



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

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SECRETARY

MEMORANDUM TO: Project Engineers
Project Design Engineers

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

DATE: October 3, 2011 (Rev. December 22, 2011)

SUBJECT: ADT Criterion for Sub-Regional Tier Bridge Type

To assist in selecting the appropriate bridge type for Sub-Regional Tier, the criteria in Section 6.1.2 – *Span Layout* of the Design Manual has been revised to state the following:

In general, the use of cored slabs and box beams should only be considered for bridges on the Sub-Regional Tier. If the Average Daily Traffic (ADT) on the bridge exceeds 5,000, investigate the Tractor Trailer Semi-Truck (TTST) volume. If the TTST daily volume exceeds 100, use an alternate bridge type, such as a girder bridge with a cast-in-place deck slab, or use a cored slab or box beam bridge with a concrete overlay. If the TTST daily volume is less than 100, cored slabs and box beams may be used with an asphalt overlay.

GRP/BCH/GM

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