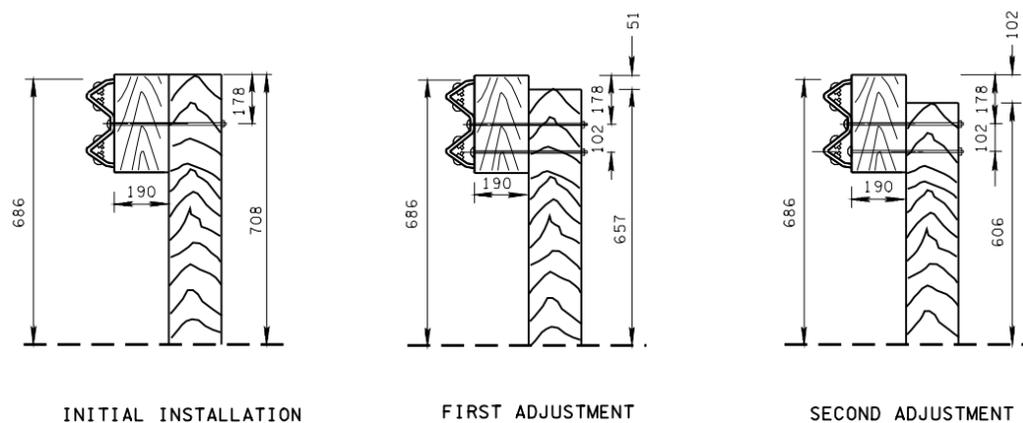
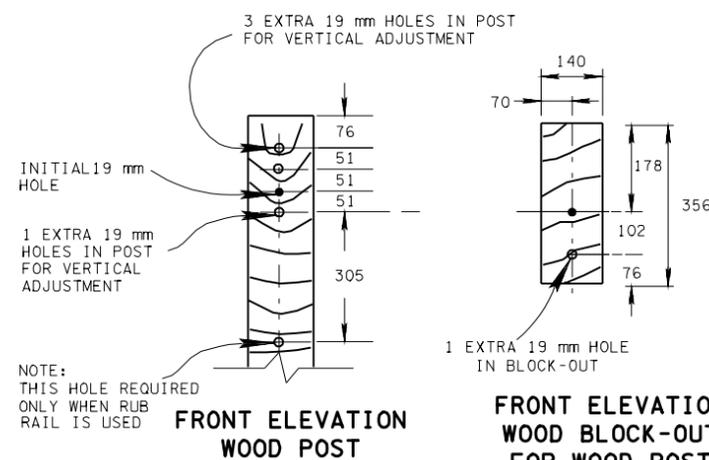


REV. 11-1-95: CHANGED TO METRIC.  
 REV. 7-29-98: ADDED WOOD BLOCK-OUT DETAILS FOR STEEL POST. MODIFIED WOOD BLOCK-OUT DETAILS FOR WOOD POST. MOVED RAIL ELEMENT JOINT DETAILS, IRREGULAR SHOULDER LINE DETAIL AND GENERAL NOTES (C), (D), AND (E) TO STANDARD DRAWING S-GR-18.  
 REV. 9-5-98: GENERAL REVISION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

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



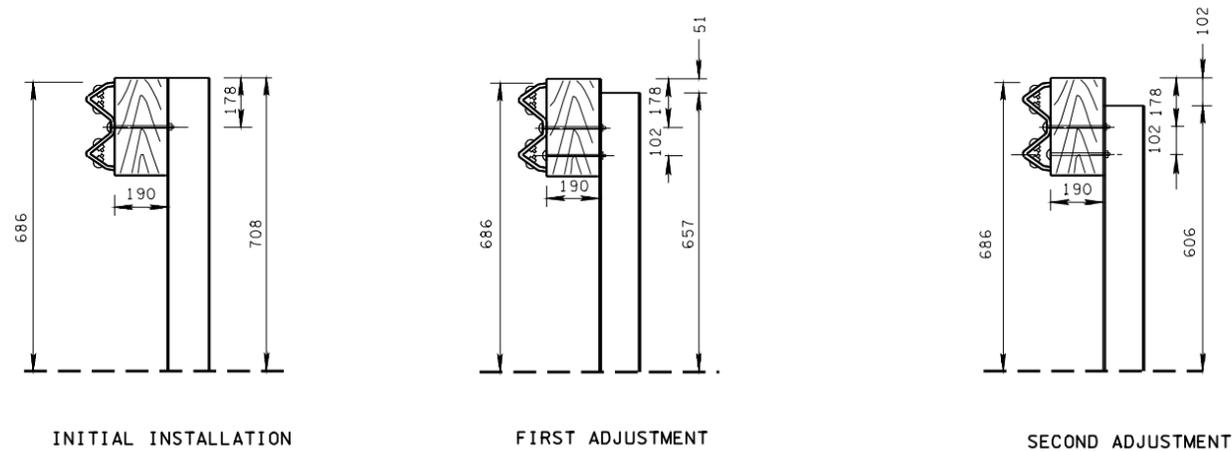
**ADJUSTABLE WOOD POSTS AND BLOCK-OUTS AT VARIOUS ADJUSTMENTS**



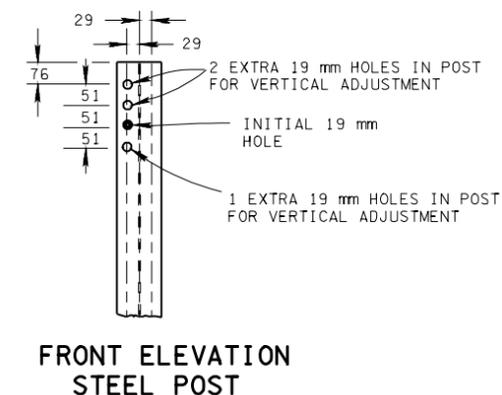
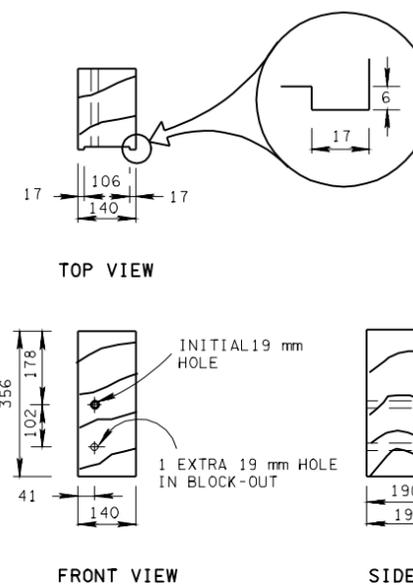
**WOOD BLOCK-OUT FOR WOOD POST  
INSTALLATION NOTES**

(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.



**ADJUSTABLE STEEL POSTS AND BLOCK-OUTS AT VARIOUS ADJUSTMENTS**



**FRONT ELEVATION  
STEEL POST**

### WOOD BLOCK-OUT DETAIL FOR STEEL POST

**WOOD BLOCK-OUT FOR STEEL POST  
INSTALLATION NOTES**

(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.

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**  
11-1-95 SM-GR-13

