



## ILLINOIS STEEL RAILING

### TERMINAL WALL ON SUPERSTRUCTURE WITH DECK SLAB EXTENSION

#### NOTES TO DESIGNER:

The Illinois steel railing has a height of 2'-8" and has been crash tested for TL-2 (TL = test level). The standard has a curb section. This rail is for use as a traffic barrier and shall not be used for sidewalk applications. The standard may be used when an open railing is required.

Standard BIR-3 (miscellaneous details) must be included in plans when using this standard.

Terminal wall is detailed on the deck slab extension of a superstructure or a slab span. A 2'-0" wide section from the edge of superstructure is extended further from the end of deck slab to an overall distance of 1'-6" from the end of the terminal wall to the back of abutment backwall. This extended concrete section and the terminal wall shall be part of the steel railing for payment. The superstructure plan would need to be adjusted to reflect the 1'-6" slab extension at the corner of the end deck slab.

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 the top of the roadway surface. Therefore, for example if a 1" overlay at the curb is set, the 7" curb dimension and the overall 2'-8" height of the rail would need to be adjusted to 8" and 2'-9" respectively. In addition, all height dimensions of bolt locations in relation to top of deck slab need to be adjusted by 1"

It is the Contractor's responsibility to determine the number of reinforcing bars required as well as any 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:

##### ELEVATION:

Provide dimension for terminal wall end support.

##### SECTION A-A:

Modify vertical dimensions (7" break and 2'-8" railing height) as noted above if an initial overlay is used on bridge.

##### SECTION B-B:

Modify vertical dimension 9" and the range (1'-9<sup>3</sup>/<sub>4</sub>" min. – 1'-10<sup>3</sup>/<sub>4</sub>" max.) for bolt locations as noted above if an initial overlay is used on bridge

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**ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD: (cont'd)**

#### SECTION D-D:

Modify vertical dimensions (7" curb and 2'-8" railing height) as noted above if an initial overlay is used on bridge.

Provide depth for terminal wall end support.

#### SECTION E-E:

Modify vertical dimension (7" curb) as noted above if an initial overlay is used on bridge.

#### REINFORCING STEEL SCHEDULE:

Modify bars if needed due to slab depth, cross slope, or initial overlay is used on bridge.

Complete dimension and length for rebar RV0404.

Complete length for rebar RG0501.