** Length of Bridge Rail **

* Dimension shown is for a typical 15'-0" long approach slab. Spacing may be adjusted up to a maximum of 3'-0" as needed. Additional posts shall be added for dimensions greater than 9'-6".

** Project bridge plans shall show the length of bridge rail and the layout of posts, rails, joint locations, approach slabs, guard rail transitions and elevations.

RAILING NOTES:

* All posts shall be vertical. Panel lengths of rail shall be continuous and attached to a minimum of two posts. Rail splices shall be located at expansion joints and shall be constructed as detailed.

* All exposed steel edges shall be ground smooth. All structural steel rail assembly components shall be galvanized after fabrication in accordance with ASTM A123. All galvanizing that has been damaged in handling, transportation or welding shall be repaired by the application of a paste compound of an approved zinc powder and flux.

* All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5 Bridge Welding Code, latest Edition.

GENERAL NOTES:

Construction Specifications - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.


This barrier has been successfully crash tested and is structurally evaluated as meeting the requirements of NCHRP Report 350 Test Level 4.

* All Concrete shall be Class 5' (f'c = 4500 psi). Reinforcement steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above EL 4000 ft.

* All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be to center of bars unless otherwise noted.

* All reinforcing steel shall have 1/2" inch clear cover unless noted otherwise.

* Structural tubing (TS) shall be ASTM A500 Grade B. Anchor plates, posts and other structural steel shall conform to ASTM A36 unless noted otherwise.

* All anchor bolts, studs, nuts and washers shall be ASTM A325 and shall be galvanized in accordance with the requirements of ASTM A153.

* Labor and materials for steel railing assembly, curbs, and blocks, anchorage bars and hardware are included in the pay item (Item No. 6011134).

* Item No. 6011134 TWO TUBE BRIDGE RAIL MEASURE: Linear Foot

* Dimensions shall not be scaled from drawings.

** Bridge Group Standard Drawing**

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

A. M. ALZUBI
D. L. EBERHART

DATE
06/12

P.R. DISTRIBUTION DATE

PRIOR DISTRIBUTION DATE

STANDARDS ENGINEER
RECOMMENDED FOR APPROVAL
GROUP MANAGER
APPROVED
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION

Note to Designer:
The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

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