



**Proponent's Environmental
Assessment – Zayo Prineville-to-
Reno Fiber Optic Project**

September 2020

Application A.20-10-008 to the California
Public Utilities Commission

Prepared for:
Zayo Group, LLC
18110 SE 34th Street, Ste. 100
Vancouver, Washington 98683
Phone: 509-727-3345
Email: dan.barcomb@zayo.com

Prepared by:
Stantec Consulting Services, Inc.
100 California Street, Suite 1000
San Francisco, CA 94111
Phone: 503-961-2728
Email: Caitlin.Barns@stantec.com

Construction and operation of an
underground fiber optic network from
Prineville, Oregon, to Reno, Nevada,
spanning 194 miles within California.



Table of Contents

ABBREVIATIONS	IX
1.0 EXECUTIVE SUMMARY	1.1
1.1 PROPOSED PROJECT SUMMARY	1.1
1.2 LAND OWNERSHIP AND RIGHT-OF-WAY REQUIREMENTS.....	1.1
1.2.1 New, Existing, and Temporary Rights-of-Way or Easements	1.1
1.2.2 Rights-of-Way or Easement Applications	1.2
1.3 AREAS OF CONTROVERSY	1.2
1.4 SUMMARY OF IMPACTS	1.2
1.5 SUMMARY OF ALTERNATIVES.....	1.2
1.6 PRE-FILING CONSULTATION AND PUBLIC OUTREACH SUMMARY.....	1.3
1.6.1 Bureau of Land Management.....	1.3
1.6.2 California Department of Fish and Wildlife.....	1.4
1.6.3 California Department of Transportation.....	1.4
1.6.4 Native American Heritage Commission	1.4
1.6.5 U.S. Fish and Wildlife Service	1.5
1.7 CONCLUSIONS	1.5
1.8 REMAINING ISSUES	1.5
2.0 INTRODUCTION.....	2.1
2.1 PROJECT BACKGROUND	2.1
2.1.1 Purpose and Need	2.1
2.1.2 Project Objectives	2.1
2.1.3 Project Applicant	2.1
2.2 PRE-FILING CONSULTATION AND PUBLIC OUTREACH.....	2.2
2.2.1 Bureau of Land Management.....	2.2
2.2.2 California Department of Fish and Wildlife.....	2.3
2.2.3 California Department of Transportation.....	2.3
2.2.4 Native American Heritage Commission and Tribal Outreach.....	2.4
2.2.5 Records of Consultation and Public Outreach	2.6
2.3 ENVIRONMENTAL REVIEW PROCESS	2.6
2.3.1 CEQA Review	2.6
2.3.2 National Environmental Policy Act Review	2.6
2.3.3 Pre-filing California Environmental Quality Act and National Environmental Policy Act Coordination.....	2.7
2.4 DOCUMENT ORGANIZATION.....	2.7
2.4.1 Proponent’s Environmental Assessment Organization	2.7
3.0 PROPOSED PROJECT DESCRIPTION	3.1
GLOSSARY OF TERMS.....	3.1
3.1 PROJECT OVERVIEW	3.2
3.2 EXISTING AND PROPOSED SYSTEM.....	3.2
3.2.1 Existing System.....	3.2



