

# Transportation Communication Network

## DRAFT ENVIRONMENTAL IMPACT REPORT

---

SCH No. 2022040363

### PREPARED FOR:

Los Angeles County  
Metropolitan Transportation Authority

### PREPARED BY:

Eyestone Environmental, LLC



**e y e s t o n e**  
ENVIRONMENTAL

**September 2022**

# Table of Contents

---

	<u>Page</u>
<b>I. EXECUTIVE SUMMARY .....</b>	<b>I-1</b>
<b>II. PROJECT DESCRIPTION .....</b>	<b>II-1</b>
<b>III. ENVIRONMENTAL SETTING .....</b>	<b>III-1</b>
A. Overview of Environmental Setting .....	III-1
B. Related Projects .....	III-8
<b>IV. ENVIRONMENTAL IMPACT ANALYSIS .....</b>	<b>IV.A-1</b>
A. Aesthetics .....	IV.A-1
B. Air Quality .....	IV.B-1
C. Biological Resources .....	IV.C-1
D. Cultural Resources .....	IV.D-1
E. Energy .....	IV.E-1
F. Geology and Soils .....	IV.F-1
G. Greenhouse Gas Emissions .....	IV.G-1
H. Hazards and Hazardous Materials .....	IV.H-1
I. Land Use and Planning .....	IV.I-1
J. Noise .....	IV.J-1
K. Transportation .....	IV.K-1
L. Tribal Cultural Resources .....	IV.L-1
M. Utilities and Service Systems—Electric Power Infrastructure .....	IV.M-1
<b>V. ALTERNATIVES .....</b>	<b>V-1</b>
A. Alternative 1: No Project Alternative .....	V-9
B. Alternative 2: Reduced Project—Elimination of Impacts Related to Historical Resources.....	V-17
C. Alternative 3: Elimination of All Significant and Unavoidable Impacts Alternative .....	V-35
D. Environmentally Superior Alternative.....	V-54
<b>VI. OTHER CEQA CONSIDERATIONS .....</b>	<b>VI-1</b>

	<b><u>Page</u></b>
<b>VII. REFERENCES .....</b>	<b>VII-1</b>
<b>VIII. ACRONYMS AND ABBREVIATIONS .....</b>	<b>VIII-1</b>
<b>IX. LIST OF PREPARERS .....</b>	<b>IX-1</b>

# List of Appendices

---

Appendix A Initial Study, NOP (Notice of Preparation), and NOP Comment Letters

Appendix A.1 Initial Study

Appendix A.2 Notice of Preparation (NOP)

