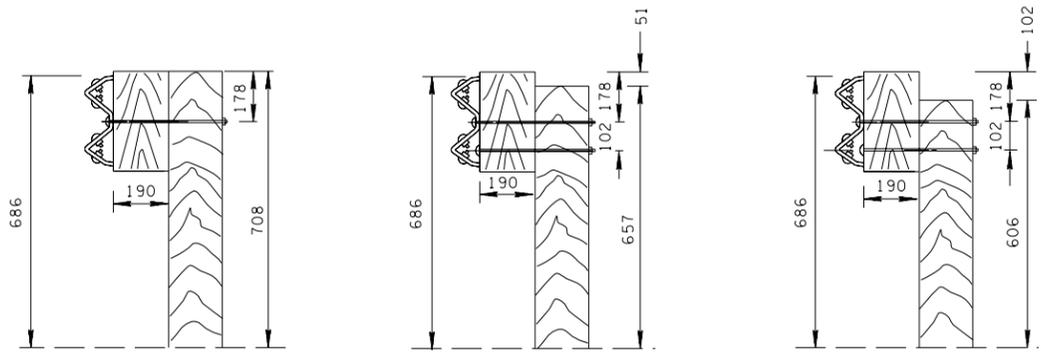
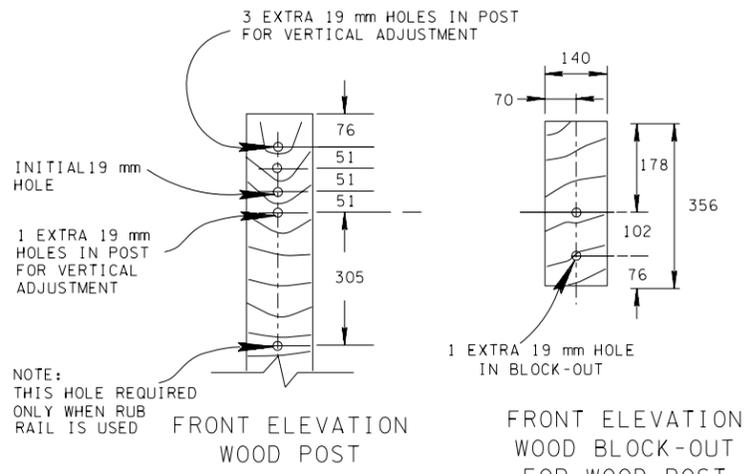


REV. 11-1-95: CHANGED TO METRIC.
 REV. 7-29-98: ADDED WOOD BLOCK-OUT DETAILS FOR STEEL POST. MODIFIED WOOD BLOCK-OUT DETAILS FOR WOOD POST. MOVED RAIL ELEMENT JOINT DETAILS. IRREGULAR SHOULDER LINE DETAIL AND GENERAL NOTES (C), (D), AND (E) TO STANDARD DRAWING S-GR-18.
 REV. 9-5-98: GENERAL REVISION THROUGHOUT DRAWING. CHANGED DRAWING NO. FROM SM-GR-12 TO SM-GR-13.
 REV. 5-27-03: ADDED GENERAL NOTES (C) AND (D). CHANGED SHEET NAME.

DETAILS SHOWING HOLES REQUIRED IN POSTS AND BLOCK-OUTS
 (FOR USE IN FUTURE RAIL ADJUSTMENT)



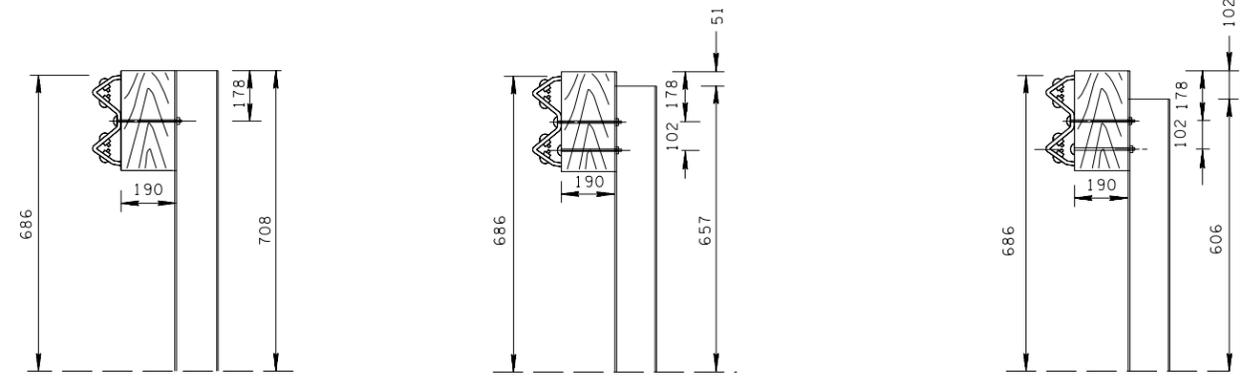
INITIAL INSTALLATION FIRST ADJUSTMENT SECOND ADJUSTMENT
 ADJUSTABLE WOOD POSTS AND BLOCK-OUTS AT VARIOUS ADJUSTMENTS



