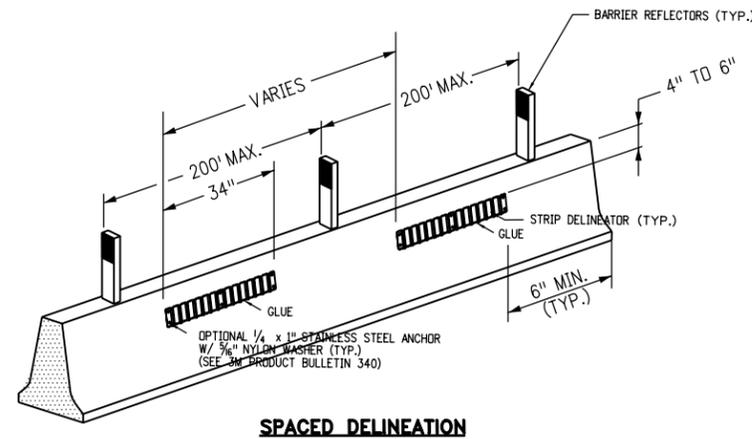
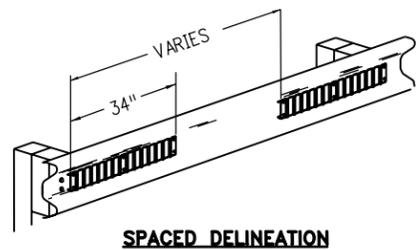


TYPICAL INSTALLATION DETAIL FOR CONCRETE BARRIERS

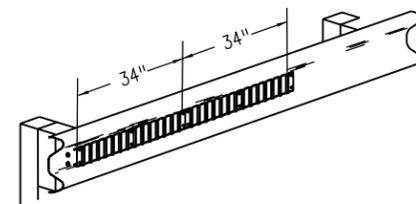


SPACED DELINEATION

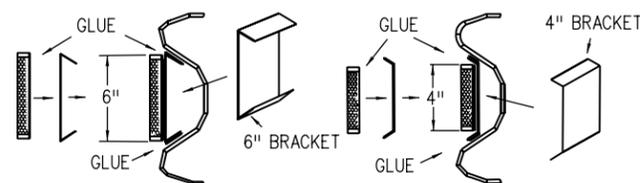
TYPICAL INSTALLATION DETAIL FOR GUARDRAIL TYPE 3



SPACED DELINEATION



CONTINUOUS DELINEATION



ATTACHMENT DETAILS

TYPICAL STRIP DELINEATOR INSTALLATION

1. THIS DEVICE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO CONTACT THE MANUFACTURER REPRESENTATIVE WHENEVER THERE IS A QUESTION REGARDING APPLICATION PROCEDURES OR SUBSTRATE CONDITIONS.
2. THE COLOR OF THE REFLECTIVE SURFACE SHALL MATCH THE COLOR OF THE ADJACENT ROADWAY EDGE LINE.
3. AT TIME OF INSTALLATION, CONTACTING SURFACE SHALL BE DRY AND MOISTURE-FREE.
4. AFTER DELINEATOR INSTALLATION, SURFACES SHOULD STAY DRY WITHOUT RAIN IN THE FORECAST FOR AT LEAST 8 HOURS.
5. SURFACE PREPARATION, BRACKETS AND GLUE (OR EQUIVALENT) SHALL BE INCLUDED IN THE COST OF EACH DELINEATOR STRIP.

CONCRETE BARRIER REFLECTOR NOTES

1. CONCRETE SURFACE PREPARATION, ADHESIVE, AND METHOD OF APPLICATION SHALL BE AS RECOMMENDED BY THE REFLECTOR MANUFACTURER.
2. TO ASSURE A STRAIGHT LEVEL APPLICATION, SNAP A CHALK LINE ACROSS THE BARRIER.
3. FOR MOUNTING THE STRIP DELINEATORS TO CONCRETE BARRIER, INCLUDING THE BRACKETS, USE 3M WINDO-WELD SUPER FAST URETHANE GLUE OR EQUIVALENT APPLIED AT 60 DEGREES FAHRENHEIT IN DRY WEATHER IS RECOMMENDED. THIS PRODUCT IS AVAILABLE IN STANDARD CAULKING TUBE AND SHOULD BE APPLIED TO THE BRACKETS AND PANELS WITH A CONSTRUCTION STYLE CAULKING GUN, AND/OR USE 1/4" X 1" STAINLESS STEEL ANCHOR WITH 5/16" NYLON WASHER, AS SPECIFIED IN 3M PRODUCT BULLETIN 340.
4. UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER, A 200-FOOT MAXIMUM TANGENT AND CURVE SPACING APPLIES TO BARRIER REFLECTORS ALONG THE TOP OF THE BARRIER.

W-BEAM GUARDRAIL NOTES

1. TWO DIFFERENT STYLES OF DELINEATOR MOUNTING BRACKETS ARE AVAILABLE. THERE IS ONE TYPE FOR THE 4" DELINEATOR AND ANOTHER FOR THE 6" DELINEATOR. THE BRACKETS MUST BE MATCHED TO FIT THE EXACT 4" OR 6" WIDE DELINEATOR PANELS. SIZE OF THE DELINEATOR PANELS SHALL BE SPECIFIED IN THE PLANS.
2. IN SNOWPLOW AREAS, USE THE 4" PANELS THAT WILL RECESS INTO THE W-BEAM GUARDRAIL, WHICH PROTECTS IT FROM THE SNOWPLOW DAMAGE.
3. METAL GUARDRAIL SHALL BE WIRE BRUSHED/SANDED, THEN CLEANED WITH ISOPROPYL ALCOHOL WHERE THE BRACKETS WILL ADHERE TO THE GUARDRAIL.
4. FOR MOUNTING THE STRIP DELINEATORS TO GUARDRAIL, INCLUDING THE BRACKETS, THE USE OF 3M WINDO-WELD SUPER FAST URETHANE GLUE OR EQUIVALENT APPLIED AT 60 DEGREES FAHRENHEIT IN DRY WEATHER IS RECOMMENDED. THIS PRODUCT IS AVAILABLE IN STANDARD CAULKING TUBE AND SHOULD BE APPLIED TO THE BRACKETS AND PANELS WITH A CONSTRUCTION STYLE CAULKING GUN, AS SPECIFIED IN BY 3M PRODUCT BULLETIN 340.
5. MUST USE MINIMUM THREE BRACKETS PER PANEL CORRESPONDING TO THE PRE-DRILLED DELINEATOR HOLES.

Computer File Information		Sheet Revisions		Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9458 Safety & Traffic Engineering Branch KCM/KEN	DELINEATOR INSTALLATIONS	STANDARD PLAN NO.
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