PROPONENT’S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

3.2.2	Proposed Project System	3.7
3.2.3	Planning Area	3.7
3.3	PROJECT COMPONENTS	3.7
3.3.1	Preliminary Design and Engineering	3.7
3.3.2	Segments, Components, and Phases	3.7
3.3.3	Existing Facilities.....	3.7
3.3.4	Proposed Facilities.....	3.13
3.3.5	Other Potentially Required Facilities.....	3.13
3.3.6	Future Expansions and Equipment Lifespans	3.15
3.4	LAND OWNERSHIP, RIGHTS-OF-WAY, AND EASEMENTS	3.15
3.4.1	Land Ownership and Administration.....	3.15
3.4.1	New, Existing, and Temporary Rights-of-Way or Easements	3.16
3.5	CONSTRUCTION.....	3.16
3.5.1	Construction Access	3.16
3.5.2	Staging Areas and Materials Storage Yards.....	3.17
3.5.3	Construction Work Areas	3.18
3.5.4	Site Preparation	3.20
3.5.5	Fiber Optic Line Installation.....	3.21
3.5.6	Public Safety and Traffic Control.....	3.26
3.5.7	Dust, Erosion, and Runoff Controls	3.27
3.5.8	Invasive Plants.....	3.27
3.5.9	Water Use and Dewatering	3.30
3.5.10	Hazardous Materials and Management.....	3.31
3.5.11	Waste Generation and Management.....	3.32
3.5.12	Fire Prevention and Response.....	3.33
3.6	CONSTRUCTION, WORKFORCE, EQUIPMENT, TRAFFIC, AND SCHEDULE	3.34
3.6.1	Construction Workforce.....	3.34
3.6.2	Construction Equipment.....	3.34
3.6.3	Construction Traffic.....	3.35
3.6.4	Construction Schedule	3.35
3.7	POST-CONSTRUCTION.....	3.36
3.7.1	Configuring and Testing	3.36
3.7.2	Landscaping.....	3.36
3.7.3	Demobilization	3.36
3.7.4	Site Restoration.....	3.37
3.8	OPERATION AND MAINTENANCE	3.37
3.9	DECOMMISSIONING.....	3.37
3.10	ANTICIPATED PERMITS AND APPROVALS	3.37
3.10.1	Anticipated Permits and Approvals.....	3.37
3.10.2	Rights-of-Way or Easement Applications	3.39
3.11	APPLICANT PROPOSED MEASURES.....	3.39
3.11.1	Applicant Proposed Measures.....	3.39
4.0	DESCRIPTION OF ALTERNATIVES.....	4.1
4.1	ALTERNATIVES CONSIDERED	4.1
4.1.1	System Alternatives	4.1
4.1.2	ROUTE ALTERNATIVES.....	4.3



PROPONENT’S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

4.2	NO PROJECT ALTERNATIVE	4.4
4.3	REJECTED ALTERNATIVES	4.4
5.0	ENVIRONMENTAL ANALYSIS	5.1.1
5.1	AESTHETICS	5.1.1
5.1.1	Environmental Setting	5.1.1
5.1.2	Regulatory Setting.....	5.1.11
5.1.3	Impact Questions	5.1.14
5.1.4	Impact Analysis	5.1.14
5.1.5	Draft Environmental Measures	5.1.18
5.2	AGRICULTURE AND FORESTRY RESOURCES	5.2.1
5.2.1	Environmental Setting	5.2.1
5.2.2	Regulatory Setting.....	5.2.8
5.2.3	Impact Questions	5.2.13
5.2.4	Impact Analysis	5.2.13
5.2.5	Draft Environmental Measures	5.2.16
5.3	AIR QUALITY	5.3.1
5.3.1	Environmental Setting	5.3.1
5.3.2	Regulatory Setting.....	5.3.5
5.3.3	Impact Questions	5.3.6
5.3.4	Impact Analysis	5.3.6
5.3.5	Draft Environmental Measures	5.3.10
5.4	BIOLOGICAL RESOURCES	5.4.1
5.4.1	Environmental Setting	5.4.1
5.4.2	Regulatory Setting.....	5.4.6
5.4.3	Impact Questions	5.4.17
5.4.4	Impact Analysis	5.4.18
5.4.5	Draft Environmental Measures	5.4.32
5.5	CULTURAL RESOURCES	5.5.1
5.5.1	Environmental Setting	5.5.1
5.5.2	Regulatory Setting.....	5.5.12
5.5.3	Impact Questions	5.5.18
5.5.4	Impact Analysis	5.5.18
5.5.5	Draft Environmental Measures	5.5.20
5.6	ENERGY	5.6.1
5.6.1	Environmental Setting	5.6.1
5.6.2	Regulatory Setting.....	5.6.1
5.6.3	Impact Questions	5.6.2
5.6.4	Impact Analysis	5.6.2
5.6.5	Draft Environmental Measures	5.6.4
5.7	GEOLOGY, SOILS, AND PALEONTOLOGICAL RESOURCES	5.7.1
5.7.1	Environmental Setting	5.7.1
5.7.2	Regulatory Setting.....	5.7.14
5.7.3	Impact Questions	5.7.17
5.7.4	Impact Analysis	5.7.18
5.7.5	Draft Applicant Proposed Measures	5.7.21
5.8	GREENHOUSE GAS EMISSIONS	5.8.1