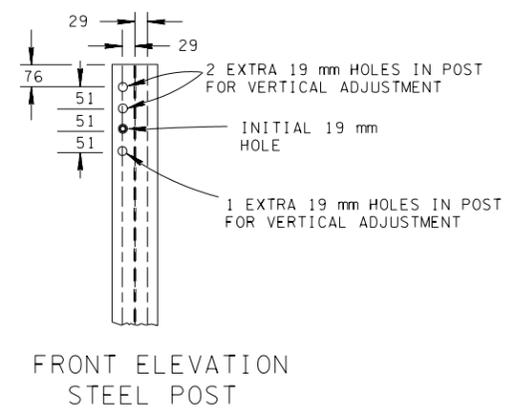
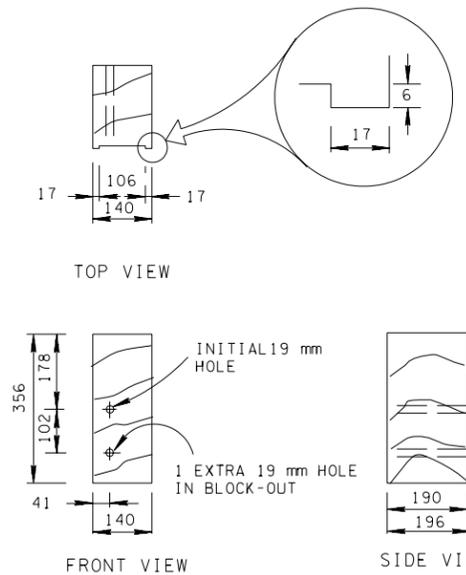
WOOD BLOCK-OUT FOR WOOD POST
 INSTALLATION NOTES

(B1) THE INITIAL INSTALLATION WILL REQUIRE ONE M16 X 457 mm LONG BUTTON HEAD BOLT WITH ROUND STEEL WASHER.

(B2) THE FIRST ADJUSTMENT AND THE SECOND ADJUSTMENT WILL REQUIRE ONE M16 X 457 mm LONG BUTTON HEAD BOLT AND ONE M16 X 457 mm LONG HEX HEAD BOLT. EACH WILL HAVE ONE ROUND STEEL WASHER.



INITIAL INSTALLATION FIRST ADJUSTMENT SECOND ADJUSTMENT
 ADJUSTABLE STEEL POSTS AND BLOCK-OUTS AT VARIOUS ADJUSTMENTS



FRONT ELEVATION
 STEEL POST

WOOD BLOCK-OUT DETAIL FOR STEEL POST
 WITH VERTICAL ADJUSTMENT HOLES

INSTALLATION NOTES FOR BLOCK-OUTS
 WITH VERTICAL ADJUSTMENT HOLES

(B1) THE INITIAL INSTALLATION WILL REQUIRE ONE M16 X 241 mm LONG BUTTON HEAD BOLT WITH ROUND STEEL WASHER.

(B2) THE FIRST ADJUSTMENT AND THE SECOND ADJUSTMENT WILL REQUIRE ONE M16 X 241 mm LONG BUTTON HEAD BOLT AND ONE M16 X 241 mm LONG HEX HEAD BOLT. EACH WILL HAVE ONE ROUND STEEL WASHER.

GENERAL NOTES

(A) SEE STANDARD DRAWING SM-GR-12 FOR ADDITIONAL POST DETAILS AND SPECIFICATIONS.

(B) SEE STANDARD DRAWING SM-GR-14 FOR ADDITIONAL BOLT, WASHER AND NUT DETAILS AND SPECIFICATIONS.

(C) SEE STANDARD DRAWING S-GR-13A FOR BLOCK-OUTS WITH HORIZONTAL ADJUSTMENT HOLES AND MOUNTING DETAILS.

(D) RECYCLED PLASTIC GUARDRAIL BLOCKOUTS LISTED ON THE TENNESSEE DEPARTMENT OF TRANSPORTATIONS QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED FOR WOOD BLOCKOUTS. THE USE OF RECYCLED PLASTIC GUARDRAIL BLOCKOUTS ARE SUBJECT TO THE FOLLOWING STIPULATIONS:

(1) THE MIXING OF BLOCKOUTS ON A GIVEN PROJECT WILL BE AVOIDED IF POSSIBLE.

(2) SHOULD IT BECOME NECESSARY TO CHANGE THE BLOCKOUT TYPE ON A GIVEN PROJECT, THE BLOCKOUTS SHOULD NOT BE MIXED ON A GIVEN RUN OF GUARDRAIL.

(3) BLOCKOUTS SHALL MEET NCHRP-350 GUIDELINES.

ALL UNITS ARE IN MILLIMETERS
 UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA
 APPROVAL NOT REQUIRED.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

BARRIER RAIL
 MOUNTING POST
 BLOCK-OUTS
 WITH VERTICAL
 ADJUSTMENT HOLES

