**TYPICAL BARRIER VIEW**

**TYPICAL REFLECTOR DETAILS FOR CONCRETE BARRIER**

**TYPICAL ADJUSTABLE REFLECTOR BRACKET**

**TYPICAL GUARDRAIL REFLECTOR TAB**

**MOUNTING POSITION ON GUARD RAIL TYPE 3**

**TYPICAL GUARDRAIL REFLECTOR TAB**

**BRACKET NOTES**

1. The adjustable reflector bracket is to be used to traffic guide, back-guide or for guardrail installation at bends.
2. Bracket brackets shall be fabricated from either galvanized steel, not less than 626# gauge galvanized not less than 0.020 inch thickness.
3. Bolt nuts and washers shall be galvanized or cadmium plated.
4. All bracket holes are 5/8" diameter and bracket posts required as additional wall of 2½" below the top wall provided in the post.
5. Selector device the bracket aperture to be used as shown in Fig.
6. Bend the threads of all bolts to prevent rusting or loosening.

**TYPICAL SLEEVE INSTALLATION FOR MEDIAN DEFLATOR POSTS**

**BARRIER REFLECTOR NOTES**

1. The vertical reflector shall be used in bends and under guardrails.
2. The color of the reflective surface shall match the color of the guardrail post.
3. Concrete surface preparation, grinding, and method of application shall be as recommended by the reflector manufacturer.
4. Unless otherwise noted in the plans or directed by the engineer, a 626# gauge galvanized bracket and curved bracket shall be used.
5. All reflector brackets are standard, 626# gauge brackets. Reflectors in this joint reflector must be required in the specifications of the construction of the project.
6. Metal barrier reflectors shall be Type 2 (yellow-yellow, back-to-back).
7. For a three-year period, barrier reflectors shall be Type 3 (yellow-yellow, back-to-back).
8. For temporary concrete barrier, reflectors shall be installed that meet the minimum requirements of standard temporary reflectors, installation notes: the minimum spacing shall be 1/2 ft, and they will not be paid for but are included in the work.
TYPICAL REFLECTOR STRIP INSTALLATION

1. REFLECTOR STRIPS SHALL BE SPACED AT INTERVALS OF 20 FT FOR TANGENT SECTIONS OF BARRIER AND 10 FT FOR CURVED SECTIONS OF BARRIER.
2. THE REFLECTOR STRIPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE INSTALLER TO CONTACT THE MANUFACTURER REPRESENTATIVE. HOWEVER, THERE IS A GENERAL RECOMMENDATION: APPLICATION PROCEDURES ON CONCRETE.
4. AT THE TIME OF INSTALLATION, THE CONTACTING SURFACE SHALL BE DRY AND DUST-FREE.
5. AFTER REFLECTOR STRIP INSTALLATION, SURFACES SHOULD STAY DRY FOR A 90 MINUTE PERIOD.
6. SURFACE PREPARATION, BRACKETS, BOLTS, AND GLUE FOR EQUIVALENCY SHALL BE INCLUDED IN THE COST OF EACH DELINEATOR.

CONCRETE BARRIER NOTES

1. CONCRETE SURFACE PREPARATION, ADHESIVE, AND METHOD OF APPLICATION SHALL BE AS RECOMMENDED BY THE REFLECTOR MANUFACTURER.
2. TO ACHIEVE A STRAIGHT, LEVEL APPLICATION, SNAP A CHALK LINE ACROSS THE BARRIER.
3. FOR MOUNTING THE REFLECTOR STRIP TO CONCRETE BARRIER, INCLUDING THE BRACKETS, USE OF A MINIMUM SUPER FAST DRYTIME GLUE OR EQUIVALENCY RECOMMENDED FOR USE WITH REFLECTOR STRIPS IS REQUIRED. THE PRODUCT IS AVAILABLE IN A STAINLESS STEEL ADHESIVE."84 X 1/4" STAINLESS STEEL BRACKET WITH SUPERFAST DRYTIME GLUE AS SPECIFIED IN THE REFLECTOR MANUAL.
4. UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER, A 2" GAP BETWEEN MOUNTING AND CURVE SPACING APPLIED TO BARRIERS EXCEEDING THE TOP OF THE BARRIER.