PROPONENT’S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

5.8.1	Environmental Setting	5.8.1
5.8.2	Regulatory Setting.....	5.8.1
5.8.3	Impact Questions	5.8.5
5.8.4	Impact Analysis.....	5.8.5
5.8.5	Draft Environmental Measures.....	5.8.7
5.9	HAZARDS, HAZARDOUS MATERIALS, AND PUBLIC SAFETY	5.9.1
5.9.1	Environmental Setting	5.9.2
5.9.2	Regulatory Setting.....	5.9.8
5.9.3	Touch Thresholds	5.9.14
5.9.4	Impact Questions	5.9.14
5.9.5	Impact Analysis.....	5.9.15
5.9.6	Draft Environmental Measures.....	5.9.20
5.10	HYDROLOGY AND WATER QUALITY	5.10.1
5.10.1	Environmental Setting	5.10.1
5.10.2	Regulatory Setting.....	5.10.4
5.10.3	Impact Questions	5.10.7
5.10.4	Impact Analysis.....	5.10.8
5.10.5	Draft Environmental Measures.....	5.10.13
5.11	LAND USE AND PLANNING.....	5.11.1
5.11.1	Environmental Setting	5.11.1
5.11.2	Regulatory Setting.....	5.11.10
5.11.3	Impact Questions	5.11.13
5.11.4	Impact Analysis.....	5.11.14
5.11.5	Draft Environmental Measures.....	5.11.17
5.12	MINERAL RESOURCES.....	5.12.1
5.12.1	Environmental Setting	5.12.1
5.12.2	Regulatory Setting.....	5.12.2
5.12.3	Impact Questions	5.12.3
5.12.4	Impact Analysis.....	5.12.4
5.12.5	Draft Environmental Measures.....	5.12.4
5.13	NOISE.....	5.13.1
5.13.1	Environmental Setting	5.13.4
5.13.2	Regulatory Setting.....	5.13.7
5.13.3	Impact Questions	5.13.10
5.13.4	Impact Analysis.....	5.13.10
5.13.5	Draft Environmental Measures.....	5.13.15
5.14	POPULATION AND HOUSING	5.14.1
5.14.1	Environmental Setting	5.14.1
5.14.2	Regulatory Setting.....	5.14.3
5.14.3	Impact Questions	5.14.3
5.14.4	Impact Analysis.....	5.14.4
5.14.5	Draft Environmental Measures.....	5.14.4
5.15	PUBLIC SERVICES	5.15.1
5.15.1	Environmental Setting	5.15.1
5.15.2	Regulatory Setting.....	5.15.13
5.15.3	Impact Questions	5.15.13
5.15.4	Impact Analysis.....	5.15.14



