



April 16,2002

**MEMORANDUM TO TEAM LEADERS AND CONSULTANTS**

**SUBJECT:** Optional Backwall at End Bents

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The use of an optional construction joint at the beginning and end of bridges with fixed bearing shall be allowed. The construction joint shall be detailed on the plans and designed to retain the soil behind the end wall. This is to allow the contractor the option of building the wall and finishing the roadwork before placing beams on the bridge. Sample details are attached.

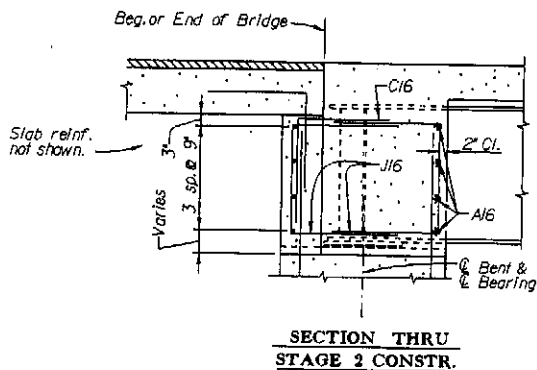
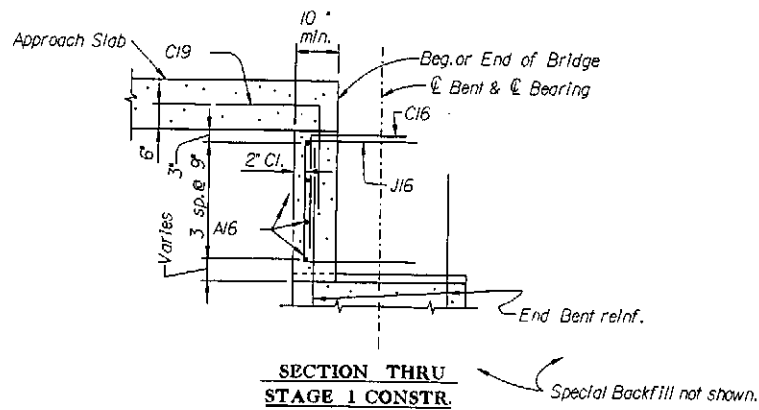
Randy R. Cannon, P. E.  
Bridge Design Engineer

Attachment

cc: Assistant Bridge Design Engineers  
Bridge Construction Engineer

File: PC/JLC





Note:  
Splice J16 bars  
1'-4" min.

Note:

At the Contractor's option, the construction of end wall and wing wall may be staged as shown. Prior to installation of beams, portion of end wall and wing wall (stage 1) shall be constructed to allow the Contractor to complete the work on backfill at bridge end and construct the approach slab. The remaining portion of end wall (Stage 2) shall be constructed after the installation of the beams and shall be cast monolithic with the slab. Mechanical couplers may be used to splice J16 bars.

This optional staging of End Wall and Wing Wall shall be constructed at no additional cost to the Department. All materials, labor and equipment necessary to complete the staged construction shall be considered incidental.