

APPENDIX B: DEFINITIONS AND ABBREVIATIONS

AA/DEIS/DEIR - Alternative Analysis/Draft Environmental Impact Statement/Draft Environmental Impact Report. A draft report that analyzes potential environmental effects of a proposed project in compliance with NEPA and CEQA.

ACA4 - Assembly Constitutional Amendment 4

acre - A unit of measurement of area equivalent to 43,560 square feet.

alluvium - Deposits resulting from the operations of water including floodplains, lakes, rivers and fans at the foot of mountain slopes.

aquifer - A permeable region of rock or soil through which groundwater can move.

aquitard - A material of low permeability that greatly slows the movement of groundwater.

borrow - Earth brought in from another location to be used as fill material.

Btu – British thermal unit - A unit of heat energy defined as the amount of heat required to raise the temperature of one pound of water by one degree Fahrenheit. One Btu equals approximately 778.169 foot pounds, 1.055 056 kilojoules or 0.293 071 watt hour.

candidate species - Any species of fish, wildlife or plant which has been determined to be a candidate for listing under Section 4 of the Endangered Species Act of 1973 (amended).

catenary - A messenger wire that sags between support points (much like a utility transmission line), which supports, by means of intermediate wire hangers, an essentially level contact wire for the overhead contact system (OCS).

CEQA – California Environmental Quality Act – Modeled after NEPA, this California state law encourages the protection of the environment through policies and procedural requirements.

cfs - Cubic feet per second.

cms - Cubic meters per second.

Corps of Engineers - (COE) U.S. Army Corps of Engineers. Federal agency with jurisdiction over Waters of the U.S.

cultural resources - Archaeological and historic resources that could potentially be affected by a given project. Cultural resources include buildings, sites, districts, structures or objects having historical, architectural, archaeological, cultural or scientific importance.

cumulative impact - The impact on the environment that results from the incremental impact of the action when added to other past, present and reasonably foreseeable future actions.

dba - A sound level in decibels, measured with a sound level meter having metering characteristics and frequency weighting specified in American National Standard Specifications for sound level meters ANSIS1.4-1971. It is common to refer to numerical units of an A-weighted sound level as "dba."

DEIS/EIR - Draft Environmental Impact Statement/Report. A draft report that analyzes potential environmental effects of a proposed project in compliance with NEPA and CEQA.

EA/DEIR - Environmental Assessment/Draft Environmental Impact Report. A report that determines whether the project will have a significant effect on the environment in accordance with NEPA, and identifies and analyzes environmental effects of project alternatives in accordance with CEQA.

electromagnetic field (EMF) – electromagnetic fields associated with electromagnetic radiation.

electromagnetic interference (EMI) – Electromagnetic interference may include the interruption, obstruction, or other degradation in the effective performance of other electronic devices.

endangered species - Any species of fish, wildlife or plant which has been determined to be endangered under Section 4 of the Endangered Species Act of 1973 (amended). This definition is adopted from the USFWS, Section 7 regulations, 51 FR 19926.

EPA - U.S. Environmental Protection Agency. The federal agency responsible for maintaining environmental quality including air quality, noise and hazardous waste management.

FEIS/EIR - Final Environmental Impact Statement/Report. A report that analyzes potential environmental effects and responds to comments received on the Draft EIS/EIR.

fill - Earth used to create embankments or to raise low-lying areas in order to bring them to grade.

floodplain - The part of the ground surface inundated with water on a recurring basis, usually associated with the one percent recurrence interval (100-year) flow.

FONSI/FEIR - Finding of No Significant Impact/Final Environmental Impact Report. A report that responds to comments received on the EA/DEIR, presents a finding of no significant impact in accordance with NEPA, and identifies and analyzes environmental effects of a preferred project alternative in accordance with CEQA.

g - horizontal ground acceleration

gram - Unit of measurement of mass, metric system.

ha - hectare (10,000 square meters)

HOV - High Occupancy Vehicle. A "carpool," or vehicle occupied by two or more persons.

HOV Lane - High Occupancy Vehicle lane. A system of exclusive lanes signed and striped for use by vehicles with multiple occupants (two or more persons) or ridership. HOV lanes are designed on roadways to reduce traffic congestion, improve safety, reduce fuel consumption and to improve air quality.