PROPONENT’S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

5.15.5	Draft Environmental Measures	5.15.16
5.16	RECREATION.....	5.16.1
5.16.1	Environmental Setting	5.16.1
5.16.2	Regulatory Setting.....	5.16.3
5.16.3	Impact Questions	5.16.3
5.16.4	Impact Analysis.....	5.16.4
5.16.5	Draft Environmental Measures	5.16.6
5.17	TRANSPORTATION	5.17.1
5.17.1	Environmental Setting	5.17.1
5.17.2	Regulatory Setting.....	5.17.4
5.17.3	Impact Questions	5.17.8
5.17.4	Impact Analysis.....	5.17.9
5.17.5	Draft Environmental Measures	5.17.12
5.18	TRIBAL CULTURAL RESOURCES.....	5.18.1
5.18.1	Environmental Setting	5.18.1
5.18.2	Regulatory Setting.....	5.18.11
5.18.3	Impact Questions	5.18.19
5.18.4	Impact Analysis.....	5.18.19
5.18.5	Draft Environmental Measures	5.18.21
5.19	UTILITIES AND SERVICE SYSTEMS.....	5.19.1
5.19.1	Environmental Setting	5.19.1
5.19.2	Regulatory Setting.....	5.19.4
5.19.3	Impact Questions	5.19.6
5.19.4	Impact Analysis.....	5.19.7
5.19.5	Draft Environmental Measures	5.19.10
5.20	WILDFIRE.....	5.20.1
5.20.1	Environmental Setting	5.20.1
5.20.2	Regulatory Setting.....	5.20.9
5.20.3	CEQA Impact Criteria.....	5.20.13
5.20.4	Impact Analysis.....	5.20.13
5.20.5	Draft Environmental Measures	5.20.15
5.21	MANDATORY FINDINGS OF SIGNIFICANCE.....	5.21.1
5.21.1	Impact Questions	5.21.1
5.21.2	Impact Analysis.....	5.21.1
5.21.3	Draft Environmental Measures	5.21.3
6.0	COMPARISON OF ALTERNATIVES.....	6.1
6.1	ALTERNATIVES COMPARISON	6.1
6.1.1	Prineville-to-Reno Fiber Optic Project (Proposed Project)	6.1
6.1.2	US-395-Only Alternative (within California)	6.1
6.1.3	No Project Alternative	6.6
6.2	ALTERNATIVES RANKING	6.9
6.3	CONCLUSION	6.12
7.0	CUMULATIVE AND OTHER CEQA CONSIDERATIONS.....	7.1
7.1	CUMULATIVE IMPACTS.....	7.1
7.1.1	List of Cumulative Projects.....	7.1



PROPONENT’S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

7.1.2	Geographic Scope	7.2
7.1.3	Cumulative Impact Analysis	7.7
7.2	GROWTH-INDUCING IMPACTS.....	7.16
8.0	LIST OF PREPARERS	8.1
9.0	REFERENCES.....	9.1

