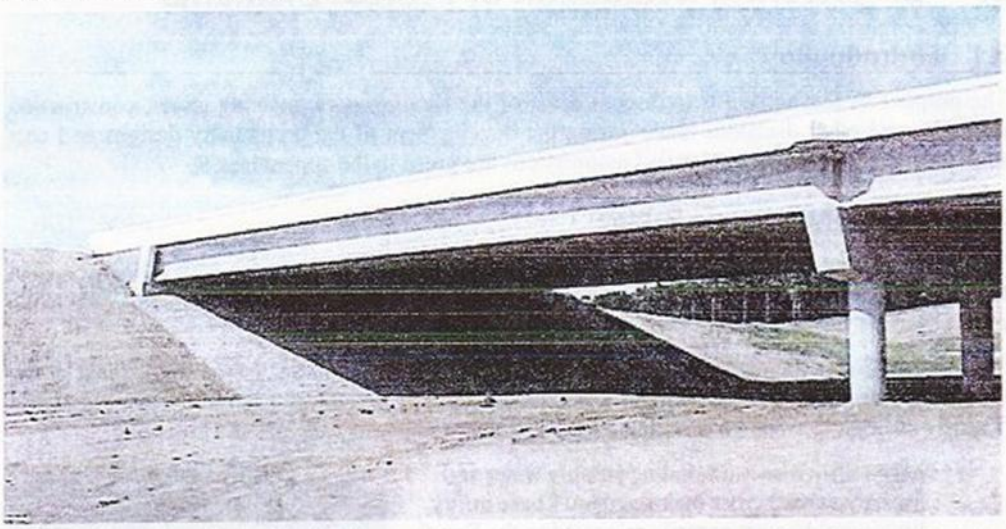
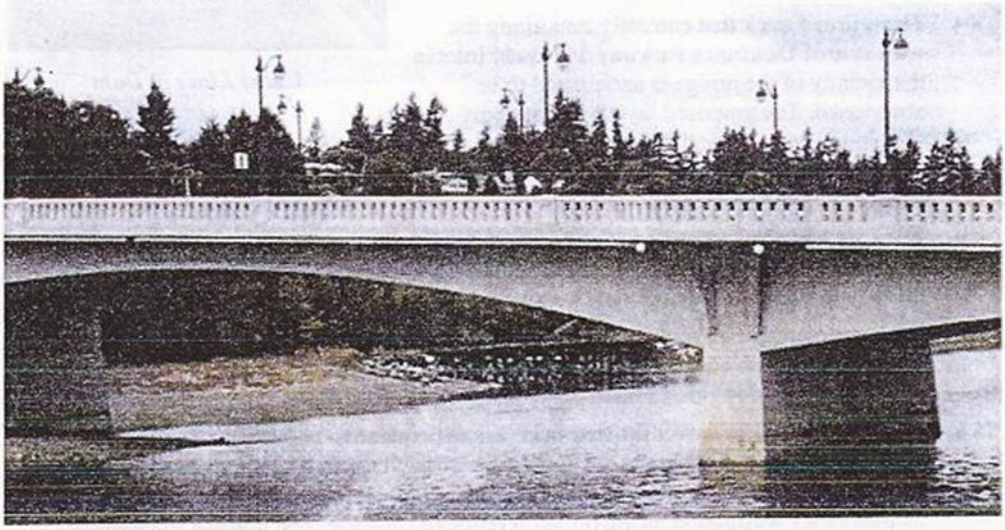
Dredging & Sediment Cost Review - Appendix 4
Source:
Moffatt & Nichol 2007. Deschutes Estuary Feasibility Study, Phase 3, Engineering Design and Cost Estimates, Final Report. Section 3.2, Figure 2, page 10

Figure 2: Precast Concrete Girder Bridge



It is not anticipated that this bridge would be as sculptural as the recently constructed Fourth Avenue Bridge (see Figure 3), which was designed to replicate the historical bridge at that location. Nevertheless, there are opportunities for aesthetic elements. Railings and light standards could be selected to complement or match the Fourth Avenue Bridge.

Figure 3: Recently Constructed Fourth Avenue Bridge



The bridge is supported on drilled shafts. The shafts are installed sufficiently deep that scour protection is not required for each column – riprap scour protection is provided only at the bridge abutments. In contrast, the existing riprap scour protection at the recently constructed Fourth Avenue Bridge will need to be enhanced to allow for the tidal currents that will occur after the entrance to Capitol Lake is opened. This will not involve a much greater quantity of rock than is already present; however, the rock size will be increased.