Appendix E: List of Technical Studies

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The technical studies listed below were used in the preparation of this Initial Study/Environmental Assessment.

Air Quality Assessment Report, State Route 55 (Interstate 5 to State Route 91) Widening (November 2018, updated March 2019) prepared by Terry A. Hayes and Associates

Archaeological Survey Report, State Route 55 (SR 55) Improvement Project between Interstate 5 (I-5) and State Route 91 (SR 91) (March 2019) prepared by Paleo Solutions

Bat Habitat Assessment for Proposed State Route 55 Improvement Project between Interstate 5 and State Route 91. (May 2018) prepared by Jacobs Engineering Group

Draft Project Report (August 2019) prepared by Jacobs Engineering

Final Traffic/Circulation Impact Report, State Route 55 (I-5 to SR-91) Widening Project (January 2017) prepared by Fehr & Peers

Final Traffic Operations Report, State Route 55 (I-5 to SR-91) Widening Project (July 2018) prepared by Fehr & Peers

Final Traffic Volume Report, State Route 55 (I-5 to SR-91) Widening Project (February 2018) prepared by Fehr & Peers

Historic Property Survey Report (HPSR), *State Route 55 (SR 55) Improvement Project between Interstate 5 (I-5) and State Route 91 (SR 91)* (March 2019) prepared by Sapphos Environmental, Inc.

Historical Resources Evaluation Report (HRER), *State Route 55 (SR 55) Improvement Project between Interstate 5 (I-5) and State Route 91 (SR 91)* (March 2019) prepared by Sapphos Environmental, Inc.

Location Hydraulic Study, State Route 55 Improvement Project from Interstate 5 to State Route 91 and Appendix 1 (April 2018) prepared by HDR

Long-Form Stormwater Data Report, State Route 55 Improvement Project from Interstate 5 to State Route 91 (March 2019) prepared by HDR

Natural Environment Study (Minimal Impacts) Report (NES [mi]) *for State Route 55 Improvement Project Between Interstate 5 and State Route 91* (January 2019) prepared by Jacobs Engineering

Noise Abatement Decision Report for the SR 55 Improvement Project from I-5 to SR 91 (November 2018) prepared by LSA Associates, Inc.

Noise Study Report (NSR) *for the SR 55 Improvement Project from I-5 to SR 91* (September 2018) prepared by LSA Associates, Inc.

Paleontological Identification Report and Evaluation Report (PIR/PER) *State Route 55 (SR 55) Improvement Project between Interstate 5 (I-5) and State Route 91 (SR 91)* (October 2018) prepared by Paleo Solutions

Phase I Initial Site Assessment for the State Route 55 (SR) 55 Improvement Project from Interstate (I-) 5 to SR 91 (April 2018) prepared by Leighton Consulting, Inc., updated by Jacobs Engineering Group

Preliminary Drainage Report, *State Route 55 Widening Project* (October 2018) prepared by HDR

Revised District Preliminary Geotechnical Report, State Route 55 Improvement Project from Interstate 5 to State Route 91, Orange County, California (May 2018) prepared by Leighton Consulting, Inc.

SR 55 Improvement Project Energy Consumption Data Sheets, *State Route 55 Improvement Project from Interstate 5 to State Route 91, Orange County, California* (March 2019) prepared by Terry A. Hayes and Associates.

SR 55 (I-5 to SR 91) Improvement Project Public Information Meeting Summary Report, *State Route 55 Improvement Project from Interstate 5 to State Route 91, Orange County, California* (March 2019) prepared by Terry A. Hayes and Associates.

Structure Preliminary Geotechnical Report, Lincoln Avenue Undercrossing (Southbound Off-Ramp) Bridge No. 55-0328S, Orange County, California (March 2018) prepared by Leighton Consulting, Inc.

Traffic Analysis Addendum for State Route 55 From Interstate 5 to State Route 91 Improvement Project (EA 0K720K) (August 2019) prepared by Fehr & Peers

Visual Impact Assessment, State Route 55 Improvement Project from Interstate 5 to State Route 91, Post Mile 10.4 to R17.9 (October 2018) prepared by Tatsumi & Partners, Inc.

Water Quality Technical Memorandum State Route 55 Improvement Project from Interstate 5 to State Route 91 (November 2018) prepared by HDR