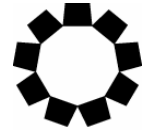


# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



ABAG

## AGENDA

### **ABAG EXECUTIVE BOARD MEETING NO. 431**

Thursday, March 15, 2018, 7:00 p.m.

Location:

Bay Area Metro Center  
Board Room  
375 Beale Street  
San Francisco, California

Teleconference Locations:

County Government Center, 70 W. Hedding Street, 1<sup>st</sup> floor, Room 157, San Jose, CA 95110  
San Jose McEnery Convention Center, East Entrance, 150 W San Carlos St, San Jose, CA  
95113

*The ABAG Executive Board may act on any item on this agenda.*

*Agenda and attachments available at <http://abag.ca.gov/meetings/execboard.html>*

*This meeting is scheduled to be webcast live at <http://abag.ca.gov/meetings/execboard.html>*

*For information, contact Fred Castro, Clerk of the Board, at (415) 820 7913.*

#### **1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE**

#### **2. PUBLIC COMMENT**

INFORMATION

#### **3. ANNOUNCEMENTS**

INFORMATION

#### **4. PRESIDENT'S REPORT**

INFORMATION

#### **5. EXECUTIVE DIRECTOR'S REPORT**

INFORMATION

*Attachment: Executive Director's Report (To be sent under separate cover.)*

##### **A. Proposed Bylaws Changes**

ACTION

*Attachments: Memo Proposed Bylaws Change; Proposed Bylaws Changes Redline*

## **ABAG Executive Board**

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### **6. CONSENT CALENDAR**

#### ACTION

Unless there is a request by an ABAG Executive Board member to take up an item on the consent calendar separately, the consent calendar will be acted upon in one motion.

#### **A. Approval of Executive Board Summary Minutes of Meeting No. 430 held on January 18, 2018**

*Attachment: Summary Minutes of January 18, 2018*

#### **B. Authorization to Enter into Sole Source Agreement with Chris Austin for Science Communications Services in the amount of \$60,000 under Delta Science Support Grant from Delta Stewardship Council**

*Attachments: Memo Chris Austin; Summary Approval*

#### **C. Adoption of Resolution No. 04-18—Approval of Executive Director Advancing Payments to San Francisco Estuary Partnership Vendors with a Cap of no more than \$50,000 in Outstanding Advance Payments per Vendor per Contract**

*Attachments: Memo SFEP Vendors; Resolution No. 04-18*

### **7. ABAG ADMINISTRATIVE COMMITTEE REPORT**

#### ACTION

ABAG Administrative Committee Chair David Rabbitt, Supervisor, County of Sonoma, will report on Committee activities and request ABAG Executive Board approval of Committee recommendations.

*Attachment: Administrative Committee Agenda*

*Agenda and attachments available at <http://abag.ca.gov/meetings/>*

#### **A. Report on Proposed Amendment to Plan Bay Area 2040 and Adoption of Resolution No. 02-18 and Resolution No. 03-18**

Ken Kirkey, Planning Director, and Adam Noelting, Principal Planner, will give the staff report on the proposed amendment to Plan Bay Area 2040.

Approval of the proposed amendments to Plan Bay Area 2040 (Plan) to revise the cost and scope of the U.S. 101 Managed Lanes Project in San Mateo County, and approval of one companion technical document—Environmental Impact Report (EIR) Addendum—that demonstrates the Amended Plan complies with California Environmental Quality Act (CEQA) requirements. The public comment period closed on February 21, 2018, and a summary of comments and responses are provided for your information.

The Metropolitan Transportation Commission is scheduled to consider and take action on MTC Resolution No. 4325 (Revision Number 2017-28); MTC Resolution No. 4326; MTC Resolution No. 4327; and MTC Resolution No. 4275, Revised at its meeting on March 28, 2018. These actions include the two items subject to the Executive Board approval as well as two additional actions related to the 2017 Transportation Improvement Program and the Transportation Air Quality Conformity Analysis.

- a) Addendum to the Final EIR for Plan Bay Area 2040 (MTC Resolution No. 4326 and ABAG Resolution No. 02-18).

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- b) Amendment to Plan Bay Area 2040 (MTC Resolution No. 4327 and ABAG Resolution No. 03-18).

**ACTIONS**

- a) ABAG Resolution No. 02-18: Addendum to the Final Environmental Impact Report for Plan Bay Area 2040.
- b) ABAG Resolution No. 03-18: Approve the Proposed Amendment to Plan Bay Area 2040.

*Attachments:*

- 1) *Presentation*
- 2) *Memo, Attachment A and Attachment B*
- 3) *MTC Resolution No. 4325, Attachment C*
- 4) *MTC Resolution No. 4326 and ABAG Resolution No. 02-18, Attachment D*
- 5) *MTC Resolution No. 4327 and ABAG Resolution No. 03-18, Attachment E*
- 6) *MTC Resolution No. 4275, Attachment F*

**8. ABAG LEGISLATION COMMITTEE REPORT**

**INFORMATION**

ABAG Legislation Committee Chair Scott Haggerty, Supervisor, County of Alameda, will report on Committee activities and the recent joint meeting with the MTC Legislation Committee.

*Attachment: Legislation Committee Agenda*

*Agenda and attachments available at <http://abag.ca.gov/meetings/>*

**9. ABAG FINANCE COMMITTEE REPORT**

**ACTION**

ABAG Finance Committee Chair Karen Mitchoff, Supervisor, County of Contra Costa, will report on Committee activities and request ABAG Executive Board approval of Committee recommendations.

*Attachment: Finance Committee Agenda*

*Agenda and attachments available at <http://abag.ca.gov/meetings/>*

**A. Reauthorization of ABAG Investment Policy—ABAG Resolution No. 06-17**

**ACTION**

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Investment Policy; ABAG Resolution No. 06-17*

**B. Adoption of ABAG Resolution No. 01-18 Establishing Bylaws of the Advancing California Finance Authority**

**ACTION**

*Attachments: Memo ACFA Bylaws; ABAG Resolution No. 01-18*

## **ABAG Executive Board**

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### **C. Recommend General Assembly Adoption of Proposed Budget and Work Program for Fiscal Year 2018-2019**

ACTION

*Attachments: Memo Budget Work Plan; Proposed Operating Budget; Proposed Work Program*

### **D. Authorization to Enter into a Contract with PricewaterhouseCoopers (PwC) to Provide Annual Financial and Compliance Audit Services for Five Fiscal Years in the amount of \$402,325**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Annual Financial and Compliance Audit; Summary Approval*

### **E. Proposed Modification of Membership Dues**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Membership Dues*

## **10. ABAG REGIONAL PLANNING COMMITTEE REPORT**

ACTION

ABAG Regional Planning Committee Chair Pradeep Gupta, Councilmember, City of South San Francisco, will report on Committee activities and request ABAG Executive Board approval of Committee recommendations.

*Link: Regional Planning Committee Agenda*

*Agenda and attachments available at <http://abag.ca.gov/meetings/>*

### **A. Report on the Committee to House the Bay Area (CASA) Process**

INFORMATION

Ken Kirkey, Planning Director, will provide an update on the CASA process and key milestones and will seek Executive Board input on local government engagement to identify strategies and support needed by local jurisdictions to address the region's housing crisis.

*Attachments: Memo CASA; Presentation*

## **11. ADJOURNMENT**

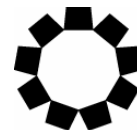
The next regular meeting of the ABAG Executive Board is on May 17, 2018.

Date Submitted: March 7, 2018

Date Posted: March 9, 2018

# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018  
To: ABAG Executive Board  
From: Executive Director  
Subject: **Proposed Bylaws Changes**

## **Executive Summary**

The ABAG Bylaws were last revised on April 23, 2009. With the consolidation of ABAG and MTC staff pursuant to the Contract for Services, dated May 30, 2017, between ABAG and MTC (CS), several provisions of the Bylaws require revision to be in harmony with the terms of the CS. A review of the Bylaws to determine which provisions required updating revealed several other provisions that staff recommend be revised to streamline procedures of the ABAG Executive Board and the General Assembly. The proposed changes are shown in the attached redline with ~~strikeout~~ indicating removed provisions, and underscoring indicating added provisions. The changes are summarized as follows:

- 1) The current Bylaws state in Article VII A. (1)(j) [pertaining to the Executive Board] that the President, Vice President and Immediate Past President are ex officio voting members but not representatives or alternates. Staff recommends this provision be removed as it is confusing when read with Article VII A. (5) which states that the President and Vice President are the Chairperson and Vice Chairperson of the Executive Board.
- 2) Several provisions concerning the Executive Director of the Association are recommended for removal as the CS provides that the MTC Executive Director performs the functions and duties of the previous Executive Director of the Association. Similarly, language is proposed for insertion, consistent with the CS, reflecting the terms of the CS as they pertain to the appointment of the Executive Director and legal counsel. The proposed revisions also include language dealing with the possibility that in the event the CS is terminated or no longer in effect, the above described deletions become again applicable (see, e.g. Articles IX and X).
- 3) Several provisions concerning the votes required to act are recommended for revision so that a majority of voting members present at the meeting is what is required, rather than a majority of all members.
- 4) Several provisions concerning timing of budget preparation and reconsideration of Bylaw amendments are proposed for revision in order to streamline processes.

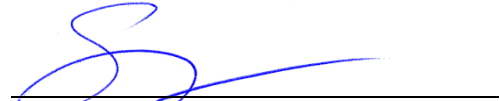
**Proposed Bylaws Changes**

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**Recommended Action**

Staff recommends the Executive Board approve the proposed amendments to the Bylaws and forward them to the General Assembly for full approval.



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Steve Heminger

**Attachment**

Proposed Bylaws Changes

**BYLAWS OF  
THE  
ASSOCIATION OF BAY AREA GOVERNMENTS  
As Amended April 23, 2009**

**ARTICLE I. PURPOSE**

The Association of Bay Area Governments (hereinafter "Association") is hereby created as a separate entity established by agreement among its members pursuant to the Joint Exercise of Powers Act, California Government Code Sections 6500, et seq. (hereinafter "Act"). The Association is organized for the purposes of establishing a permanent forum for discussion and study of regional and subregional problems of interest and concern to the counties and cities of the San Francisco Bay Area, developing policies and actions, and providing services and undertaking actions addressing such problems.

**ARTICLE II. DEFINITIONS**

**A.** "Agreement" means the Agreement with the Association of Bay Area Governments entered into under the Act by the Association Members.

**B.** "Association" means the Association of Bay Area Governments as established by the Agreement and these Bylaws.

**C.** "Executive Board" means the Association's President, Vice President and Immediate Past President and the body of representatives which meet from time to time as provided in these Bylaws to govern the affairs of the Association between meetings of the General Assembly.

**D.** "General Assembly" means the body of the delegates of the Members of the Association as set forth in these Bylaws.

**E.** City, county, or city and county members of the Association may be referred to as "Members."

**F.** "Delegate" means a delegate of a Member of the Association to the General Assembly, or the alternate acting in the delegate's absence.

**G.** "Representative" means a representative to the Executive Board, or the alternate acting in the representative's absence.

**H.** "Regional Plan" means the comprehensive plan for the San Francisco Bay Region adopted and amended from time to time by the Association.

**I.** "Regional Problem" means an issue concerning the public health, safety or welfare of substantially all of the Association's Members, a solution to which may require intergovernmental cooperation or assistance of the Association.

**J.** "Subregional Problem" means an issue concerning the public health, safety or welfare of one or more of the Association's Members, a solution to which may require intergovernmental cooperation or assistance of the Association.

**ARTICLE III. MEMBERSHIP**

**A. MEMBERS**

(1) The counties of Alameda, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Solano, and Sonoma, the City and County of San Francisco, and within the area of such counties all cities and incorporated

towns (hereinafter referred to as "cities") now existing or formed in the future are eligible for membership in the Association.

(2) All eligible cities and counties become Members of the Association upon execution of the Agreement and payment of the annual assessment and annual membership fee.

**A. COOPERATING MEMBERS**

(1) Subject to the approval of the Executive Board or the Executive Director as set forth in Article III.B(4), any governmental entity, public agency, or non-profit organization not eligible for membership under Article III.A of these Bylaws may elect to join the Association as a Cooperating Member.

(2) Cooperating Members shall be entitled to attend all meetings of the General Assembly and of the Executive Board, but shall not be entitled to vote or participate in debate. No Cooperating Member shall be considered a "contracting party" as that term is used in the Act.

(3) Cooperating Members shall be entitled to receive data, studies, planning documents, special services, and other written materials and services of the Association subject to policies adopted by the Executive Board.

(a) The Executive Director of the Association may approve the admission of any governmental entity or public agency electing to join the Association as a Cooperating Member pursuant to this Article III.B.

(b) The Executive Board of the Association may approve the admission of any non-profit organization electing to join the Association as a Cooperating Member pursuant to this Article III.B.

**ARTICLE IV. POWERS**

**A. GENERAL**

The Association may exercise in its own name the following powers when the exercise of these powers is necessary to, in furtherance of, or in support of the Association, the exercise of any other powers provided for in these Bylaws or the Agreement, or any other authorized activity undertaken by the Association: make and enter into contracts, memoranda of understanding, and other agreements; employ and appoint employees and agents; acquire, hold, protect, dispose of, construct, operate, and maintain real and personal property; incur debts, liabilities, obligations, and encumber or hypothecate real or personal property; sue and be sued; and, accept grants, gifts, donations, and other monies.

**B. INFORMATION GATHERING**

The Association may request, collect, store, correlate, transfer, and otherwise manage information and data in any manner necessary to, in furtherance of, or in support of the exercise of any other power under this Article or any other authorized activity undertaken by the Association.

**C. STUDIES**

The Association may perform studies to identify and/or analyze regional or subregional problems, the purpose and subject matter of such studies to be determined as provided in these Bylaws.

**D. REGIONAL PLANNING**

The Association shall have the power to perform regional or subregional planning without limitation as to subject matter:



- (1) that it is eligible or authorized to do; or,
- (2) that it is required to do under State or Federal authority; or,
- (3) that is authorized under other provisions of these Bylaws or as a result of the Association's studies of regional or subregional problems.

**E. POLICIES AND ACTIONS**

- (1) The Association may develop and adopt policies and/or actions.
- (2) The Association may advocate and otherwise act to advance its positions, studies, plans, and policies both within and outside the region and may accept delegations of authority from Federal, State, regional, or local bodies to this end.

**F. INTERAGENCY COOPERATION**

- (1) The Association may appoint representatives, in its own name, to other agencies, Boards, commissions, or official bodies to which it is required or eligible to make appointments.
- (2) The Association may perform and participate in governmental coordination and respond to efforts at such coordination.
- (3) In the exercise of its powers under Article IV.F(1) and (2), the Association may request or transmit information or studies; exercise any voting or veto power given to it; participate in grant applications, administration, and disbursements; and, do any other acts necessary to or in support of the exercise of such powers.

**G. INFORMATION, SERVICES, AND ASSISTANCE**

- (1) The Association may provide information, assistance, services, studies, plans, recommendations, and reports or such other information, assistance, and services requested by specific Members or nonmembers. Information, services, and assistance may include, without limitation, preparing or making of grant applications on behalf of or in conjunction with Members, training programs for local government staff, technical assistance on particular projects, or review of particular projects. The Association may provide information, assistance and services in conjunction with other entities and may organize and/or participate in committees, task forces, and subsidiary entities necessary to or in support of this or its other powers.
- (2) The Association may charge reasonable fees for information, services, and assistance that it provides.

**H. POWER TO FINANCE PROPERTY FOR MEMBERS.**

The Association shall have the power to finance and acquire, by lease purchase, installment sale or other financing agreements, both real and personal property necessary or convenient for the operation of the Members and Cooperating Members, and to sell or lease such property to such members pursuant to installment sale or lease purchase agreements between the Association and the members acquiring such property.

**I. SELF-INSURANCE POOLS**

Pursuant to Government Code Sections 989-991.2 and Labor Code Section 3700, as may be amended from time to time, ABAG shall have the power to provide insurance for some or all of its Members through self- insurance or the purchase of insurance, excess insurance or reinsurance against public liability, errors and omissions, inverse condemnation or workers' compensation; and, further, shall have such other reasonable and necessary powers, which are necessary or convenient to further, support or implement the self-insurance program,

including without limitation, financing self-insurance reserve funds through the issuance of certificates of participation, or other instruments of indebtedness.

**J. OTHER POWERS**

The Association may exercise other reasonable and necessary powers in furtherance or support of any purpose of the Association or power granted by the Act, the Agreement, or the General Assembly or the Executive Board as provided for in these Bylaws.

**ARTICLE V. RESTRICTIONS ON POWERS**

Pursuant to Articles 1 and 5 of the Agreement and to the extent required by Government Code Section 6509, the Association shall be restricted in the exercise of its powers in the same manner as the City and County of San Francisco is restricted in its exercise of similar powers; provided that, if the City and County of San Francisco shall cease to be a Member of the Association, then the Association shall be restricted in the exercise of its powers in the same manner as the County of Alameda.

**ARTICLE VI. GENERAL ASSEMBLY**

**A. MEMBERSHIP**

(1) Each Member city and Member county shall have one seat in the General Assembly. San Francisco shall be counted as both a city and a county for purposes of membership in the General Assembly.

(2) The mayor or member of the governing body of each Member city and the chairperson of the board of supervisors or member of the governing body of each Member county, or their respective alternates, shall be delegates to the General Assembly.

(3) Each city council and board of supervisors may designate an alternate who shall be either a member of such body or the chief executive officer of the Member; provided that, the mayor of the City and County of San Francisco may designate as an alternate (a) any officer of the City and County of San Francisco who may be either an elected or principal appointed official of the City and County of San Francisco or (b) the chief executive officer of the City County of San Francisco.

(4) An alternate appointed pursuant to Article VI.A(3) may act in the absence of the delegate.

**B. MEETINGS**

(1) The time, date, and location of the annual meeting of the General Assembly shall be determined by the Executive Board, provided it is no later than June 30.

(2) Notice of the annual meeting of the General Assembly shall be given to the delegates of each Member city and Member county at least thirty (30) days prior to the meeting. An agenda for the meeting shall accompany the notice.

(3) Special meetings of the General Assembly may be called by the Executive Board upon its own motion. A special meeting shall be called by the Executive Board upon written request of fifteen (15) Member cities and three (3) Member counties.

(4) Ten-day written notice of special meetings shall be given to the delegates of each Member city and Member county. An agenda specifying the subject of a special meeting shall accompany the notice.

## C. POWERS AND FUNCTIONS

The powers and functions of the General Assembly shall include:

- (1) Exercising as appropriate all of the powers of the Association as set forth in these Bylaws or the Agreement. The General Assembly shall have the power to limit the Executive Board's exercise of any power or authority set aside to the Executive Board under these Bylaws.
- (2) Any delegate may at any meeting of the General Assembly propose a subject or subjects for study by the Association. The General Assembly may take action upon such proposals and, if requested by any delegate, determine whether a study will be made of the subject or subjects so proposed or may refer such subject or subjects to the Executive Board.
- (3) Any delegate may at any meeting of the General Assembly request review by the General Assembly of any action of the Executive Board which has been taken between meetings of the General Assembly.
- (4) The budgetary duties and responsibilities set forth in Article XI.

## ARTICLE VII. EXECUTIVE BOARD

### A. EXECUTIVE BOARD

There shall be an Executive Board of the Association which shall be organized and shall be responsible for functions as hereinafter set forth:

- (1) Voting Membership. The voting membership of the Executive Board shall consist of a maximum of 38 voting members (representatives and ex officio members). The representative shall be either a councilmember of a Member city or a supervisor of a Member county of the Association, or be eligible to be Executive Board representative or alternate representative from the City and County of San Francisco under Article VII.A(1)(e), if that jurisdiction is an Association member. Representatives to the Executive Board shall be selected as follows:
  - (a) Alameda County. Two representatives of the county to be appointed by the Board of Supervisors; two representatives of Member cities within the county to be appointed by the mayors of Member cities meeting in conference, and three representatives to be appointed by the City Council of the City of Oakland.
  - (b) Contra Costa County. Two representatives of the county to be appointed by the Board of Supervisors; two representatives of Member cities within the county to be appointed by the mayors of Member cities meeting in conference.
  - (c) Marin County. One representative of the county to be appointed by the Board of Supervisors; and one representative of Member cities within the county to be appointed by the mayors of Member cities meeting in conference.
  - (d) Napa County. One representative of the county to be appointed by the Board of Supervisors; and one representative of Member cities within the county to be appointed by the mayors of Member cities meeting in conference.
  - (e) San Francisco City and County. The Mayor and one other elective officer or member of the Mayor's staff of the City and County appointed by the Mayor; two representatives of the City and County appointed by the Board of Supervisors, and a fifth representative to be appointed alternately by the Mayor and the Board of Supervisors, with two-year appointments beginning in years evenly divisible by four to be made by the Mayor and with two-year appointments made in even-numbered years not evenly divisible by four to be made by the Board of Supervisors. When such fifth representative is selected by the Mayor, the representative may be an elective or appointive officer or member of the Mayor's staff of the City and County.

(f) San Mateo County. Two representatives of the county to be appointed by the Board of Supervisors; two representatives of Member cities within the county to be appointed by the mayors of Member cities meeting in conference.

(g) Santa Clara County. Two representatives of the county to be appointed by the Board of Supervisors; two representatives of Member cities within the county to be appointed by the mayors of Member cities meeting in conference, and three representatives to be appointed by the City Council of the City of San Jose.

(h) Solano County. One representative of the county to be appointed by the Board of Supervisors; and one representative of Member cities within the county to be appointed by the mayors of Member cities meeting in conference.

(i) Sonoma County. One representative of the county to be appointed by the Board of Supervisors; and one representative of Member cities within the county to be appointed by the mayors of Member cities meeting in conference.

~~(a) President, Vice President and Immediate Past President. The President, Vice President and Immediate Past President of the Association shall be ex officio voting members of the Executive Board, but shall not be representatives or alternates.~~

(j) Alternates. Each of the appointing bodies named in Article- VII.A(1)(a)(i) may designate an alternate for each of their representatives to act in the representative's absence. Appointments of alternates shall be made in the same manner, with the same qualifications and for the same term as representatives.

(2) Advisory Membership. The Association shall maintain effective communication and coordination with agencies of the State of California and the United States of America. To that end, the Executive Board shall invite, following nomination by the Association's President, such representatives of state and federal governments as it deems appropriate and desirable as advisory, non-voting members of the Executive Board. Such members shall serve at the pleasure of the Executive Board. No advisory member shall be considered a "contracting party" as that term is used in the Act.

