

## **Section 18 - Abutment Types**

### **18.1 Design Criteria**

Applicable criteria of Section 11 of the *AASHTO LRFD Bridge Design Specifications*, and as may be amended within this Design Manual, shall govern the design of Abutment Walls.

### **18.2 General**

1. Spill-through abutments may be considered in certain situations; such as, when foundation conditions indicate very short pile lengths.
2. For abutments adjacent to waterways, even though they may not be needed for the foundation design, deep foundations shall be considered where hydraulic or other characteristics indicate the possibility of scour.
3. Reference Subsection 42.3 of this Manual for recommendations for scour protection.
4. For guidance as to the design of Integral Abutments, refer to Section 15 of this Manual.
5. Designers are strongly encouraged to provide enhancements to the appearance of concrete abutments. This may be accomplished through the use of form liners. As a minimum form liners will provide architectural treatment of concrete through the use of standard patterns that may be developed for specific projects. Other aesthetic treatments may be recommended.
6. Refer to Subsection 19.7 of this Manual for guidance on the Abrasion Protection of the abutment concrete.