LIST OF TABLES

Table 2.3-1:	Federal Land Ownership and Level of NEPA Analysis	2.7
Table 3-1:	Public Land Crossed by the Running Line.....	3.15
Table 3-2:	Staging Areas by County.....	3.17
Table 3-3:	Temporary and Permanent Impacts by Project Component	3.19
Table 3-4:	Project Component by Location	3.19
Table 3-5:	Invasive Plants Documented in the Biological Resources Survey Area	3.28
Table 3-6:	Water Use During Construction.....	3.31
Table 3-7:	Construction Equipment and Usage Factors	3.34
Table 3-8:	Construction Vehicle Trips	3.35
Table 3-9:	Anticipated Permits and Approvals.....	3.38
Table 5.3-1:	National and State Ambient Air Quality Standards	5.3.1
Table 5.3-2:	Federal Designations/Classifications for the Project Area	5.3.3
Table 5.3-3:	State Designations/Classifications for the Project Area	5.3.4
Table 5.4-1:	Sensitive Natural Vegetation Communities in the Biological Resources Survey Area.....	5.4.2
Table 5.4-2:	Special Status Plant Project Impacts.....	5.4.18
Table 5.4-3:	CWHR Habitat Community Project Impacts	5.4.25
Table 5.5-1:	Previously Recorded Resources within Each County	5.5.8
Table 5.5-2:	Land Ownership Underlying the Area of Potential Effects	5.5.9
Table 5.5-3:	Total Survey Site Counts and Recommendations	5.5.10
Table 5.6-1:	Project Construction Fuel Consumption	5.6.3
Table 5.7-1:	Paleontological Literature and Record Search Results.....	5.7.12
Table 5.8-1:	Project Annual Construction GHG Emissions.....	5.8.6
Table 5.9-1:	Potential Hazardous Sites Within or Adjacent to the Project Area	5.9.3
Table 5.10-1:	Number of Surface Water Body Crossings	5.10.2
Table 5.10-2:	Groundwater Basins.....	5.10.3
Table 5.11-1:	Modoc County General Plan Consistency	5.11.15
Table 5.11-2:	Lassen County General Plan Consistency	5.11.16
Table 5.11-3:	Sierra County General Plan Consistency	5.11.16
Table 5.13-1:	Typical Sound Levels Measured in the Environment and Industry.....	5.13.1
Table 5.13-2:	Human Response to Transient Vibration.....	5.13.3
Table 5.13-3:	Vibration Source Levels for Construction Equipment.....	5.13.4
Table 5.14-1:	Regional Historical and Projected Populations	5.14.1
Table 5.14-2:	Regional Population Characteristics.....	5.14.2
Table 5.14-3:	Regional Economic and Income Characteristics.....	5.14.2
Table 5.14-4:	Regional Housing Characteristics.....	5.14.3
Table 5.15-1:	Police Facilities within 1 Mile of the Project Running Line	5.15.1
Table 5.15-2:	Fire Facilities within 1 Mile of the Project Running Line	5.15.9
Table 5.15-3:	Schools within 1 Mile of the Project Running Line	5.15.11



PROPONENT’S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

Table 5.15-4: Other Public Services within 1 Mile of the Project Running Line5.15.12
 Table 5.16-1: Parks and Recreational Areas Within 1 Mile of the Project5.16.2
 Table 5.17-1: Existing Level of Service5.17.2
 Table 5.17-2: State Highway Vehicle Miles Travelled Estimates by County5.17.3
 Table 5.17-3: Roadway Level of Service Descriptions.....5.17.8
 Table 5.17-4: Roadway Level of Service for Uninterrupted Flow Highways5.17.8
 Table 5.17-5: Existing Plus Construction Traffic Level of Service5.17.10
 Table 5.18-1 Consultation with Regional Tribes5.18.2
 Table 5.19-1: Active Landfills Near Project Area5.19.4
 Table 5.20-1: Fire History and Responding Agency Along the Running Line (2010-2018) ..5.20.7
 Table 7-1: Past, Present, and Reasonably Foreseeable Projects within Two Miles of the Project7.3

LIST OF FIGURES

Figure 3-1: Project Location3.5
 Figure 3-2: Project Components3.9
 Figure 3-3: Example Regeneration Hut Housing an In-Line Amplifier3.14
 Figure 3-4: Typical Vault and Line Marker3.14
 Figure 3-5: Bridge Attachment3.17
 Figure 3-6: Typical Fiber Optic Conduit Plow3.22
 Figure 3-7: Horizontal Drilling Rig and Conduit.....3.24
 Figure 5.1-1: Representative Photograph Locations5.1.3
 Figure 5.1-2: View from Northbound US 395 in Central Lassen County5.1.7
 Figure 5.1-3: View from Northbound US 395 in Northern Lassen County.....5.1.8
 Figure 5.1-4: View from Northbound US 395 in Southeast Lassen County toward Honey Lake5.1.9
 Figure 5.1-5: View from Southbound US 395 in Central Modoc County Near the Modoc National Wildlife Refuge.....5.1.10
 Figure 5.1-6: Example of a Typical Regeneration Hut5.1.16
 Figure 5.1-7: Example of a Typical Line Marker5.1.17
 Figure 5.2-1: Agricultural Resources within One Mile of the Project5.2.3
 Figure 5.4-1: Biological Resource Management Areas.....5.4.7
 Figure 5.7-1. Active Faults within 10 Miles of the Project5.7.3
 Figure 5.11-1 Land Use Within One-Mile of Project5.11.3
 Figure 5.15-1: Public Services Within 1 Mile of the Project5.15.3
 Figure 5.20-1: Wildfire Hazards within One Mile of Proposed Prineville to Reno Fiber Optic Line5.20.3
 Figure 7-1: Cumulative Projects7.5