Appendix A.3 NOP Comment Letters

Appendix B Metro TCN Lighting Study

Appendix C Air Quality and Greenhouse Gas Emissions

Appendix C.1 Air Quality and Greenhouse Gas Emissions Methodology

Appendix C.2 Air Quality Worksheet and Modeling Output Files

Appendix C.3 Greenhouse Gas Worksheets and Modeling Output Files

Appendix D Biological Resources Technical Report

Appendix E Historical Resource Technical Study

Appendix F Energy Calculations

Appendix G Geology and Soils Evaluation

Appendix H Hazards Technical Report

Appendix I Land Use Plans Consistency Analysis Tables

Appendix J Noise Calculation Worksheets

Appendix K Transportation and Traffic Safety Review

Appendix L Tribal Cultural Resources

Appendix L.1 Tribal Cultural Resources Report

Appendix L.2 AB 52 Notification Letters and Delivery Confirmations

# List of Figures

---

<u>Figure</u>	<u>Page</u>
II-1 Regional Project Location Map North .....	II-12
II-2 Regional Project Location Map South.....	II-13
II-3 Regional Project Location Map Downtown .....	II-14
II-4 Freeway Facing TCN Structure Conceptual Design .....	II-15
II-5 Non-Freeway Facing TCN Structure Conceptual Design .....	II-16
III-1 Freeway Facing Site Location No. 1 through Freeway Facing Site Location No. 4.....	III-13
III-2 Freeway Facing Site Location No. 5 through Freeway Facing Site Location No. 8.....	III-14
III-3 Freeway Facing Site Location No. 9 through Freeway Facing Site Location No. 12.....	III-15
III-4 Freeway Facing Site Location No. 13 through Freeway Facing Site Location No. 16.....	III-16
III-5 Freeway Facing Site Location No. 17 through Freeway Facing Site Location No. 20.....	III-17
III-6 Freeway Facing Site Location No. 21 through Freeway Facing Site Location No. 24.....	III-18
III-7 Freeway Facing Site Location No. 25 through Freeway Facing Site Location No. 28.....	III-19
III-8 Freeway Facing Site Location No. 29 through Freeway Facing Site Location No. 32.....	III-20
III-9 Freeway Facing Site Location No. 33 through Freeway Facing Site Location No. 34.....	III-21
III-10 Non-Freeway Facing Site Location No. 1 through Non-Freeway Facing Site Location No. 4.....	III-22
III-11 Non-Freeway Facing Site Location No. 5 through Non-Freeway Facing Site Location No. 8.....	III-23

<b><u>Figure</u></b>	<b><u>Page</u></b>
III-12 Non-Freeway Facing Site Location No. 9 through Non-Freeway Facing Site Location No. 12.....	III-24
III-13 Non-Freeway Facing Site Location No. 13 through Non-Freeway Facing Site Location No. 16.....	III-25
III-14 Non-Freeway Facing Site Location No. 17 through Non-Freeway Facing Site Location No. 20.....	III-26
III-15 Non-Freeway Facing Site Location No. 21 through Non-Freeway Facing Site Location No. 22.....	III-27
IV.A-1 Street View—Freeway Facing Site Location No. 1 through Freeway Facing Site Location No. 4.....	IV.A-12
IV.A-2 Street View—Freeway Facing Site Location No. 5 through Freeway Facing Site Location No. 8.....	IV.A-13
IV.A-3 Street View—Freeway Facing Site Location No. 9 through Freeway Facing Site Location No. 12.....	IV.A-14
IV.A-4 Street View—Freeway Facing Site Location No. 13 through Freeway Facing Site Location No. 16.....	IV.A-15
IV.A-5 Street View—Freeway Facing Site Location No. 17 through Freeway Facing Site Location No. 20.....	IV.A-16
IV.A-6 Street View—Freeway Facing Site Location No. 21 through Freeway Facing Site Location No. 24.....	IV.A-17
IV.A-7 Street View—Freeway Facing Site Location No. 25 through Freeway Facing Site Location No. 28.....	IV.A-18
IV.A-8 Street View—Freeway Facing Site Location No. 29 through Freeway Facing Site Location No. 32.....	IV.A-19
IV.A-9 Street View—Freeway Facing Site Location No. 33 through Freeway Facing Site Location No. 34.....	IV.A-20
IV.A-10 Street View—Non-Freeway Facing Site Location No. 1 through Non-Freeway Facing Site Location No. 4.....	IV.A-21
IV.A-11 Street View—Non-Freeway Facing Site Location No. 5 through Non-Freeway Facing Site Location No. 8.....	IV.A-22
IV.A-12 Street View—Non-Freeway Facing Site Location No. 9 through Non-Freeway Facing Site Location No. 12.....	IV.A-23

