

Eastridge to BART Regional Connector

Draft Second Supplemental
Environmental Impact Report
Volume I: Text



Existing Story Road



Proposed Story Station

October 2018

Eastridge to BART Regional Connector: Capitol Expressway Light Rail Project

Draft Second Supplemental Environmental Impact Report Volume I of III: Text

State Clearinghouse #2001092014

Prepared by:

Santa Clara Valley Transportation Authority
Environmental Programs
3331 North First Street, Building B-2
San José, CA 95134-1927

Contact:

Christina Jaworski, Senior Environmental Planner
Phone: (408) 321-5789
Email: EBRC-CELR-Comments@VTA.org

October 2018

Table of Contents

Chapter 1	Executive Summary	1
Chapter 2	Introduction	23
Chapter 3	Changes to the Project, Changes in Circumstances, and Introduction of New Information	31
Chapter 4	Alternatives Considered	51
Chapter 5	Environmental Setting, Impacts, and Mitigation ..	53
Section 5.1	Transportation	54
Section 5.2	Environmental Justice	69
Section 5.3	Noise and Vibration	79
Section 5.4	Air Quality and Climate Change	98
Section 5.5	Construction	125
Chapter 6	Other CEQA Considerations	149
Chapter 7	References	153
Chapter 8	List of Preparers	157

Attachment A: Notice of Preparation and Public Scoping with Comments Received

Attachment B: Detailed Description of the Proposed Changes

Attachment C: Detailed Plans for the Proposed Changes

Attachment D: Supplemental Transportation Analysis

Attachment E: Noise and Vibration Assessment

Attachment F: Air Quality Modeling Assumptions

Attachment G: Second Subsequent Initial Study

The Draft Second Supplemental EIR is divided into the following three volumes:

- **Volume I:** Draft SEIR-2 as well as Attachment A (Notice of Preparation and Public Scoping with Comments Received), Attachment B (Detailed Description of the Proposed Changes), and Attachment C (Detailed Plans for the Proposed Changes)
- **Volume II:** Draft SEIR-2 technical materials including Attachment D (Supplemental Transportation Analysis), Attachment E (Noise and Vibration Assessment), and Attachment F (Air Quality Modeling Assumptions)
- **Volume III:** Attachment G (Second Subsequent IS and all attachments)

List of Tables

1-1	Summary of Significant Environmental Impacts and Mitigation Measures.....	13
3-1	Rail Crossings for the Approved Project and the Proposed Changes to the Approved Project	34
3-2	Eastridge Park-and-Ride Lot Anticipated Parking Demand for the Approved Project and the Proposed Changes (Existing [2017] Year, Year 2023, Year 2035, and Year 2043)	40
5.1-1	AM Peak Hour Historical Traffic Volume Count Comparisons (2009 and 2017)	55
5.1-2	PM Peak Hour Historical Traffic Volume Count Comparisons (2009 and 2016/2017)	56
5.1-3	Existing Intersection Level of Service.....	57
5.1-4	Existing Travel Time and Average Speed on Capitol Expressway, Interstate 680 to Tully Road	58
5.1-5	Existing (2017) Station Boarding Estimates	59
5.1-6	Existing (2017) East San Jose/ Milpitas Trip Mode Split.....	59
5.1-7	Existing (2017) Intersection Level of Service	61
5.1-8	Year 2023 Intersection Level of Service.....	62
5.1-9	Year 2043 Intersection Level of Service.....	62
5.1-10	Eastridge Park-and-Ride Lot Anticipated Parking Demand and Supply (Existing [2017] Year, Year 2023, and Year 2043).....	65
5.1-11	Station Boarding Estimates (Year 2023 and Year 2043)	65
5.1-12	East San Jose/ Milpitas Trip Mode Split (Year 2023 and Year 2043)	66
5.2-1	Existing (2017) Poverty and Income Status for the City of San Jose and the Study Area	71
5.2-2	Existing (2017) Minority Status for the City of San Jose and the Study Area	72
5.3-1	Summary of Existing (2017) and Year 2043 Operational Transit Noise Impacts Associated with the Proposed Changes to the Approved Project	82
5.3-2	Summary of Operational Transit Vibration Impacts Associated with the Proposed Changes to the Approved Project	84
5.3-3	Summary of Construction Pile Driving Noise Impacts Associated with the Proposed Changes to the Approved Project	88
5.3-4	Summary of Impact Pile Driving Vibration Impacts Associated with the Proposed Changes to the Approved Project	94
5.4-1	Ambient Criteria Air Pollutant Monitoring Data (2015-2017)	98
5.4-2	Federal and State Attainment Status for Santa Clara County (2018)	100
5.4-3	Operational Criteria Pollutant Emissions Increases (Existing [2017] Year, Year 2023, and Year 2043).....	102
5.4-4	CO Modeling Concentration Results at Capitol Expressway and Story Road (Existing [2016] Year, Year 2023, and Year 2043).....	105
5.4-5	Daily Traffic Volume Changes Relative to No Project Conditions (Existing [2017] Year, Year 2023, and Year 2043).....	107
5.4-6	Summary of Operational GHG Emissions (Existing [2017] Year, Year 2023, and Year 2043).....	109
5.4-7	Summary of Maximum Daily Construction Criteria Pollutant Emissions (Year 2019 - 2023).....	111
5.4-8	Summary of Annual Construction GHG Emissions (Year 2019 – 2023)	114

5.4-9 PM2.5 Concentration, Non-Cancer Hazard Index,
and Increased Cancer Risk from Construction..... 117

5.4-10 Cancer Risk and PM2.5 Concentrations from Roadway
Sources with the Proposed Changes to the Approved Project 120

5.4-11 Cumulative PM2.5 Concentration, Non-Cancer Hazard Index,
and Increased Cancer Risk from Construction..... 122

List of Figures

2-1 Proposed Changes to Capitol Expressway Light Rail Project.....25

3-1 Previously Approved Capitol Expressway Light Rail Project.....33

3-2 Typical Bicycle Slot37

3-3 Proposed Changes to the Eastridge Station39

3-4 Proposed Changes to the Story Station41

3-5 Proposed Changes to Electrical Transmission Facilities.....43

3-6 Thompson Creek Trail.....46

5.2-1 Census Tracts Along the Capitol Expressway Corridor70