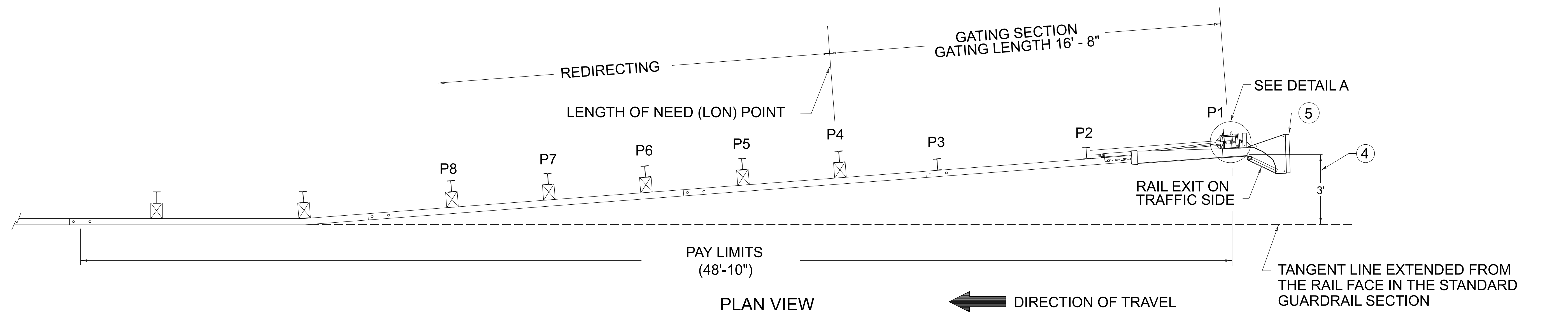
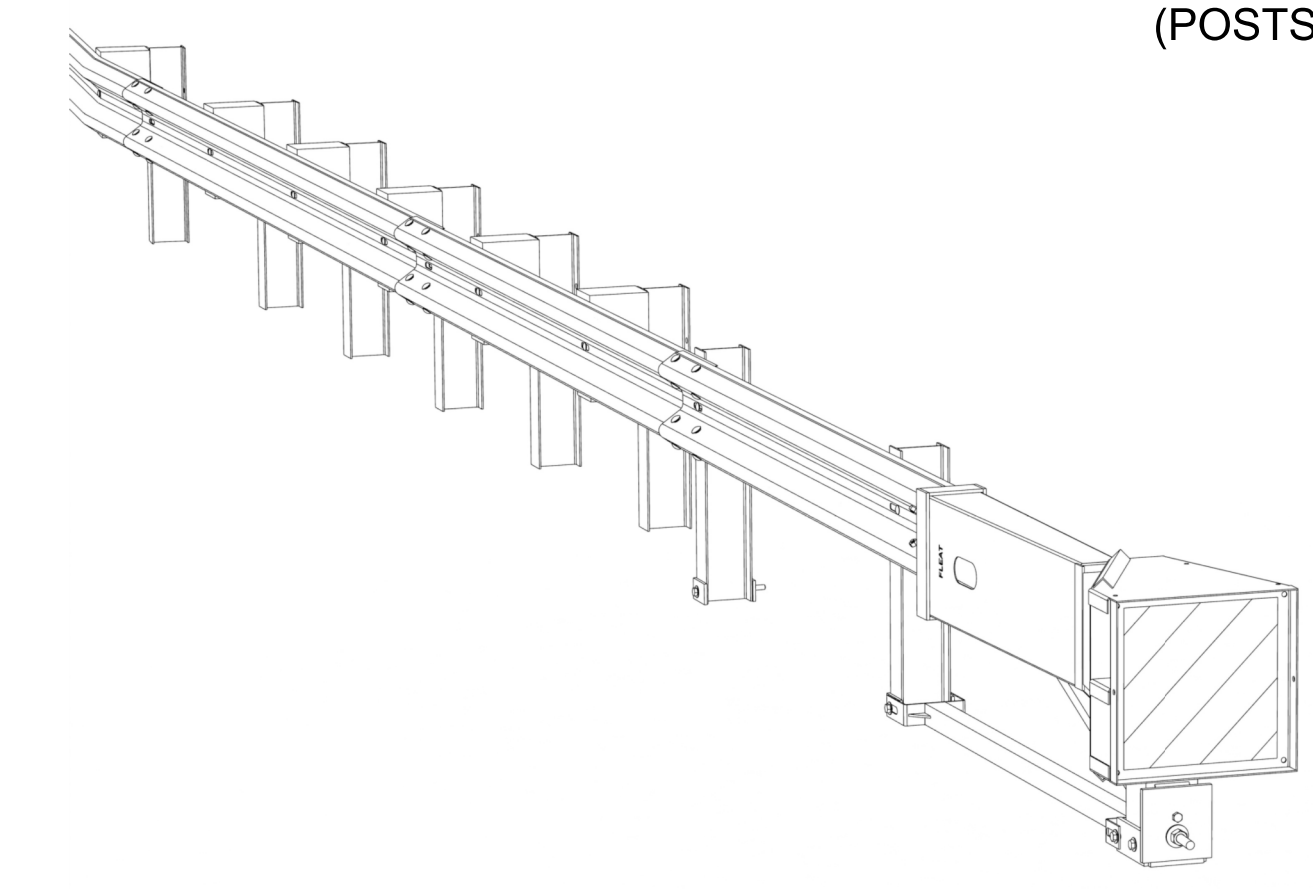


