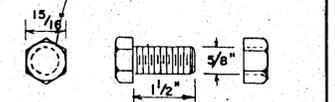
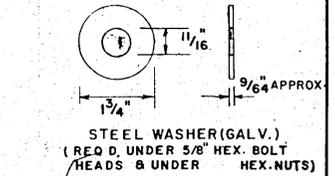


FOR REQUIREMENTS AT APPROACH END SEE STANDARD 4050-TYPE 9 ANCHORAGE.

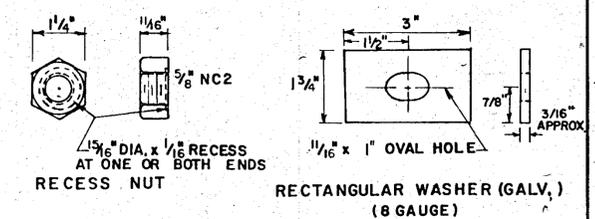
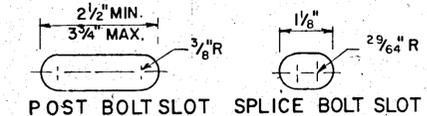
**SPECIAL NOTE:**  
ALL GUARDRAIL SPLICES WILL BE PROPERLY SECURED WITH EIGHT SPLICE BOLT CONNECTIONS. ALL NUTS WILL BE TIGHTENED. LOOSE NUTS, OMITTED BOLTS OR OMITTED NUTS WILL BE CAUSE FOR REJECTION.

GUARDRAIL NOT ERRECTED AT A 27" TOP OF RAIL HEIGHT WILL BE CAUSE FOR REJECTION.



5/8" Ø HEX BOLT & HEX NUT  
(TO BE USED ONLY FOR ATTACHING STEEL OFFSET BLOCKS TO STEEL POST)

L	THREAD LENGTH
1 1/4"	FULL LENGTH
2"	1 1/2" MIN.
9 1/2"	1 3/4" MIN.
18"	2 1/2" MIN.
25"	2" MIN.



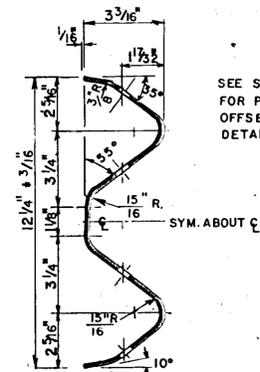
BUTTON HEAD (OR SPLICE) BOLT  
(8 REQ'D PER SPLICE)

RECESS NUT

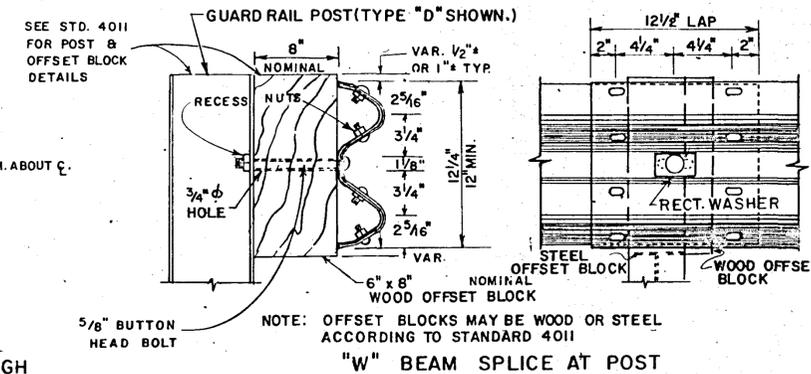
RECTANGULAR WASHER (GALV.)  
(8 GAUGE)

**NOTE:**  
\* A PRECURVED GUARDRAIL SECTION WILL BE REQUIRED WHERE TYPE I ANCHORAGE IS PERMITTED AT GUARDRAIL TERMINAL IF TRAFFIC FLOW IS TWO-WAY. SEE APPLICABLE STANDARDS.

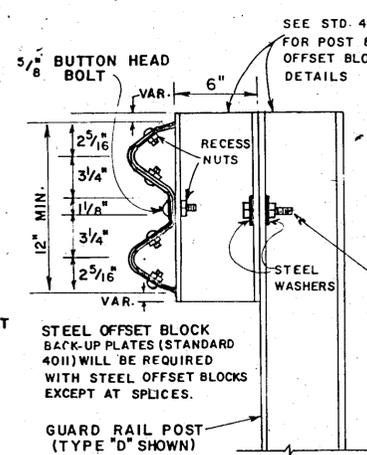
\*\* REDUCED POST SPACINGS WILL BE REQUIRED AT BRIDGE END CONNECTIONS, CONNECTIONS TO CONCRETE BARRIERS, BRIDGE PIERS OR OTHER RIGID OBJECTS, SEE PLAN DETAILS OR APPLICABLE STANDARDS. PAYMENT FOR GUARDRAIL WILL INCLUDE THE ADDITIONAL POSTS REQUIRED.



SECTION THROUGH RAIL ELEMENT



"W" BEAM SPLICE AT POST



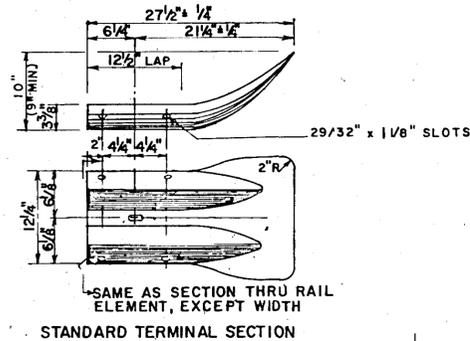
STEEL OFFSET BLOCK BACK-UP PLATES (STANDARD 4011) WILL BE REQUIRED WITH STEEL OFFSET BLOCKS EXCEPT AT SPLICES.

