

From: [Debra M. Butchart](#)
To: [BR](#)
Subject: Bridge Advertisement (DSI 22-040) Dowel Bars in Drilled Shafts
Date: Tuesday, February 4, 2025 1:10:23 PM
Attachments: [image001.png](#)

The [EPG](#) has been updated as described below:

Implementation Statement: Effective immediately for all plans not yet submitted to Design.

(The Implementation Statement is a recommendation by the Development Section. The SPM is responsible for the level of implementation for any particular job.)

Revision Date	Items Revised	Description of Change
Feb. 2025	EPG: 751.37.1.1 ; 751.37.1.6 ; 751.50 (G8)	<p>Updated EPG 751.37.1.1, 751.37.1.6 and 751.50 to clarify column and drilled shaft connection details so contractors do not insert column reinforcement or dowel bars into drilled shaft's wet concrete. Place standard note G8.8 and G8.9 when lap is required at top of drilled shaft between column/dowel reinforcement and drilled shaft reinforcement.</p> <p>The following guidance has been added to EPG 751.37.1.6: <i>When difference between drilled shaft and column diameter is 6" a single reinforcement cage is typically used for the socket and shaft and the vertical reinforcement extends into the column. A separate column steel cage is then placed around the protruding shaft reinforcement without requiring an adjustment to minimum cover for drilled shaft or column reinforcement. When difference between drilled shaft and column diameter is 12" either the vertical column steel or dowels will need to be extended into the shaft or the cover in the socket and shaft will need to be increased to allow the shaft reinforcement to extend into the column. In the former scenario an optional construction joint is recommended as discussed in note 4 for oversized shafts. In the latter scenario the same number of vertical bars should be used in the shaft and column to allow the shaft bars to be tied to the column cage. Any reduction in cage diameter required for fit-up shall be considered in design.</i></p> <p><i>When difference between drilled shaft and column diameter is greater than 12" (oversized shaft generally 18" to 24" larger than column), show "Optional construction joint" at bottom of column/dowel reinforcement in the drilled shaft and use standard notes G8.8 and G8.9 with optional construction joint.</i></p>
	Bridge Standard	
	Drawings: NA	
	MicroStation Cells: NA	
	Std. Specifications: NA	
	Standard Plans: NA	
Bridge Special Provisions: NA		

Follow links above for more information (internal only).

751.50 Standard Detailing Notes

G8. Drilled Shaft

(G8.7)

The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data table without approval by the engineer.

(G8.8) Use the following note when non-contact or contact lap is required at the top of drilled shaft between column/dowel reinforcement and drilled shaft reinforcement.

Column or dowel reinforcement shall be placed prior to pouring drilled shaft concrete in the area of the lap. Dowel bar or column reinforcement shall not be inserted after drilled shaft pour is complete.

(G8.9) For oversized shafts, use the following note in conjunction with callout for optional construction joint near top of drilled shaft. Remove sediment laitance and weak concrete to sound concrete prior to setting column/dowel reinforcement if optional construction joint is used.

Debra (Debbie) Butchart

(she/her)

Structural Specialist

Development Section

Bridge Division

MoDOT- 105 West Capitol Ave

573-522-8718