IOS - Interim Operating Segment. That portion of the Preferred Investment Strategy that can be constructed with available funding.

Kilo - Prefix used in metric measurement, 1000.

KiloJoule – kJ - A common metric unit of work or energy, comparable to the British thermal unit (Btu). One kiloJoule equals approximately 0.947 817 Btu, 0.277 778 watt hour, or 737.562 foot-pounds.

kiss-and-ride - A passenger loading area where vehicles can pick-up and drop-off passengers.

km - Kilometer.

kmph - Kilometer per hour.

KV - Kilovolt.

Ldn - Day-Night Equivalent Sound Level. A 24-hour equivalent sound level with a 10 dB penalty assessed to noise events occurring at night (10 p.m. to 7 a.m.).

Leq - Equivalent Sound Level. A measure of sound energy over a period of time, or a sound level which, in a stated period of time, would contain the same acoustical energy as the time-varying sound during the same period.

liter - Unit of measurement of volume (metric system).

LOS (Level of Service) - The operating level of an intersection or roadway segment can be described using the term Level of Service. Level of Service is a qualitative description of operation based on delay and maneuverability. It can range from "A" representing free flow conditions to "F" representing gridlock.

m - Meter.

mG – milliGauss - A unit of magnetic flux density equal to 0.001 Gauss or 0.1 microTesla. The magnetic fields generated by power lines and electronic equipment are often measured in milliGauss.

mT – microTesla - A common unit of magnetic field intensity equal to 10^{-6} Tesla. The unit is widely used to measure the strength of electromagnetic fields generated by powerlines or electronic equipment. By comparison, the strength of the Earth's own magnetic field at the surface is about 50 microTeslas. One microTesla equals 0.01 Gauss.

microPascal - One millionth of a Pascal, which is a measure of force used in measuring vibration. One Pascal is equivalent to 0.0209 pound force per square foot.

mitigation - Measures taken to minimize adverse environmental impacts. Mitigation could reduce the magnitude and extent of an impact from a level of significance to a level of insignificance.

mph - Miles per hour.

National Historic Preservation Act of 1966 - The primary federal law pertaining to protection of cultural resources.

National Register of Historic Places - A federal listing of historic resources protected under the National Historic Preservation Act of 1966.

NEPA - National Environmental Policy Act. The United States' basic national charter for protection of the environment. It establishes policy, sets goals and provides means for carrying out the policy.

nonpoint source - Pertains to the discharge of pollutants into waters or air where the pollutant sources come from an area rather than a single source that can be pinpointed.

NO_x - Nitrogen Oxide.

National Register eligible - Cultural resources eligible for inclusion on the National Register of Historic Places.

O₃ - Ozone.

overhead contact system (OCS) – An overhead system that provides power to electric vehicles. A mainline OCS typically comprises two conductors above each track in a catenary configuration.

Both main wires are energized and are electrically common. Power is supplied from the contact wire to the pantograph.

ozone - A major component of photochemical smog, which is formed in the atmosphere by the chemical reaction between nitrogen dioxide and organic gases in the presence of sunlight. Excessive levels of ozone can cause eye irritation, reduced visibility, vegetation damage and aggravation of respiratory conditions. The biggest source these gases is the automobile.

park-and-ride - A parking area intended for transit riders who arrive at transit stations by car.

pantograph - Mounted on top of an electric vehicles, the pantograph slides under the contact wire and collects the traction current from it.

Pb - Lead.

PM_{2.5} - Particulate matter less than 2.5 microns in diameter, considered to be fine particulate matter. (One micron is equal to one-millionth of a meter.)

PM₁₀ - Particulate matter less than 10 microns in diameter. (One micron is equal to one-millionth of a meter.)

ppm - parts per million.

PPV - Peak particle velocity. The maximum instantaneous peak in the velocity of an object's vibratory motion. The PPV is used to define thresholds of potential building damage from vibration.

Preferred Investment Strategy - The lead agency's favored approach or alternative. (Essentially equivalent to the "locally preferred alternative.")

Prime Farmland - Defined by the Soil Conservation Service as land best suited to producing high yield crops for food or fiber due to soil quality, length of growing season and moisture supply.

right-of-way - Land dedicated to the transportation facility.

riparian - An aquatic or terrestrial ecosystem that is associated with bodies of water, such as streams, lakes or wetlands, or is dependent upon the existence of perennial, intermittent or ephemeral surface or subsurface water drainage. Riparian areas are usually characterized by dense vegetation and an abundance and diversity of wildlife.

