



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

FROM: G. R. Perfetti, P. E.
State Structures Engineer

DATE: August 28, 2014

SUBJECT: THREADED INSERTS IN CORED SLABS AND BOX BEAMS

At the request of the Construction Unit, detail permitted threaded inserts on the exterior face of exterior cored slab and box beam units. Threaded inserts provide the option of installing falsework to:

- gain access for forming concrete bridge components such as curbs, barrier rails, parapets, and sidewalks,
- facilitate the application of form liners to barrier rail faces and/or
- prevent falling debris during construction.

The threaded inserts shall be spaced at 4'-0" centers. The size of the threaded inserts will be provided by the Contractor prior to casting the cored slab or box beam units. Place the following notes on the plans:

The permitted threaded inserts are detailed as an option for the Contractor to attach falsework and formwork during construction.

The permitted threaded inserts in the exterior units shall be sized by the Contractor, spaced at 4'-0" centers and galvanized in accordance with Section 1076 of the Standard Specifications. Stainless steel threaded inserts may be used as an alternate.

The permitted threaded inserts shall be grouted by the Contractor immediately following removal of the falsework.

The cost of the permitted threaded inserts shall be included in the price bid for the precast units.

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This policy is effective with the November 2014 letting. The Design Manual, Standard Drawings, Cored Slab Standard Design Plans, and Box Beam Standard Design Plans have been updated and are available online.

GRP/DCM/TMG/kaw

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