

5 MFLEAT Inspection Checklist

State: _____

Date: _____

Project #: _____

Location: _____

- The rail height is in accordance with the contract plans. This should be 31" ± 1" above the edge of the finished grade.
- There is no radiused rail within the MFLEAT 39'-7" length.
- All rails are lapped in the proper direction with traffic.
- The MFLEAT has been placed with a 3'-0" straight flare offset between posts #1 and #9 over the 39'-7" length.
- The end rail panel is not attached to post #1. All other posts are attached to the rail.
- The end rail panel has ½" x 4" slots and is 12'-6" long. The second rail must be 10'-5" long to establish the mid-span splice between posts #5 & #6. The third rail length is 13'-6 ½" long.
- The ¾" x 8 ½" hinge bolt at posts #2 and #3 is on the downstream sides of the posts.
- The ⅝" x 9" bolt connecting upper and lower post #1 is on the upstream side of the post.
- The lower stubs at posts #1, #2, and #3 does not protrude more than 4" above the ground line (measured by the AASHTO 5' cord method). Site grading may be necessary to meet this requirement.
- At posts #2 and #3, the open-ended slot at the post bolts are on the upstream side of the posts.
- Standard steel W6x9# x 6'-0" guardrail posts are used at post locations #4 to #8.
- The post spacing within the MFLEAT (beginning at Post #1) is 2 spaces at 6'-3" centers, 5 spaces at 4'-2" centers, and at Post #8 continuing 6'-3" centers thru the MGS Guardrail.
- The blockouts are 8" or 12" deep depending on State or local agency standards.
- The MFLEAT impact head exit slot is toward traffic.
- Two 5/16" x 1" hex bolts attaching impact head to 6" x 6" x ⅛" upper post #1 are secured.
- The 8" x 8" bearing plate at post #1 is correctly positioned with the 5" dimension up and 3" dimension down and setting on the extended cap plate of lower post #1. The anchor cable is taut and correctly installed.
- A 5/8" x 5" long bolt is secured to the bearing plate and placed in the hole of upper post #1.
- A ground strut is secured between posts #1 & #2 using the ¾" x 8 ½" hinge bolt at post #2 and a second ⅝" x 9" hex bolt at post location #1.
- The cable anchor bracket shoulder bolts are properly attached to the W-Beam guardrail and the cable anchor bracket is fully seated on the shoulder portion of the bolts.
- If the posts were augered, the backfill material around the posts is properly compacted.
- No washers are used on the face of the rail except at the cable anchor bracket bolts.
- The grading and finished installation is in accordance with all specific State DOT guidelines.

Additional notes:

Inspection performed by: _____

Inspection (continued)

As with all roadside safety products, guardrail terminals require inspection to be sure they are in working order. The appropriate authorities should have inspection programs in place and track accidents to assure adequate repairs are made. Regular inspections of MFLEAT systems should be made based on site conditions, traffic volumes, and crash history.