(3) Terms of Office. Representatives shall serve for terms of two years. Appointments of representatives to the Executive Board shall become effective biennially on July 1.

(4) Staggered Terms. The terms of the representatives to the Executive Board shall be staggered so that the terms of approximately one-half of the representatives expire each year. The terms of the representatives of the cities in the counties of Alameda, Marin, Napa, San Francisco (mayor and representative), and Santa Clara, and the representatives of the counties of Contra Costa, San Mateo, Solano, and Sonoma shall expire in the even- numbered years; the terms of the representatives of the cities in the counties of Contra Costa, San Mateo, Solano, and Sonoma, and the representatives of the counties of Alameda, Marin, Napa, San Francisco (representatives of the Board of Supervisors), and Santa Clara shall expire in the odd-numbered years.

(5) Officers. The President and the Vice President of the Association shall be Chairperson and Vice Chairperson, respectively, of the Executive Board.

(6) Duties.

(a) The Executive Board shall have the budgetary duties and responsibilities set forth in Article XI.

(b) The Executive Board shall submit a full report of its activities at the General Assembly's annual meeting.

~~(b) The Executive Board shall have the authority to appoint, fix the salary of, and remove an Executive Director of the Association and shall have the authority to create and discontinue positions in the office of the Executive Director and fix salaries.~~

(c) Subject to any constraint or limitation imposed by the General Assembly, the Executive Board shall exercise all powers of the Association between meetings of the General Assembly; provided that, the Executive Board shall not amend these Bylaws, nor shall it exercise the budgetary powers reserved to the General Assembly under Article XI of the these Bylaws.

(d) The Executive Board shall be responsible for carrying out policy decisions made by the General Assembly.

(e) Recommendations from committees for policy actions shall be made to the Executive Board. Unless otherwise directed by the General Assembly, the Executive Board may take action on such recommendations.

(7) Per Diem. Each voting member of the Executive Board, or of a standing and/or joint committee, and where expressly designated by the Executive Board, individuals participating in special committees, task forces or other meetings, shall receive a per diem of \$150 for each meeting attended. The per diem shall be paid for a maximum of forty-eight (48) meetings per year. Per diem may also be received by a Board or committee member representing the Association before an agency or body of the State or Federal government.

## **B. MEETINGS**

The Executive Board shall meet at least four times each year. Additional meetings shall be held upon the call of the Chairperson or upon the call of five voting members of the Executive Board.

## **C. ADMINISTRATIVE COMMITTEE**

There shall be an Administrative Committee of the Executive Board of the Association whose composition shall be determined by the Executive Board and which shall, subject to any constraint or limitation imposed by the Executive Board or the General Assembly, exercise all powers of the Executive Board between meetings of the Executive Board; provided that, the Administrative committee shall not:

- (1) Amend the Agreement or Bylaws;
- (2) Exercise the budgetary duties of the Executive Board set forth in Article XII;
- ~~(1) Appoint, fix the salary of, or remove an Executive Director of the Association;~~
- (3) Exercise the powers of appointment of officers as set forth in Article IX.

The Administrative Committee shall meet upon the call of the President or Vice President and in compliance with the Ralph M. Brown Act. Further, the Administrative Committee shall submit a full report of its activities to the Executive Board at the first meeting immediately following the Administrative Committee meeting.

## **ARTICLE VIII. VOTING**

**A.** Voting in the General Assembly shall be conducted in the following manner:

(1) A quorum of the General Assembly shall consist of a majority of the city delegates and a majority of the county delegates.

(2) Each county delegate and each city delegate shall have one vote. Votes shall be tabulated separately for county delegates and for city delegates. The affirmative votes of a majority of a quorum of county

delegates and of a majority of a quorum of city delegates are required for action by the General Assembly, except as provided for in Article XIV.

**B.** Voting in General Assembly meetings may be either by voice or roll call vote. A roll call vote shall be conducted upon the demand of five delegates present, or at the discretion of the presiding officer.

**C.** Voting in the Executive Board shall be conducted in the following manner:

(1) A majority of the voting members of the Executive Board shall constitute a quorum.

(2) The affirmative votes of a majority of the quorum are required for action by the Executive Board with the exceptions set out below.

(3) In order to recommend the annual budget to the General Assembly, the affirmative vote of not less than a majority of the voting members of the Executive Board ~~is required present at the meeting of the Executive Board where the matter is considered, is required.~~

~~(4) In order to appoint or remove the Executive Director, the affirmative vote of not less than a majority of the voting members of the Executive Board is required.~~

**D.** Except as the Executive Board may otherwise provide, all other committees of the Association may act upon the affirmative vote of a majority of the committee members present.

#### **ARTICLE IX. OFFICERS, ELECTIONS AND VACANCIES**

**A.** Officers of the Association shall be:

(1) The President, who shall serve as Chairperson of the Executive Board and General Assembly.

(2) The Vice President, who shall serve as Vice Chairperson of the Executive Board and General Assembly.

(3) The Immediate Past President.

(4) An Executive Director and a Legal Counsel to be appointed by and serve at the pleasure of the Executive Board. Section 2.1 of the Contract for Services, dated May 30, 2017, between ABAG and the Metropolitan Transportation Commission (MTC) (the CS) provides that MTC's Executive Director shall perform the functions and duties with respect to ABAG and the local collaboration programs that were formerly performed by ABAG's Executive Director. For purposes of these Bylaws, so long as the CS is in effect, references to the "Executive Director" shall be deemed to refer to the MTC Executive Director. Section 3.4 of the CS provides that legal services shall be performed by MTC's Office of General Counsel. Subject to the terms of the CS pertaining to potential conflicts of interest, obtaining outside specialized legal services, and the discretion of ABAG or the local collaboration programs to directly retain outside counsel, references in these Bylaws to the legal counsel shall be deemed to refer to the MTC Office of General Counsel.

**B.** The President and Vice President of the Association shall be elected biennially by secret ballot of supervisors, mayors and city councilmembers of member jurisdictions. Nominations for the offices of the President and Vice President shall be by petition of at least fifteen (15) mayors, councilmembers or supervisors. A plurality vote shall be required for election to any office. All other election procedures shall be determined by the Executive Board, provided that these procedures shall be disseminated to all member jurisdictions at least thirty (30) days prior to the date determined and designated for counting of secret

ballots. If, at the close of nominations, only one candidate is nominated for President or for Vice President, the election procedures may waive the ballot requirement and provide, instead, that the nominee be declared elected to that office.

**C.** The President and Vice President shall be either a councilmember of a Member city or a supervisor of a Member county of the Association, or a General Assembly delegate or alternate or Executive Board representative or alternate representative from the City and County of San Francisco if that jurisdiction is an Association member.

**D.** The terms of office of the President and Vice President shall be determined as follows:

(1) Except as otherwise provided in this section, the term of office of the President, Vice President and Immediate Past President is two (2) years.

(2) If the President vacates his/her office as required by Article IX.C. or any other reason, the Vice President shall assume the office of President for the balance of the original term. If the balance of the original term is less than five hundred forty-eight (548) calendar days, then the new President may choose to run for an additional one (1) year term as President. The new President shall notify the Executive Board no later than September 1 of the year in which the original term ends whether he/she shall run for an additional one (1) year term. The President's election to run for an additional one (1) year term shall also modify the term of office of the Vice President to conform to that of the office of the President.

(3) Article IX.B. shall govern the special elections for one (1) year terms in all other respects.

(4) In the event that the President is disabled or for any other reason temporarily unable to act, the Vice President shall act in place and perform the duties of President until return or recovery from disability.

(5) In the event of a vacancy in the office of Vice President due to the Vice President's permanently serving as President, vacating the office as required by Article IX.C., or for any other reason, the Executive Board shall fill the office of Vice President by appointment for the unexpired portion of the Vice President's term. In the event of a simultaneous vacancy in the offices of President and Vice President due to their vacating the respective offices as required by Article IX.C., or any other reason, the Executive Board shall fill both offices by appointment for the unexpired portion of the respective terms. In either event, the procedures of Article IX.I shall govern the process of filling said vacant office.

**E.** A newly elected President and Vice President shall take office on January 1 of the year following certification of the election results.

**F.** The President, subject to the advice and consent of the Executive Board, shall appoint committees and determine the committees' structure, charge, size and membership. Committees may be established to consider any matter within the jurisdiction of the Association. Committees shall operate according to the policies adopted by the Executive Board, and shall submit their reports and recommendations to the Executive Board. Committees shall meet on the call of their chairpersons, who shall be (1) an elected official or the elective or appointive officer of the City and County of San Francisco appointed by the Mayor of the City and County of San Francisco to the Executive Board or General Assembly, and (2) a member of such committee; and who shall be elected by the members of each committee. At the initial meeting of each committee, and annually thereafter at the first committee meeting following January 1 of each year, the committees shall elect their chairpersons and such other officers as may be specified. Committee chairpersons shall be subject to confirmation by the Executive Board. Unless otherwise authorized by the Executive Board, committees of the Association shall be advisory.

**G.** Each delegate or alternate to the General Assembly and each representative or alternate to the Executive Board shall cease to be such immediately upon ceasing to hold the elective or appointive office which is required of a delegate or representative or their alternates under VI.A or VII.A(1).

**H.** In the event that any delegate or alternate to the General Assembly or any representative or alternate to the Executive Board shall for any reason cease to hold the elective or appointive office which is required of a delegate or representative or their alternates under Article VI.A or VII.A(1), the vacancy created thereby shall be filled for the unexpired term, in the same manner and with the same qualifications as the original appointment.

**I.** The Executive Board shall fill the office of Vice President or President pursuant to Article IX.D., at the first meeting of the Executive Board held after the occurrence of the event which causes the office(s) to be vacated. The meeting shall be chaired by the President, or if said office is vacant, by the Immediate Past President. Nominations for the vacant office(s) may be made from the floor. All nominations require a second. The office(s) may be filled only if a nominee receives a majority vote of the members of the Executive Board constituting the quorum for that meeting. If no nominee receives a majority vote on the first ballot, the two nominees receiving the highest number of votes shall be voted upon again until one of them receives a majority vote. If the selection process results in a tie, or no nominee receives a majority vote after three rounds of balloting, the acting Chairperson of the Executive Board may, at his or her discretion, decide the matter by lot between the two nominees then remaining.

#### **ARTICLE X. EXECUTIVE DIRECTOR**

The Executive Director shall be the Chief Administrative Officer of the Association. The powers and duties of the Executive Director are:

- A.** To appoint and remove all employees of the Association.
- B.** To perform the budgetary duties and responsibilities of the Executive Director as set forth in Article XI.
- C.** To serve as the Secretary-Treasurer of the Association and of the Executive Board.
- D.** To perform such other and additional duties as the Executive Board may require.

In the event the CS is terminated or is no longer in effect:

(a) The Executive Board shall have the authority to appoint, fix the salary of, and remove an Executive Director of the Association and shall have the authority to create and discontinue positions in the office of the Executive Director and fix salaries; provided however the Administrative Committee of the Executive Board shall not have the power to appoint, fix the salary of, or remove an Executive Director of the Association. In order to appoint or remove the Executive Director, the affirmative vote of not less than a majority of the voting members of the Executive Board present at the meeting of the Executive Board where the matter is considered, is required.

#### **ARTICLE XI. FINANCES**

##### **A. FISCAL YEAR**

The fiscal year of the Association shall commence on July 1.

##### **B. BUDGET**

(1) ~~At least forty five (45) days prior~~ Prior to the annual meeting of the General Assembly the Executive Director shall submit to the Executive Board, for the next fiscal year of the Association, a proposed general budget and summary work program. The proposed general budget shall include annual



membership fee and assessment schedules and a summary of revenue and expenditures, actual or projected, for the preceding, current, and next fiscal years.

(2) The Executive Board shall review the proposed general budget and summary work program, amend them as necessary, and submit them to the General Assembly for review and adoption at the annual meeting of the Assembly.

(3) The General Assembly shall adopt a summary work plan and general budget, including yearly membership assessment and annual membership fee.

(4) The Executive Board shall adopt a detailed budget and work program on or before July 1 of each year, and thereafter monitor their execution and amend them as necessary. The work program shall give effect to any priorities set forth in the general budget and summary work program, unless financially infeasible.

(5) The Executive Director shall manage all expenditures, subject to control of the Executive Board. The Executive Board shall have power to transfer funds within the total detailed budget to meet unanticipated needs or changed situations. Such action shall be reported to the General Assembly at its next meeting.

**C. YEARLY MEMBERSHIP ASSESSMENT**

The amount of each Member's assessment shall be determined in accordance with the formula set out in Paragraph D following. Any Member city or county whose annual assessment and annual membership fee has not been paid by the time of the annual meeting of the General Assembly shall not be entitled to vote at such meeting.

**D. METHOD OF ASSESSMENT**

The annual assessment for members of the Association shall be based upon population as determined by the State Controller in making the most recent allocations to counties and cities pursuant to California Revenue and Taxation Code Section 11005, except that, beginning in 1987-88, in the case of newly incorporated cities, until such time as an official census is conducted and population is established therewith, the population as estimated by the Executive Director shall be used for assessment purposes.

(1) The General Assembly shall adopt a per capita rate or rates of assessment for each fiscal year.

(2) For purposes of assessment San Francisco shall be considered as both a city and a county.

**E. ANNUAL AUDIT**

The Executive Board shall cause an annual audit of the financial affairs of the Association to be made by a certified public accountant at the end of each fiscal year. The Executive Board shall employ a certified public accountant of its choosing. The audit report shall be made available to Association member counties and cities.

**F. ANNUAL MEMBERSHIP FEE**

The membership fee shall be uniform for all members of the Association and shall not be less than \$10.00 per month or \$120.00 per year.

**G. DATE OF PAYMENT**

Unless a Member has withdrawn as provided in Article XIII of these Bylaws, the Member's annual

assessment and annual membership fee shall be due and payable to the Association on July 1 of the fiscal year for which it is levied.

#### **ARTICLE XII. STATUTORY AUTHORITY**

The Association is an agency established by a joint powers agreement among the Members pursuant to Title 1, Division 7, Chapter 5, of the Government Code of the State of California. The Association is an entity separate and apart from its Members. The debts, liabilities and obligations of the Association shall not be debts, liabilities or obligations of the Association's Members.

#### **ARTICLE XIII. WITHDRAWAL**

Any member county or city may, at any time up to 30 days prior to the beginning of the Association's fiscal year, withdraw from the Association effective the next fiscal year; provided that the intent to withdraw must be stated in the form of a resolution executed by the legislative body of the jurisdiction wishing to withdraw. The resolution must be given to the Executive Director at least 30 days prior to the effective date of the withdrawal.

#### **ARTICLE XIV. AMENDMENTS**

Amendments to these Bylaws may be proposed by a delegate or by the Executive Board. If proposed by a delegate, the amendment shall be submitted to the Executive Board at least 45 days prior to an annual meeting of the General Assembly. Each proposed amendment shall be considered by the Executive Board and a copy thereof, with the recommendations of the Executive Board and its reasons therefor, forwarded to the delegate of each Member jurisdiction at least 30 days prior to the meeting at which such proposed amendment will be voted upon.

A majority vote of the county delegates present and a majority vote of the city delegates present are required to adopt an amendment to these Bylaws. ~~If within 60 days after the adoption of any amendment, one third or more of the delegates protest such amendment, it shall automatically be up for reconsideration and vote as in the first instance.~~

#### **ARTICLE XV. EFFECTIVE DATE**

These Bylaws shall go into effect immediately upon the effective date of the Agreement.

# SUMMARY MINUTES (DRAFT)

ABAG Executive Board Meeting No. 430  
Thursday, January 18, 2018  
Bay Area Metro Center  
375 Beale Street, Board Room  
San Francisco, California

## 1. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

ABAG Immediate Past President Julie Pierce, Councilmember, City of Clayton, called the meeting of the Executive Board of the Association of Bay Area Governments to order at about 7:03 p.m.

A quorum of the ABAG Executive Board was present at about 7:03 p.m.

### Representatives and Alternates Present

Supervisor Candace Andersen  
Mayor Jesse Arreguin  
Laurel Arvanitidis, OEWD Industry Programs  
Supervisor David Cortese  
Councilmember Lan Diep  
Councilmember Pat Eklund  
Councilmember Liz Gibbons  
Councilmember Lynette Gibson McElhaney  
Councilmember Pradeep Gupta  
Supervisor Scott Haggerty  
Supervisor Erin Hannigan  
Vice Mayor Dave Hudson  
Councilmember Jake Mackenzie  
Councilmember Raul Peralez  
Councilmember Julie Pierce  
Andres Power, Senior Advisor, Mayor's Office  
Supervisor David Rabbitt  
Dir John Rahaim, Planning  
Supervisor Belia Ramos  
Supervisor Dennis Rodoni  
Councilmember Carlos Romero  
Councilmember Greg Scharff  
Mayor Trish Spencer  
Supervisor Norman Yee

### Jurisdiction

County of Contra Costa  
City of Berkeley  
City of San Francisco  
County of Santa Clara  
City of San Jose  
City of Novato  
City of Campbell  
City of Oakland  
City of South San Francisco  
County of Alameda  
County of Solano  
City of San Ramon  
City of Rohnert Park  
City of San Jose  
City of Clayton  
City of San Francisco  
County of Sonoma  
City of San Francisco  
County of Napa  
County of Marin  
City of East Palo Alto  
City of Palo Alto  
City of Alameda  
County of San Francisco

### Representatives Absent

Mayor Len Augustine  
Councilmember Annie Campbell Washington  
Supervisor Dave Canepa  
Supervisor Cindy Chavez  
Mayor Leon Garcia  
Councilmember Abel Guillen  
Councilmember Sergio Jimenez

### Jurisdiction

City of Vacaville  
City of Oakland  
County of San Mateo  
County of Santa Clara  
City of American Canyon  
City of Oakland  
City of San Jose

Board Member William D. Kissinger \*  
Supervisor Nathan Miley  
Supervisor Karen Mitchoff  
Supervisor Dave Pine

SFRWQCB  
County of Alameda  
County of Contra Costa  
County of San Mateo

\* Non-voting Advisory Member

**Staff Present**

Steve Heminger, MTC Executive Director  
Adrienne Weil, MTC General Counsel  
Alix Bockelman, MTC Deputy Executive Director, Policy  
Andrew Fremier, MTC Deputy Executive Director, Operations  
Brad Paul, MTC Deputy Executive Director, Local Government Services

**2. INSTALLATION OF PRESIDENT AND VICE PRESIDENT**

Immediate Past President Julie Pierce recognized President David Rabbitt, Supervisor, County of Sonoma.

President Rabbitt reported on Immediate Past President Pierce's accomplishments as ABAG President over the last four years, including the adoption of Plan Bay Area 2040 and the ABAG-MTC Contract for Services and the governance Memorandum of Understanding.

Immediate Past President Pierce thanked the Executive Board members and staff for their support and acknowledged Dave Cortese, Supervisor, County of Santa Clara, for his role in the consolidation of MTC and ABAG staff.

President Rabbitt and Vice President Greg Scharff, Councilmember, City of Palo Alto, presented Immediate Past President Pierce with a presidential gavel and flowers.

Members acknowledged Immediate Past President Pierce and she received a standing ovation.

President Rabbitt spoke on the work ahead and his expectations as ABAG President.

President Rabbitt presided over the meeting.

**3. PUBLIC COMMENT**

There was no public comment.

**4. ANNOUNCEMENTS**

Pat Eklund, Councilmember, City of Novato, asked about a request for a presentation on CASA. Steve Heminger, MTC Executive Director, noted that a presentation on CASA will be made at the next meeting.

Jake Mackenzie, Councilmember, City of Rohnert Park, announced the New Partners for Smart Growth Conference is February 1-3, 2018, in San Francisco.

Lynnette Gibson McElhaney, Councilmember, City of Oakland, suggested a coordinated response to the U.S. Immigration and Customs Enforcement (ICE) enforcement operations.

**5. PRESIDENT'S REPORT**

**A. Ratification of Committee Appointments**

President Rabbitt announced his appointments to the Administrative, Finance, and Legislation Committees. He announced that Pat Eklund, Councilmember, City of Novato, will be appointed to the Legislation Committee.

President Rabbitt announced, with the consent of Finance Committee Chair Karen Mitchoff, Supervisor, County of Contra Costa, the following appointments to the Governing Board of the Advancing California Finance Authority: Mitchoff; Pierce; Cindy Chavez, Supervisor, County of Santa Clara; Scharff; and himself.

President Rabbit recognized a motion by Eklund, which was seconded by Pierce, to ratify the committee appointments as reported.

There was no discussion.

There was no public comment.

The aye votes were: Andersen, Arreguin, Arvanitidis, Cortese, Diep, Eklund, Gibbons, Gibson McElhaney, Gupta, Haggerty, Hannigan, Hudson, Mackenzie, Peralez, Pierce, Power, Rabbitt, Rahaim, Ramos, Rodoni, Romero, Scharff, Spencer, Yee.

The nay votes were: None.

Abstentions were: None.

Absent were: Augustine, Campbell Washington, Canepa, Chavez, Garcia, Guillen, Jimenez, Miley, Mitchoff, Pine.

The motion passed unanimously.

## **6. EXECUTIVE DIRECTOR'S REPORT**

Heminger gave the Executive Director's Report for January 2018, which included the following: the reassignment of former ABAG PLAN staff members; a report on a letter from the Deputy Federal Transit Administrator to a key New York state official about the ongoing project to construct another set of rail tunnels under the Hudson River to serve New York City; the selection of Brian Kelly as the next CEO of the California High Speed Rail Authority; a meeting with Alameda County City Managers; the meeting of the CASA Technical Committee on January 17; the results of a project to enhance MTC's social media presence and a similar social media assessment for ABAG; and the Map of the Month on State Gas Tax Increases Since 1993.

## **7. CONSENT CALENDAR**

- A. Approval of Executive Board Summary Minutes of Meeting No. 429 held on November 16, 2017**
- B. Authorization to Amend ESTUARY NEWS Editorial Services Agreement with Ariel Rubissow Okamoto**
- C. Approval of Contract Amendment with California State Parks Division of Boating and Waterways for *Clean Vessel Act Outreach Program* Grant in the amount of \$47,776**
- D. Ratification of Contract Amendment with Santa Clara Parks and Recreation Department for *Implementing the Mercury Total Maximum Daily Loads (TMDL) for the Guadalupe River Watershed: Remediating Calcine Paved Roads and Upper Jacques Gulch***

**E. Approval of RHNA Transfer Request Related to Santa Rosa Annexation**

**F. Notification of Personnel Employment Changes**

President Rabbitt recognized a motion by Eklund, which was seconded by Pierce, to approve the Consent Calendar.