LIST OF APPENDICES

- Appendix A: Detailed Maps and Design Drawings
- Appendix B: Air Quality, Greenhouse Gases, and Energy Calculations
- Appendix C: Biological Resources Technical Report
- Appendix D: Cultural Resources Study
- Appendix E: Detailed Tribal Consultation Report
- Appendix F: Environmental Data Resources Report
- Appendix G: Agency Consultation and Public Outreach Report



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

Appendix H: Water Body Crossings

Appendix I: Paleontological Resources Constraints Analysis

Appendix J: Soils Mapbook



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

Abbreviations

µg/m ³	micrograms per cubic meter
303(d) List	Section 303(d) List of Water Quality Limited Segments
AADT	average annual daily traffic
AB	Assembly Bill
ac	acre
ADI	Area of Direct Impact
ADT	average daily traffic
amsl	above mean sea level
ANSI	American National Standards Institute
AP	Alquist-Priolo
APE	Area of Potential Effects
APM	Applicant-Proposed Measure
applicant	Zayo Group, LLC
APSA	Above-ground Petroleum Storage Act
AST	aboveground storage tank
ATCM	Airborne Toxic Control Measure
Basin Plan	Water Quality Control Plan
BIA	Bureau of Indian Affairs
BLM	U.S. Bureau of Land Management
BMP	best management practice
BRSA	Biological Resources Survey Area
BRTR	<i>Biological Resources Technical Report</i>
CAAQS	California Ambient Air Quality Standards



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

CAFE	Corporate Average Fuel Economy
CAISO	California Independent System Operator
CalARP	California Accidental Release Program
CalEEMod	California Emissions Estimator Model
CAL EMA	California Emergency Management Agency
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
CalOSHA	Division of Occupational Safety and Health
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CBC	California Building Code
CCAA	California Clean Air Act
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	California Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFC	California Fire Code
CGP	Construction General Permit
CGS	California Geological Survey
CH ₄	methane
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalent
CPCN	Certificate of Public Convenience and Necessity
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CSLC	California State Lands Commission
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CWHR	<i>A Guide to Wildlife Habitats of California</i>
CWPP	Community Wildfire Protection Plan
dB	decibel
dBA	A-weighted decibel
DNL	day-night sound level
DOSH	Division of Occupational Safety and Health
DPM	diesel particulate matter
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
EDR	Environmental Data Resources, Inc.
ELFO	Eagle Lake Field Office
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ESA	federal Endangered Species Act
°F	degrees Fahrenheit
FCAA	federal Clean Air Act



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

FEMA	Federal Emergency Management Agency
FGC	California Fish and Game Code
FHSZ	Fire Hazard Severity Zone
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FLPMA	Federal Land Policy and Management Act
FMMP	Farmland Mapping and Monitoring Program
FPPA	Farmland Protection Policy Act
FRA	Federal Responsibility Area
g	percentage of gravity
GHG	greenhouse gas
GIS	Geographical Information System
G.O.	General Order
GSA	Groundwater Sustainability Agency
GSP	Groundwater Sustainability Plan
HAP	Hazardous Air Pollutants
HDPE	high-density polyethylene
HMTA	Hazardous Materials Transportation Act
HSC	California Health and Safety Code
HVAC	heating, ventilation, and air conditioning
ILA	In-Line Amplifier
LCAPCD	Lassen County Air Pollution Control District
L_{dn}	day-night sound level
L_{eq}	equivalent noise level
L_{max}	maximum noise level



