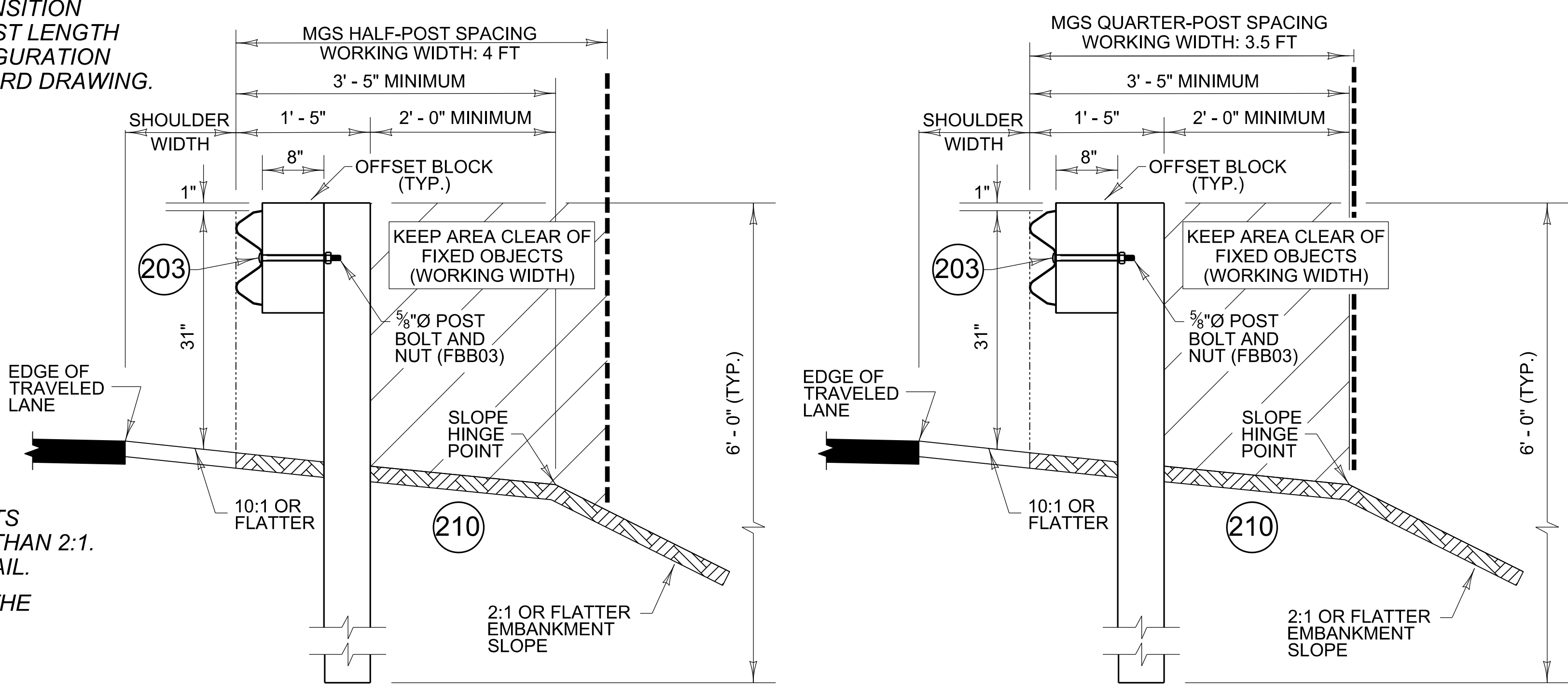


MGS GUARDRAIL STIFFENING – QUARTER-POST SPACING

~ NOTES ~

- 201. THIS MGS GUARDRAIL SYSTEM HAS BEEN CRASH TESTED AND IS MASH TL-3 APPROVED.
- 202. USE 12'-6" LONG W-BEAM RAIL WITH FOUR SPACES (HARDWARE GUIDE NUMBER RWM04a) IN THE QUARTER-POST & HALF-POST TRANSITION SECTIONS.
- 203. AT RAIL SPLICE LOCATIONS OR WHERE THE RAIL HAS NO SLOTS, DO NOT BOLT THE RAIL TO THE POSTS. INSTEAD, BOLT THE POSTS AND BLOCKOUTS TOGETHER AND SET THEM TO ABUT THE RAIL WITHOUT ATTACHMENT.
- 204. REGARDLESS OF TRAFFIC DIRECTION, PROVIDE A 12'-6" HALF-POST-SPACED GUARDRAIL STIFFENING TRANSITION AT EACH END OF THE QUARTER-POST-SPACED SECTION AS SHOWN. INCLUDE AND PAY FOR THE HALF-POST LENGTH AS PART OF THE QUARTER-POST BID ITEM. THE HALF-POST SPACING SHALL ONLY BE USED IN THIS CONFIGURATION AND SHALL NOT BE INSTALLED AS A STANDALONE CONFIGURATION, UNLESS SHOWN IN ANOTHER STANDARD DRAWING.
- 205. THIS MGS SYSTEM — STIFFENING WITH TRANSITION TO QUARTER-POST SPACING — HAS A VARIABLE WORKING WIDTH AS FOLLOWS:
 - (a) • APPROX. 5 FT AT STANDARD POST SPACING
 - (b) • APPROX. 4 FT AT HALF-POST SPACING
 - (c) • APPROX. 3.5 FT AT QUARTER-POST SPACING
 DO NOT INSTALL WHERE FIXED OBJECTS ARE WITHIN THE WORKING WIDTH (SEE PLAN VIEW).
- 206. EIGHT 5/8" x 1 1/4" BUTTON HEAD BOLTS AND RECESSED HEX NUTS REQUIRED AT RAIL SPLICE. SEE RBR-200 SHEET 1 FOR CONNECTION DETAILS OF THE SPLICE.
