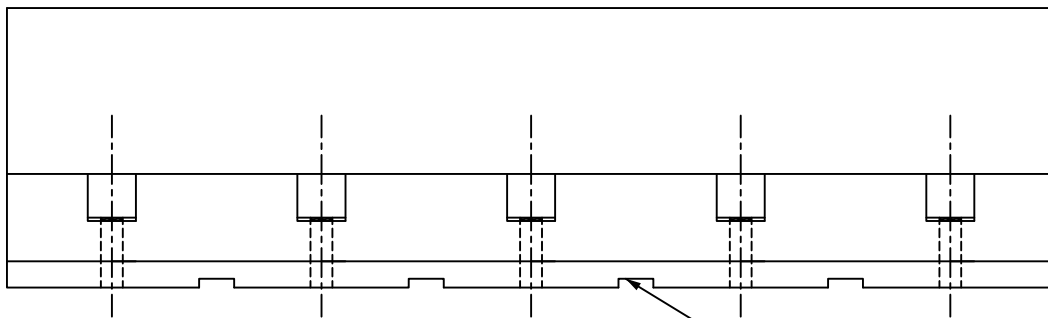


PLAN VIEW

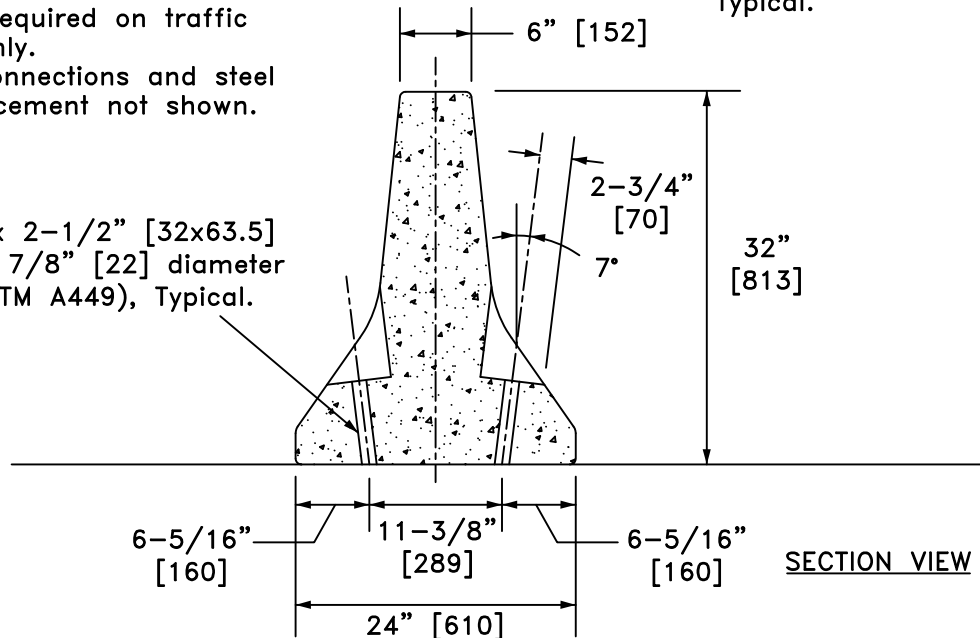


ELEVATION VIEW

**NOTES:**

1. Bolts required on traffic side only.
2. End connections and steel reinforcement not shown.

1-1/4" x 2-1/2" [32x63.5]  
slot for 7/8" [22] diameter  
bolt (ASTM A449), Typical.



SECTION VIEW

SOUTH CAROLINA DOT TEMPORARY CONCRETE BARRIER



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## INTENDED USE

The SCDOT temporary concrete barrier incorporates temporary anchorage for use on highway pavements or bridge decks. The barrier is 32 in. [813mm] high, 6 in. [152mm] at the top, and 24 in. [610mm] wide at the base. The barrier is a New Jersey profile concrete barrier composed of 10' [3048mm] sections that are anchored on the traffic side with five (5) anchors. The anchor rods pass through a slot fabricated into the barrier wall, and are inserted into a 1 1/8 in. [28.5mm] diameter hole, 6-1/2 in. [165mm] deep into the concrete bridge deck. Each anchor is secured in the anchor hole with a two-component epoxy-resin bonding agent. Drawings illustrating the temporary concrete barrier with the anchorage system are as per FHWA B-5, as are the epoxy grouting specifications.

A through-bolt anchor system that utilizes variable length 1 in. [25.4mm] diameter ASTM A449 fully threaded galvanized bolts is also acceptable. For this configuration, the anchor bolt will pass from underneath the bridge deck through a barrier washer via a typical 1-1/8 in. [28.5mm] diameter hole drilled through the bridge deck. A slot is fabricated into the barrier wall, which is secured with a second barrier washer and a heavy hex nut. Tighten each nut of the anchor system snug, and peen the threads of the anchor bolt to prevent back turning of the nut. Standard construction drawings and specifications are available upon request.

SWC13 is accepted in accordance with NCHRP Report 350, Test Level 3 (TL-3).

## APPROVALS

Federal Highway Administration (FHWA) Acceptance Letter B-170, April 22, 2008.

Federal Highway Administration (FHWA) Acceptance Letter B-170A, February 20, 2009.

Federal Highway Administration (FHWA) Acceptance Letter B-170B, September 14, 2009.

## CONTACT INFORMATION

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