
Index 630-010 Conduit Details - Embedded

ORIGINATION

Date: 5/15/25

Name: Joshua Turley

Phone: 414-4475

Email: Joshua.turley@dot.state.fl.us

COMMENTARY

Conduit height in the barrier is being limited to avoid conflicts with conduits when drilling holes for anchorage. This aligns with changes to Index 700-012, where the sign mounting plate was raised.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **BLUE** = Standard Plans Response **GREEN** = Change Made to Index

Name: Farhad Raof

Date: 7/9/25

COMMENT: The draft proposes to add a comment of 1'-6" max elevation limit on pages 1,2 and 4 of SPI 630-010.

This is practical for the bridge traffic railings where the height of railing is 36" or more. Whereas, for the concrete parapet walls the height is 27" only.

Comment: Please evaluate the scenario and consider adding a note that for concrete parapet walls the maximum elevation to the top of conduit from coping is 14". Please note the 12" embedment for the anchor bolt on detail B.

RESPONSE: Thank you for your comment. We agree that a note should be added to cover this.

CHANGE MADE TO INDEX: Yes. Added elevation dimension details to Note 5.

Response Date: 7/14/25

CONDUIT GENERAL NOTES:

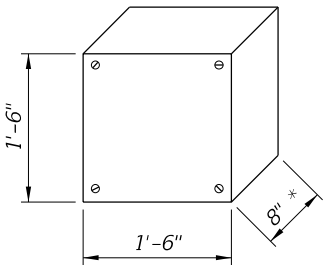
1. Furnish and install approved Conduits, Fittings and Embedded Junction Boxes (EJB's) in accordance with Specification Sections 630 and 635, this Standard, the National Electric Code (NEC) and as directed by the Engineer.
2. Furnish and install Embedded Junction Boxes (EJB) with weatherproof covers sized in accordance with NEC requirements and the maximum size limits shown. Install EJB adjacent to the Begin and End of Bridges, Begin and End of Retaining Walls, (except omit EJB adjacent to the Bridge unless a precast Traffic Railing with junction slab is used), and at other locations as necessary to maintain 300 foot maximum spacing. See Plans for additional locations and details.
3. For Conduit not designated for future use, see Plans for details. For Conduit designated for future use, stub out and cap the Conduit. Drive a 3'-0"± long ¾" (min.) diameter Steel Pipe flush with the ground line adjacent to the end of the Conduit as shown on Sheets 2, 3 or 4. Provide the location of the stub out with Steel Pipe to the Engineer for inclusion on the As-Built Plans.
4. Shift vertical Railing reinforcement symmetrically to provide 2" clearance to EJB. Space shifted vertical reinforcement at minimum 3" centers. Cut horizontal Railing reinforcement to provide 2" clearance to EJB and provide supplemental reinforcement as shown. To facilitate placement of Conduit, Expansion Fittings, and Expansion/Deflection Fittings, shift reinforcing a maximum of 1" but do not cut railing reinforcing to facilitate Conduit or Fittings. Do not bundle conduits, or Conduit and horizontal reinforcement.

5. Place conduits as indicated in this Standard unless Structures Plans indicate fewer.

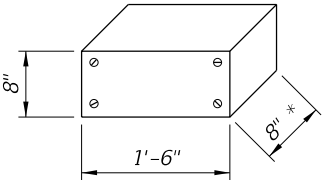
Max elevation of the top of conduit is 1'-6" above top of coping for traffic barriers and 1'-2" for parapets.

Updated Note

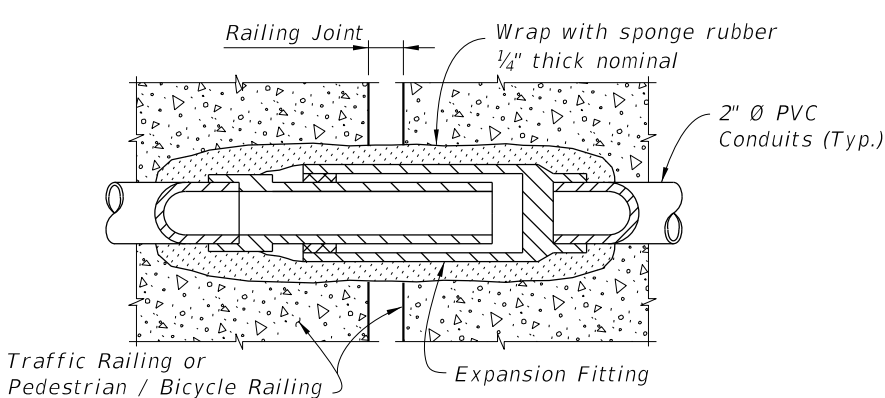
* Reduce to 6" maximum when installed in Pedestrian/ Bicycle Railings.



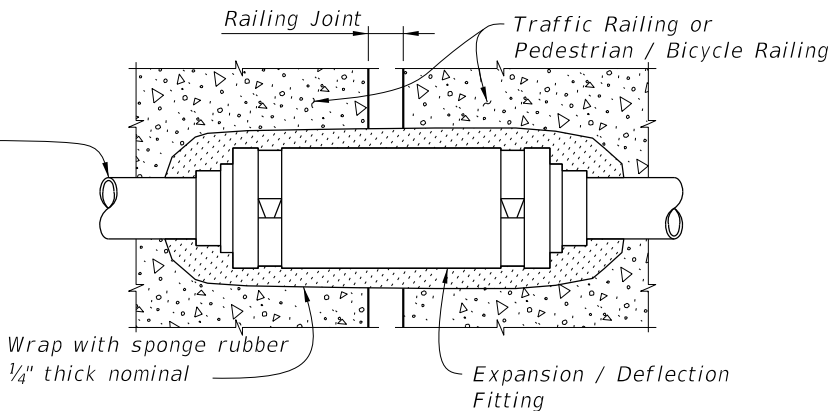
EJB "A"
Double or Triple Conduit
(Maximum Dimensions)



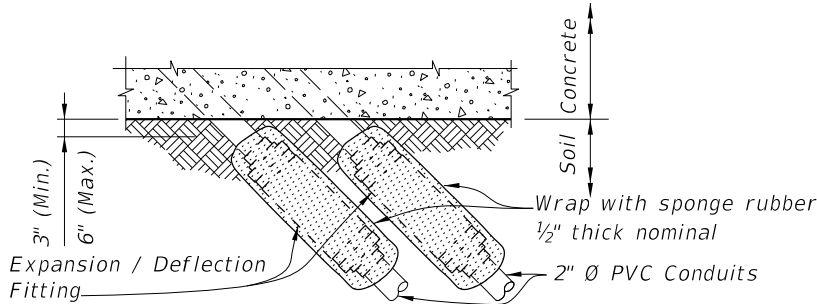
EJB "B"
Single Conduit
(Maximum Dimensions)



DETAIL "A"
EXPANSION FITTING DETAIL



DETAIL "B" EXPANSION / DEFLECTION
FITTING DETAIL (CONCRETE / CONCRETE)



DETAIL "C" EXPANSION / DEFLECTION
FITTING DETAIL (CONCRETE / SOIL)



FY ~~2025-26~~
STANDARD PLANS

CONDUIT DETAILS - EMBEDDED

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