER 705-06.30 GR TERMINAL (ENERGY ABSORBING) MASH TL2, PER EACH
- (D) TERMINAL SYSTEM MUST BE CONSTRUCTED SO THAT THE FULL LENGTH OF THE TERMINAL SYSTEM GUARD RAILING IS IN STRAIGHT ALIGNMENT.
- (E) DIFFERENT TERMINAL SYSTEMS OR PARTS SHALL NOT BE COMBINED ON A RUN OF GUARDRAIL.
- (F) THE FIRST 12'-6" FROM IMPACT HEAD IS GATING FOR SKT-SP-MGS, DO NOT USE THIS SECTION IN LENGTH OF NEED. TENSION SYSTEMS PROVIDE REDIRECTIVE CAPACITY AT THE FIRST POST.
- (G) IF GUARDRAIL NEEDS TO BE EXTENDED, EXTEND GUARDRAIL IN INCREMENTS OF 12' - 6".
- (H) IF WOOD POSTS ARE USED, ALL HOLES IN WOOD POSTS ARE TO BE DRILLED BEFORE PRESERVATIVE TREATMENT.
- (I) ALL CUTTING, DRILLING, AND WELDING OF STEEL COMPONENTS SHALL BE DONE BEFORE GALVANIZING.
- (J) THE FINISHED CABLE ASSEMBLY WILL NOT BE ACCEPTABLE UNLESS IT IS IN TENSION WITH NO SAG.
- (K) IF THE SHOULDER WIDTH IS LESS THAN 2'-0", END TERMINAL MUST BE FLARED. IF THE SHOULDER WIDTH IS GREATER THAN 2'-0", END TERMINAL MAY BE TANGENTIAL. IF FLARED IMPLEMENTATION IS IMPLEMENTED, USE 25:1 MAXIMUM FLARE RATE OR INSTALL END TERMINAL AS DIRECTED BY THE FIELD ENGINEER.
- (L) FOR RETROFIT PROJECTS, SEE S-GRT-2R.
- (M) FOR NEW CONSTRUCTION, INSTALL TERMINALS AT 31" HEIGHT. FOR RETROFIT PROJECTS, USE GUARDRAIL HEIGHT TRANSITION DETAIL, SEE S-GRS-4.

**NOTES TO DESIGNER**

- (N) THIS TERMINAL SHALL ONLY BE USED ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR LESS.
- (O) DO NOT USE WITHOUT REFERENCING S-GRT-2P OR S-GRT-2R.

**NOTE TO INSTALLER**

- (P) SKT-SP-MGS WITH 21'- 10 1/2" INSTALLATION IS SHOWN, POST MATERIAL, SIZE, GUARDRAIL SPLICING LOCATION, TAPER RATE, OFFSET, GUARDRAIL HEIGHT, IMPACT HEAD DIMENSION, AND ALL OTHER MISCELLANEOUS HARDWARE MAY BE DIFFERENT. INSTALLATION SHALL FOLLOW THE MANUFACTURER'S SHOP DRAWINGS.

- REV. 11-03-14: MODIFIED PAY LENGTH FOR TYPE 38 END TERMINAL.
- REV. 04-04-16: THE PREVIOUSLY SHOWN SKT75 (SLOTTED FLARED GUARDRAIL TERMINAL) IS NO LONGER AVAILABLE FOR 31" INSTALLATION. REVISED TO SHOW TL-2 T-350 TERMINAL.
- REV. 10-10-16: UPDATED LIMIT OF PAYMENT.
- REV. 03-28-17: UPDATED NOTES TO INSTALLER, ADDED W-BEAM OVERLAPPING DETAIL. REORGANIZED SHEET. CHANGED PAY ITEM NUMBER. REPLACED "SKT 350" WITH "SKT-SP-M65" IN NOTE TO INSTALLER.
- REV. 06-28-19: REDREW SHEET. REMOVED W-BEAM OVERLAPPING DETAIL. MOVED NOTES TO DESIGNER AND INSTALLER TO GENERAL NOTES (N), (O) AND (P).

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE  
STANDARD DRAWING  
DEPARTMENT OF TRANSPORTATION

TYPE 21  
GUARDRAIL  
END TERMINAL

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