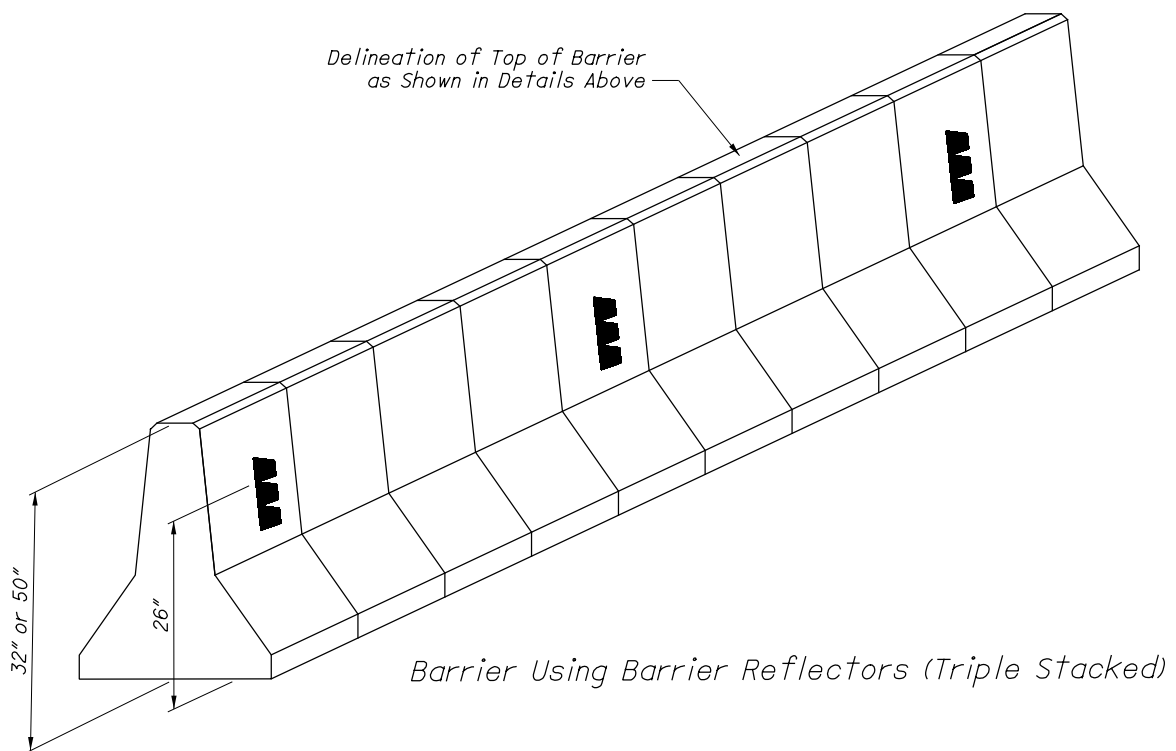
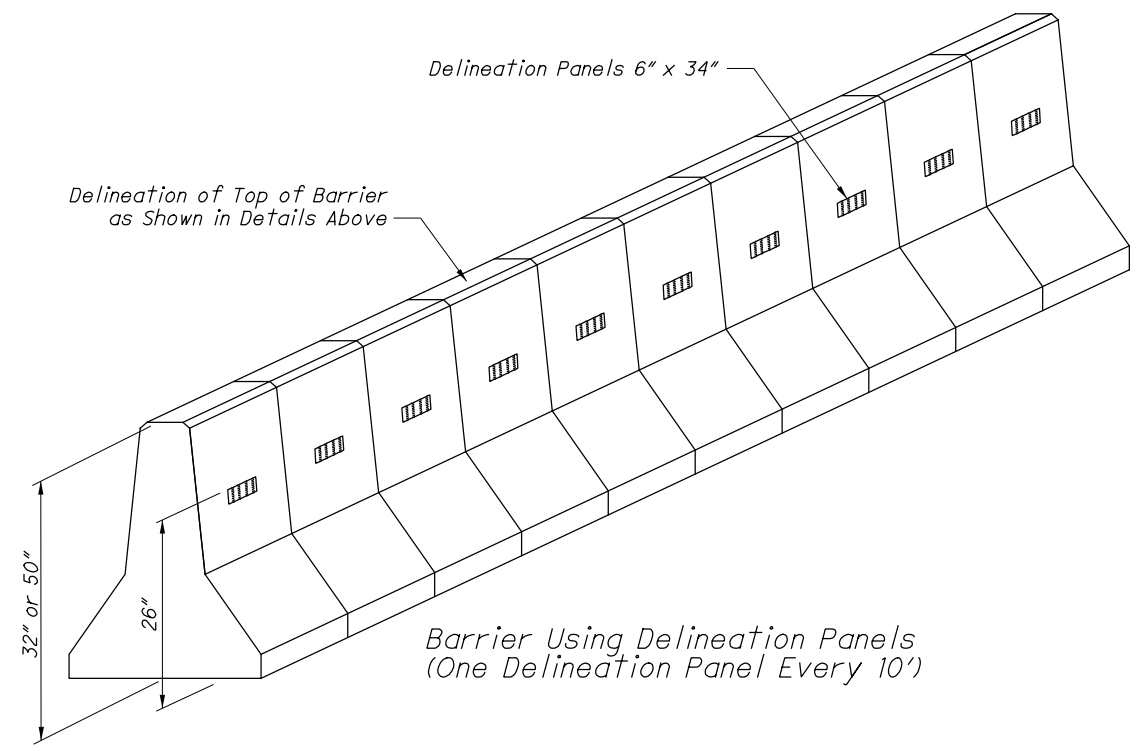


