



South Carolina  
Department of Transportation

DM0804

September 20, 2004

**MEMORANDUM TO TEAM LEADERS AND CONSULTANTS**

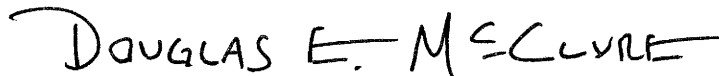
**SUBJECT:** Reinforced Concrete Columns

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Reinforced concrete columns shall be either circular with a minimum diameter of three feet or oblong with circular ends and have a minimum cross section dimension of three feet. At the column/shaft interface, a minimum of three inches shall be detailed from the edge of shaft to the edge of column.

The details shown on the attached sketches shall be considered as minimum requirements for all projects, regardless of site location. The maximum spacing of the transverse column reinforcement shall be decreased as necessary to comply with applicable design specifications.

These requirements are effective on all future projects. Projects that have been previously designed and detailed need not be revised.



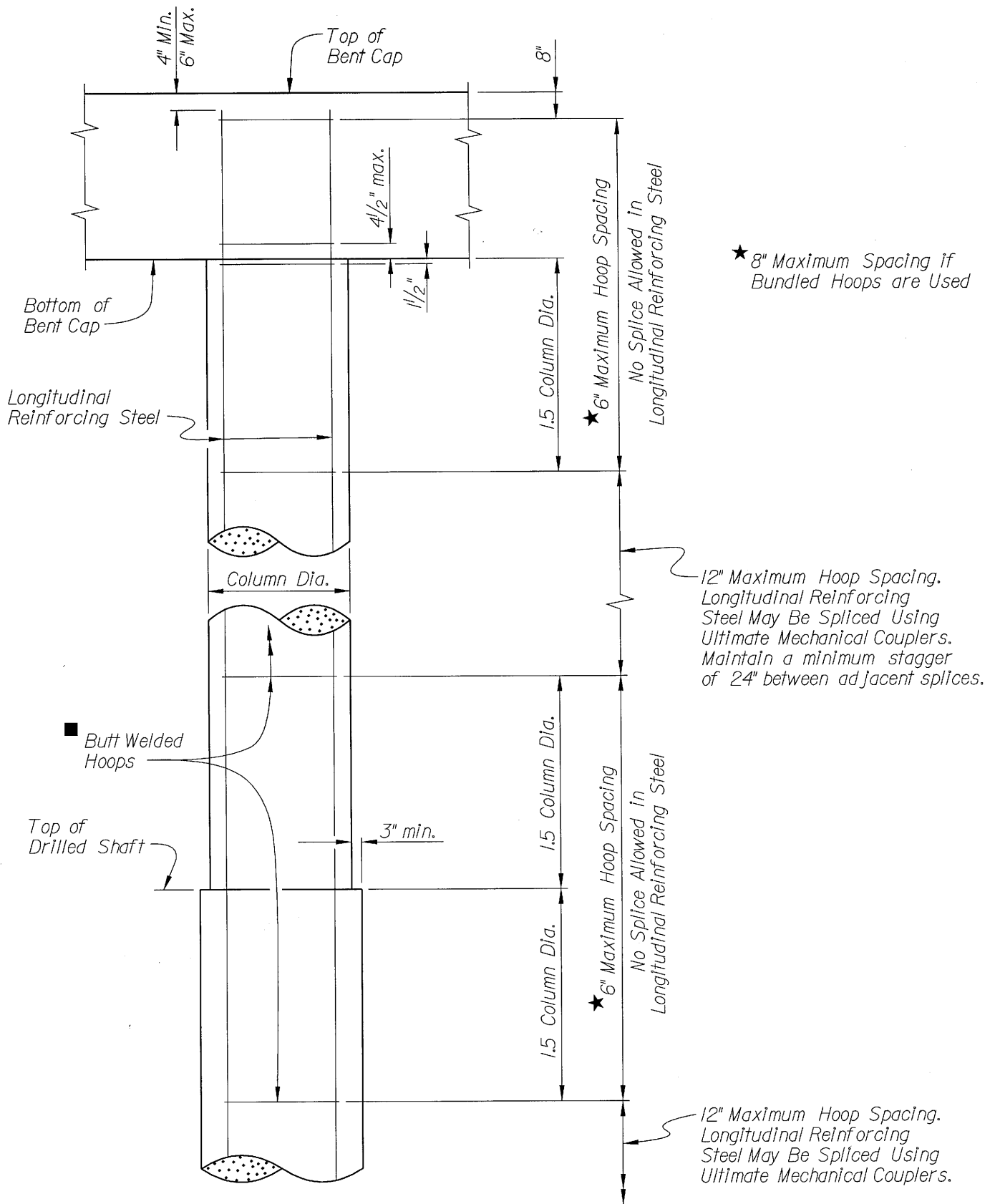
Douglas E. McClure, P. E.  
State Bridge Design Engineer

