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potential causes of concrete bridge deck cracking is provided. Fifteen bridge ... part of investigation indicates that the bridge structure type is definitely a factor that may affect early-age ... actual concrete strength achieved at 28 days is much larger than the design specified strength. ... found in full bridge model (Komp 2009).. 2009 by the American Association of State Highway and Transportation Officials. ... Global and local buckling of steel braces, and • Cracking in the bridge deck slab at ... Partial or complete replacement of columns may be required in some cases. ... Allowable displacements are constrained by geometric, structural, and .... the bridge design type, length of spans, deck thickness and concrete mixture designs. Proper ... requires periodic surveying of the whole bridge. However, this ... However, the “structural” cracks seem to be wider for structural slabs. (greater ... 2009. 8022(08). 221 - Prestressed Concrete Beam Simple. Huron. US 250 1830.. 0.025 POLA/POLB 2010/2009 plastic hinge (depth