- ~ NOTES ~
- THE 4A END TREATMENT IS A TEST LEVEL 3 (TL-3) DEVICE DESIGNED FOR INSTALLATION IN AREAS WHERE THERE IS ADEQUATE VEHICLE RECOVERY SPACE. THE AREA BEHIND POSTS 1 THROUGH 4 SHOULD BE FREE OF FIXED OBJECTS TO ENSURE PROPER PERFORMANCE.
 - THE PERMISSIBLE ALTERNATIVE FOR GUARDRAIL END TREATMENT TYPE 4A IS THE PATENTED MFLEAT, MANUFACTURED BY ROAD SYSTEMS INC. OF BIG SPRING, TEXAS.
 - REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR REQUIREMENTS RELATED TO THE POST, RAIL ELEMENT, AND POST-TO-RAIL CONNECTION. KEEP SHOP DRAWINGS AVAILABLE ON-SITE FOR REFERENCE DURING INSTALLATION.
 - INSTALL MFLEAT WITH A 3-FOOT OFFSET ACCORDING TO THE MANUFACTURER'S ASSEMBLY INSTRUCTIONS.
 - OBJECT MARKER TYPE 3 (SEE CURRENT MUTCD MANUAL FOR DETAILS).
 - INSTALL THE SYSTEM AFTER ALL SITE GRADING REQUIREMENTS HAVE BEEN COMPLETED.
 - THERE IS NO RADIUS RAIL WITHIN THE MFLEAT.
 - FOR MAINTENANCE AND REPAIR PROJECTS, USE GUARDRAIL SYSTEM TRANSITION RBR-018 TO TRANSITION BACK TO A 27" OR 29" GUARDRAIL HEIGHT IF ONLY THE TERMINAL IS BEING REPLACED.
- BID ITEMS AND UNIT TO BID:
- | | |
|---|------|
| G/R END TREATMENT TYPE 4A | EACH |
| ROADWAY OR BORROW EXCAVATION OR EMBANKMENT-IN-PLACE | CUYD |
| OBJECT MARKER TY 3 | EACH |



SCAN THE QR CODE TO ACCESS THE ASSEMBLY INSTRUCTIONS FOR THE MFLEAT.



THIS IS A PROPRIETARY ITEM: MFLEAT (BY ROAD SYSTEMS, INC.)

THIS STANDARD DRAWING PROVIDES GUIDANCE ONLY. CONSULT THE MANUFACTURER FOR THE LATEST DETAILS AND INSTALLATION INSTRUCTIONS.

REVISION DATE: 08/27/2026
REVISION NUMBER: 0

SUBMITTED: 08-11-2025
DIVISION DIRECTOR: W. J. Lujan
DATE: 08-11-2025
APPROVED: J. Ballinger
STATE HIGHWAY ENGINEER: J. Ballinger
DATE: 08-11-2025

BARRIERS



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS
TEAM KENTUCKY
TRANSPORTATION COUNCIL

GUARDRAIL END TREATMENT

GUARDRAIL END TREATMENT TYPE 4A

STANDARD DRAWING NUMBER
RBR-035-013