<b><u>Figure</u></b>	<b><u>Page</u></b>
IV.A-13 Street View—Non-Freeway Facing Site Location No. 13 through Non-Freeway Facing Site Location No. 16 .....	IV.A-24
IV.A-14 Street View—Non-Freeway Facing Site Location No. 17 through Non-Freeway Facing Site Location No. 20 .....	IV.A-25
IV.A-15 Street View—Non-Freeway Facing Site Location No. 21 through Non-Freeway Facing Site Location No. 22 .....	IV.A-26
IV.B-1 Ozone Trends .....	IV.B-24
IV.B-2 SCAQMD SRAs.....	IV.B-26
IV.B-3 MATES V Total Cancer Risk for Project Area.....	IV.B-31
IV.C-1 Special Biological Resource Areas .....	IV.C-14
IV.D-1 Site Locations Within 100 Meters of a Historical Resource .....	IV.D-36
IV.D-2 North Spring Street Bridge.....	IV.D-42
IV.D-3 Site Location NFF-2 in Relation to the North Spring Street Bridge .....	IV.D-43
IV.D-4 Lankershim Depot.....	IV.D-45
IV.D-5 Site Location NFF-3 in Relation to the Lankershim Depot.....	IV.D-46
IV.D-6 Little Tokyo Historic District.....	IV.D-51
IV.D-7 Site Location NFF-16 in Relation to the Little Tokyo Historic District.....	IV.D-53
IV.D-8 Japanese Village Plaza .....	IV.D-54
IV.D-9 Site Location NFF-16 in Relation to the Japanese Village Plaza .....	IV.D-55
IV.D-10 Fourth Street Bridge .....	IV.D-57
IV.D-11 Site Location NFF-21 in Relation to the Fourth Street Bridge .....	IV.D-58
IV.F-1 Earthquake Zones—San Fernando Quadrangle.....	IV.F-9
IV.F-2 Earthquake Zones—Burbank Quadrangle .....	IV.F-10
IV.F-3 Earthquake Zones—Beverly Hills Quadrangle.....	IV.F-11
IV.F-4 Earthquake Zones—Hollywood Quadrangle.....	IV.F-12
IV.F-5 Earthquake Zones—Los Angeles Quadrangle.....	IV.F-13
IV.F-6 Earthquake Zones—Inglewood Quadrangle .....	IV.F-14
IV.J-1 Decibel Scale and Common Noise Sources .....	IV.J-3
IV.J-2 Guidelines for Noise Compatible Land Use .....	IV.J-13

<b><u>Figure</u></b>		<b><u>Page</u></b>
IV.J-3	Noise Receptor Locations—North .....	IV.J-20
IV.J-4	Noise Receptor Locations—South .....	IV.J-21
IV.J-5	Noise Receptor Locations—Downtown .....	IV.J-22

# List of Tables

---

<u>Table</u>	<u>Page</u>
I-1	Summary of Impacts Under the Project ..... I-8
II-1	Freeway Facing TCN Structure Locations ..... II-8
II-2	Non-Freeway Facing TCN Structure Locations ..... II-10
III-1	Site Locations—Existing Conditions ..... III-4
III-2	Non-Freeway-Facing Site Locations—Existing Conditions ..... III-6
IV.A-1	Light Trespass at 10 Percent of 3.0 fc Maximum Allowed by LAMC (0.3 fc) ..... IV.A-32
IV.A-2	Site Location Visibility Analysis for Site Locations with Nearby Sensitive Uses ..... IV.A-43
IV.A-3	Calculated Illuminance (Light Trespass) at Site Locations Near Sensitive Uses ..... IV.A-45
IV.A-4	Luminance Calculations ..... IV.A-46
IV.B-1	Ambient Air Quality Standards ..... IV.B-3
IV.B-2	Summary of Ambient Air Quality in the Project Vicinity—Source Receptor Area 1 ..... IV.B-27
IV.B-3	Summary of Ambient Air Quality in the Project Vicinity—Source Receptor Area 2 ..... IV.B-28
IV.B-4	Summary of Ambient Air Quality in the Project Vicinity—Source Receptor Area 3 ..... IV.B-29
IV.B-5	Summary of Ambient Air Quality in the Project Vicinity—Source Receptor Area 7 ..... IV.B-30
IV.B-6	Estimated Daily Regional Operational Criteria Pollutant Emissions for a Static Display—Baseline ..... IV.B-32
IV.B-7	SCAQMD Air Quality Significance Thresholds ..... IV.B-34
IV.B-8	Project Consistency with City of Los Angeles General Plan (Air Quality Element) ..... IV.B-50