**Attachments**

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

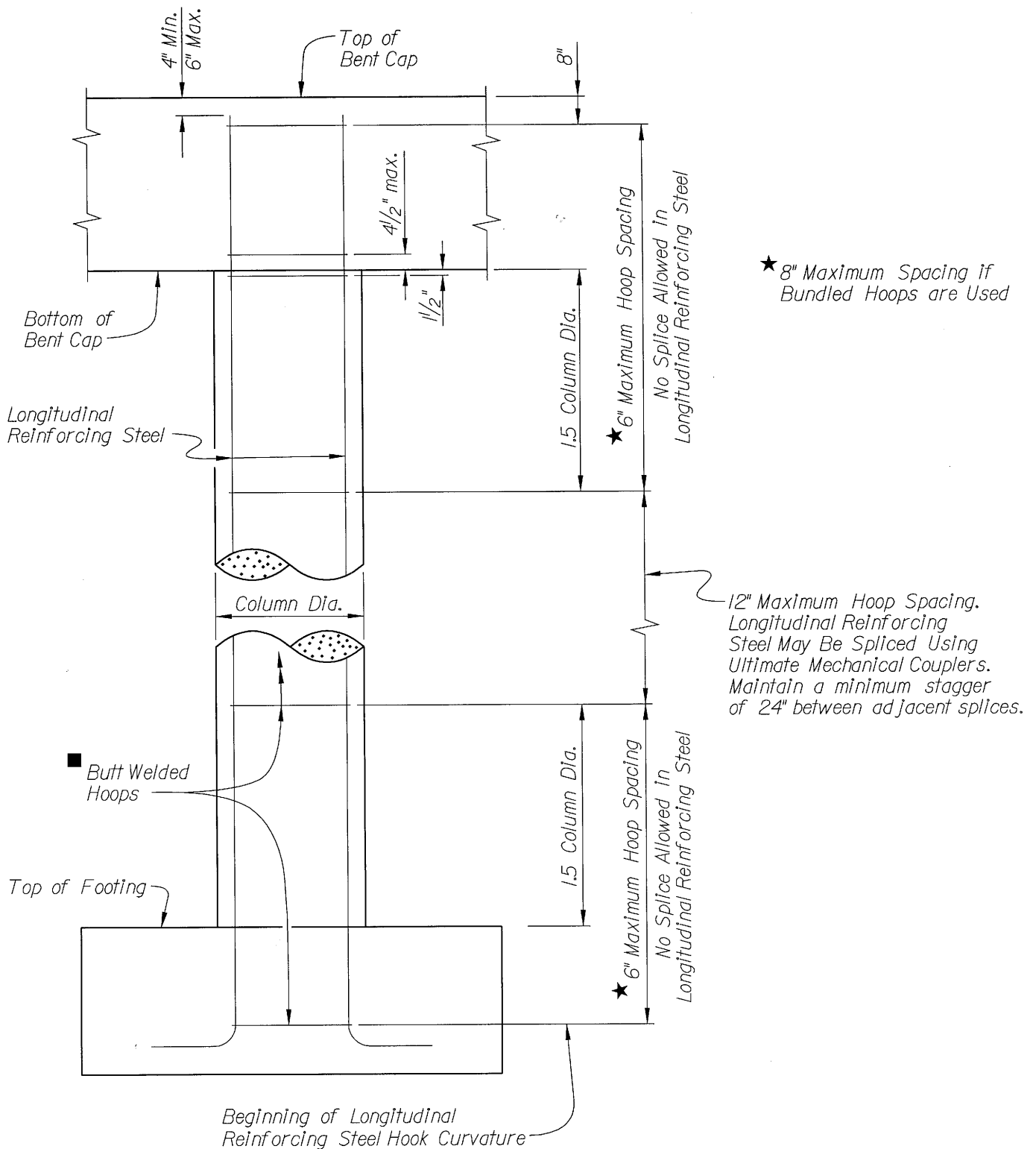
File: PC/LEM/BWB





■ Hoops shall have butt welded splices and the minimum size shall be #19 (#6). To prevent the hoop weld splices from being located on the same vertical plane, the locations of the splices shall be staggered around the perimeter of the column by a minimum distance of 1/3 of the hoop circumference.

## MINIMUM COLUMN REINFORCING DETAILS (FOR COLUMNS SUPPORTED BY DRILLED SHAFTS)



■ Hoops shall have butt welded splices and the minimum size shall be #19 (#6). To prevent the hoop weld splices from being located on the same vertical plane, the locations of the splices shall be staggered around the perimeter of the column by a minimum distance of 1/3 of the hoop circumference.

## MINIMUM COLUMN REINFORCING DETAILS (FOR COLUMNS SUPPORTED BY FOOTINGS)