- 207. USE STEEL POSTS FOR MGS GUARDRAIL STIFFENING. WOOD POSTS ARE NOT PERMITTED FOR STIFFENING. WOOD POSTS MAY BE USED IN THE MGS STANDARD CONFIGURATION.
- 208. THE FOLLOWING STANDARD MGS GUARDRAIL INSTALLATION NOTES APPLY TO REDUCED POST SPACING INSTALLATIONS: RBR-200, SHEET 1, NOTES 104, 105, 107, 109, 110, 112, & 113.
- 209. WHEN USING MGS STIFFENING TO QUARTER-POST SPACING, LOCATE END TREATMENTS AND APPROACH GUARDRAIL TRANSITIONS A MINIMUM OF 25 FT FROM THE FIRST POST OF STANDARD MGS GUARDRAIL.
- 210. PROVIDE A MINIMUM 2' - 0" HORIZONTAL EMBANKMENT WIDTH (10:1 OR FLATTER) BEHIND GUARDRAIL POSTS TO THE SLOPE HINGE POINT FOR 2:1 OR FLATTER FILL SLOPES. DO NOT USE WITH FILL SLOPES STEEPER THAN 2:1. CONTRARY TO RGX-001, ROUNDING OF SLOPES IS NOT PERMITTED AT THE HINGE POINT BEHIND GUARDRAIL.
- 211. THE MINIMUM QUARTER-POST MGS LENGTH IS 25'. FOR A SINGLE FIXED OBJECT, LOCATE THE OBJECT AT THE MIDPOINT OF THE QUARTER-POST SECTION. FOR LARGER FIXED OBJECTS, LENGTHEN THE SECTION AS NEEDED; ADDED LENGTH MAY BE PROVIDED IN 12'-6" INCREMENTS (ONE GUARDRAIL PANEL). PROVIDE A MINIMUM 12'-6" QUARTER-POST MGS BEFORE AND AFTER THE FIXED OBJECT.



BID ITEM AND UNIT TO BID
G/R-W BEAM-S FACE (TL-3) QTR POST LF

REVISION DATE: 05/06/2026
REVISION NUMBER: 0

05/06/2026 DATE

DIVISION DIRECTOR DATE

STATE HIGHWAY ENGINEER DATE

SUBMITTED APPROVED

BARRIERS