There was no discussion.

There was no public comment.

The aye votes were: Andersen, Arreguin, Arvanitidis, Cortese, Diep, Gibbons, Gibson McElhaney, Gupta, Haggerty, Hannigan, Hudson, Mackenzie, Peralez, Pierce, Power, Rabbitt, Rahaim, Ramos, Rodoni, Romero, Scharff, Spencer, Yee.

The nay votes were: None.

Abstentions were: Eklund (on Item 7.A.).

Absent were: Augustine, Campbell Washington, Canepa, Chavez, Garcia, Guillen, Jimenez, Miley, Mitchoff, Pine.

The motion passed.

**8. ABAG LEGISLATION COMMITTEE REPORT**

**A. Approval of Joint MTC/ABAG Advocacy Program**

Committee Chair Scott Haggerty, Supervisor, County of Alameda, reported on the special joint meeting with the MTC Legislation Committee on January 12, 2018, including the following: approval of the summary minutes of meeting on November 3, 2017; election of Haggerty as Committee Chair and Pierce as Committee Vice Chair; received a report on the 2018 Draft MTC/ABAG Joint Advocacy Program, as revised; received a report on Legislative History; received an update on the Federal Tax Bill; received the report of Tom Bulger, the Washington D.C. advocate.

President Rabbitt recognized a motion by Haggerty, which was seconded by Pierce, to approve the committee report, including ratification of the selection of Committee Chair and Vice Chair and approval of the Joint MTC/ABAG Advocacy Program, as revised.

Members discussed the 2018 Draft MTC/ABAG Joint Advocacy Program and suggested changes to the following under State: Item 2.D., Reform State Housing Law; Item 2.E., Lower Housing Construction Costs and Facilitate Greater Housing Production; and Item 3., Climate Change and Energy.

Haggerty accepted a friendly amendment, which was accepted by Pierce, to approve the Joint MTC/ABAG Advocacy Program, as revised, with changes to Item 2.D. and 2.E.

There was no public comment.

The aye votes were: Andersen, Arreguin, Arvanitidis, Cortese, Diep, Eklund, Gibbons, Gibson McElhaney, Gupta, Haggerty, Hannigan, Mackenzie, Peralez, Pierce, Power, Rabbitt, Rahaim, Ramos, Rodoni, Romero, Scharff, Spencer, Yee.

The nay votes were: Hudson.

Abstentions were: None.

Absent were: Augustine, Campbell Washington, Canepa, Chavez, Garcia, Guillen, Jimenez, Miley, Mitchoff, Pine.

The motion passed.

## **9. ABAG FINANCE COMMITTEE REPORT**

### **A. Report on Audited Financial Reports for FY 2016-17**

### **B. Approval of Contract—Business Insurance Broker, Consultation Third Party Insurance Certificate Management Services—USI Insurance Services**

Committee Vice Chair Scharff reported on the committee meeting on January 18, 2018, including the following: election of Mitchoff as Committee Chair and Hannigan as Committee Vice Chair; approval of the summary minutes of meeting on November 16, 2017; received and approved a report on Financial Statements from July to October 2017 (unaudited); received and approved a report on Financial Investments for November 2017; received and approved the report on Audited Financial Reports for FY 2016-17; received and approved a report on a contract for Business Insurance Broker, Consultation Third Party Insurance Certificate Management Services with USI Insurance Services.

President Rabbitt recognized a motion by Scharff, which was seconded by Liz Gibbons, Councilmember, City of Campbell, to approve the committee report, including ratification of the selection of Committee Chair and Vice Chair; approval of the report on Audited Financial Reports for FY 2016-17; and approval to enter into a contract with USI Insurance Services to provide business insurance brokerage and consulting services.

There was no discussion.

There was no public comment.

The aye votes were: Andersen, Arreguin, Arvanitidis, Cortese, Diep, Eklund, Gibbons, Gibson McElhaney, Gupta, Haggerty, Hannigan, Hudson, Mackenzie, Peralez, Pierce, Power, Rabbitt, Rahaim, Ramos, Rodoni, Romero, Scharff, Spencer, Yee.

The nay votes were: None.

Abstentions were: None.

Absent were: Augustine, Campbell Washington, Canepa, Chavez, Garcia, Guillen, Jimenez, Miley, Mitchoff, Pine.

The motion passed unanimously.

## **10. ABAG REGIONAL PLANNING COMMITTEE REPORT**

Committee Chair Pradeep Gupta, Councilmember, City of South San Francisco, reported on the committee meeting on December 6, 2017, including the following: received and discussed presentations on residential displacement and anti-displacement tools by U.C., Berkeley, and on challenges and financial realities facing market rate and affordable housing developers; and received a report on the Draft Joint MTC/ABAG Advocacy Program.

President Rabbitt recognized a motion by Gupta, which was seconded by Scharff, to approve the committee report.

There was no discussion.

There was no public comment.

The aye votes were: Andersen, Arreguin, Arvanitidis, Cortese, Diep, Eklund, Gibbons, Gibson McElhaney, Gupta, Haggerty, Hannigan, Hudson, Mackenzie, Peralez, Pierce, Power, Rabbitt, Rahaim, Ramos, Rodoni, Romero, Scharff, Spencer, Yee.

The nay votes were: None.

Abstentions were: None.

Absent were: Augustine, Campbell Washington, Canepa, Chavez, Garcia, Guillen, Jimenez, Miley, Mitchoff, Pine.

The motion passed unanimously.

## **11. ADJOURNMENT**

President Rabbitt adjourned the meeting of the ABAG Executive Board at about 8:08 p.m.

The next regular meeting of the ABAG Executive Board is on March 15, 2018.

Submitted:

/s/ Fred Castro, Clerk of the Board

Date Submitted: January 26, 2018

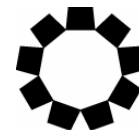
Approved:

*For information or to review audio recordings of ABAG Executive Board meetings, contact Fred Castro, Clerk of the Board, at (415) 820 7913 or fcastro@bayareametro.gov.*



# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018

To: ABAG Executive Board

From: Executive Director

Subject: **Authorization to Enter into Sole Source Agreement with Chris Austin for Science Communications Services in the amount of \$60,000 under Delta Science Support Grant from Delta Stewardship Council**

## **Executive Summary**

The San Francisco Estuary Partnership (SFEP), a program of the Association of Bay Area Governments (ABAG), provides support services to the state Delta Stewardship Council (DSC) through its Delta Science Support agreement. Under that agreement, SFEP secures science review and science communications services and provides conference organizing services to the DSC. Chris Austin, a writer for the Maven's Notebook water policy blog, has provided science communications and outreach in the past to the DSC, through two previous agreements with ABAG that were funded through this grant. The efforts included developing articles and spotlights of varying lengths and topics to highlight science and collaboration efforts in the Sacramento-San Joaquin Delta and its watershed.

The new agreement will cover science communication services for articles on Delta issues, to be posted online through Maven's Notebook and distributed through other channels such as California water news aggregators and social media. Research and reporting may include travel to special events, seminars, or workshops.

Staff proposes to enter into this new science communications services agreement with Chris Austin from April 1, 2018 through June 30, 2018, subject to execution of Amendment #1 to the DSC/ABAG agreement which will extend the term from June 30, 2018, through June 30, 2019 and reallocate funds for science communication work to Fiscal Year 2017-18 and 2018-19. The budget for the science communications agreement will be \$60,000, funded by DSC through its Delta Science Support agreement with ABAG for \$851,000.

**Authorization to Enter into Agreement with Chris Austin**

March 8, 2018

Page 2

**Recommended Action**

The Executive Board is requested to authorize the Executive Director of the Metropolitan Transportation Commission, or his designee, entering into a contract agreement with Chris Austin for science communications services under the Delta Stewardship Council's Delta Science Support agreement in the amount of \$60,000 from April 1, 2018 through June 30, 2018, subject to extension through June 30, 2019.



Steve Heminger

**Attachment**

Summary Approval



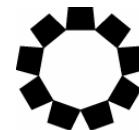
**S U M M A R Y   O F   E X E C U T I V E   B O A R D   A P P R O V A L**

<b>Work Item No.:</b>	1720 2980
<b>Consultant:</b>	Chris Austin, Canyon Country, CA
<b>Work Project Title:</b>	Science communications services
<b>Purpose of Project:</b>	Communication and outreach tasks for Delta Stewardship Council
<b>Brief Scope of Work:</b>	Provide articles and spotlights on science and collaboration efforts in the Sacramento-San Joaquin Delta and its watershed
<b>Project Cost Not to Exceed:</b>	\$60,000.00
<b>Funding Source:</b>	State Delta Stewardship Council
<b>Fiscal Impact:</b>	Funds programmed in FY 2018-19 Budget
<b>Motion by Committee:</b>	The Executive Board is requested to authorize the Executive Director of the Metropolitan Transportation Commission, or his designee, to entering into a contract agreement with Chris Austin for science communications services under the Delta Stewardship Council's Delta Science Support agreement in the amount of \$60,000 from April 1, 2018 through June 30, 2018, subject to extension through June 30, 2019.
<b>ABAG Executive Board Approval:</b>	David Rabbitt, ABAG President
<b>Approval Date:</b>	

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# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018  
To: ABAG Executive Board  
From: Executive Director  
Subject: **Adoption of Resolution No. 04-18—Advancing Payments to San Francisco Estuary Partnership Vendors**

## **Executive Summary**

Staff is recommending the adoption of Resolution No. 04-18 to clarify the former business practices of the Association of Bay Area Governments (ABAG) on advance payments to certain vendors and to better align this practice with the Metropolitan Transportation Commission's (MTC) business systems and the Contract for Services between ABAG and MTC.

Prior to the staff consolidation, ABAG staff would, from time to time, advance partial payments to San Francisco Estuary Partnership (SFEP) vendors for work done while awaiting reimbursement from state and federal grants. While these past partial advances were typically in the \$1,000 to \$25,000 range, they were critical to some SFEP vendors awaiting payment. In order to continue this ABAG practice, staff is recommending that the ABAG Executive Board take formal action to authorize staff to continue to advance partial payment to SFEP vendors when reimbursement from state and federal grants and agencies is imminent.

The attached resolution states that the ABAG Executive Board authorizes the Executive Director of MTC, operating on its behalf, to advance payments to SFEP vendors with a cap of no more than \$50,000 in outstanding advance payments per vendor per contract subject to the availability of ABAG funds. Within the \$50,000 cap, advance payments can be broken out in varying installments at the Executive Director's discretion. The MTC Finance Department and SFEP staff are also working on additional administrative changes to shorten the time it takes for vendors to be reimbursed.

**Adoption of Resolution No. 04-18**

March 8, 2018

Page 2

**Recommended Action**

The Executive Board is requested to adopt Resolution No. 04-18 authorizing the Executive Director of the Metropolitan Transportation Commission to advance payments to San Francisco Estuary Partnership vendors with a cap of no more than \$50,000 in outstanding advance payments per vendor per contract and that within the \$50,000 cap, advance payments can be broken out in varying installments at the Executive Director's discretion.



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Steve Heminger

**Attachment**

Resolution No. 04-18

**ASSOCIATION OF BAY AREA GOVERNMENTS  
EXECUTIVE BOARD**

**RESOLUTION NO. 04-18**

**APPROVAL OF EXECUTIVE DIRECTOR ADVANCING PAYMENTS TO SAN  
FRANCISCO ESTUARY PARTNERSHIP VENDORS WITH A CAP OF NO MORE  
THAN \$50,000 IN OUTSTANDING ADVANCE PAYMENTS PER VENDOR PER  
CONTRACT**

WHEREAS, prior to the Metropolitan Transportation Commission (MTC)/Association of Bay Area Governments (ABAG) staff consolidation, ABAG staff would, from time to time, advance partial payment to San Francisco Estuary Partnership (SFEP) vendors while awaiting reimbursement from state and federal grants, and

WHEREAS, while many of these past advances have been in the \$1,000 to \$25,000 range, they were critically important to certain SFEP's vendors awaiting payment, and

WHEREAS, the staff would now like the option to continue making advance payments to existing SFEP vendors, as needed, and

WHEREAS, in order to continue this ABAG practice, the Executive Board determines that it is necessary to formally authorize staff to continue to advance partial payment to SFEP vendors when it is known that reimbursement from state and federal grants and agencies is imminent; now, therefore, be it

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 04-18**

RESOLVED, that the ABAG Executive Board specifically finds and declares the statements, findings and determinations of the ABAG Executive Board set forth in the preambles above are true and correct; and, be it further

RESOLVED, that the ABAG Executive Board authorizes the Executive Director of the Metropolitan Transportation Commission to advance payments to SFEP vendors with a cap of no more than \$50,000 in outstanding advance payments per vendor per contract; and that within the \$50,000 cap, advance payments can be broken out in varying installments at the Executive Director's discretion.

The foregoing was adopted by the Executive Board this 15<sup>th</sup> of March, 2018.

---

David Rabbitt  
President

**Certification of Executive Board Approval**

I, the undersigned, the appointed and qualified Clerk of the Board of the Association of Bay Area Governments (Association), do hereby certify that the foregoing resolution was adopted by the Executive Board of the Association at a duly called meeting held on the 15<sup>th</sup> day of March, 2018.

---

Frederick Castro  
Clerk of the Board





Bay Area Metro Center  
375 Beale Street  
San Francisco, CA 94105

## Meeting Agenda

### Joint MTC Planning Committee with the ABAG Administrative Committee

*MTC Committee Members:*

*James P. Spering, Chair Anne W Halsted, Vice Chair*

*Alicia C. Aguirre, Damon Connolly,  
Dave Cortese, Sam Liccardo, Julie Pierce*

*Non-Voting Members: Tom Azumbrado, Dorene M. Giacomini*

Friday, March 9, 2018

10:05 AM

Board Room - 1st Floor

#### PLEASE NOTE TIME

This meeting is scheduled to be webcast live on the Metropolitan Transportation Commission's Web site: <http://mtc.ca.gov/whats-happening/meetings> and will take place at 10:05 a.m. or immediately following the 10:00 a.m. Operations Committee Meeting.

#### 1. Roll Call / Confirm Quorum

*Quorum: A quorum of the ABAG Administrative Committee shall be a majority of its regular voting members (6).*

*Quorum: A quorum of the MTC Planning Committee shall be a majority of its regular voting members (4).*

#### 2. ABAG Compensation Announcement - Clerk of the Board

#### 3. ABAG Administrative Committee Consent Calendar

- 3a. [18-0106](#) Approval of ABAG Administrative Committee Summary Minutes of the February 9, 2018 Meeting

**Action:** ABAG Administrative Committee Approval

**Attachments:** [3a ABAG AC Minutes 20180209 Draft.pdf](#)

#### 4. MTC Planning Committee Consent Calendar

- 4a. [18-0107](#) Approval of MTC Planning Committee Minutes of the February 9, 2018 Meeting

**Action:** MTC Planning Committee Approval

**Attachments:** [4a MTC PLNG Minutes Feb 9 2018.pdf](#)

## 5. Approval

### **Proposed Amendment to Plan Bay Area 2040:**

*Approval of the proposed amendments to Plan Bay Area 2040 (Plan) and the Amended 2017 Transportation Improvement Program (TIP) to revise the cost and scope of the U.S. 101 Managed Lanes Project in San Mateo County, and approval of two companion technical documents - Transportation-Air Quality Conformity Analysis (Conformity Analysis) and Environmental Impact Report (EIR) Addendum that demonstrate the Amended Plan and Amended TIP comply with federal transportation conformity and California Environmental Quality Act (CEQA) requirements. Public comment period closed on February 21, 2018, and a summary of comments and responses will be presented prior to Committee action.*

18-0162

(a) Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 (MTC Resolution No. 4325)

(b) Addendum to the Final EIR for Plan Bay Area 2040 (MTC Resolution No. 4326 and ABAG Resolution No. 02-18)

(c) Amendment to Plan Bay Area 2040 (MTC Resolution No. 4327 and ABAG Resolution No. 03-18)

(d) Amendment to 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 (MTC Resolution No. 4275, Revised)

Action:

(a) MTC Resolution No. 4325: Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28  
MTC Commission Approval

(b) MTC Resolution No. 4326 and ABAG Resolution No. 02-18, respectively: Addendum to the Final Environmental Impact Report for Plan Bay Area 2040  
MTC Commission Approval and ABAG Executive Board Approval

(c) MTC Resolution No. 4327 and ABAG Resolution No. 03-18, respectively: Approve the Proposed Amendment to Plan Bay Area 2040  
MTC Commission Approval and ABAG Executive Board Approval

(d) MTC Resolution No. 4275, Revised: 2017 Transportation Improvement Program, as amended by Revision Number 2017-28  
MTC Commission Approval

Presenter:

Adam Noelting

Attachments:

[5\\_PBA2040\\_Amendment\\_presentation.pdf](#)

[5\\_Memo,\\_Attachment\\_A,\\_and\\_Attachment\\_B.pdf](#)

[5a\\_MTC\\_Res.\\_No.\\_4325\\_Transportation-Air\\_Quality\\_Conformity\\_Analysis\\_for\\_Ame](#)

[5b\\_MTC\\_Res.\\_No.\\_4326\\_and\\_ABAG\\_Res.\\_No.\\_02-18\\_EIR\\_Addendum\\_Attachmen](#)

[5c\\_MTC\\_Res.\\_No.\\_4327\\_and\\_ABAG\\_Res.\\_No.\\_03-18\\_Plan\\_Amendment\\_Attachme](#)

[5d\\_MTC\\_Res.\\_No.\\_4275\\_TIP\\_Amendment\\_Attachment\\_F.pdf](#)

**6. Public Comment / Other Business**

**7. Adjournment / Next Meeting**

**The next meeting of the MTC Planning Committee will be Friday, April 13, 2018 at 9:30 a.m. at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.**

**Public Comment:** The public is encouraged to comment on agenda items at Committee meetings by completing a request-to-speak card (available from staff) and passing it to the Committee secretary. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

**Meeting Conduct:** If this meeting is willfully interrupted or disrupted by one or more persons rendering orderly conduct of the meeting unfeasible, the Chair may order the removal of individuals who are willfully disrupting the meeting. Such individuals may be arrested. If order cannot be restored by such removal, the members of the Committee may direct that the meeting room be cleared (except for representatives of the press or other news media not participating in the disturbance), and the session may continue.

**Record of Meeting:** Committee meetings are recorded. Copies of recordings are available at a nominal charge, or recordings may be listened to at MTC offices by appointment. Audiocasts are maintained on MTC's Web site ([mtc.ca.gov](http://mtc.ca.gov)) for public review for at least one year.

**Accessibility and Title VI:** MTC provides services/accommodations upon request to persons with disabilities and individuals who are limited-English proficient who wish to address Commission matters. For accommodations or translations assistance, please call 415.778.6757 or 415.778.6769 for TDD/TTY. We require three working days' notice to accommodate your request.

**可及性和法令第六章:** MTC 根據要求向希望來委員會討論有關事宜的殘疾人士及英語有限者提供服務/方便。需要便利設施或翻譯協助者，請致電 415.778.6757 或 415.778.6769 TDD / TTY。我們要求您在三個工作日前告知，以滿足您的要求。

**Acceso y el Título VI:** La MTC puede proveer asistencia/facilitar la comunicación a las personas discapacitadas y los individuos con conocimiento limitado del inglés quienes quieran dirigirse a la Comisión. Para solicitar asistencia, por favor llame al número 415.778.6757 o al 415.778.6769 para TDD/TTY. Requerimos que solicite asistencia con tres días hábiles de anticipación para poderle proveer asistencia.

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Attachments are sent to Committee members, key staff and others as appropriate. Copies will be available at the meeting.

All items on the agenda are subject to action and/or change by the Committee. Actions recommended by staff are subject to change by the Committee.

