

¹SGS required for seismic design. LRFD shown because SGS refers to LRFD for support, and understanding equivalent categories and zones may be important.

²LRFD inequalities are different. Use SGS as shown.

**** Geotechnical Section (GS) is responsible for the determination of SDC, S_{D1} and the liguefaction potential including liguefaction induced lateral spreading or slope failure.

See State Bridge Engineer for Major Bridges.

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LRFD.

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Provide seismic details only in accordance with SGS for SDC A: - Support length in accordance with SGS 4.12. - Anchor bolts in accordance with SGS 4.5 & 4.6 2	ד – ע
 Provide seismic details only in accordance with SGS for SDC A: Support length in accordance with SGS 4.12. Anchor bolts in accordance with SGS 4.5 & 4.6 2 Minimum spiral/hoop transverse reinforcement in column/drilled shaft/rock socket in accordance with SGS 8.0. Spiral preferred over hoop. Minimum clear spacing between transverse reinforcement shall not be less than 1 ½" for column and 5" for drilled shaft/rock socket. Longitudinal and lateral reinforcement including development and splice lengths shall be in accordance with SGS 8.8. Consider top reinforcement steel in footings and pile cap footings. Consider minimum anchorage connections, i.e. Pile anchorage clips (EPG 751.36.2). 	
 Provide seismic details only in accordance with SGS for SDC B, C or D: Support length in accordance with SGS 4.12. Anchor bolts in accordance with SGS 4.5 & 4.6. Minimum spiral/hoop transverse reinforcement in column/drilled shaft/rock socket in accordance with SGS 8.0. Spiral preferred over hoop. Minimum clear spacing between transverse reinforcement shall not be less than 1 ½" for column and 5" for drilled shaft/rock socket. Longitudinal and lateral reinforcement including development and splice lengths shall be in accordance with SGS 8.8. Consider top reinforcement steel in footings and pile cap footings. Consider minimum anchorage connections, i.e. Pile anchorage clips (EPG 751.36.2). 	

Hook horizontal reinforcement of wing at beam end.

Perform seismic analysis in accordance with SGS for SDC B. C or D: (4) Perform seismic analysis in accordance with 305 for 50e B, e of D. (3) with SGS figure 1.3-5, 4.5, 4.6, 4.12, 5.2, & 6.7.

AASHTO Guide Specifications for LRFD Seismic Bridge Design (SGS) uses Seismic Design Categories ("SDC") and AASHTO LRFD Bridge Design Specifications (LRFD) uses "Seismic Zone". They are categorically equivalent for purpose of detailing when SGS refers to