RMS - Root-mean-square amplitude. The average energy of vibrating measured over a short time interval, usually one second. RMS vibration velocity is considered the best available measure of potential human annoyance from ground-borne vibration.

SDEIS/SDEIR - Supplemental Draft Environmental Impact Statement/Subsequent Draft Environmental Impact Report. A report that discloses new information or circumstances relevant to environmental concerns and that is circulated for public and agency review and comments in compliance with NEPA and CEQA.

SFEIS/SFEIR - Supplemental Final Environmental Impact Statement/Subsequent Final Environmental Impact Report. A report that discloses new information or circumstances relevant to environmental concerns and that is circulated for public and agency review and comments in compliance with NEPA and CEQA.

Section 106 - Section 106 of the National Historic Preservation Act of 1966.

SO₂ - Sulphur Dioxide.

special status species - Any species of fish, wildlife or plant that is officially listed as rare, threatened or endangered or candidate for rare, threatened or endangered species listing under the state or federal Endangered Species Acts.

State Implementation Plan (SIP) - A plan for attaining national ambient air quality standards required by the Clean Air Act.

TDM - Transportation Demand Management. Strategies or techniques to decrease single occupant vehicle traffic on streets by encouraging the use of carpools, transit ridership, bicycle travel and telecommuting.

TSM - Transportation System Management. Strategies or techniques to increase the capacity of a transportation system through relatively low cost improvements.

USFWS - U.S. Fish and Wildlife Service. The federal agency that administers the federal Endangered Species Act and is involved in protection of fish and wildlife habitat including wetland areas.

Vdb - Decibels of vibration velocity. An expression of ground-borne vibrations.

watershed - That part of the earth's surface from which storm water runoff flows to a single point.

wetlands - According to the U.S. Army Corps of Engineers, wetlands are areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, under normal conditions, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes and similar areas, and are subject to protection under Executive Order 11990 and Section 404 of the Clean Water Act (CWA).

GLOSSARY OF ACRONYMS

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| AA/DEIS/EIR | Alternative Analysis/Draft Environmental Impact Statement/Report |
| AB | Assembly Bill |
| AC | Alternating Current |
| ACHP | Advisory Council on Historic Preservation |
| ACOE | Army Corps of Engineers |
| ADA | Americans with Disabilities Act |
| ADT | Average Daily Traffic |
| APE | Area of Potential Effects |
| APTA | American Public Transit Association |
| ATS | Automated Train Stop |
| AWSS | Auxiliary Water Supply System |
| BTU | British Thermal Unit |
| CAA | Clean Air Act of 1970 |
| CAAQS | California Ambient Air Quality Standards |
| CAC | Community Advisory Committee |
| CALINE4 | Computer model used to predict carbon monoxide levels |
| CALTRANS | California Department of Transportation |
| CARB | California Air Resources Board |
| CBD | Central Business District |
| CCAA | California Clean Air Act |
| CDFG | California Department of Fish and Game |
| CEQA | California Environmental Quality Act |
| CERCLA | Comprehensive Environmental Response Compensation & Liability Act |
| CERCLIS | Comprehensive Environmental Response, Compensation, and Liability Information System (formerly ERRIS) |
| CFR | Code of Federal Regulations |
| CHP | California Highway Patrol |
| CLUP | Comprehensive Land Use Plan |
| CM | Construction Management |
| CMAQ | Congestion Mitigation and Air Quality Improvement Program |
| CNDDDB | California Natural Diversity Data Base |
| CNPS | California Native Plant Society |
| CO | Carbon Monoxide |
| CTC | California Transportation Commission or Centralized Train Control |
| CPUC | California Public Utilities Commission |