STANDARD BARRIER DELINEATION METHODS



INCREASED BARRIER DELINEATION METHODS WHEN CALLED FOR IN THE PLANS

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR	REVISION DATE
David L. Holstein	01-17-2020
STOPS ENGINEER	Willis
OFFICE OF ROADWAY ENGINEERING	
STANDARD ROADWAY CONSTRUCTION DRAWING	
BARRIER AND IMPACT ATTENUATOR DELINEATION	
SD NUMBER	THIS DRAWING REPLACES MT-101.70 DATED 07-20-2018.
MT-101.70	
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NOTES:

1. Portable barrier (concrete or steel) shall be delineated as follows unless indicated otherwise in the plans. Permanent concrete barrier located within 5' of the edge of the adjacent traveled lane shall also be delineated as follows unless indicated otherwise in the plans.

<u>BARRIER TYPE</u>	<u>STANDARD BARRIER DELINEATION</u>
32" or 50" high without glare screen	Barrier reflectors at 50' max. center-to-center (C-C). Top mounted object markers 6" x 12" at 50' max. C-C. Barrier reflectors and object markers to be equally alternated.
32" high with glare screen	Barrier reflectors at 50' max. C-C. Glare Screen delineation using sets of 3 vertical retroreflective stripes on consecutive paddles 2" x 12" at 50' max. C-C of stripe sets. Barrier reflectors and glare screen delineation sets to be equally alternated.

2. Either one of the following increased barrier delineation methods shall be provided when specified in the plans:

<u>BARRIER TYPE</u>	<u>INCREASED BARRIER DELINEATION</u>
32" high with or without glare screen, or 50" high without glare screen	<p>In lieu of barrier reflectors, place one section of delineation panel, crimped, 6" x 34" every 10' max for NCHRP 350 PB and 12' max for MASH PB, spaced evenly along the length of the run. The top of the barrier shall be provided with object markers or with reflective stripes on glare screens as specified in Note 1 above.</p> <p>or,</p> <p>Barrier reflectors are to be provided at 50' C-C, and stacked in sets of 3 barrier reflectors per set. The locations of the barrier reflectors shall be equally alternated from teh locations of object markers or glare screen retroreflective stripes.</p>

BARRIER REFLECTORS - VERTICAL PLACEMENT

3. The tops of the single barrier reflector shall be mounted at 26" from the base.
4. Where sets of three barrier reflectors are stacked vertically on the barrier, there shall be no open space between the adjacent barrier reflectors in the stack. The middle reflector shall be mounted such that the top of the reflector is located at 26" from the base. Longitudinal spacing and the alternating of barrier reflectors and object markers shall be as called for in Note 1 above.

IMPACT ATTENUATORS

5. The surface of the nose cone of the impact attenuator shall be solid fluorescent yellow, without stripes, Type G retroreflective sheeting complying with CMS 730.19.

GLARE SCREEN PANELS

6. Delineation of the glare screen panels shall be provided by placement of vertical stripes on the glare screen. Vertical stripes, Type G, H, or J sheeting, 2" x 12", shall be placed in groups of three, on adjacent paddles, at intervals of 50' C-C. Each stripe shall be placed on the 2" of the paddle closest to and facing oncoming traffic.
7. Glare screens shall be designed using a 20 degree cut-off angle of the paddle based on tangent alignment. This cut-off angle shall be used throughout the barrier length without regard to barrier curvature.
8. Glare screen panels shall be a uniform height.

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STANDARD ROADWAY CONSTRUCTION DRAWING

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STATE ENGINEER

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