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# Plan BayArea 2040

**AIR QUALITY  
CONFORMITY  
ANALYSIS**

**EIR ADDENDUM**

**PLAN AMENDMENT**

**TIP AMENDMENT  
(2017-28)**

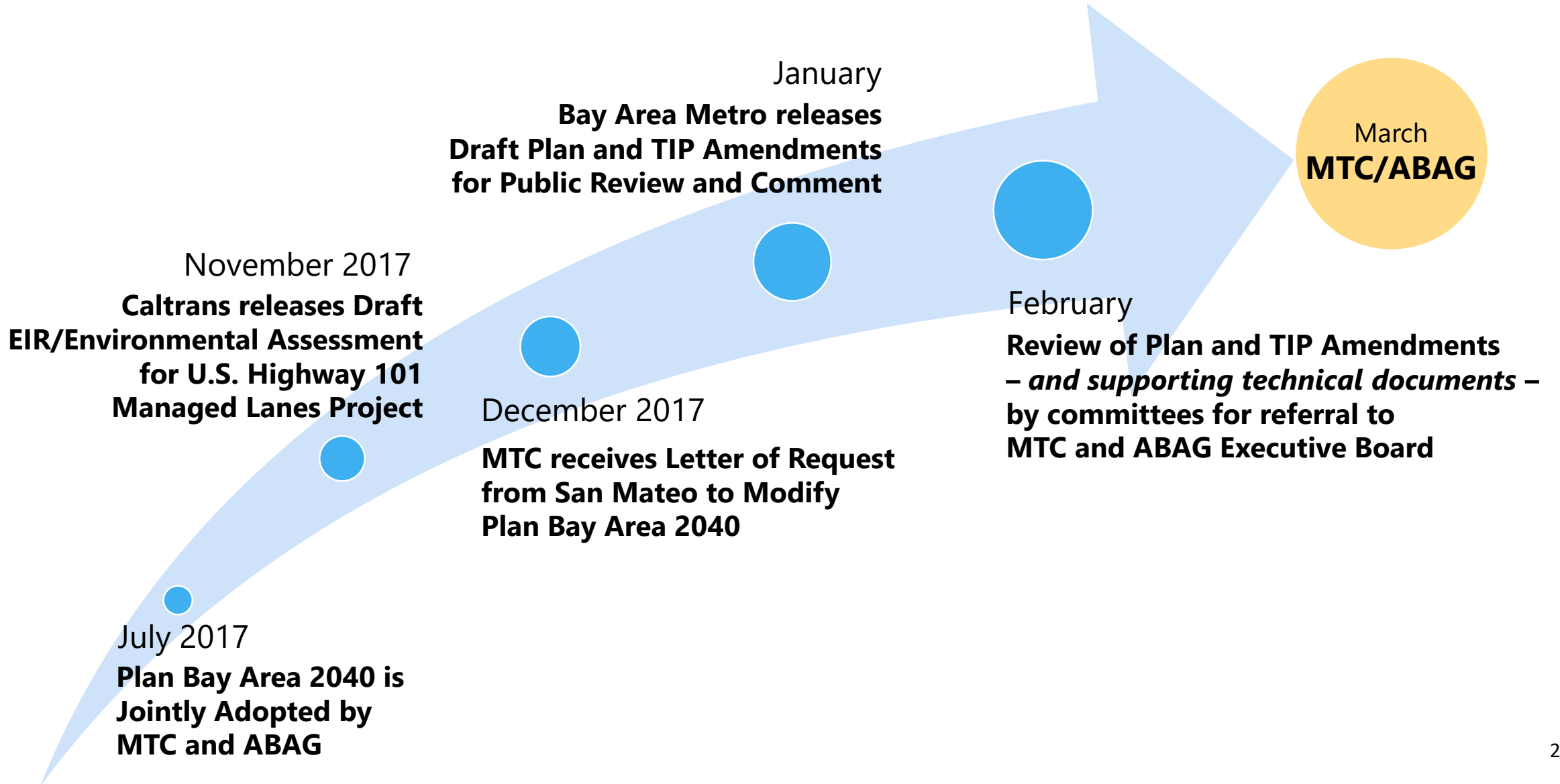
**March 9, 2018**

*Joint MTC Planning &  
ABAG Administrative  
Committee*

**Ken Kirkey/Adam Noelting**  
*Bay Area Metro Staff*



# Plan Bay Area 2040 Milestones





# The proposed Amendment aligns the Plan to the most recent scope and cost assumptions in the project's Draft EIR.

## Amendment Overview:

- The U.S. Highway 101 Managed Lanes Project was included in the adopted Plan's fiscally constrained investment strategy as RTPID 17-06-0007
- The amendment modifies the project's scope and costs

## Project Map:



## Amendment Details:

### Scope

*"Modify existing lanes US 101 to accommodate an ~~HOV lane from Whipple to San Francisco County Line~~ and/or an Express Lane from approximately 2 miles south of the Santa Clara County Line to ~~San Francisco County Line~~ Grand Avenue interchange near the I-380 interchange. Work may include shoulder modification, ramp modifications and interchange modifications to accommodate an extra lane. Work will be phased."*

**Cost** \$365 534 (millions)

The cost increase is accommodated by reducing the Cost Contingency and Financing Project (RTPID 17-10-0016)

**Cost** \$621 452 (millions)

No other changes or revisions are proposed in this amendment.

# Public Comments focused on concerns related to the Amendment's effect on regional travel and emissions.

## Comments:

- Concerns on the proposed amendment's effect on regional travel metrics, such as vehicle miles traveled (VMT)
- Concerns on the proposed amendment's effect on the region's ability to achieve its Sustainable Communities Strategy (SCS) and reduce per-capita greenhouse gas emissions from cars and light duty trucks
- Concern that the implementation of the project could affect access to the Millbrae Station (BART, Caltrain, and future High-Speed Rail access)

## Response:

- Generally, the EIR addendum noted that implementation of the proposed amendment to the Plan would result in reduced vehicle travel and reduced mobile source emissions relative to the adopted Plan
- A summary of the findings related to travel and emissions can be found in the EIR Addendum



# The Conformity Analysis demonstrates that the Amendments to the Plan and TIP are consistent with the federal air quality plan.

- Federal planning regulations require that we demonstrate that the transportation activities of the Amended Plan and Amended 2017 TIP will not cause new air quality violations, worsen existing violations, or delay timely attainment of the federal air quality standards
- The Conformity Analysis was conducted consistent with the U.S. EPA's transportation-air quality conformity regulations and with the Bay Area Air Quality Conformity Protocol (MTC as Resolution No. 3757)
- The Conformity Analysis demonstrates that both the Amended Plan and Amended 2017 TIP are consistent with ("conform to") the federal air quality plan, which is referred to as the state implementation plan (SIP)

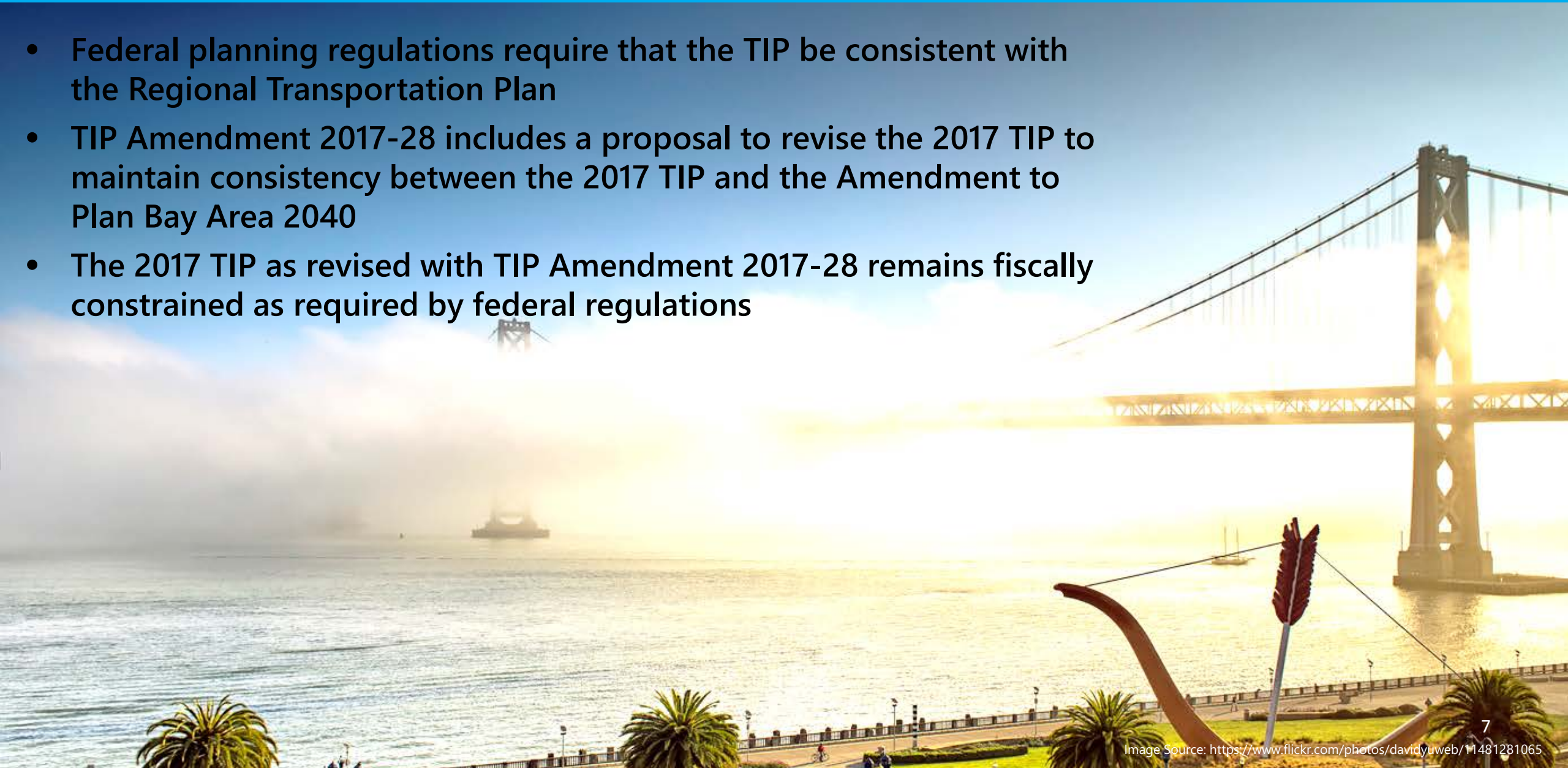


# The Addendum to the Final EIR demonstrates that the Amendment does not change the conclusions of the Final EIR.

- This Addendum evaluates whether the Amendment to the Plan could result in additional significant effects on the environment relative to the conclusions reached in the Final EIR for the Plan
- This Addendum relies on the significance criteria for each issue area and the corresponding analysis methodology described in the Final EIR to assess the potential impacts of the Amendment
- The same environmental categories were examined to determine whether the Amendment would have an effect on the analysis in the Final EIR
- The proposed amendment to the Plan would not result in any new significant environmental effects or substantial increases in the severity of the previously identified significant effects disclosed in the Draft EIR and certified Final EIR completed for the Plan

# TIP Amendment 2017-28 ensures consistency between the TIP and the proposed Amendment to Plan Bay Area 2040.

- Federal planning regulations require that the TIP be consistent with the Regional Transportation Plan
- TIP Amendment 2017-28 includes a proposal to revise the 2017 TIP to maintain consistency between the 2017 TIP and the Amendment to Plan Bay Area 2040
- The 2017 TIP as revised with TIP Amendment 2017-28 remains fiscally constrained as required by federal regulations



# Staff requests referral of the four items to the Commission and ABAG Executive Board, as detailed below, to consider for approval.



**Section 1** – *The Bay Area Today*

**Section 2** – *What is Plan Bay Area 2040?*

**Section 3** – *Forecasting the Future*

**Section 4** – *Strategies and Performance*

**Section 5** – *Action Plan*

**Supplemental Reports**

**Environmental Impact Report**

**Air Quality Conformity Report**



*This amendment to the 2017 TIP makes it consistent with the amended Plan.*

## **MTC Resolution 4325**

Approves the Air Quality Conformity Analysis/ Determination

Planning Committee

## **MTC Resolution 4326 ABAG Resolution 02-18**

Approves the Addendum to the Final EIR

Planning Committee & Administrative Committee

## **MTC Resolution 4327 ABAG Resolution 03-18**

Approves the Amendment to Plan Bay Area 2040

Planning Committee & Administrative Committee

## **MTC Resolution 4275**

Approves the Amendment to the 2017 Transportation Improvement Program

Planning Committee



TO: Joint MTC Planning Committee with the  
ABAG Administrative Committee

DATE: March 2, 2018

FR: Executive Director

RE: Proposed Amendment to Plan Bay Area 2040 and 2017 Transportation Improvement Program

Staff has prepared amendments to the Final Plan Bay Area 2040 (Plan) and to the 2017 Transportation Improvement Program (TIP) to modify the scope and projected cost of the U.S. Highway 101 Managed Lanes Project in San Mateo County in both the Plan and the TIP. Two companion technical documents were also prepared – Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (EIR Addendum) and Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 (Conformity Analysis).

#### **U.S. Highway 101 Managed Lanes Project**

Since the certification of the Final EIR and the adoption of the Plan, the City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority, in cooperation with the California Department of Transportation (“Caltrans”) District 4, released the Draft EIR/Environmental Assessment for the U.S. Highway 101 Managed Lanes Project in San Mateo County. The project was included in the adopted Plan’s financially constrained transportation investment strategy (RTPID 17-06-0007) and consequently assessed in the Final EIR. However, the City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority propose an amendment (see **Attachment A**) to the Plan to update the cost and description of the U.S. Highway 101 Managed Lanes Project. The proposed amendment to the Plan would clarify the project description and change lane configuration assumptions along the U.S. Highway 101 corridor to accommodate an Express Lane in each direction. The proposed amendment would align the U.S. Highway 101 Managed Lanes Project assumptions included in the Plan to those of the preferred alternative in the project’s Draft EIR/Environmental Assessment.

#### **Amendment to Plan Bay Area 2040**

Staff has prepared the planning documents described below as part of the overall process to amend the Plan and TIP. On January 22, 2018, staff released the proposed amendment and supporting documents for a 30-day public review period, closing on February 21, 2018. Staff received two comment letter/emails on the proposed amendment. A summary of the comments and responses are provided in **Attachment B**. The four planning documents that are subject to your review and approvals are included as **Attachments C through F**.

- **Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28:** This conformity analysis was prepared in accordance with U.S. Environmental Protection Agency (EPA) conformity rules and MTC Resolution 3757. It was also vetted with the Air Quality Conformity Task Force, which is comprised of staff from U.S. EPA, Federal Highway Administration, Federal Transit Administration, Caltrans, and other partner agencies. The estimated total emissions projected for the amended Plan and amended TIP are consistent with (“conform to”) the purpose of the state air quality implementation plan (SIP). In addition, the timely implementation of federal transportation control measures is not affected.

- **Addendum to the Final EIR for Plan Bay Area 2040:** This EIR Addendum was prepared in accordance to the California Environmental Quality Act (CEQA). The modification to the scope of the U.S. Highway 101 Management Lanes Project did not result in new significant impacts or substantial increase in the severity of any impacts that were previously identified in the certified Final EIR.
- **Amendment to Plan Bay Area 2040:** This amendment modifies the scope and cost of the U.S. Highway 101 Managed Lanes Project (RTPID 17-06-0007) within the financially constrained Plan. The amendment does not conflict with the financial constraint requirements of the Plan. No other changes or revisions are made as part of this amendment.
- **Amendment to 2017 Transportation Improvement Program (Revision Number 2017-28):** This amendment modifies the scope and cost of the U.S. Highway 101 Managed Lanes Project (TIP ID SM-150017). The amendment does not conflict with the financial constraint requirements of the TIP. No other changes or revisions are made as part of this amendment.

### Staff Recommendations

1. The MTC Planning Committee finds the Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 is in conformance with the applicable federal air quality plan for ozone, carbon monoxide and particulates, and refers **MTC Resolution No. 4325** (Attachment C) to the Commission for approval.
2. The MTC Planning Committee and ABAG Administrative Committee has: (1) reviewed and considered the information in the EIR Addendum prior to considering the Amendment to Plan Bay Area 2040, (2) finds that the EIR Addendum has been completed in compliance with CEQA, and (3) refers **MTC Resolution No. 4326 and ABAG Resolution No. 02-18** (Attachment D) to the Commission and ABAG Executive Board (respectively) for approval.
3. The MTC Planning Committee and ABAG Administrative Committee refer **MTC Resolution No. 4327 and ABAG Resolution No. 03-18** (Attachment E) to the Commission and ABAG Executive Board (respectively) to approve the Amendment to Plan Bay Area 2040.
4. The MTC Planning Committee refer **MTC Resolution No. 4275, Revised** (Attachment F) to the Commission to approve the Amendment to the 2017 TIP (Revision 2017-28).



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Steve Heminger

### Attachments:

- Presentation
- Attachment A: Amendment Request Letter
- Attachment B: Comments and Responses to Comments
- Attachment C: Conformity Analysis
- Attachment D: EIR Addendum
- Attachment E: Plan Amendment, and
- Attachment F: TIP Amendment

SH: an

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CITY/COUNTY ASSOCIATION OF GOVERNMENTS  
OF SAN MATEO COUNTY

*Atherton • Belmont • Brisbane • Burlingame • Colma • Daly City • East Palo Alto • Foster City • Half Moon Bay • Hillsborough • Menlo Park  
Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside*

December 22, 2017

Alix Bockelman  
Bay Area Metro Center  
375 Beale Street Suite 800  
San Francisco, CA 94105

**Subject: Request for an amendment to the Plan Bay Area 2040 for the US 101 Managed Lane Project in San Mateo County**

Dear Ms. Bockelman:

The U.S. 101 Managed Lane Project (RTP ID 17-06-0007) is included in the adopted Plan Bay Area 2040 with a year of expenditure cost listing of \$365 million. This estimate was obtained from an early planning document and has been updated. The project study report (PSR), completed in June 2016, is used to identify support cost and projected the total project cost slightly under \$365 million. The draft environmental document has been released for public comment with a current estimate of \$534 million.

When the Regional Transportation Plan (RTP) was being developed, C/CAG staff had communicated to MTC staff that there were still three build alternatives on the table. Two of the project alternatives were scoped as an installation of a managed lane with auxiliary lanes restored in locations where operations deemed it necessary. The analysis was still being performed to determine which auxiliary lanes needed to be replaced. We suggested that MTC staff could either model worst case and restore all auxiliary lanes or use the project study report sketches, with the understanding that the auxiliary lane restoration locations would change based on further analysis.

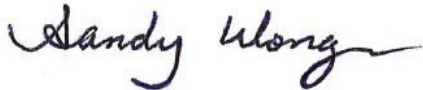
We understand that the updated RTP modeled a lane configuration that provided the most flexibility in terms of auxiliary lanes, given that the preferred alternative was not selected at the time. We understand that this modeled lane configuration is different from the lane configuration in the draft environmental document and draft project report, and would therefore need to be remodeled with the current lane configuration. Attached is a sketch of the lane configuration modeled by MTC, marked-up, by the design team, to show the lane configuration in the draft environmental document.

We understand that the next update of the plan will not occur for several years. This project is on a very aggressive delivery schedule with a target to complete the environmental phase in the spring of 2018 and a target to be advertise ready in late 2019. We cannot wait until the

next update of the RTP to make an adjustment to the cost. We understand that there is an amendment process required to resolve this issue. To avoid project approval delays we are requesting an amendment to modify the year of expenditure cost listing to \$534 million for this project to be consistent with the current estimate.

If you have any questions, please feel free to contact Jean Higaki at (650) 599-1462 or [jhigaki@smcgov.org](mailto:jhigaki@smcgov.org).

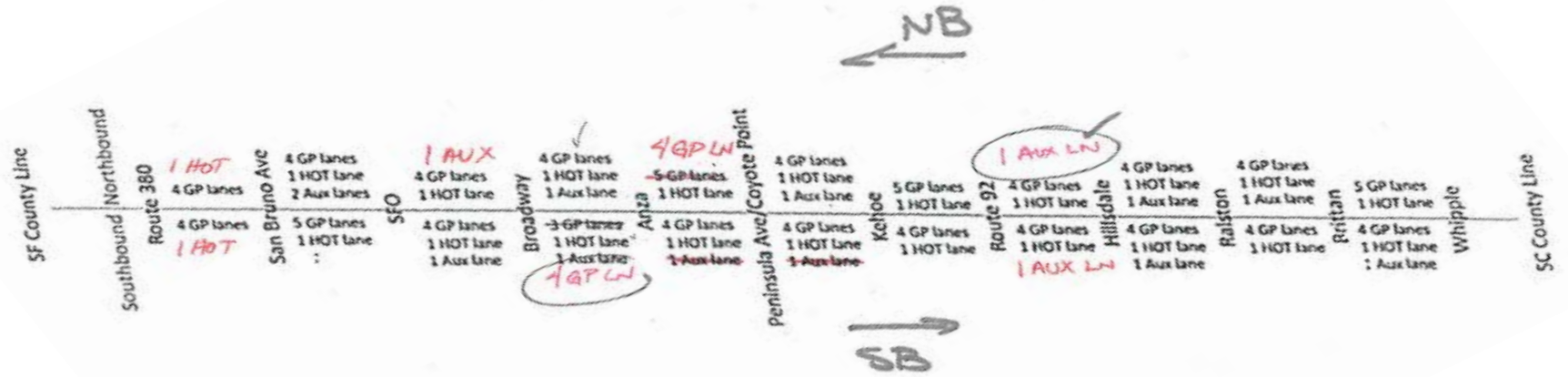
Sincerely,

A handwritten signature in black ink that reads "Sandy Wong". The signature is written in a cursive, flowing style.

Sandy Wong, Executive Director  
City/County Association of Governments  
of San Mateo County

cc: Anne Richman, MTC Director of Programming and Allocations  
Adam Noelting, MTC Principle Planner/ Analyst  
Ken Kirkey, MTC Director of Planning  
April Chan, San Mateo County Transportation Authority

Sketch of the lane configuration modeled by MTC, marked-up, by the US 101 Managed Lane design team reflecting the draft environmental document lane configuration



## Amendment to Plan Bay Area 2040:

## Comments and Responses

In accordance with MTC's public participation plan, the Draft Transportation-Air Quality Conformity Analysis for the Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program (TIP), the Draft Amendment to Plan Bay Area 2040, and the Draft Amendment to the 2017 TIP (Revision Number 2017-28) were released for a 30-day public review and comment period, beginning January 22, 2018, and closing February 21, 2018. Opportunities to comment were publicized via MTC's website, email notifications, and a news release. The following is a list of the public comments submitted to MTC along with staff's responses to these comments. The following is a list of the public comments submitted to MTC along with staff's responses to these comments.

No.	Name	Agency/Organization	Dated	Response
1	Gladwyn d'Souza (Chair)	Loma Prieta Transportation Committee, Sierra Club	Email 2/14/2018	Response #1
2	Ben Tripousis (Regional Director) Mark A. McLoughlin (Director of Environmental Services)	California High-Speed Rail Authority, Northern California Regional Office	Mail 2/16/2018	Response #2

**RESPONSE #1**

The Sierra Club submitted four comments regarding the proposed amendments, below:

***Comment 1: if the lanes are constructed, will that help to make the Sustainable Communities Strategy more successful, or less so? The simultaneously released new Transportation-Air Quality Conformity Analysis implies no.***

The Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (Addendum) discloses potential environmental impacts of implementing the Amendment to Plan Bay Area 2040. Table 10 of Section 4.3, "Climate Change and Greenhouse Gases" of the Addendum discloses the amended Plan's ability to meet the region's per-capita greenhouse gasses (GHG) emissions reductions for cars and light duty trucks set forth by Senate Bill 375. This table ("Table 10") discloses that the amended Plan meets SB 375's per-capita reduction targets for 2020 (7%) and 2035 (15%). The amended Plan does not perform as well on the 2020 reduction target as the EIR had presented (9% vs 14% reduction); however, that difference is attributed to correction of an error and not related to the amendment. It is important to note that both the amended and adopted Plans meet the region's 2020 and 2035 SB 375 per-capita GHG emissions reduction targets from cars and light duty trucks.

The Transportation-Air Quality Conformity Analysis for the Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program (TIP) is conducted to ensure federally funded or approved highway and transit activities are consistent with (“conform to”) the purpose of the state air quality implementation plan (SIP). Conformity to the purpose of the SIP means that transportation activities will not cause or contribute to new air quality violations, worsen existing violations, or delay timely attainment of the relevant national ambient air quality standards (NAAQS). This conformity analysis is a regional emissions analysis and applies to federally designated nonattainment and maintenance area for the transportation-related NAAQS criteria pollutants: ozone, PM2.5, PM10, carbon monoxide, and nitrogen dioxide. The conformity analysis does not include GHG emission results and/or inventories and, therefore, makes no implication about the amended Plan’s ability to meet GHG reduction targets.

