



November 14, 2006

MEMORANDUM TO TEAM LEADERS AND CONSULTANTS

SUBJECT: Design Manual Errata
Section Properties for Prestressed Concrete Beams

Figure 15.5-1 (on pages 15-30 and 15-31) of the *SCDOT Bridge Design Manual* shows dimensions and section properties for prestressed concrete beams. The section properties for the Type I Modified Beam and the 54" Modified Bulb-Tee Beam are not correct. The correct values are indicated below:

Type I Modified Beam

$$I = 26,495 \text{ in}^4$$

54" Modified Bulb-Tee

$$A = 707 \text{ in}^2$$

$$W = 737 \text{ plf}$$

$$Y_{\text{TOP}} = 26.21''$$

$$Y_{\text{BOT}} = 27.79''$$

$$I = 277,560 \text{ in}^4$$

Please make the appropriate corrections to your copy of the *Manual*.

Mitchell D. Metts, P.E.
Bridge Design Engineer

cc: Assistant Bridge Design Engineers
Bridge Construction Engineer
Bridge Maintenance Engineer
FHWA Structural Engineer

File: PC/BWB

