

### **5.6.1 ASSUMPTIONS FOR SERVICE & FATIGUE LIMIT STATES**

The following are ITD's preferred assumptions that differ from the LRFD Code:

- The modular ratio,  $n$ , should be equal to  $E_s/E_c$  and not rounded.
- An effective modular ratio of  $n$  should be used for permanent loads and prestress.

#### **Commentary**

The computations require more effort to differentiate  $n$  and  $2n$ , and the use of  $2n$  for creep effects appears to increase  $f_s$  only 1-2%.

#### **Revisions:**

Oct 2017	Renumbered article from 5.7.1 to 5.6.1 to conform to the 8 <sup>th</sup> Edition of the AASHTO LRFD Bridge Design Specifications.
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