<b><u>Table</u></b>	<b><u>Page</u></b>
IV.B-9 Estimate of Maximum Regional Project Daily Construction Emissions (pounds per day).....	IV.B-55
IV.B-10 Estimate of Maximum Regional Project Daily Operational Emissions—At Project Buildout for All 56 Proposed TCN Structures .....	IV.B-56
IV.B-11 Estimate of Maximum Localized Daily Project Construction Emissions (pounds per day).....	IV.B-57
IV.B-12 Estimate of Maximum Localized Project Daily Operational Emissions—At Project Buildout (2025) (pounds per day) .....	IV.B-59
IV.C-1 Vegetation Communities and Land Cover Types Mapped in the Biological Study Area.....	IV.C-17
IV.C-2 Other Special—Status Plant Species .....	IV.C-19
IV.C-3 Federally and/or State-Listed Wildlife Species.....	IV.C-20
IV.D-1 Historical Resources Identified in the Study Area Per Site Location.....	IV.D-35
IV.D-2 Historical Resources in the Study Area, Significance Status, and Impact Assessment for Historic Architecture .....	IV.D-37
IV.D-3 Site Locations Resulting in a Less Than Significant or No Impact .....	IV.D-60
IV.D-4 Site Locations Resulting in Significant and Unavoidable Impacts.....	IV.D-61
IV.E-1 Summary of Energy Use During Project Construction .....	IV.E-24
IV.E-2 Summary of Annual Energy Use During Project Operation .....	IV.E-26
IV.G-1 Description of Identified GHGs .....	IV.G-5
IV.G-2 Atmospheric Lifetimes and Global Warming Potentials .....	IV.G-6
IV.G-3 Estimated Statewide Greenhouse Gas Emissions Reductions Required by HSC Division 25.5 .....	IV.G-21
IV.G-4 California GHG Inventory (million metric tons CO <sub>2</sub> e) .....	IV.G-36
IV.G-5 Existing Project Site Annual GHG Emissions Summary .....	IV.G-38
IV.G-6 Construction-Related Emissions (MTCO <sub>2</sub> e).....	IV.G-51
IV.G-7 Annual Project GHG Emissions Summary (Buildout Year) (metric tons of carbon dioxide equivalent [MTCO <sub>2</sub> e]) .....	IV.G-53
IV.G-8 Regulatory Compliance Measures within the 2008 Climate Change Scoping Plan and Subsequent Updates .....	IV.G-56

<b><u>Table</u></b>	<b><u>Page</u></b>
IV.G-9 Consistency Analysis—2008 Climate Change Scoping Plan and Subsequent Updates .....	IV.G-58
IV.G-10 Consistency with the 2019 Metro Climate Action and Adaption Plan.....	IV.G-65
IV.G-11 Consistency with Applicable GHG Emissions Goals and Actions of the City’s Green New Deal.....	IV.G-67
IV.G-12 Project Consistency with 2045 Carbon Neutrality Goals.....	IV.G-71
IV.H-1 Conservation Element—Resource Management (Fossil Library): Petroleum (Oil and Gas) .....	IV.H-19
IV.H-2 Site Locations Within Methane Zones .....	IV.H-43
IV.J-1 Construction Vibration Damage Criteria .....	IV.J-12
IV.J-2 Groundborne Vibration and Groundborne Impact Criteria for General Assessment .....	IV.J-12
IV.J-3 City of Los Angeles Presumed Ambient Noise Levels .....	IV.J-16
IV.J-4 City of Los Angeles Guidelines for Noise Compatible Land Use .....	IV.J-17
IV.J-5 Description of Noise Receptor Locations .....	IV.J-23
IV.J-6 Existing Ambient Noise Levels.....	IV.J-25
IV.J-7 Construction Equipment Noise Levels .....	IV.J-33
IV.J-8 Construction Noise Impacts—Daytime Construction .....	IV.J-34
IV.J-9 Construction Noise Impacts—Nighttime Construction .....	IV.J-37
IV.J-10 Construction Noise Impacts With Mitigation Measures—Daytime Construction.....	IV.J-42
IV.J-11 Construction Noise Impacts With Mitigation Measures—Nighttime Construction.....	IV.J-44
IV.J-12 Construction Vibration Impacts—Building Damage .....	IV.J-46
IV.J-13 Construction Vibration Impacts—Human Annoyance .....	IV.J-47
IV.L-1 Prehistoric Cultural Chronology .....	IV.L-8
IV.L-2 Previously Recorded Resources with Native American Components Identified within a 0.25-Mile Radius of Site Locations.....	IV.L-22
IV.L-3 Notable Prehistoric Archaeological Sites Located Outside a 0.25-Mile Radius of Site Locations and Historic Period Archaeological Sites Resources Included in the CHRIS Search.....	IV.L-24

<b><u>Table</u></b>		<b><u>Page</u></b>
IV.L-4	Tribal Cultural Resources Sensitivity of Site Locations .....	IV.L-31
V-1	Summary Comparison of Development Proposed under Alternatives to the Project.....	V-4
V-2	Comparison of Impacts Associated with the Alternatives .....	V-7