

Six Street Viaduct Over the Los Angeles River (Bridge No. 53C-1880)
Phase II Material Testing Final Report
February 7, 2002



Figure 1: Overall view of Sixth Street Viaduct looking north between Bents 7 and 19.



Figure 2: View of Sixth Street Viaduct looking east from approximately Bent 10.



Figure 3: Span between Bents 12 and 13.



Figure 4: Typical view of girders and deck soffit.



Figure 5: Typical cracking on outside face of column.



Figure 6: Typical condition of columns at east end of bridge.



Figure 7: Typical horizontal crack in column at level of bent cap.



Figure 8: Typical cracking pattern in bent cap and girders.



Figure 9: Typical crack patterns noted in girders.



Figure 10: Peeling paint and longitudinal web cracking in girders.



Figure 11: Severe cracking in bent cap and deck soffit. Note the efflorescence in the deck.



Figure 12: Typical crack pattern on deck and girder at lightly distressed locations at the east end



Figure 13: Dense map cracking in deck soffit at bent cap.



Figure 14: Map cracking in the infill soffit of girders at bays over railroad tracks.



Figure 15: Excavation and core locations at Bent 23.



Figure 16: Excavation and core locations at Bent 21.



Figure 17: Typical pattern of network cracking seen in severely cracked cores.



Figure 18: Network cracking was typically more severe deeper in the core than near the surface of the concrete.



Figure 19: Severely cracked core that had 6 breaks when removed from a column.



Figure 20: Internal cracking so severe that core broke into rubble during extraction.



Figure 21: Example of a core with a moderate visual distress rating.