



## 54" MASSACHUSETTS S3 RAILING

### NOTES TO DESIGNER:

The Massachusetts S3 steel rail has a height of 4'-6<sup>1</sup>/<sub>8</sub>" and is used for Adjusted Test Level TL-3 for MASH criteria. The crash tested rail has been modified to meet VDOT pedestrian rail height requirements. This railing is for use as a traffic barrier for sidewalk applications. The standard may be used when an open railing is required.

The standard showing railing miscellaneous details (BRMA-3) and the appropriate terminal wall standard (BRMA-8 thru BRMA-11) are to be included in plans when using this standard.

If an initial bituminous overlay is used on the bridge at the time of construction, vertical dimensions and dimensions for reinforcing steel need to be adjusted. The dimensions shown are established from top of the roadway surface. Therefore, for example if a 1" overlay at the edge of travel way is set, the overall 4'-6<sup>1</sup>/<sub>8</sub>" height of the rail would need to be adjusted to 4'-7<sup>1</sup>/<sub>8</sub>".

It is the Contractor's responsibility to determine the number of reinforcing bars required as well as any other details or dimensions. Therefore, these items are to be left blank in the Reinforcing Steel Schedule.

### ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

#### SECTION A-A:

Modify vertical dimension (4'-6<sup>1</sup>/<sub>8</sub>" railing height) as noted above if an initial overlay is used on the bridge.

#### REINFORCING STEEL SCHEDULE:

Add dimension and length for rebar RG0501.

For projects with bituminous overlay, modify rebar lengths to allow for dimension changes.

#### NOTES:

Complete sheet number for rail connections and miscellaneous details.

Complete sheet number for terminal wall.

#### TITLE BLOCK:

Replace standard designation with plan number.