***Comment 2: if the lanes are constructed, will regional Vehicle Miles Traveled increase, remain constant, or decrease? The EIR for the 101 expansion forecast a 1% increase in the corridor which is business as usual.***

The Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (Addendum) discloses potential environmental impacts of implementing the Amendment to Plan Bay Area 2040. As disclosed in Table 3 of Section 4.1, “Transportation” of the Addendum, the amended Plan’s impact to regional traffic metrics, including Vehicle Miles Traveled (VMT) and VMT per-capita, are slightly reduced relative to the adopted Plan (191,503,300 vs 191,528,600 regional average daily miles of travel). However, the difference (0.01%) in regional VMT between the amended and adopted Plans is negligible and is in essence the same relative to baseline conditions.

Similarly, the Transportation-Air Quality Conformity Analysis also includes regional VMT estimates as a result of the amended Plan as inputs into the emissions model. These regional VMT estimates also show a 0.01% reduction in VMT in the 2030 analysis year and a 0.05% reduction in the 2040 analysis year relative to the adopted Plan.

***Comment 3: shouldn't the available funds be used for making the SCS a success? On CCAG the dictum is that Caltrain relieves almost 8-10% of 101 traffic. Caltrain service needs to at least be doubled to make up for the capacity increase "between 4 and 7 percent in just the next three years" forecasted for the lane expansion by Leo Scott, deputy project manager at Caltrans. And tripled to reduce congestion to have a freer flowing freeway for "consistent travel time for carpools and buses". Please consider not building the lanes but instead using some or all of the funds to electrify Caltrain and extended to the Transbay Transit Center in San Francisco. The right of way of the railroad is very close to the right of way of U.S. Highway 101. Would transit ridership increase more with an electrified and extended Caltrain than with the construction of the freeway lanes?***

As previously mentioned, both the amended and adopted Plans exceed the region's per-capita GHG emissions reduction targets set forth by SB 375 as evidenced in Table 10 of Section 4.3, "Climate Change and Greenhouse Gases" of the Addendum to the Final EIR for Plan Bay Area 2040. The amended Plan demonstrates it can achieve a 15.6% per-capita GHG emissions reduction from 2005 levels, thereby meeting the reduction target of 15% in 2035.

The electrification of Caltrain has been included in the fiscally constrained transportation investment strategy of the adopted Plan as RTPID #17-10-0008. Likewise, the extension of Caltrain to the Transbay Transit Center was also included in the adopted Plan as RTPID #17-10-0038. Please explore the Final Project Database, <http://projects.planbayarea.org/explore>, for the adopted Plan to learn more.

***Comment 4: instead of freeway expansion, why didn't SCS and VMT considerations in Plan Bay Area 2040 bias the EIR in favor of alternative 3 which was the cheapest: convert an existing general purpose lane to an express lane, allowing free access for buses and carpools (of 3+ people)?***

The Transportation-Air Quality Conformity Analysis nor the Addendum to the Final EIR assessed project level build alternatives. Instead, these technical analyses relied on the assumptions provided by the lead agency(s) implementing the project. Build alternatives were assessed in the project's environmental analysis. These amendments to the Plan and to the TIP seek to reflect the preferred alternative of the project level environmental analysis, and to determine whether the preferred alternative would be consistent with ("conform to") the purpose of the state air quality implementation plan (SIP), and/or result in the identification of any new or an increase in severity to previously disclosed environmental impacts to the region.

## **RESPONSE #2**

***Comment: The Authority ("California High-Speed Rail Authority") respectfully request that MTC and local jurisdictions recognize the proposed high-speed rail blended service and how it may interact with the proposed Highway 101 Express Lane project. It is important to note that the Millbrae Station will serve as an important multi-modal connection opportunity for high-speed rail, BART, and Caltrain. Please keep the Authority informed of any ramp modifications at this location that could afford opportunities to improve access to the Millbrae Station.***

MTC and ABAG have staff have shared with Caltrans, the City/County Association of Governments of San Mateo County, and the San Mateo County Transportation Authority the California High-Speed Rail Authority's comment letter.



Plan Bay Area 2040:

# Transportation-Air Quality Conformity Analysis for Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program

March 2018



METROPOLITAN  
TRANSPORTATION  
COMMISSION



Association of  
Bay Area Governments

Bay Area Metro Center  
375 Beale Street  
San Francisco, CA 94105

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## I. Introduction

The Metropolitan Transportation Commission (MTC) prepares a transportation-air quality conformity analysis (“conformity analysis”) when it amends or updates its Regional Transportation Plan (RTP), and/or updates its Transportation Improvement Program (TIP), or adds or deletes regionally significant, non-exempt projects into the TIP.

The purpose of this conformity analysis is to conform the Amended RTP (“Plan Bay Area 2040”) and the Amended 2017 TIP in accordance with the latest U.S. Environmental Protection Agency (EPA) transportation conformity regulations and the Bay Area Conformity State Implementation Plan (Conformity SIP), which is also known as the Bay Area Air Quality Conformity Protocol (MTC Resolution No. 3757). This conformity analysis addresses the 2008 national ambient air quality standard (NAAQS) for 8-hour ozone, the 8-hour national carbon monoxide standard, and the 2006 national 24-hour fine particulate matter (PM<sub>2.5</sub>) standard.

This report explains the basis for the conformity analysis and provides the results used by MTC to make a positive conformity finding for the amendments to Plan Bay Area 2040 and the 2017 TIP.

### Purpose of Conformity Analysis

The Federal Clean Air Act, as amended in 1990 (CAAA) outlines requirements for ensuring that federal transportation plans, programs, and projects are consistent with (“conform to”) the purpose of the SIP. Conformity to the purpose of the SIP means that transportation activities will not cause new air quality violations, worsen existing violations, or delay timely attainment of the relevant national ambient air quality standards. A conformity finding demonstrates that the total emissions projected for a transportation plan (“RTP”) or program (“TIP”) are within the emissions limits (“budgets”) established by the SIP, and that transportation control measures (TCMs) are implemented in a timely fashion.

Conformity requirements apply in all non-attainment and maintenance areas for transportation-related criteria pollutants and related precursor emissions. For the Bay Area, the criteria pollutants to be addressed are ground-level ozone, carbon monoxide, and PM<sub>2.5</sub>; and the precursor pollutants to be addressed include volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) for ozone and for PM<sub>2.5</sub>. EPA’s most recent revisions to its transportation conformity regulations to implement the 1990 Federal Clean Air Act section 176 were published in the Federal Register on March 14, 2012.<sup>1</sup>

Metropolitan Planning Organizations (MPOs) such as MTC are required to follow these regulations, and any other procedures and criteria contained in the EPA-approved Conformity SIP (Transportation-Air Quality Conformity Protocol) for the Bay Area. In the Bay Area, procedures were first adopted in September 1994 to comply with the 1990 CAAA. Four subsequent amendments to the transportation conformity procedures in August 1995, November 1995, August 1997, and July 2006 have been adopted by the three co-lead agencies (MTC, Association of Bay Area Governments (ABAG), and Bay Area Air Quality Management District (BAAQMD)). MTC Resolution 3757 represents the latest San Francisco Bay Area Transportation-Air Quality Conformity Protocol adopted by the three agencies in July 2006. Acting on behalf of the three agencies, the BAAQMD submitted this latest Protocol to California Air Resources Board (CARB) as a revision to the Bay Area Conformity SIP. CARB approved this proposed revision to the

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<sup>1</sup> The current version of the regulations is available on EPA’s Transportation Conformity website at <https://www.epa.gov/state-and-local-transportation/current-law-regulations-and-guidance-state-and-local-transportation>

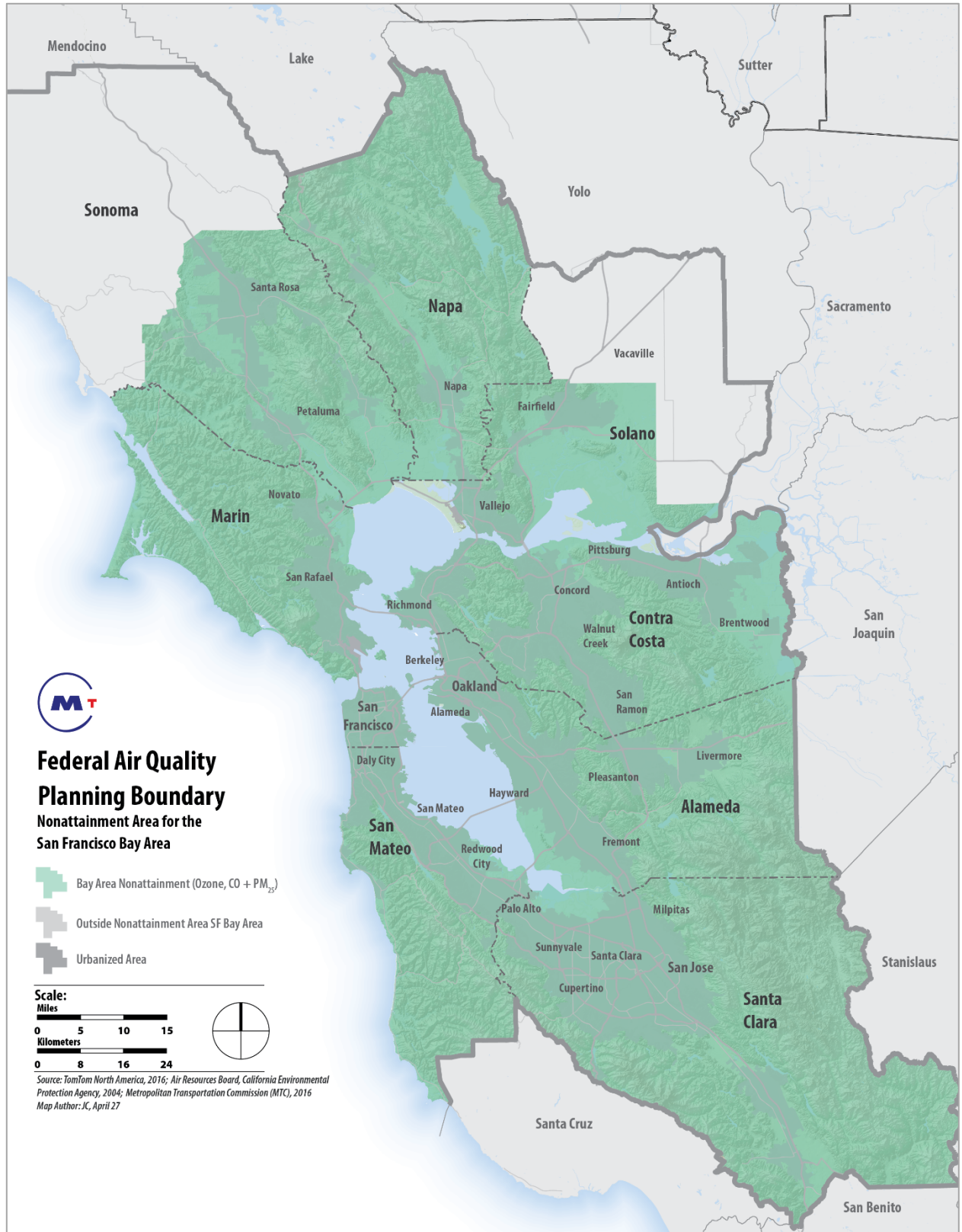


Figure 1: Map of the Non-Attainment Area for the San Francisco Bay Area

Bay Area's Conformity SIP in December 2006 and transmitted it to EPA for final action. EPA approved the Bay Area Conformity SIP in December 2007 (40 CFR Part 52).

These regulations and resolutions state in part that, MTC cannot approve any transportation plan, program, or project unless these activities conform to the purpose of the federal air quality plan. "Transportation plan" refers to the RTP. "Program" refers to the TIP, which is a financially realistic set of highway and transit projects to be funded over the next four years. A "transportation project" is any highway or transit improvement, which is included in the RTP and TIP and requires funding or approval from the Federal Highway Administration (FHWA) or the Federal Transit Administration (FTA). Conformity regulations also affect regionally significant non-federally funded projects which must be included in a conforming transportation plan ("RTP") and program ("TIP").

## Status of Regional Transportation Plan

A regional transportation plan, or RTP, is a plan which includes both long-range and short-range strategies and actions that lead to the development of an integrated multimodal transportation system to facilitate the safe and efficient movement of people and goods in addressing current and future transportation demand. State law requires that RTP's include a Sustainable Communities Strategy (SCS) to identify a forecasted land use development pattern that when integrated with the future transportation system will meet the region's greenhouse gas reduction target set by CARB. As required by federal and state planning regulations, the RTP covers a minimum planning horizon of 20 years and is updated every four years in areas which do not meet federal air quality standards ("non-attainment"). The RTP is financially constrained to ensure project costs do not exceed regionally expected transportation revenues over the planning horizon. Once adopted, the RTP guides the development of the TIP for the region.

The San Francisco Bay Area's existing RTP/SCS is called Plan Bay Area 2040 ("the Plan"), adopted in July 2017, and is an update to Plan Bay Area (2013). Plan Bay Area 2040 represents a strategic investment strategy to maintain existing transportation infrastructure, service, and system performance for Bay Area travelers through horizon year 2040. It includes a regional transportation investment strategy and subsequent list of highway, transit, local roadway, bicycle, and pedestrian projects identified through regional and local transportation planning processes. In addition, Plan Bay Area 2040 includes a focused growth land use pattern designed to reduce passenger vehicle travel in an effort to meet the region's greenhouse gas reduction target set by CARB. As required by federal and state planning regulations, Plan Bay Area 2040 is financially constrained meaning the identified transportation project costs are within the \$303 billion revenue forecast.

The Commission approved the Transportation-Air Quality Conformity Analysis for Plan Bay Area 2040 and the Amended 2017 TIP on July 26th, 2017 (MTC Resolution No. 4298). The FHWA and FTA approved MTC's conformity determination for Plan Bay Area 2040 and the Amended 2017 TIP on August 23, 2017.

MTC and ABAG propose an amendment to Plan Bay Area 2040 to modify the scope and project cost of the U.S. Highway 101 Managed Lanes Project in San Mateo County (RTPID 17-06-0007). The proposed amendment would update the cost, clarify the project description, and modify lane configuration assumptions along the U.S. Highway 101 corridor to accommodate an Express Lane.

This conformity analysis serves to demonstrate that the Amended Plan Bay Area 2040 conforms to the SIP. Refer to Appendix B for a detailed list of projects included in the Amended Plan Bay Area 2040.

## Status of Transportation Improvement Program

The federally required transportation improvement program, or TIP, is a comprehensive listing of surface transportation projects for the San Francisco Bay Area that receive federal funds, are subject to a federally required action, or are regionally significant. MTC, as the federally designated MPO, prepares and adopts the TIP at least once every four years. The TIP covers a four-year period and must be financially constrained by year, meaning that the amount of dollars committed to the projects (also referred to as “programmed”) must not exceed the amount of dollars estimated to be available. As required by federal conformity regulations, MTC must demonstrate that the TIP is consistent with (“conforms to”) the SIP and that all projects included in the TIP are consistent with the RTP.

The original 2017 TIP received final federal approval on December 16, 2016, and includes projects programmed over four fiscal years from FY 2016-17 through FY 2019-20. The 2017 TIP has been revised multiple times since it was adopted, including through TIP Amendment 2017-14, which revised the 2017 TIP to ensure consistency with Plan Bay Area 2040. TIP Amendment 2017-14 and the Transportation-Air Quality Conformity Analysis on Plan Bay Area 2040 and the Amended 2017 TIP received final federal approval on August 23, 2017.

The U.S. Highway 101 Managed Lanes Project is now being revised in the TIP through TIP Amendment 2017-28 to be consistent with the changes included in the Amended Plan Bay Area 2040. The Amended 2017 TIP (as revised through TIP Amendment 2017-28) contains approximately 800 projects totaling about \$11 billion over the four-year period from fiscal year 2016-17 to 2019-20.

The U.S. Highway 101 Managed Lanes project as proposed in the Amended Plan Bay Area 2040 is expected to be completed outside the analysis years of the Amended 2017 TIP timeframe. This conformity analysis serves to conform the 2017 TIP as amended through TIP Amendment 2017-28 and the Amended Plan Bay Area 2040. Refer to Appendix B for a detailed list of projects included in the Amended 2017 TIP.

## II. Bay Area Air Pollutant Designations

### National 1-Hour Ozone Standard

The Bay Area was initially designated as nonattainment for ozone on March 3, 1978. On November 6, 1991, the EPA designated the Bay Area as a moderate ozone non-attainment area. Based on “clean” air monitoring data from 1990 to 1992, the co-lead agencies—BAAQMD, MTC, and ABAG— determined that the Bay Area was attaining the the 1-hour ozone standard and requested that CARB forward a re-designation request and an ozone maintenance plan to EPA.

On May 25, 1995, after evaluating 1990-1992 monitoring data and determining that the Bay Area had continued to attain the standard, the EPA redesignated the Bay Area as an ozone maintenance area. Shortly thereafter, the area began violating the standard again and on July 10, 1998, the EPA published a Notice of Final Rulemaking redesignating the Bay Area back to an ozone non-attainment area. This action became effective on August 10, 1998.

The redesignation to nonattainment triggered an obligation for the State to submit a SIP revision designed to provide for attainment of the 1-hour ozone NAAQS by November 15, 2000. This revision (the San Francisco Bay Area Ozone Attainment Plan for the 1-hour National Ozone Standard – June 1999 or “1999 Plan”) was partially approved and partially disapproved by EPA on September 20, 2001 in

conjunction with a determination that the area had failed to attain by the November 2000 deadline. The attainment demonstration and its associated motor vehicle emissions budgets were among the plan elements that were disapproved.

As a result of the EPA's finding of failure to attain and partial disapproval of the 1999 Plan, the State was required to submit a SIP revision for the Bay Area to EPA by September 20, 2002 that included an updated volatile organic compounds (VOC) and nitrogen oxides (NOX) emissions inventory, new transportation conformity budgets, and provided for attainment of the 1-hour ozone standard no later than September 20, 2006. On November 1, 2001, CARB approved the San Francisco Bay Area 2001 Ozone Attainment Plan for the 1-Hour National Ozone Standard (2001 Plan) as a revision to the SIP. The BAAQMD and its co-lead agencies, MTC) and ABAG adopted the 2001 Plan on October 26, 2001.

The 2001 Plan contains a control strategy with seven stationary source measures, five transportation control measures (TCMs), and eleven further-study measures. In the 2001 Plan, the District also committed to strengthening the then existing Smog Check program by requesting the State Bureau of Automotive Repair to implement two VOC-reducing program elements. The new measures and on-going programs will provide 271 tons per day of combined VOC and NOX emission reductions between 2000 and 2006. The 2001 Plan also included an attainment assessment based on Bay Area data. The Bay Area co-lead agencies committed to reassess the attainment assessment in 2003 using data from the Central California Ozone Study and to submit a revised SIP to EPA in 2004 with any needed modifications to the control strategy.

On November 30, 2001, ARB submitted the 2001 Plan, which included VOC and NOx motor vehicle emissions budgets (164.0 tons per day (tpd) and 270.3 tpd, respectively) for the 2006 attainment year, to EPA for approval as a revision to the California SIP. To support the on-road motor vehicle emission inventory and transportation conformity budgets in the Plan, CARB also transmitted the San Francisco Bay Area-EMFAC2000 model to EPA for approval for the Bay Area ozone non-attainment area. On February 14, 2002, the EPA found the motor vehicle emissions budgets in the 2001 Plan adequate for transportation conformity purposes, based on its preliminary determination that the plan provided for timely attainment of the 1-hour ozone standard.

On April 22, 2004, based on air quality monitoring data from the 2001, 2002, and 2003 ozone season, EPA determined that Bay Area had attained the national 1-hour ozone standard. s. Because of this determination, requirements for some of the elements of the 2001 Ozone Attainment Plan, submitted to EPA to demonstrate attainment of the 1-hour standard, were suspended. The determination of attainment did not mean the Bay Area had been re-designated as an attainment area for the 1-hour standard. To be re-designated, the region would have had to submit a formal re-designation request to EPA, along with a maintenance plan showing how the region would continue to attain the standard for ten years. However, this re-designation request was no longer necessary upon the establishment of the new national 8-hour ozone standard.

## National 8-Hour Ozone Standard

In July 1997, EPA revised the ozone standard, setting it to 80 parts per billion (ppb) in concentration-based specifically on the 3-year average of the annual 4th highest daily maximum 8-hour ozone concentrations. In April 2004, EPA issued final designations for attainment and non-attainment areas. In June 2004, EPA formally designated the Bay Area as a non-attainment area for national 8-hour ozone



and classified the region as “marginal” based on five classes of non-attainment areas for ozone, ranging from marginal to extreme.

In March 2008, EPA lowered the national 8-hour ozone standard from 80 ppb to 75 ppb. On March 12, 2009, CARB submitted its recommendations for area designations for the revised national 8-hour ozone standard. These recommendations were based on ozone air quality data collected during 2006 through 2008. The CARB recommended that the Bay Area be designated as non-attainment for the national 8-hour ozone standard. EPA had one year to review the recommendations and were to notify states by November 12, 2009, if they planned to modify the state-recommended areas. EPA issued final designations by March 12, 2010, based on more up to date monitoring data.

On October 1, 2015, EPA strengthened the NAAQS for ground-level ozone to 70 ppb, based on extensive scientific evidence about ozone’s effects on public health and welfare. The updated standards will improve public health protection, particularly for at-risk groups including children, older adults, people of all ages who have lung diseases such as asthma, and people who are active outdoors, especially outdoor workers. They also will improve the health of trees, plants and ecosystems.

In addition, because marginal 8-hour ozone areas are not required to submit an attainment demonstration SIPs (containing on-road motor vehicle emission budgets required to demonstrate conformity), the conformity finding in this report is based on the approved 1-hour ozone on-road motor vehicle emission budgets contained in the Bay Area’s 2001 Plan.

Proposed implementation rule for the 2015 ozone standard was published November 17, 2016 (81 FR 81276) and proposed a framework for nonattainment area classifications and SIP requirements. In addition, the proposed rule largely follows approach adopted for the previous Classifications Rule and SIP Requirements Rule (SRR) for the 2008 ozone NAAQS.