GUARDRAIL TYPE 3 NOTES

1. THE USE OF REFLECTOR STRIPS ON GUARDRAIL TYPE 3 IS SUPPLEMENTAL TO THE REFLECTOR STRIP INSTALLATION.
2. TWO DIFFERENT STYLES OF MOUNTING BRAKETS ARE AVAILABLE; ONE FOR THE 4" REFLECTOR STRIP AND ANOTHER FOR THE 6" REFLECTOR STRIP. THE BRACKETS MUST BE WASHED TO FIT THE LEASH 4" OR 6" REFLECTOR STRIP. THE 4" REFLECTOR STRIP IS TYPICALLY MOUNTED TO A BARRIER THAN CAN BE INSTALLED AS SPECIFIED IN THE PLANS.
3. METAL GUARDRAILS SHALL BE WASHED/SANITIZED, THEN CLEANED WITH DISINFECTANT. THE BRACKETS WILL ADHESIVE TO THE 2-1/2" X 2-1/2".
4. FOR MOUNTING, THE REFLECTOR STRIP TO GUARDRAILS, THE USE OF A MINIMUM SUPER FAST DRYTIME GLUE OR EQUIVALENCY RECOMMENDED FOR USE WITH REFLECTOR STRIPS IS REQUIRED. THE PRODUCT IS AVAILABLE IN A STAINLESS STEEL ADHESIVE."84 X 1/4" STAINLESS STEEL BRACKET WITH SUPERFAST DRYTIME GLUE AS SPECIFIED IN THE REFLECTOR MANUAL.
5. INSTALLATION REQUIRES THE USE OF THREE BRACKETS SPARE PER REFLECTOR STRIP CORRESPONDING TO THE PRE-INSTALL REFLECTOR STRIP NOTES.
DRIVEABLE METHOD

TYPICAL CONDITIONS

SOFT SOIL CONDITIONS

POST MOUNTED

GUARDRAIL

CABLE RAIL

CONCRETE BARRIER

GENERAL NOTES

1. IMPACT RESISTANT DELINEATOR POSTS, COMPRISING OF HIGH DENSITY THERMOPLASTIC CONSISTING OF A MINIMUM OF 70% BY VOLUME POST CONSUMER RECYCLED HDPE, WITH AN INTERSTATE GREEN, PREMIUM UV INHIBITED, CO-EXTRUDED HDPE SHELL AND A FLEXIBLE INSERT WHICH TRANSITIONS FROM SQUARE TO ROUND.

2. THE TOP OF TUBULAR POSTS SHALL BE PERMANENTLY CLOSED TO PREVENT MOISTURE OR DEBRIS FROM ENTERING.

3. THE SIDE OF THE POST FACING TRAFFIC, UPON WHICH THE DELINEATOR IS TO BE MOUNTED, SHALL HAVE A FLAT SURFACE WITH MINIMUM DIMENSIONS OF 3.25 INCHES IN WIDTH BY 12 INCHES IN LENGTH. THE TEXTURE OF THE PROJECTED SURFACE SHALL BE SMOOTH AND SUITABLE FOR THE ADHERENCE OF REFLECTIVE SHEETING WITHOUT PREPARATION OTHER THAN WIPING WITH A CLEAN CLOTH DAMPENED WITH MINERAL SPIRITS TO REMOVE OIL-TYPE CONTAMINANTS.

4. FOR POST MOUNTED AND CLAMP MOUNTED DELINEATORS, THE BOTTOM OF THE POST SHALL HAVE A MINIMUM OF 12 INCHES LENGTH FLAT MOUNTING SURFACE WITH THE MINIMUM DIMENSION OF 3.25 INCHES IN WIDTH.

5. THE WIDTH OF THE POST AT ANY POINT EXCLUDING THE BASE, IF ANY, SHALL BE A MAXIMUM OF 4¼ INCHES.

6. THE OUTSIDE DIAMETER OF THE TUBULAR POST SHALL BE A MAXIMUM OF 2½ INCHES.
GENERAL NOTES

1. MOUNTING HEIGHT TO BOTTOM OF 8" X 10" EMERGENCY AND AUTHORIZED VEHICLES ONLY SIGN SHALL BE 7 FEET FROM ORIGINAL GROUND.

2. SEE TUBULAR STEEL SIGN SUPPORT DETAILS (S-612-4) FOR CONCRETE Fitting INFORMATION FOR SOCKET SYSTEM INSTALLATIONS AND ADDITIONAL POST INSTALLATION REQUIREMENTS.

3. PLACE TWO (2) CROSSOVER MARKERS, ONE 500 FEET IN ADVANCE OF MEDIAN CROSSOVER AND ONE ON EACH SIDE OF CROSSOVER AS SHOWN ON DETAIL.

4. CROSSOVER MARKERS SHALL BE LOCATED IN-LINE WITH DELINEATOR POSTS.

5. FOR VISUALLY CONSTRAINED MEDIAN CROSSOVERS, MULTIPLE SIGN PANELS (S-612-4 AND RU-500) MAY NEED TO BE PLACED WITHIN THE CROSSOVER IN SEPARATE POSTS AS DIRECTED BY THE ENGINEER.

6. THE POLYETHYLENE PLASTIC PANEL MAY BE USED ON EITHER POLYETHYLENE BLEND POST OR PC POST INSTALLATIONS. IN CONTRAST, THE CLASS 1 SIGN PANEL SHALL ONLY BE USED ON P-POST INSTALLATIONS.

MEDIAN CROSSOVER INSTALLATIONS

SIGN PANEL

DRIVEABLE
(PREFERRED)

OCKET SYSTEM
(ALTERNATE)

Computer File Information

Sheet Revisions

Colorado Department of Transportation

DELINEATOR
INSTALLATIONS

PROJECT DETAIL NO.
S-612-1

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