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| CVRWQCB | Central Valley Regional Water Quality Control Board |
| CY | Cubic yards |
| DC | Direct current |
| CFR | Codified Federal Regulations |
| CZMA | Coastal Zone Management Act |
| DEIS/EIR | Draft Environmental Impact Statement/Environmental Impact Report |
| DPT | Department of Parking and Traffic |
| DPW | Department of Public Works |
| DWR | Department of Water Resources |
| EIR | Environmental Impact Report |
| EIS | Environmental Impact Statement |
| EMU | Electrical Multiple Unit |
| EPA | Environmental Protection Agency |
| FEIS/EIR | Final Environmental Impact Statement/Report |
| FHWA | Federal Highway Administration |
| FPPA | Farmland Protection Policy Act |
| FTA | Federal Transit Administration |
| FVM | Fare Vending Machine |
| FY | Fiscal Year |
| HASR | Historical Architectural Survey Report |
| HPSR | Historic Property Survey Report |
| HOV | High Occupancy Vehicle |
| Hz | Hertz |
| I-5 | Interstate 5 |
| IOS | Interim Operating Segment |
| ISP | Iron/Steel Pipe |
| ISTEA | Intermodal Surface Transportation Efficiency Act of 1991 |
| ITIP | Interregional Transportation Improvement Program |
| JPA | Joint Exercise of Powers Agency |
| LOS | Level of Service |
| LPA | Locally Preferred Alternative |
| LRT | light rail transit |
| LRV | light rail vehicle |
| LUST | Leaking Underground Storage Tank |
| MOA | Memorandum of agreement |
| MGP | Manufactured Gas Plant |
| MPO | Metropolitan Planning Organization |

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|-------------|---|
| MTC | Metropolitan Transportation Commission |
| NAAQS | National Ambient Air Quality Standards |
| NEPA | National Environmental Policy Act |
| NOI | Notice of Intent |
| NOP | Notice of Preparation |
| NPDES | National Pollutant Discharge Elimination System |
| NRHP | National Register of Historic Properties |
| O&M | Operating and Maintenance |
| OCS | Overhead Control System |
| OSHA | Occupational Safety and Health Administration |
| PAH | Polyaromatic Hydrocarbons |
| PIS | Preferred Investment Strategy |
| PPA | Pollution Prevention Act |
| RIP | Regional Improvement Program |
| ROD | Record of Decision |
| RT | Sacramento Regional Transit District |
| RTP | Regional Transportation Plan |
| RTIP | Regional Transportation Improvement Program |
| RWQCB | Regional Water Quality Control Board |
| SAA | Streambed Alteration Agreement |
| SACMET | Sacramento Metropolitan |
| SACOG | Sacramento Area Council of Governments |
| SAQMA | Sacramento Air Quality Maintenance Area |
| SCEHMD | Sacramento County Environmental Health Management Division |
| SDEIS/SDEIR | Supplemental Draft Environmental Impact Statement/Subsequent Draft Environmental Impact Report |
| SFEIS/SFEIR | Supplemental Final Environmental Impact Statement/Subsequent Final Environmental Impact Report |
| SHPO | State Historic Preservation Office or Officer |
| SIP | State Implementation Plan |
| SMAQMD | Sacramento Metropolitan Air Quality Management District |
| SMUD | Sacramento Municipal Utility District |
| SP | Southern Pacific (Railroad) |
| SPRR | Southern Pacific Railroad |
| SR 99 | State Route 99 |
| SR 160 | State Route 160 |
| S RTP | Short Range Transit Plan |

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| STA | State Transit Assistance program |
| STP | State Transportation Program |
| STIP | State Transportation Improvement Program |
| SVAB | Sacramento Valley Air Basin |
| SWPPP | Storm Water Pollution Prevention Plan |
| TAC | Technical Advisory Committee |
| TAZ | Traffic Analysis Zone |
| TCM | Transportation Control Measure |
| TCRP | Transportation Congestion Relief Program |
| TDM | Transportation Demand Management |
| TEA-21 | Transportation Equity Act for the 21 st Century |
| TIP | Transportation Improvement Plan |
| TIFIA | Transportation Infrastructure Financing and Innovation Act |
| TRP | Trip Reduction Program |
| TSM | Transportation Systems Management |
| UP | Union Pacific (Railroad) |
| UPRR | Union Pacific Railroad |
| US 50 | U.S. Highway 50 |
| USEPA | U.S. Environmental Protection Agency |
| USFWS | U.S. Fish and Wildlife Service |
| USGS | U.S. Geological Survey |
| UST | Underground Storage Tank |
| VC | Volume-to-Capacity Ratio |
| VCP | Vitrified Clay Pipe |
| VHT | Vehicle Hours of Travel |
| VMT | Vehicle Miles of Travel |