On June 21, 2017, the Administrator of the U.S. Environmental Protection Agency (EPA) extended the deadline for designating areas for the 2015 national ambient air quality standards (NAAQS) for ground-level ozone by 1 year. The new deadline for area designations is October 1, 2018.

## National PM<sub>2.5</sub> Standard

In 1987, The EPA established a standard for particle pollution equal to or smaller than 10 micrometers in diameter. A decade later, the 1997 revision to the standard set the stage for change, when a separate standard was set for fine particulate matter (particles that are 2.5 micrometers in diameter and smaller). Citing the link between serious health problems and premature death in people with heart or lung disease, the 1997 revision ultimately distinguished and set forth regulation on particle pollutants known as particulate matter 2.5 (PM<sub>2.5</sub>) and particulate matter 10 (PM<sub>10</sub>). Based on air quality monitoring data, the Bay Area was found to be attaining the 1997 PM<sub>2.5</sub> standards.

In 2006, the EPA revised the air quality standards for particle pollution. The 24-hour PM<sub>2.5</sub> standard was strengthened by lowering the level from 65 micrograms per cubic meter (µg/m<sup>3</sup>) to 35 µg/ m<sup>3</sup>. The annual fine particle standard at 15 µg/ m<sup>3</sup> remained the same. Also, in 2006, the EPA published a final rule that established transportation conformity criteria and procedures to determine transportation projects that required analysis for local air quality impacts for PM<sub>2.5</sub> in non-attainment and maintenance areas. The newly established criteria and procedures require that those areas designated as nonattainment areas must undergo a regional conformity analysis for PM<sub>2.5</sub>. Furthermore, the

procedures also mandate that areas designated as non-attainment must complete an additional project-level PM<sub>2.5</sub> hot-spot analysis of localized impacts for transportation projects of air quality concern.

On December 14, 2009, EPA designated the Bay Area as non-attainment for the national 24-hour PM<sub>2.5</sub> standard based upon violations of the standard over the three-year period from 2007 through 2009. Pursuant to the Clean Air Act, the Bay Area and MTC were subject to the requirement (beginning on December 14, 2010) to demonstrate that the RTP and TIP conformed to the SIP. In addition, beginning on December 14, 2010, certain roadway and transit projects that involve significant levels of diesel vehicle traffic needed to prepare PM<sub>2.5</sub> hot-spot analyses.

## National 8-Hour Carbon Monoxide Standard

In April 1998, the Bay Area was re-designated to a “maintenance area” for the national 8-hour carbon monoxide (CO) standard, having demonstrated attainment of the standards. As a maintenance area, the region must assure continued attainment of the CO standard.

## Approved Motor Vehicle Emissions Budgets and Conformity Tests

The Bay Area has conformity requirements for national ozone, CO, and PM<sub>2.5</sub> standards. Under the ozone and CO standard, the Bay Area has to meet an on-road motor vehicle emission “budget” test. Because the Bay Area does not have on-road motor vehicle emission budgets for PM<sub>2.5</sub> that have been determined to be adequate by EPA, it has to meet an emission interim test for the PM<sub>2.5</sub> standard. To make a positive conformity finding for ozone and CO, MTC must demonstrate that the calculated on-road motor vehicle emissions in the region are lower than the approved budgets. To make a positive “interim” conformity finding for PM<sub>2.5</sub>, MTC must meet “build not greater than no build” or “build not greater than baseline year” tests based on PM<sub>2.5</sub> exhaust, tire wear, and brake wear, and NO<sub>x</sub> as a PM<sub>2.5</sub> precursor, emissions.

On-road motor vehicle emissions budgets for VOC and NO<sub>x</sub>, which are ozone precursors, were developed for the 2006 attainment year as part of the 2001 1-hour Ozone Attainment Plan. The VOC and NO<sub>x</sub> budgets were found to be adequate by EPA on February 14, 2002 (67 FR 8017), and were subsequently approved by EPA on April 22, 2004 (69 FR 21717). Note that under EPA’s conformity rule for the national 8-hour ozone standard, the existing 1-hour on-road motor vehicle emission budgets are to be used for conformity analyses until they are replaced.

For CO, the applicable on-road motor vehicle emissions budget was developed for the 2004 Revisions to the California State Implementation Plan for Carbon Monoxide (herein referred to as the 2004 Carbon Monoxide Maintenance Plan).

The on-road motor vehicle emission budgets are listed below:

- VOC: 164 tons per day (2006 and beyond)
- NO<sub>x</sub>: 270.3 tons per day (2006 and beyond)
- CO: 1,850 tons per day (2003 and 2018 and beyond)

For PM<sub>2.5</sub>, initially the Bay Area was required to prepare a SIP by December 2012 to show how the region would attain the standard by December 2014. In addition, although the Bay Area was designated as non-attainment for the national 24-hour PM<sub>2.5</sub> standard based on monitoring data for the 2006-2008 period, the region exceeded the standard by only a slight margin.

Monitoring data shows that the Bay Area currently meets the national standards for both annual and 24-hour PM<sub>2.5</sub> levels. However, because the health effects of PM are serious and far-reaching, and no safe threshold of exposure to PM has yet been identified, it is important that we continue efforts to further reduce PM emissions and concentrations.<sup>2</sup>

Under US EPA guidelines, a region with monitoring data showing that it currently attains an air quality standard can submit a “re-designation request” and a “maintenance plan” in lieu of a SIP attainment plan. However, the BAAQMD believes that it would be premature to submit a PM<sub>2.5</sub> re-designation request for the Bay Area at this time. Instead, the BAAQMD has pursued another option provided by US EPA guidelines for areas with monitoring data showing that they currently meet the PM<sub>2.5</sub> standard. In December 2011, CARB submitted a “clean data finding” request on behalf of the Bay Area. On January 9, 2013, EPA took final action and determined that the Bay Area attained the 2006 24-hour PM<sub>2.5</sub> standard. EPA’s determination was based on complete, quality-assured, and certified ambient air monitoring data showing that the area monitored attainment based on the 2009-2011 monitoring period. Based on EPA’s determination, the requirements for the Bay Area to submit an attainment demonstration, together with RACMs, an RFP plan, and contingency measures for failure to meet RFP and attainment deadlines are suspended for so long as the region continues to attain the 2006 24-hour PM<sub>2.5</sub> standard.

Since an approved on-road motor vehicle emissions budget for PM<sub>2.5</sub> is not available for use in this conformity analysis, MTC must complete one of the two interim emissions tests:

- the build-no-greater-than-no-build test (“build/no-build test”) found at 40 CFR 93.119(e)(1), or
- the no-greater-than-baseline year emissions test (“baseline year test”), described at 40 CFR 93.119(e)(2).

Per the interagency consultation via the Air Quality Conformity Task Force meeting dated May 28, 2015, MTC elected to use the “baseline year test”. In this test, conformity is demonstrated if in each analysis year, the RTP or TIP (the “build” scenarios) on-road motor vehicle emissions are less than or equal to emissions in the “baseline year” emission inventory. The “baseline year” for the 2006 24-hour PM<sub>2.5</sub> standard is the year 2008<sup>3</sup>.

Under a determination of conformity, the following criteria are applied:

1. The latest planning assumptions and emission models are used.  
The transportation plan (“RTP”) and program (“TIP”) pass an emissions budget test using a budget that has been found adequate by EPA or an interim emissions test when budgets have not been established.
2. The transportation (“RTP”) and program (“TIP”) provide for the timely implementation of TCMs.
3. Interagency and public consultation is part of the process.

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<sup>2</sup> See BAAQMD’s 2017 Clean Air Plan: *Spare the Air, Cool the Climate* at: [http://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a\\_-proposed-final-cap-vol-1-pdf.pdf?la=en](http://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en)

<sup>3</sup> Additional information is available here: <https://www.epa.gov/state-and-local-transportation/baseline-year-baseline-year-test-40-cfr-93119>

### III. Conformity Analysis & Results

#### Approach to Conformity Analysis

The latest planning assumptions were used when preparing this conformity analysis. Regional estimates of future travel data were estimated using MTC’s land use model (referred to as “*Bay Area UrbanSim*”) and travel model (referred to as “*Travel Model One*”). This integrated model framework allows for analysis of how transportation projects affect the surrounding land use pattern, as well as how changes to residential and commercial activity affect transportation demand. *Travel Model One* (version 0.6) released in July 2016, is calibrated to year 2000 conditions and validated against year 2000, year 2005, and year 2010 conditions. The model generates spatially- and temporally- specific estimates of travel data—roadway usage and speed. This travel data is input into CARB’s latest Emission FACTors (EMFAC2014) model to estimate on-road motor vehicle emissions.

The EMFAC2014 model shows how California on-road motor vehicle emissions have changed over time and are projected to change in the future. This information helps CARB evaluate prospective control programs and determine the most effective, science-based proposals for protecting the environment. EMFAC2014 includes the latest data on California’s car and truck fleets and travel activity. The model also reflects the emissions benefits of CARB’s recent rulemakings, including on-road diesel fleet rules, Advanced Clean Car Standards, and the Smartway/Phase I Heavy Duty Vehicle Greenhouse Gas Regulation. The model includes updates to truck emission factors based on the latest test data. More details about the updates in emissions calculation methodologies and data are available in the EMFAC2014 Technical Support Document.<sup>4</sup>

*Bay Area UrbanSim*<sup>5</sup> and *Travel Model One* are responsive to numerous inputs, including demographic, pricing, travel behavior, and highway and transit network assumptions. For this conformity analysis, the two models use demographic and highway and transit network assumptions consistent with the Amended Plan Bay Area 2040<sup>6</sup>. Highway and transit networks were updated for each analysis year to reflect investments in the Amended Plan Bay Area 2040 (see Appendix B) and the Amended 2017 TIP (see Appendix C). Pricing assumptions applied in *Travel Model One* include projected parking prices, gasoline and non-gasoline auto operating costs, fuel economy, bridge tolls, transit fares, and express lanes. Travel behavior assumptions include trip peaking factors, vehicle occupancy factors, and estimates of interregional commuters. Refer to Appendix D for detailed travel modeling assumptions used in this conformity analysis.<sup>7</sup>

Regional vehicle miles traveled (VMT) and engine starts (which are needed for emission calculations) are forecasted using a combination of output from *Travel Model One* and base year (2010) EMFAC2014 default VMT information provided by the CARB. For conformity purposes, MTC continues to employ the agreed to protocol for estimating VMT with updated 2010 base year data.

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<sup>4</sup> Additional information is available here: <http://www.arb.ca.gov/msei/categories.htm>

<sup>5</sup> Additional information is available here: [http://2040.planbayarea.org/sites/default/files/2017-07/Land\\_Use\\_Modeling\\_PBA2040\\_Supplemental%20Report\\_7-2017.pdf](http://2040.planbayarea.org/sites/default/files/2017-07/Land_Use_Modeling_PBA2040_Supplemental%20Report_7-2017.pdf)

<sup>6</sup> Additional information is available here: <http://www.planbayarea.org/2040-plan/final-preferred-scenario>

<sup>7</sup> Additional information is available here: [http://2040.planbayarea.org/sites/default/files/2017-07/Travel\\_Modeling\\_PBA2040\\_Supplemental%20Report\\_7-2017\\_0.pdf](http://2040.planbayarea.org/sites/default/files/2017-07/Travel_Modeling_PBA2040_Supplemental%20Report_7-2017_0.pdf)

This document is part of the Final Amended Plan Bay Area 2040 scenario planning/development effort and the technical methods and assumptions used in this effort are consistent with what is applied in this conformity analysis.

A separate process was used to develop demographic assumptions for the PM<sub>2.5</sub> “baseline year” of 2008. *Bay Area UrbanSim* generates Transportation Analysis Zone (TAZ)-level data set in 5-year increments. The calculation of data for the interim year 2008 requires a multi-stop process. First, regional control totals for each attribute are calculated using straight-line extrapolations between the two adjacent 5-year increments (2005 and 2010). Next, each TAZ's share of the regional total is calculated by extrapolation of the two adjacent 5-year increments. Finally, individual TAZ totals are calculated by multiplying the interim year TAZ share of the regional total by the regional control total.

## Analysis Years

The analysis years for the budget and baseline year tests are to be a year within five years from the date the analysis is done, the horizon year of the RTP and intermediate years as necessary so that analysis years are not more than ten years apart. For this conformity analysis, the analysis years 2020, 2030 and 2040 for the 2008 ozone and 2006 PM<sub>2.5</sub> standards. For CO, the analysis years are 2018, 2020, 2030 and 2040. Travel data for year 2018 were interpolated between forecasted 2015 and 2020 travel data. MTC used *Travel Model One* to forecast travel data for the 2020, 2030 and 2040 analysis years. The forecasted travel data for each analysis year were then input into the EMFAC2014 model to calculate on-road motor vehicle emissions.

## Consultation Process

MTC has consulted on the preparation of this conformity analysis and other conformity related issues with the Bay Area's Air Quality Conformity Task Force. The Conformity Task Force is composed of representatives of EPA, CARB, FHWA, FTA, Caltrans, MTC, BAAQMD, ABAG, the nine county Congestion Management Agencies, and Bay Area transit operators. The Conformity Task Force reviews the analysis assumptions, consults on TCM implementation issues, and reviews the results of the conformity analysis. The task force meetings are open to the public. Topics covered in past meetings of the Air Quality Conformity Task Force include the following:

### January 2018

- PM<sub>2.5</sub> Project-Level Conformity Interagency Consultations
- Approach to Conformity Analysis for the Amended Plan Bay Area 2040 and Amended 2017 TIP

### February 2018

- PM<sub>2.5</sub> Project-Level Conformity Interagency Consultations
- Discussions on Projects with Regional Air Quality Conformity Concerns
- Review responses to comments with Air Quality Conformity Task Force

### March 2018

- PM<sub>2.5</sub> Project-Level Conformity Interagency Consultations
- Complete the Conformity Analysis for the Amended Plan Bay Area 2040 and Amended 2017 TIP and respond to public comments

## Comparison of Motor Vehicle Emissions to Budgets

As explained earlier, on-road motor vehicle emissions budgets are established in the SIP for VOCs, NO<sub>x</sub> and carbon monoxide (CO). To make a positive conformity finding, the regional on-road motor vehicle

emissions must be equal to or less than these budgets. The results of the vehicle activity forecasts and on-road motor vehicle emission calculations are described in the following section.

### Ozone Motor Vehicle Emission Budgets

For VOC and NO<sub>x</sub>, the on-road motor vehicle emission budget also reflects anticipated emission reductions from five Transportation Control Measures (TCMs) incorporated in the 2001 Ozone Attainment Plan (Table 1).

*Table 1: VOC and NO<sub>x</sub> Emissions Budgets from 2001 Ozone Attainment Plan (tons/day)*

VOC	
2006 On Road Motor Vehicle Emissions	168.5
2006 Mobile Source Control Measure Benefits	(4.0)
2006 TCM Benefits	(0.5)
2006 Emissions Budget	164.0
NO <sub>x</sub>	
2006 On Road Motor Vehicle Emissions	271.0
2006 TCM Benefits	(0.7)
2006 Emissions Budget	270.3

The vehicle activity forecasts by analysis year for the Amended Plan Bay Area 2040 and Amended 2017 TIP (the “build” scenarios) are shown in Table 2. Travel data (from MTC’s *Travel Model One*) was input into CARB’s EMFAC2014 emissions model, thereby generating regional vehicle activity and emissions estimates.

The analysis years for the budget and baseline year tests are to be a year within five years from the date the analysis is done, the horizon year of the RTP and intermediate years as necessary so that analysis years are not more than ten years apart. For this conformity analysis, the analysis years 2020, 2030 and 2040 for the 2008 ozone and 2006 PM<sub>2.5</sub> standards. For CO, the analysis years are 2018, 2020, 2030 and 2040. Travel data for year 2018 were interpolated between forecasted 2015 and 2020 travel data. Travel data for 2020, 2030 and 2040 were forecasted by *Travel Model One*. The forecasted travel data for each analysis year were then input into the EMFAC2014 model to calculate on-road motor vehicle emissions.

*Table 2: Vehicle Activity Forecasts*

	2020	2030	2040
Vehicles in use	4,693,975	5,501,960	6,226,935
Daily VMT (1000s)	167,203	182,480	195,507
Daily Engine Starts	29,276,669	34,094,420	38,489,536

### Carbon Monoxide Maintenance Plan Budget

The budget for carbon monoxide (CO) is derived from the 2004 Carbon Monoxide Maintenance Plan. The emission budget for the Bay Area is 1,850 tons per day. This budget applies to all subsequent analysis years as required by federal conformity regulation, including any interim year conformity analyses, the 2018 horizon year, and years beyond 2018.

## Comparison of Estimated Regional On-Road Motor Vehicle Emissions to the Ozone Precursor and CO Budgets

The vehicle activity forecasts for the Amended Plan Bay Area 2040 and Amended 2017 TIP, Table 2, are converted to emission estimates by MTC using EMFAC2014. Tables 3 and 4 compare the results of the various analyses with the applicable budgets. The analyses indicate that the on-road motor vehicle emissions are substantially below the budget, due in large part to the effects of cleaner vehicles in the California fleet and the enhanced Smog Check program now in effect in the Bay Area and reflected in the EMFAC2014 model. With respect to the new Maintenance Plan on-road motor vehicle emission budget for CO, Table 4 shows that calculated emissions will be well below the new budget of 1,850 tons per day in 2018 as well.

*Table 3: Emissions Budget Comparisons for Ozone Precursors – Summertime Conditions (tons/day)*

Year	VOC Budget <sup>1</sup>	On-Road Motor Vehicles VOC	TCMs <sup>2</sup>	Net Emissions
2020	164.0	35.95	(0.3)	35.65
2030	164.0	24.03	(0.3)	23.73
2040	164.0	18.51	(0.3)	18.21

Year	NO <sub>x</sub> Budget	On-Road Motor Vehicles NO <sub>x</sub>	TCMs <sup>2</sup>	Net Emissions
2020	270.3	65.04	(0.5)	64.54
2030	270.3	32.87	(0.5)	32.37
2040	270.3	28.94	(0.5)	28.44

<sup>1</sup> 2001 Ozone Attainment Plan

<sup>2</sup> The transit services for TCM A Regional Express Bus Program were modeled. The emission benefits from TCM A are therefore included in the On-Road Motor Vehicles VOC and NO<sub>x</sub> emission inventories for 2006 and beyond.

*Table 4: Emissions Budget Comparisons for Carbon Monoxide – Wintertime Conditions (tons/day)*

Year	2004 CO Budget <sup>1</sup>	Estimated CO
2018	1,850	319.66 <sup>2</sup>
2020	1,850	252.10
2030	1,850	147.84
2040	1,850	118.64

<sup>1</sup> 2004 Revision to the California State Implementation Plan for Carbon Monoxide, Updated Maintenance Plan for 10 Federal Planning Areas

<sup>2</sup> Estimated CO emissions for 2018 are extrapolated from the 2015 and 2020 analysis year data.

