

## **Appendix A: References**

## APPENDIX A References

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  - <sup>2</sup> Hart, E.W. and Bryant, W.A., 1997, Fault-Rupture Hazard Zones in California; Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zones Maps: California Division of Mines and Geology (now the California Geological Survey) Special Publication 42 (with supplements added in 1999 – refer to <http://www.consrv.ca.gov/cgs/rghm/ap/index.htm>.  
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  - <sup>3</sup> Stein, R., and Yeats, R.S., 1989, Hidden Earthquakes: Scientific American, Vol. 260, pp. 48-57.
  - <sup>4</sup> Hauksson, E. and Jones L.M., 1989, The 1987 Whittier Narrows earthquake sequence in Los Angeles, southern California; seismological and tectonic analysis: Journal of Geophysical Research, Vol. 94, pp. 9,569-9,589.
  - <sup>5</sup> [www.scecdc.scec.org/lafault.html](http://www.scecdc.scec.org/lafault.html)  
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  - <sup>6</sup> Oskin M., Sieh, K., Rockwell, T., Miller, G., Guptill, P., Curtis, M., McArdle, S., and Elliot, P., 2000, Active parasitic folds on the Elysian Park anticline: Implications for seismic hazard in central Los Angeles, California: Geological Society of America Bulletin, Vol. 112, No. 5, pp. 693-707.
  - <sup>7</sup> Sieh, K., M. Stuiver and D. Brillinger, 1989, A more precise chronology of earthquakes produced by the San Andreas Fault in southern California: Journal of Geophysical Resources, Vol. 94, pp. 603-623.
  - <sup>8</sup> Schneider, C.L., Hummon, C., Yeats R.S., and Huftile, G.L., 1996, Structural evolution of the northern Los Angeles basin, California, based on growth strata: Tectonics, Vol. 15, No. 2, pp. 341-355.  
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  - <sup>9</sup> Earth Consultants International (ECI), 2001, Coyote Pass Escarpment Study, Eastside Light Rail Transit Project, Soto and First Streets, Los Angeles, California; Project No. 2019.01, dated August 6, 2001.

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- 10 Law Crandall, 1997, Revised Report of Geotechnical Investigation, Proposed Belmont Learning Center, First Street and Beaudry Avenue, Los Angeles, California.
  - 11 Soper, E. K., and Grant, U. S., IV, 1932, Geology and paleontology of a portion of Los Angeles, California: Geological Society of America Bulletin, Vol. 43, pp. 1,041-1,067.
  - 12 Hart, E.W. and Bryant, W.A., 1997, Fault-Rupture Hazard Zones in California; Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zones Maps: California Division of Mines and Geology (now the California Geological Survey) Special Publication 42 (with supplements added in 1999 – refer to <http://www.consrv.ca.gov/cgs/rghm/ap/index.htm>.  
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  - 13 Blake, G.H., 1991, Review of the Neogene biostratigraphy and stratigraphy of the Los Angeles basin and implications for basin evolution; *in* Biddle, K.T., (editor), Active Margin Basins: American Association of Petroleum Geologists Memoir 52, pp. 135-184.
  - 14 Note that the green faults in Trench 12 are likely cut off by the larger (orange) fault in Trench 13 (Plate 1).
  - 15 California Code of Regulations, Title 24, 2001 California Building Code Part 1, §4-317e.  
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  - 17 Wright, T. L., 1991, Structural geology and tectonic evolution of the Los Angeles Basin; *in* Biddle, K. T., (editor), Active Margin Basins: American Association of Petroleum Geologists Memoir 52, pp. 35-134.
  - 18 Above, we referred to two studies (Oskin et al., 2000; Earth Consultants International, 2001) that estimated 500 to 4,000-year intervals for large earthquakes on the Elysian Park thrust system. If we divide the 3 million year period that contraction has been going on across the region by this range in values, we calculate that 750 to 6,000 large earthquakes have occurred.
  - 19 Oskin M., Sieh, K., Rockwell, T., Miller, G., Guptaill, P., Curtis, M., McArdle, S., and Elliot, P., 2000, Active parasitic folds on the Elysian Park anticline: Implications for seismic hazard in central Los Angeles, California: Geological Society of America Bulletin, Vol. 112, No. 5, pp. 693-707.

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Earth Consultants International (ECI), 2001, Coyote Pass Escarpment Study, Eastside Light Rail Transit Project, Soto and First Streets, Los Angeles, California; Project No. 2019.01, dated August 6, 2001.

#### **Additional References used to Generate Figures**

- Figure 1:** Map created by taking figure from [www.scecdc.scec.org/lafault.html](http://www.scecdc.scec.org/lafault.html), and superimposing it with figure from Dolan, J., K. Sieh and T. Rockwell, 2000, Late Quaternary activity and seismic potential of the Santa Monica fault system, Los Angeles, California: Geological Society of America Bulletin, Vol. 112, pp. 1,559-1,581. Earthquake source dimensions from Hall, J. F., 1994, Northridge Earthquake January 17, 1994 Preliminary Reconnaissance Report: Earthquake Engineering Research Institute, 94-01.
- Figure 2:** Map from Oskin et al., 2000; Cross-section by Robert Yeats, unpublished. Age of rock layers from Schneider, C.L., Hummon, C., Yeats R.S., and Huftile, G.L., 1996, Structural evolution of the northern Los Angeles basin, California, based on growth strata: Tectonics, Vol. 15, No. 2, pp. 341-355.
- Figure 4:** Photograph provided to us by URS Corporation, Inc., taken in November 2002.
- Figure 5:** Surface projection of faults defined in the subsurface using seismic reflection. From report by Norcal Geophysical Consultants, Inc., 2002, High Resolution Seismic Reflection Survey, Belmont Learning Center, Los Angeles Unified School District; consultants report dated November 26, 2002.
- Figure 11:** Map modified from Soper, E. K., and Grant, U. S., IV, 1932, Geology and paleontology of a portion of Los Angeles, California: Geological Society of America Bulletin, Vol. 43, pp. 1,041-1,067.
- Figure 12:** Aerial Photographs from the Fairchild Collection at Whittier College, Flight No. C-7334, dated 8/14/1941; Scale: 1 inch = 375 feet.