

**NOTES**

**GENERAL:**  
This sheet details a median barrier guardrail system with a single rubrail, ODOT Type 5MR, to be installed in locations shown on the project plans.

**DESCRIPTION:**  
The barrier system detailed on this sheet depicts a barrier guardrail system consisting of a double sided w-beam guardrail run mounted on a single steel post with blockouts supporting the rail elements. A channel rub rail is to be attached to the steel posts on the ditch side of the barrier run as shown. It is different than ODOT Type 5 barrier guardrail in that the system has a rub rail on the median side, and steel posts are required. It is similar to AASHTO-AGC-ARTBA standard hardware system SGM06a, except that it uses only one rubrail.

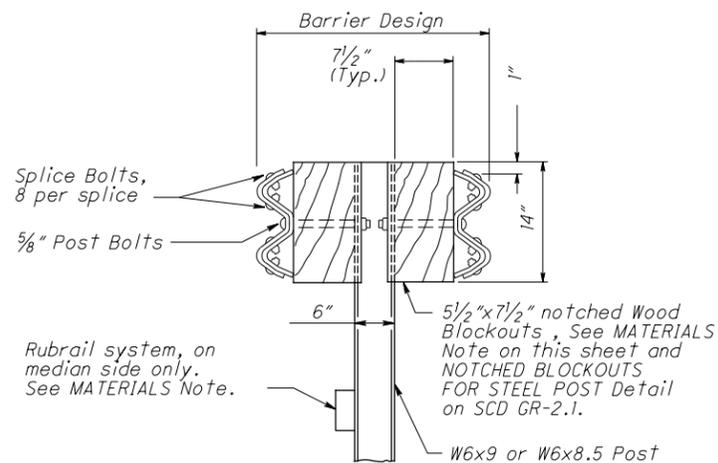
**MATERIALS:**  
Posts are to be standard length steel W6x9 (W6x8.5) rolled or welded guardrail posts. Wood or alternate guardrail posts are not permitted. Blockouts are to be notched for steel posts and may be ODOT's generic wood or approved alternates as shown on ODOT Office of Materials Management's approved list for blockouts. Wood blockouts requiring toe nailing, or steel blockouts are not allowed.

The rub rail elements, assembly components, and its fastening is to be done in accordance with AASHTO-AGC-ARTBA's Hardware Guide part numbers RER01 (bent plate rub rail), or RLR01 (channel-section rub rail), and mounted to one side of each post by a post bolt. If RLR01 is used by the contractor, a splice plate is required as per the Hardware Guide. This rub rail and any components of the rub rail subsystem are to be hot dipped galvanized as per ASTM A123 Type 2. All posts, blockouts, materials are to be as per Standard Construction Drawing GR-2.1, and GR-1.1 and CMS 606. All other components are to be as specified on GR-1.1, GR-2.2, or CMS 606.

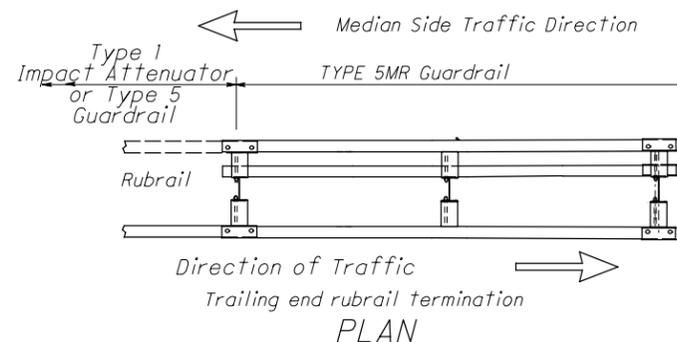
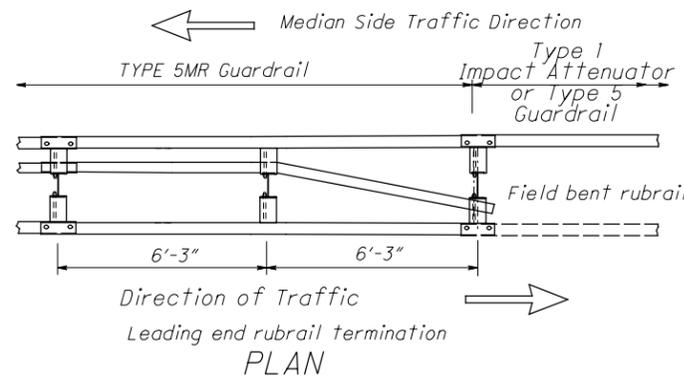
**MOUNTING HEIGHT:**  
The Type 5MR is to be mounted at 27.75 inches to the top of the w-beam rail, when measured from the closest paved shoulder as shown on the MEASURING GUARDRAIL HEIGHT Detail on this sheet.

**TERMINATION:**  
The configuration shown here is not to be used in any end terminals, bridge terminal assemblies, or impact attenuators. Those systems are to be installed as per other standard drawings or manufacturer's instructions. Introduce the rubrail to approaching traffic by field bending the last 6'3" of rubrail to behind the first post. On the trailing end, do not bend the rubrail behind the last post as shown. In both cases, attach the rubrail to the first (or last) post.

**PAYMENT:**  
Item 606 Guardrail Type 5MR is paid in Lineal Feet for the length specified in the plans and shall include all material components (rail, rubrail, post, blockout and fasteners), including the rub rail assembly, and all other hardware, material and labor required to construct the guardrail system as shown.



**STEEL POST**  
See MATERIALS Note



**INTRODUCTION/TERMINATION OF RUBRAIL AT ENDS OF TYPE 5MR RUNS**