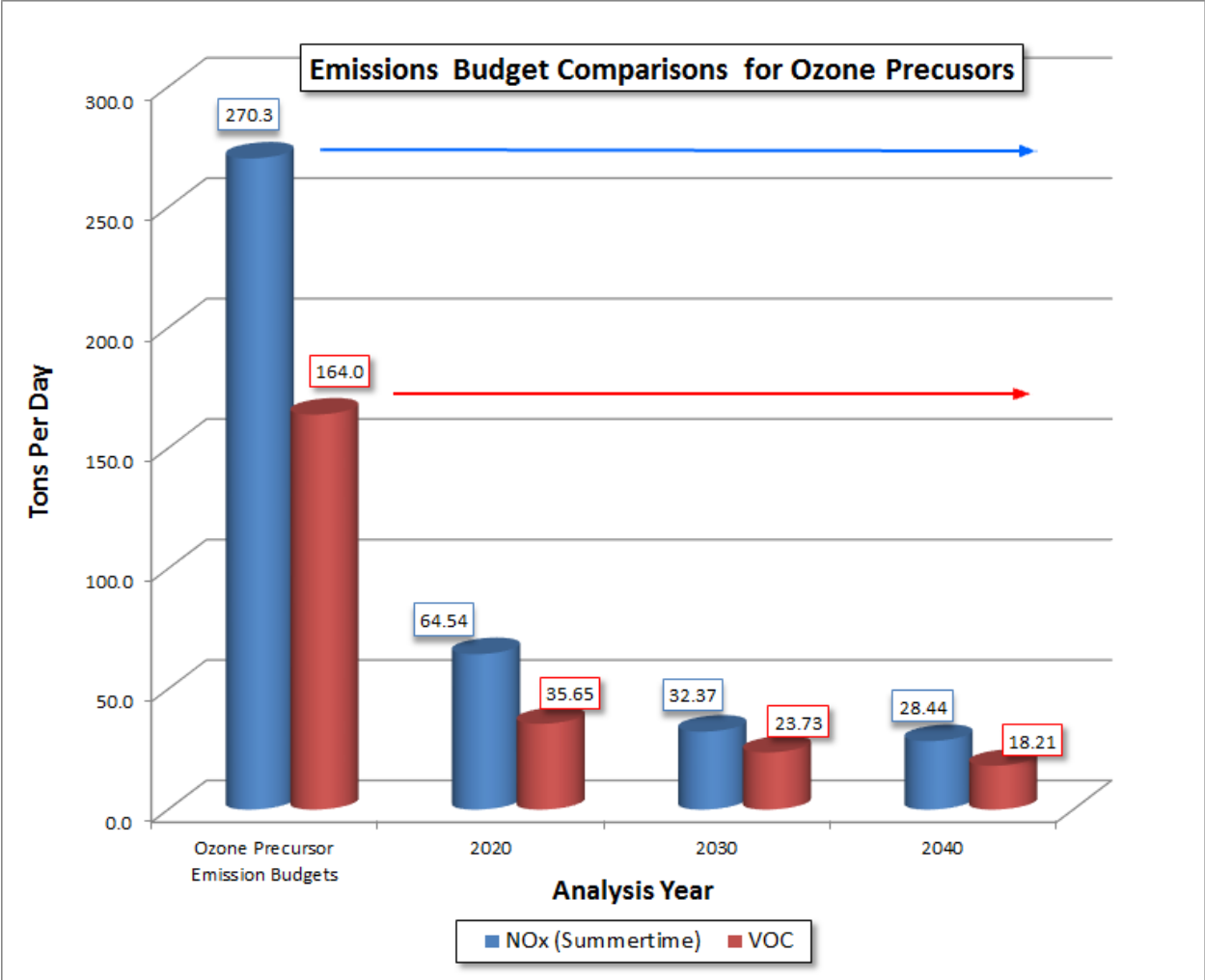


Figure 2: Emissions Budget Comparisons for Ozone Precursors



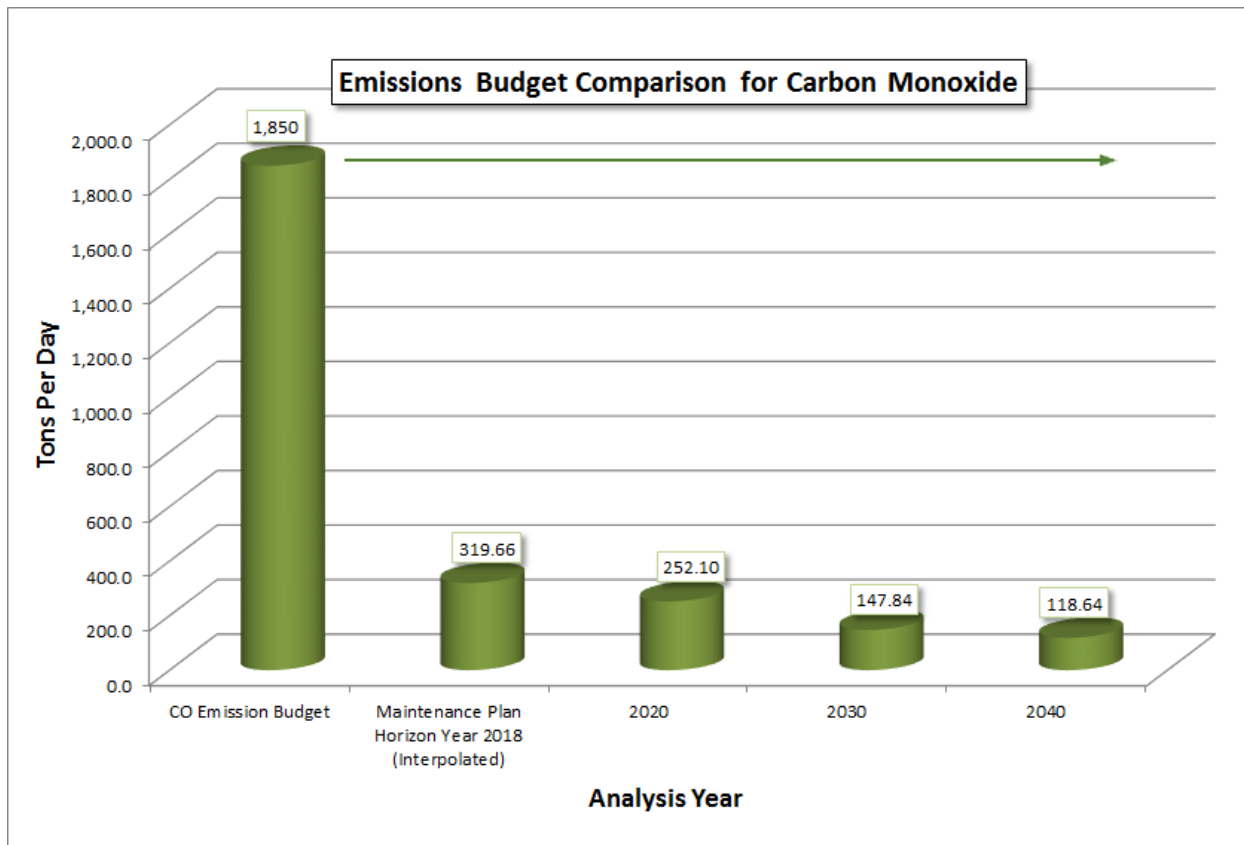


Figure 3: Emissions Budget Comparison for Carbon Monoxide

The estimated effectiveness of the various TCMs, given their current implementation status is shown in Table 5. TCMs A through E are fully implemented. They have achieved the required cumulative total emission reductions of 0.5 tons per day of VOC and 0.7 tons per day of NO<sub>x</sub> by 2006.

Table 5: Emission Reductions for Transportation Control Measures A – E in State Implementation Plan (tons/day)

TCM	VOC Emission Reductions through December 2006	NO <sub>x</sub> Emission Reductions through December 2006
TCM A: Regional Express Bus Program	0.20	0.20
TCM B: Bicycle/Pedestrian Program	0.04	0.03
TCM C: Transportation for Livable Communities	0.08	0.12
TCM D: Expansion of Freeway Service Patrol	0.10	0.25
TCM E: Transit Access to Airports	0.09	0.13
<b>Total Reductions</b>	<b>0.5</b>	<b>0.7</b>

## Baseline Year Emissions Test for PM<sub>2.5</sub>

For the baseline year test, emissions for both directly emitted PM<sub>2.5</sub> and NO<sub>x</sub> (as the precursor to PM<sub>2.5</sub> emissions) were compared to the analysis years of 2015, 2020, 2030 and 2040. The analysis used inputs for the winter season, during which the Bay Area experiences its highest levels of PM<sub>2.5</sub> concentrations.

The vehicle activity forecasts by analysis year for the Amended Plan Bay Area 2040 and Amended 2017 TIP (the “build” scenarios) are shown in Table 6. Travel data (from MTC’s *Travel Model One*) was input into CARB’s EMFAC2014 emissions model, thereby generating regional vehicle activity and emissions estimates.

Table 7 presents the results of the Baseline Year test for the PM<sub>2.5</sub> emissions and the NO<sub>x</sub> precursor for the 2006 24-hour PM<sub>2.5</sub> standard. Regional conformity analyses must be completed for directly emitted PM<sub>2.5</sub> (40 CFR 93.102(b)(1)). Directly emitted PM<sub>2.5</sub> includes exhaust, brake and tire wear emissions.

*Table 6: Vehicle Activity Forecasts for the PM<sub>2.5</sub> Baseline Year Test*

	2008	2020	2030	2040
	<i>Baseline Year</i>			
Vehicles in Use	4,631,001	4,693,975	5,501,960	6,226,935
Daily VMT (1000s)	154,100	167,203	182,480	195,507
Engine Starts	29,299,933	29,276,669	34,094,420	38,489,536

*Table 7: Emissions Comparison for the PM<sub>2.5</sub> Baseline Year Test*

	2008	2020	2030	2040
	<i>Baseline Year</i>			
PM <sub>2.5</sub>	8.26	4.52	4.44	4.60
NO <sub>x</sub>	194.58	60.00	27.11	23.06

<sup>1</sup> Emissions for wintertime only

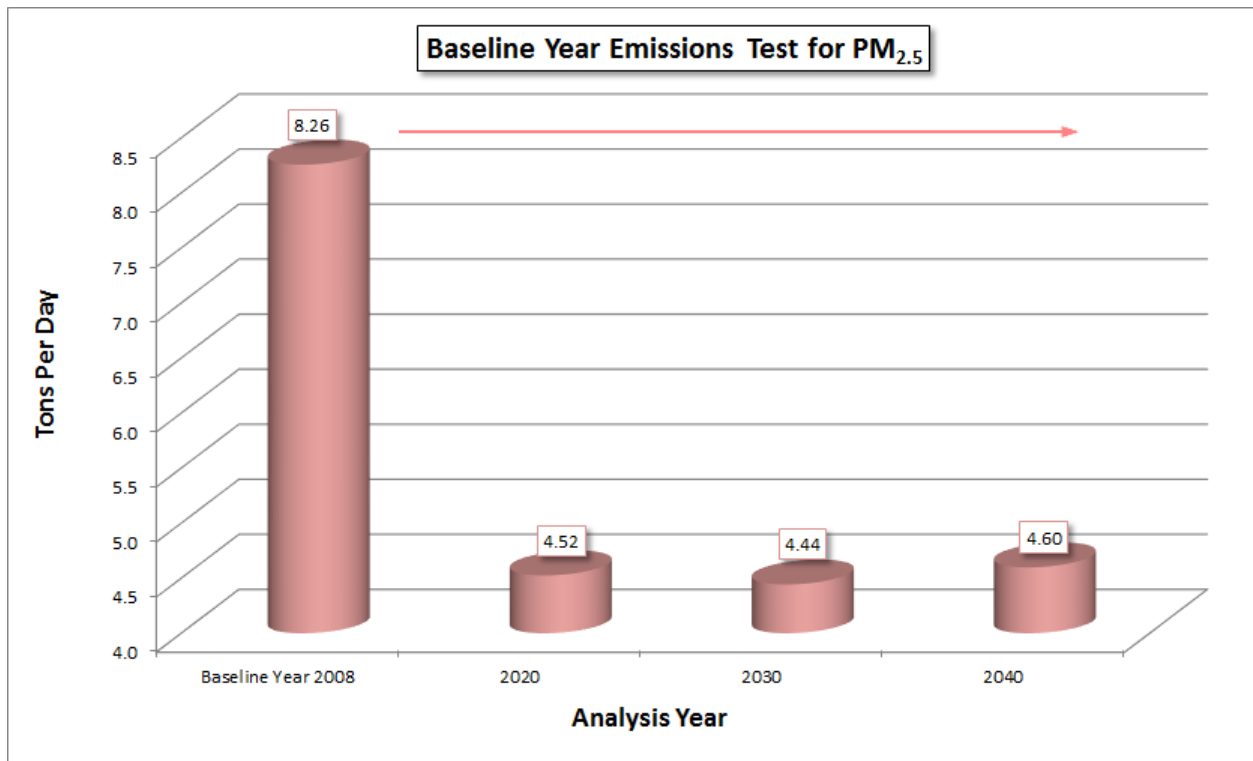


Figure 4: Baseline Year Emissions Test for PM<sub>2.5</sub>

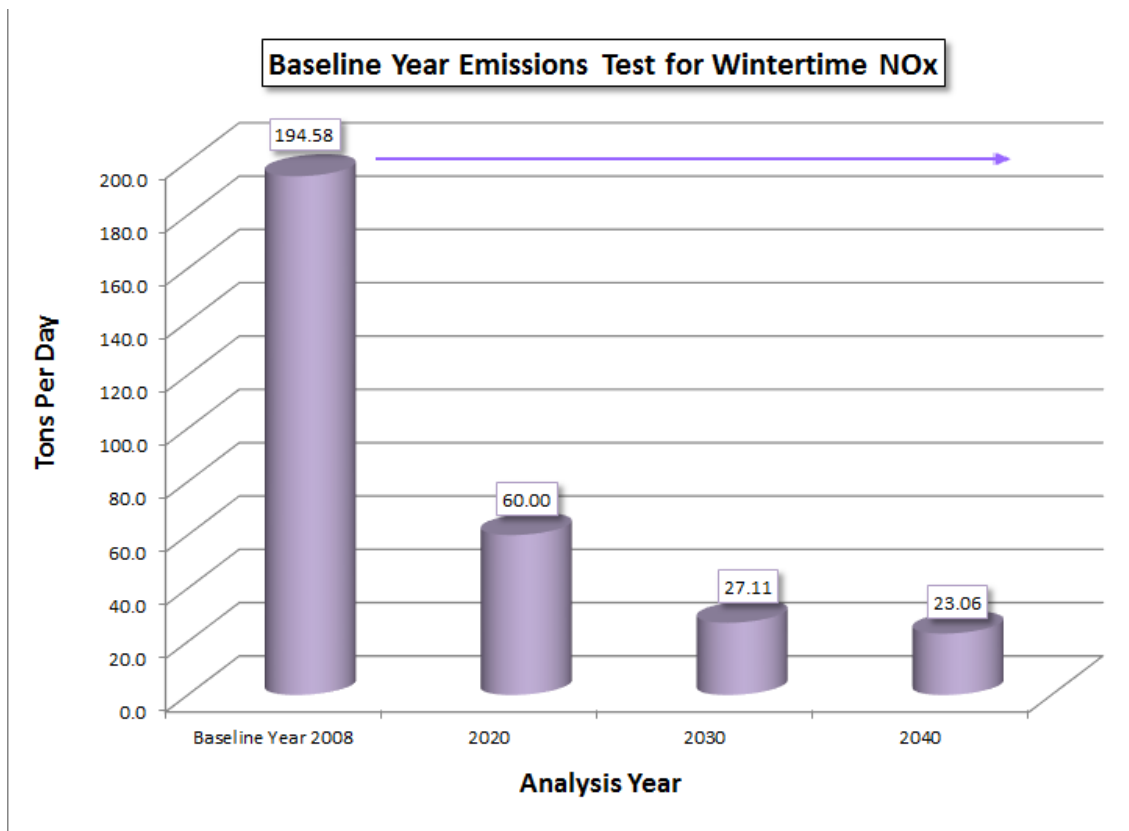


Figure 5: Baseline Year Emissions Test for Wintertime NO<sub>x</sub>

## IV. Transportation Control Measures

### History of Transportation Control Measures

TCMs are strategies to reduce vehicle emissions. They include such strategies as improved transit service and transit coordination, ridesharing services and new carpool lanes, signal timing, freeway incident management, increased gas taxes and bridge tolls to encourage use of alternative modes, etc. The original set of TCMs plus the five most recent TCMs (A-E) have been fully implemented. The TCMs were added over successive revisions to the SIP (see Table 8). For more information on TCMs 1-28, which are completed, see the *Transportation-Air Quality Conformity Analysis for the 2001 Regional Transportation Plan and FY 2001 Transportation Improvement Program Amendment 01-32 (February 2002)*. This report can be found in the MTC/ABAG Library.

- Twelve (12) ozone measures were originally listed in the 1982 Bay Area Air Quality Plan.
- In response to a 1990 lawsuit in the federal District Court, sixteen (16) additional TCMs were subsequently adopted by MTC in February 1990 as contingency measures to bring the region back on the “Reasonable Further Progress” (RFP) line. The Federal District order issued on May 11, 1992, found that these contingency TCMs were sufficient to bring the region back on the RFP track anticipated in the SIP. These measures became part of the SIP when EPA approved the 1994 Ozone Maintenance Plan.
- Two (2) transportation control measures from the 1982 Bay Area Air Quality Plan apply to Carbon Monoxide control strategies, for which the region is in attainment with the federal standard, and primarily targeted downtown San Jose (which had the most significant CO problem at that time.) MTC also adopted a set of TCM enhancements in November 1991 to eliminate a shortfall in regional carbon monoxide emissions identified in the District Court’s April 19, 1991, order. Carbon monoxide standards have been achieved primarily through the use of oxygenated/reformulated fuels in cars and with improvements in the Smog Check program.
- As part of EPA’s partial approval/partial disapproval of the 1999 Ozone Attainment Plan, four (4) TCMs were deleted from the ozone plan (but two of these remain in the Carbon Monoxide Maintenance Plan).
- Five (5) new TCMs were adopted as part of the new 2001 1-Hour Ozone Attainment Plan and were fully funded in the 2001 TIP and 2001 Regional Transportation Plan.

With respect to TCM 2 from the 1982 SIP, there was a protracted debate, leading to a citizens lawsuit in federal court, about the obligations associated with this TCM. On April 6, 2004, MTC prevailed in the U.S. Court of Appeals for the Ninth Circuit which concluded that TCM 2 does not impose any additional enforceable obligation on MTC to increase ridership on public transit ridership by 15% over 1982-83 levels by November 2006 (Bayview Hunters Point Community Advocates v. Metropolitan Transportation Com’n, (2004 WL 728247, 4 Cal. Daily Op. Serv. 2919, 2004 Daily Journal D.A.R. 4209, 9<sup>th</sup> Cir.(Cal.), Apr 06, 2004)). Thus TCM 2 has been resolved, and there are no further implementation issues to address in this TCM.

Table 8: Transportation Control Measure in the State Implementation Plan

TCM	Description
<b>Original TCMs from 1982 Bay Area Air Quality Plan</b>	
TCM 1	Reaffirm Commitment to 28 percent Transit Ridership Increase Between 1978 and 1983
TCM 2	Support Post-1983 Improvements in the Operators' Five-Year Plans and, After Consultation with the Operators, Adopt Ridership Increase Target for the Period 1983 through 1987
TCM 3	Seek to Expand and Improve Public Transit Beyond Committed Levels
TCM 4	High Occupancy Vehicle (HOV) Lanes and Ramp Metering
TCM 5	Support RIDES Efforts
TCM 6 <sup>1</sup>	Continue Efforts to Obtain Funding to Support Long Range Transit Improvements
TCM 7	Preferential Parking
TCM 8	Shared Use Park and Ride Lots
TCM 9	Expand Commute Alternatives Program
TCM 10	Information Program for Local Governments
TCM 11 <sup>2</sup>	Gasoline Conservation Awareness Program (GasCAP)
TCM 12 <sup>2</sup>	Santa Clara County Commuter Transportation Program
<b>Contingency Plan TCMs Adopted by MTC in February 1990 (MTC Resolution 2131)</b>	
TCM 13	Increase Bridge Tolls to \$1.00 on All Bridges
TCM 14	Bay Bridge Surcharge of \$1.00
TCM 15	Increase State Gas Tax by 9 Cents
TCM 16 <sup>1</sup>	Implement MTC Resolution 1876, Revised — New Rail Starts
TCM 17	Continue Post-Earthquake Transit Services
TCM 18	Sacramento-Bay Area Amtrak Service
TCM 19	Upgrade Caltrain Service
TCM 20	Regional HOV System Plan
TCM 21	Regional Transit Coordination
TCM 22	Expand Regional Transit Connection Ticket Distribution
TCM 23	Employer Audits
TCM 24	Expand Signal Timing Program to New Cities
TCM 25	Maintain Existing Signal Timing Programs
TCM 26	Incident Management on Bay Area Freeways
TCM 27	Update MTC Guidance on Development of Local TSM Programs
TCM 28	Local Transportation Systems Management (TSM) Initiatives
<b>New TCMs in 2001 Ozone Attainment Plan</b>	
TCM A	Regional Express Bus Program
TCM B	Bicycle/Pedestrian Program
TCM C	Transportation for Livable Communities
TCM D	Expansion of Freeway Service Patrol
TCM E	Transit Access to Airports

<sup>1</sup> Deleted by EPA action from ozone plan

<sup>2</sup> Deleted by EPA action from ozone plan, but retained in Carbon Monoxide Maintenance Plan.

Source: Bay Area Air Quality Management District, Metropolitan Transportation Commission, 2001.

## Status of Transportation Control Measures

TCMs A-E were approved into the SIP as part of EPA's Finding of Attainment for the San Francisco Bay Area (April 2004). The conformity analysis must demonstrate that TCMs are being implemented on schedule (40 CFR 93.113). TCMs A-E have specific implementation steps which are used to determine progress in advancing these TCMs (see Table 9). TCMs A-E are now fully implemented.

Table 9: Implementation Status of Federal Transportation Control Measures for Ozone (A – E)

#	TCM	Description	Ozone Attainment Plan Implementation Schedule	Implementation Status
A	Regional Express Bus Program	Program includes purchase of approximately 90 low emission buses to operate new or enhanced express bus services. Buses will meet all applicable CARB standards, and will include particulate traps or filters. MTC will approve \$40 million in funding to various transit operators for bus acquisition. Program assumes transit operators can sustain service for a five-year period. Actual emission reductions will be determined based on routes selected by MTC.	FY 2003. Complete once \$40 million in funding pursuant to Government Code Section 14556.40 is approved by the California Transportation Commission and obligated by bus operators	\$40 million for this program was allocated by the CTC in August 2001. The participating transit operators have ordered and received a total of 94 buses. All buses are currently in operations.  TCM A is fully implemented.
B	Bicycle / Pedestrian Program	Fund high priority projects in countywide plans consistent with TDA funding availability. MTC would fund only projects that are exempt from CEQA, have no significant environmental impacts, or adequately mitigate any adverse environmental impacts. Actual emission reductions will be determined based on the projects funded.	FY 2004 – 2006. Complete once \$15 million in TDA Article 3 is allocated by MTC.	MTC allocated over \$20 million in TDA Article 3 funds during FY2004, FY2005, and FY2006.  TCM B is fully implemented.
C	Transportation for Livable Communities (TLC)	Program provides planning grants, technical assistance, and capital grants to help cities and nonprofit agencies link transportation projects with community plans. MTC would fund only projects that are exempt from CEQA, have no significant environmental impacts, or adequately mitigate any adverse environmental impacts. Actual emission	FY 2004 – 2006. Complete once \$27 million in TLC grant funding is approved by MTC	In December 2003, the Commission reaffirmed its commitment of \$27 million annually over 25 years for the TLC program as part of Phase 1 of the Transportation 2030 Plan.  MTC and the county Congestion Management Agencies (CMAs) have approved over \$27 million in TLC grant funding by FY 2006. In November 2004, MTC approved \$500,000 for regional TLC

reductions will be based on the projects funded.

Community Design Planning Program, and in December 2004, MTC approved \$18.4 million in TLC funding for the regional TLC Capital program. As of December 2006, CMAs in Alameda, Marin and Sonoma counties approved an additional \$12.4 million in their county-level TLC Capital programs for a regional total of \$31.2 million.

TCM C is fully implemented.

D	Additional Freeway Service Patrol	Operation of 55 lane miles of new roving tow truck patrols beyond routes which existed in 2000. TCM commitment would be satisfied by any combination for routes adding 55 miles. Tow trucks used in service are new vehicles meeting all applicable CARB standards.	FY 2001. Complete by maintaining increase in FSP mileage through December 2006	FSP continues to maintain the operation of the 55 lane miles of new roving tow truck coverage. This level of service was maintained through 2006. FSP continues to expand its service areas.
TCM D is fully implemented.				
E	Transit Access to Airports	Take credit for emission reductions from air passengers who use BART to SFO, as these reductions are not included in the Baseline.	BART – SFO service to start in FY 2003. Complete by maintaining service through December 2006	Service began June 2003. Service adjustments have been made since start of revenue service. The BART to SFO service has been maintained through 2006 and is continued.
TCM E is fully implemented.				

## **V. Response to Public Comments**

In accordance with MTC's public participation plan, the draft conformity analysis and draft amendments to Plan Bay Area 2040 and the 2017 TIP were released for a 30-day public review and comment period, beginning January 22, 2018, and closing February 21, 2018.

A summary of the comments and responses are provided in Attachment B of Item 5 on the March 9, 2018, joint meeting of the MTC Planning Committee with the ABAG Administrative Committee.