GUARD RAIL POST (TYPE "D" SHOWN)

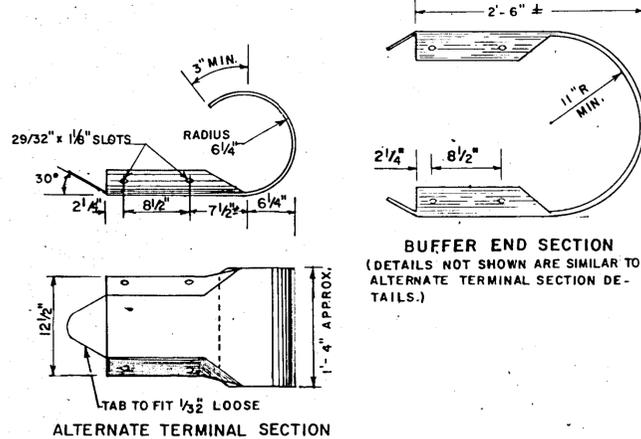
2 STD. GALV. 5/8" HEX. HEAD BOLT & HEX. NUT.

**GENERAL NOTES:**

- SPECIFICATIONS: GEORGIA STANDARD AND/OR SPECIAL PROVISIONS.
- NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE WILL BE ACCORDING TO THE CURRENT ARTBA TECHNICAL BULLETIN NO. 268 UNLESS SPECIFIED OTHERWISE. DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA. STANDARD 4011.
- FOR DETAILS OF GUARD RAIL ANCHORAGES SEE GEORGIA STANDARD 4012B OR 4050.
- FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
- ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
- WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150' PRECURVED RAIL WILL BE REQUIRED.
- PAYMENT FOR GUARDRAIL (Type "W") TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS OR CATCH BASINS WHERE NECESSARY.
- ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0" THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.



STANDARD TERMINAL SECTION

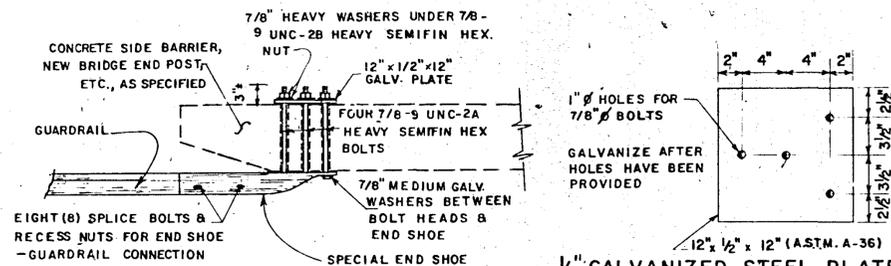


BUFFER END SECTION  
(DETAILS NOT SHOWN ARE SIMILAR TO ALTERNATE TERMINAL SECTION DETAILS.)

ALTERNATE TERMINAL SECTION

**NOTE:**  
DETAILS FOR DOUBLE FACED GUARDRAIL NOT SHOWN ARE SIMILAR TO THAT SHOWN FOR SINGLE FACED RAIL.

DOUBLE FACED GUARDRAIL (Type "W")



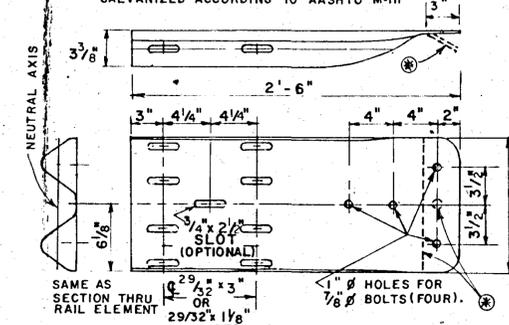
TYPICAL END SHOE CONNECTION

(DETAIL SHOWN IS TYPICAL FOR CONNECTION TO CONCRETE FACE OF NEW STRUCTURE. OTHER APPLICATIONS OF SPECIAL END SHOE MAY BE MADE WHERE SPECIFIED.)

1/2" GALVANIZED STEEL PLATE

(TO BE USED WITH SPECIAL END SHOE CONNECTION UNDER NUTS & WASHERS ON BACK OF BRIDGE END POST OR BACK OF CONCRETE SIDE BARRIER.)

SPECIAL END SHOE WILL BE 10 GAUGE STEEL GALVANIZED ACCORDING TO AASHTO M-111



SPECIAL END SHOE DETAIL  
(FOR USE IN CONNECTING GUARDRAIL TO BRIDGE END POST, CONCRETE BARRIERS, ETC.)

APPLIES ONLY TO END SHOE MODIFIED FOR USE WITH TYPE 9 ANCHORAGE

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD "W" BEAM GUARDRAIL		NO SCALE REV. & REDR. DECEMBER, 1979
BY REVISIONS DATE R.M.U. BLOCK & SPLICE BOLT 7-1-80 R.M.U. ADD TYP. END SHOE CON. 10-31-80	DES. JUN. 68 RETRACED G.M.Z. CHK. R.M.U.	SUBMITTED <i>Harold E. Hardy</i> STATE ROAD & AIRPORT DESIGN ENGR. APPROVED <i>Thomas D. Maclean</i> STATE HIGHWAY ENGINEER
		NUMBER 4010