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

LMU	Lassen-Modoc Unit
LOS	Level of Service
LRA	Local Responsibility Area
LRMP	Land and Resource Management Plan
LSAA	Lake or Streambed Alteration Agreement
MBTA	Migratory Bird Treaty Act
MCAB	Mountain Counties Air Basin
MCAPCD	Modoc County Air Pollution Control District
MCV	<i>Manual of California Vegetation, Second Edition</i>
MJUSD	Modoc Joint Unified School District
MLD	Most Likely Descendant
mm	millimeter
MMTCO _{2e}	million metric tons of carbon dioxide equivalent
MND	Mitigated Negative Declaration
mph	miles per hour
MRZ	Mineral Resource Zone
MTCO _{2e} /yr	metric tons of carbon dioxide equivalent per year
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Preservation and Repatriation Act
NAHC	Native American Heritage Commission
NEIC	National Earthquake Information Center
NEPA	National Environmental Policy Act
NESC	National Electrical Safety Code
NFIP	National Flood Insurance Program



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NOAA Fisheries	National Oceanic and Atmospheric Administration Fisheries
NO _x	Nitrogen oxide
NPAB	Northeast Plateau Air Basin
NPDES	National Pollutant Discharge Elimination Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSAQMD	Northern Sierra Air Quality Management District
O ₃	ozone
OHP	California State Office of Historic Preservation
OHV	off-highway vehicle
OPR	Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PAD	California Fish Passage Assessment Database
Pb	lead
PBDB	Paleo Biology Database
PCAPCD	Placer County Air Pollution Control District
PCE	passenger car equivalent
P-C Regions	Production-Consumption Regions
PDF	portable document format
PEA	Proponent's Environmental Assessment



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

PFYC	Potential Fossil Yield Classification
PI	Plasticity Index
PM	suspended particulate matter
PM _{2.5}	particulate matter with an aerodynamic diameter of 2.5 micrometers or less
PM ₁₀	particulate matter with an aerodynamic diameter of 10 micrometers or less
PMP	Paleontological Mitigation Plan
Porter-Cologne Act	Porter-Cologne Water Quality Control Act
POU	publicly owned utility
ppm	parts per million
PPV	peak particle velocity
PRC	Public Resources Code
project	construction and operation of an underground fiber optic network from Prineville, Oregon, to Reno, Nevada
PRPA	Paleontological Resources Preservation Act
PU Code	Public Utilities Code
QSP	Qualified Stormwater Pollution Prevention Plan Practitioner
RCRA	Resource Conservation and Recovery Act
ROG	reactive organic gas
RPS	Renewables Portfolio Standard
RRP	Revegetation and Restoration Plan
RTP	Regional Transportation Plan
RTPA	Regional Transportation Planning Agency
RWQCB	Regional Water Quality Control Board
SB	Senate Bill



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

SHPO	State Historic Preservation Officer
SIP	state implementation plan
SMARA	Surface Mining and Reclamation Act of 1975
SMARTS	Storm Water Multiple Application and Report Tracking System
SMGB	State Mining and Geology Board
SO ₂	Sulfur dioxide
SPCC	Spill Prevention, Countermeasure, and Control
SRA	State Responsibility Area
Stantec	Stantec Consulting Services Inc.
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TCP	Traditional Cultural Property
TK	Transitional Kindergarten
TMDL	Total Maximum Daily Load
TPZ	Timberland Production Zone
UCMP	University of California Museum of Paleontology
US 395	United States Highway 395
USACE	U.S. Army Corps of Engineers
USC	United States Code
USDA	U.S. Department of Agriculture
USDOT	U.S. Department of Transportation
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

UST	underground storage tank
VMT	vehicle miles travelled
WDID	Waste Discharger Identification
WEAP	Worker Environmental Awareness Program
WRP	Wetlands Reserve Program



PROPONENT'S ENVIRONMENTAL ASSESSMENT – ZAYO PRINEVILLE-TO-RENO FIBER OPTIC PROJECT

This page intentionally left blank.