## VI. Conformity Findings

Based on the analysis, the following conformity findings are made:

- This conformity assessment was conducted consistent with EPA's transportation conformity regulations and with the Bay Area Air Quality Conformity Protocol adopted by MTC as Resolution No. 4274.
- The Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program, as amended by Revisions Number 2017-28, provide for implementation of TCMs pursuant to the following federal regulation:
  - (1) *An examination of the specific steps and funding source(s) needed to fully implement each TCM indicates that TCMs which are eligible for funding under title 23 U.S.C. or the Federal Transit Laws are on or ahead of the schedule established in the applicable implementation plan, or, if such TCMs are behind the schedule established in the applicable implementation plan, the MPO and DOT have determined that past obstacles to implementation of the TCMs have been identified and have been or are being overcome, and that all State and local agencies with influence over approvals or funding for TCMs are given maximum priority to approval or funding to TCMs over other projects within their control, including projects in locations outside the non-attainment or maintenance area.*
  - (2) *If TCMs in the applicable implementation plan have previously been programmed for Federal funding but the funds have not been obligated and the TCMs are behind the schedule in the implementation plan, then the TIP cannot be found to conform if the funds intended for those TCMs are reallocated to projects in the TIP other than TCMs, or if there are no other TCMs in the TIP, if the funds are reallocated to projects in the TIP other than projects which are eligible for Federal funding intended for air quality improvements projects, e.g., the Congestion Mitigation and Air Quality Improvement Program.*
  - (3) *Nothing in the TIP may interfere with the implementation of any TCM in the applicable implementation plan. (40 CFR Part 93.113(c)).*
- For the two ground-level ozone precursors (VOC and NO<sub>x</sub>), motor vehicle emissions in the Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program, as amended by Revisions Number 2017-28 are lower than the applicable motor vehicle emission budgets for the 2008 national 8- hour ozone standard.
- For carbon monoxide, motor vehicle emissions in the Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program, as amended by Revisions Number 2017-28 are lower than the transportation conformity budget in the SIP.
- For PM<sub>2.5</sub> and NO<sub>x</sub>, the Baseline Year test shows that the motor vehicle emissions are lower under the Build scenario for the various analysis years when compared to the baseline year emissions scenario.

**Appendix A**  
**List of Projects in Amended Plan Bay Area 2040**

List of Amended Plan Bay Area 2040 Transportation Projects/Programs

RTPID	County/ Sponsor	Title	Description	Complete and Operational By:			Included in the Model?	Referenced in the 2017 TIP
				2020	2030	2040		
17-01-0001	Alameda	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps, including but not limited to projects that would implement these components on the following facilities: Alameda Point Trail, Bay Trail Connections and Gap Closures, East Bay Greenway, Iron Horse Trail Crossing, Union City Boulevard, Pierce Street, Shattuck Avenue, 7th Street Transit Village, Lake Merritt BART, Lakeside Complete Streets, Peralta and MLK Boulevard					Yes
17-01-0002	Alameda	Climate Program: TDM and Emission Reduction Technology	Projects in this category implement strategies and programs that reduce emissions, encourage alternative transportation modes, and manage transportation demand including but not limited to projects such as TDM program implementation, parking management, local area shuttle and paratransit services					Yes
17-01-0003	Alameda	County Safety, Security and Other	Projects in this category address safety, security and other needs, including but not limited to projects such as Central Avenue Overpass, BART Security Program					Yes
17-01-0004	Alameda	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements, including but not limited to projects such as Grimmer Boulevard Greenway, Telegraph Avenue Complete Streets, West Grand Avenue Complete Streets, Hearst Avenue Complete Streets					Yes
17-01-0005	Alameda	PDA Planning	This category includes planning studies supporting the region's PDA framework and connecting transportation and land use					
17-01-0006	Alameda	Minor Roadway Expansions	This category includes roadway capacity increasing projects (new roadways or widening/extensions of existing roadways) on minor roads such as Clement Avenue, Mariner Square, Mitchell Street, Scarlett Drive, Stoneridge Drive, Kato Road					Yes
17-01-0007	Alameda	Roadway Operations	This category includes projects that improve roadway, intersection, or interchange operations, ITS, as well as other transportation system management					Yes
17-01-0008	Alameda	Minor Transit Improvements	This category includes minor projects that improve or complement existing transit operations including but not limited to projects such as rapid bus service in Alameda Point, the Bernal Park and Ride, Line 51 project completion and capital replacement, Newark Transit Station improvements, and Dumbarton Corridor Area Transportation Improvements					Yes
17-01-0009	Alameda	New Alameda Point Ferry Terminal	Provide for new ferry terminal at Seaplane Lagoon		Yes	Yes	Yes	
17-01-0014	Alameda	I-680 Southbound Express Lanes (SR-237 to SR-84) Upgrades	To upgrade the existing toll system for the I-680 southbound express lane project. Additionally, it would also result in upgrades to the existing pavement for a near continuous access express lanes facility.					
17-01-0015	Alameda	7th Street Grade Separation East	Project replaces the substandard 7th St. roadway & pedestrian underpass at the north end of Railport Oakland Intermodal Yard (RO-IY). The new, depressed roadway allows for new rail crossings to improve connections to the future OHIT IV and project completes a missing segment of the Bay Trail.					Yes
17-01-0016	Alameda	Oakland Army Base transportation infrastructure improvements	Constructs public improvements for trade, logistics and ancillary maritime services that promote cleaner modes of transportation, efficient goods movement, congestion relief on countywide freight corridors, new jobs, and fulfills a mandate to reduce truck trips through the West Oakland community					
17-01-0017	Alameda	Outer Harbor Intermodal Terminal (OHIT) Phases 2 and 3	OHIT consists of 3 phases. Phase 1, for the lead, support and manifest tracks, is under construction. Phase 2 has two intermodal tracks; Phase 3 has six intermodal tracks and electric cranes. The Project enables a shift of cargo from truck to rail to maximize the Port's operational potential.					Yes
17-01-0018	Alameda	7th Street Grade Separation West	The Project creates a new elevated intersection at 7th & Maritime Streets, and provides new rail access between the Oakland Army Base and the Oakland International Gateway. The Project shifts cargo from truck to rail, reduces truck congestion and emissions, and improves public access.					Yes
17-01-0019	Alameda	I-580 Integrated Corridor Mobility (ICM)	This project implements multiple traffic operation systems and strategies that will address the challenges of traffic congestion in the corridor. The project will install new and upgrade existing corridor management elements along Interstate 580. Full ICM depends on extending North Canyons Parkway to Dublin Boulevard (RTPID 17-01-0048)		Yes	Yes	Yes	
17-01-0020	Alameda	SR-262 Mission Boulevard Cross Connector Improvements	This project will increase mobility between I-680 and I-880 by widening Mission to 3 lanes in each direction throughout the I-680 interchange, rebuild the NB and SB 680 on and off ramps, and potentially grade separate Mission Blvd. from Mohave Dr. and Warm Springs Blvd.		Yes	Yes	Yes	Yes
17-01-0021	Alameda	I-880 Whipple Road Interchange Improvements	Full interchange improvements at Whipple Road/I-880, including northbound off-ramp, surface street improvements and realignment		Yes	Yes	Yes	Yes
17-01-0022	Alameda	Outer Harbor Turning Basin	The project will upgrade the existing Outer Harbor Turning Basin (OHTB) at the Port of Oakland from 1,650' to 1,920' in diameter to handle ships up to 1,320' long.					
17-01-0023	Alameda	I-880 Industrial Parkway Interchange Reconstruction	Reconstruct the I-880/Industrial Parkway interchange to provide a northbound off-ramp and a southbound HOV bypass lane on the southbound loop off-ramp. Reconstruct the bridge over I-880.		Yes	Yes	Yes	Yes
17-01-0024	Alameda	I-880 A Street Interchange Reconstruction	Reconstruct interchange to widen A Street from 5 lanes to 6 lanes and add bike lanes, and provide additional lane capacity for potential future freeway widening. Project also involves modifying signals and reconfiguring intersections to improve truck-turning maneuvers.		Yes	Yes	Yes	Yes
17-01-0025	Alameda	Oakland International Airport Perimeter Dike	This project will upgrade and improve the 4.5 mile long dike protecting OAK, terminal and other facilities, roadways, transit services & trails connecting Alameda and San Leandro. Includes seismic stabilization, FEMA compliance, and protection against climate change and sea level rise.					

List of Amended Plan Bay Area 2040 Transportation Projects/Programs

RTPID	County/ Sponsor	Title	Description	Complete and Operational By:			Included in the Model?	Referenced in the 2017 TIP
				2020	2030	2040		
17-01-0026	Alameda	Minor Freight Improvements Programmatic	This program includes projects that improve freight operations and reduce impacts of freight activity. This includes but is not limited to railroad quiet zones, multimodal safety projects at crossings, freight corridor upgrades, ITS improvements, terminal lighting, seismic monitoring, rail connections between Oakland and Niles Subdivisions, truck parking facilities, rail platforms, and other projects that would implement the Alameda CTC Goods Movement plan.					Yes
17-01-0027	Alameda	Middle Harbor Road Improvements	This project identifies & implements solutions to the traffic circulation issues on Middle Harbor Rd. Solutions may include dedicated queue or turn lanes, signalization, and relocation or reconfiguration of terminal gates and recommendations for Adeline St. Bridge reconfiguration as appropriate.					
17-01-0028	Alameda	I-580/I-680 Interchange: Project Development and Phase 1 Short-term Operational Improvements	Improve capacity, operations and safety at the interchange, primarily in the westbound direction approaching the interchange. This project includes the Phase 1 short-term operational improvements.		Yes	Yes	Yes	Yes
17-01-0029	Alameda	SR-84/I-680 Interchange Improvements and SR-84 Widening	Construct interchange improvements for the Route 84/I-680 Interchange, widen Route 84 from Pigeon Pass to I-680 and construct aux lanes on I-680 between Andrade and Route 84.		Yes	Yes	Yes	Yes
17-01-0030	Alameda	I-880 Broadway/Jackson Interchange Improvements	The project proposes to improve connectivity between I-880/I-980 and Alameda and Oakland. Improvements include reconfiguration of existing ramps, demolition of existing ones, and construction of new ramps.		Yes	Yes	Yes	Yes
17-01-0031	Alameda	I-880 at 23rd/29th Avenue Interchange Improvements	Provide improvements to NB I-880 at 23rd and 29th Avenue interchange by improving the freeway on- and off-ramp geometrics, replacing the overcrossings, and modifying local streets, landscape enhancement, and construction of a soundwall.	Yes	Yes	Yes	Yes	Yes
17-01-0032	Alameda	SR-84 Widening (Ruby Hill Drive to Concannon Boulevard)	The Route Expressway - South Segment involves widening a 2.4 mile section of SR 84 (Isabel Ave) from Ruby Hill Drive to Concannon Boulevard from two lanes to four lanes.	Yes	Yes	Yes	Yes	Yes
17-01-0033	Alameda	I-580 Vasco Road Interchange Improvements	Modify I-580/Vasco Rd interchange. Widen I-580 overcrossing and add new loop ramp in southwest quadrant. Includes widening Vasco Road to 8 lanes between Northfront Road and Las Positas Road and other local roadway improvements.		Yes	Yes	Yes	
17-01-0034	Alameda	I-580 Greenville Road Interchange Improvements	Construct a new interchange at I-580/Greenville Road to replace the existing interchange. Project will include widening the undercrossing to provide six lanes, and constructing ramps to achieve a modified partial cloverleaf interchange design.		Yes	Yes	Yes	
17-01-0035	Alameda	I-580 First Street Interchange Improvements	Reconstruct and modify the I-580/First Street interchange into partial cloverleaf design with 6-lanes on First Street over I-580.		Yes	Yes	Yes	
17-01-0036	Alameda	SR-92/Clawiter Road/Whitesell Street Interchange Improvements	The project would reconstruct the SR-92/Clawiter Rd interchange to create the SR-92/Whitesell St interchange, addressing truck traffic access needs by: reconfiguring Clawiter/SR 92 interchange, creating new access to SR 92 at Whitesell St, and consolidating access for these two local roads.		Yes	Yes	Yes	Yes
17-01-0037	Alameda	Ashby I-80 Interchange with Bicycle and Pedestrian Ramps	Reconstruct the Ashby Avenue interchange, including construction of a new bridge to replace existing bridges, a roundabout interchange, and bicycle/pedestrian access over the I-80 freeway at the Ashby-Shellmound interchange.					Yes
17-01-0038	Alameda	I-580 Interchange Improvement at Hacienda/Fallon Road - Phase 2	1-580/Fallon Rd I/C Improvements (Phase 2): Reconstruct overcrossing to add lanes I-580 Hacienda Dr I/C Improvements: Reconstruct overcrossing to add lanes		Yes	Yes	Yes	Yes
17-01-0039	Alameda	I-580 SR-84/Isabel Interchange Improvements Phase 2	Complete ultimate improvements at I-580/Isabel/State Route 84 Interchange to provide 6-lanes over I-580 at the Isabel/State Route 84 Interchange and 4-lanes over I-580 at the Portola Avenue flyover.		Yes	Yes	Yes	
17-01-0040	Alameda	I-80 Gilman Street Interchange Improvements	The proposed project is located in northwest Berkeley and will reconfigure the I-80/Gilman interchange. The limits for the freeway and ramp traffic operations would include I-80 from east of Buchanan Street to west of University Avenue.					Yes
17-01-0041	Alameda	I-880 Winton Avenue Interchange Improvements	This project proposes to modify the existing Winton Avenue/I-880 cloverleaf interchange to a partial cloverleaf interchange, implement Complete Street per Caltrans HDM and provide direct access to Southland Mall.		Yes	Yes	Yes	Yes
17-01-0042	Alameda	I-680 Overcrossing Widening and Improvements (at Stoneridge Drive)	Widen Stoneridge Drive overcrossing at I-680 constructing third westbound lane		Yes	Yes	Yes	
17-01-0043	Alameda	42nd Ave & High St Access Improvement at I-880 On/Off Ramp	Adjacent I-880/High St, project will widen and extend existing local roads; improve vehicles level of service, pedestrian & ADA accessibility, access to ramps/Alameda; expand the region's bike route; eliminate circuitous traffic and congestion near I-880, promote redevelopment in the Estuary Area.	Yes	Yes	Yes	Yes	Yes
17-01-0044	Alameda	I-680 Sunol Interchange Modification	Signalize Sunol @ I-680 Interchange ramps and widen Southbound on ramp	Yes	Yes	Yes	Yes	
17-01-0045	Alameda	Santa Rita Road I-580 Overcrossing Widening	Widen Southbound Santa Rita Road overcrossing at I-580 constructing third southbound through lane at Pimlico Drive and second on ramp lane to I-580 eastbound.		Yes	Yes	Yes	
17-01-0046	Alameda	Coliseum City Transit Hub	The project is a consolidated multi-modal transit hub at the existing Coliseum BART station and Amtrak Station for patrons of the future Coliseum City Transit-Oriented Development. Includes pedestrian concourse and replacement for 1000 BART parking spaces which may be shared with other uses.					
17-01-0047	Alameda	I-880 to Mission Boulevard East-West Connector	Improved east-west connection between I-880 and Route 238 (Mission Blvd.) comprised of a combination of new roadways along preserved ROW and improvements to existing roadways and intersections along Decoto Road, Fremont Boulevard, Paseo Padre Parkway, Alvarado-Niles Road and Mission Boulevard.		Yes	Yes	Yes	Yes
17-01-0048	Alameda	Dublin Boulevard - North Canyons Parkway Extension	This project will update the currently planned project by incorporating multimodal travel, and construct the street extension to connect Dublin Blvd. in Dublin with North Canyons Parkway in Livermore at Doolan Road. The existing RTP project lacks the current State, regional, and local priorities. This project was carried forward from RTPIDs 21473, 240392.		Yes	Yes	Yes	Yes
17-01-0049	Alameda	Fruitvale Avenue (Miller Sweeney) Lifeline Bridge Project	Replace the existing vehicular bridge with one structure that can provide the only Lifeline access from Alameda. Provide dedicated transit lanes, bike lanes, median and sidewalks.					

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17-01-0050	Alameda	SR-84 Mowry Avenue Widening (Peralta Blvd to Mission Blvd)	Widen Mowry Ave from Peralta Blvd to Mission Blvd (State Route 84) from two to four lanes and install bike lanes and sidewalks on both sides of the street.		Yes	Yes	Yes	
17-01-0051	Alameda	Tassajara Road Widening from N. Dublin Ranch Drive to City Limit	This project will widen Tassajara Road from existing 2 lanes to 4 lanes between N/ Dublin Ranch Drive to City limit with C C County. It would add new bike lanes, construct/upgrade bus stops, and add missing sidewalks, ADA ramps, curb and gutter. Traffic signals will be upgraded.		Yes	Yes	Yes	
17-01-0052	Alameda	Auto Mall Parkway Widening and Improvements	Widen Auto Mall Parkway from four lanes to six lanes between I880 and I680 including intersection improvements and widening of the Auto Mall bridge over UPRR.		Yes	Yes	Yes	
17-01-0053	Alameda	Dougherty Road Widening	This project will complete 1.83 mile of widening of Dougherty Rd. from 4 lanes to 6 lanes from Dublin Blvd. to the county line. Some of the improvements include; class II bike lanes, landscaped median islands, street lighting, traffic signal modifications, and 1.4 miles of Bike/Ped. Class I trail.	Yes	Yes	Yes	Yes	Yes
17-01-0054	Alameda	Union City Boulevard Widening (Whipple to City Limit)	Widen Union City Boulevard to three travel lanes in each direction from Whipple Road to the City limits with Hayward.		Yes	Yes	Yes	
17-01-0055	Alameda	SR-84 Peralta Boulevard Widening (Fremont Blvd to Mowry Ave)	This project will widen Peralta Blvd (State Route 84) to four lanes with continuous bike lanes and sidewalks on both sides of the road from Fremont Blvd to Mowry Ave.		Yes	Yes	Yes	
17-01-0056	Alameda	Thornton Avenue Widening (Gateway Boulevard to Hickory Street)	The project will widen this undivided two-lane section of Thornton Avenue to a four-lane divided arterial street.		Yes	Yes	Yes	
17-01-0057	Alameda	Dublin Boulevard Widening - Sierra Court to Dublin Court	This project proposes to widen Dublin Boulevard from Sierra Court to Dublin Court in the westbound direction from two to three lanes in the City of Dublin. This project also includes the construction of Class II bike lanes.	Yes	Yes	Yes	Yes	Yes
17-01-0058	Alameda	Irvington BART Station	Construct a new BART station in Irvington PDA in Fremont on Osgood Road near Washington Boulevard as called for in the 2014 Alameda County Transportation Expenditure Plan		Yes	Yes	Yes	
17-01-0059	Alameda	Union City Intermodal Station Phase 4	Phase 4 is an at grade intermodal station to serve both AMTRAK, ACE and future Dumbarton Rail with elevated tracks and passengers platforms.					
17-01-0060	Alameda	East Bay BRT	A 9.5 mile BRT line from downtown Oakland to the San Leandro BART station on International Blvd and East 14th St. with 80% dedicated lanes; 27 new hybrid buses; 34 level-boarding platform stations; real time arrival information; and transit signal priority. It also includes parking mitigations.	Yes	Yes	Yes	Yes	Yes
17-01-0061	Alameda	Ralph Appezato Memorial Parkway BRT	To create BRT infrastructure between Webster Street and the Alameda Point PDA, connecting future residents and workers on the former base (as well as existing Alameda residents) to downtown Oakland and BART via Webster Street Tube. The BRT's Alameda term	Yes	Yes	Yes	Yes	

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17-01-0062	Alameda	BART to Livermore/ACE Project Development and Construction Reserve	BART is preparing a project-level Environmental Impact Report evaluating five alternatives for the BART to Livermore Extension Project. BART extension to Isabel Avenue, DMU/EMU to Isabel Avenue, Express Bus/BRT, Enhanced Bus, and No-build.					Yes
17-01-0063	Alameda	Broadway Shuttle Expansion	Planning and environmental analysis of the Broadway Shuttle Expansion project which seeks to extend the shuttle route and service hours, and upgrade the project to an Enhanced Bus or Electric Streetcar line to enhance transit circulation and mobility, and catalyze mixed-use TOD and economic develop					
17-01-0064	Alameda	Additional Local Road Preservation/Rehab	Additional funding for local streets and roads maintenance in Oakland from the City of Oakland Measure KK (Nov. 2016 ballot measure)					
17-02-0001	Contra Costa	Access and Mobility Program	This category includes projects that improve access and mobility for people with disabilities, low-income residents, and seniors, such as West County Low-Income School Bus Program, paratransit through Contra Costa County, information and outreach projects, dial-a-ride, guaranteed ride home, non-operational transit capital enhancements (i.e. bus shelters), local shuttles, lighting and security projects, and discounted transit passes.					Yes
17-02-0002	Contra Costa	Innovative Transportation Technology	This category includes projects that would implement technological advances for transportation such as connected vehicle, autonomous vehicle, and other innovations.					
17-02-0003	Contra Costa	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps, such as Lamorinda Bicycle and Pedestrian Program, Wildcat Creek Trail, and Contra Costa County's Safe Routes to School Program					Yes
17-02-0004	Contra Costa	County Safety, Security and Other	Projects in this category address safety, security and other needs such as Lone Tree Way Undercrossing, Marsh Creek Road Curve Realignment, Cutting/Carlson grade crossing improvements, San Pablo Avenue overcrossing, Vasco Road safety improvement, and Viera Avenue Realignment					Yes
17-02-0005	Contra Costa	Multimodal Streetscape	Projects in this category implement complete streets improvements to roadways throughout Contra Costa County, such as on San Pablo Avenue, near the Del Norte and Concord BART stations, and in PDAs.					Yes
17-02-0007	Contra Costa	Minor Roadway Expansions	Funds future widening and extensions of non-regionally significant roadways such as John Muir Parkway, Slatten Ranch Road, James Donlon Blvd, Hillcrest Avenue, Sand Creek Road, San Jose Avenue and other roads throughout Contra Costa County					Yes
17-02-0008	Contra Costa	Roadway Operations	Projects in this category improve roadway operations through technology and management systems on roads throughout Contra Costa County such as Clayton Road, Treat Boulevard, Contra Costa Boulevard, St. Mary's Road, Alhambra Avenue, Mt. Diablo Boulevard, roads in downtown Lafayette and Gateway/Lamorinda Traffic Program					Yes
17-02-0009	Contra Costa	Minor Transit Improvements	Projects in this category improve or complement existing transit operations through rolling stock, park and ride lots, express bus service expansion, technology upgrades, bus transit preferential measures, eBART support service and school bus programs					Yes
17-02-0010	Contra Costa	SR4 Integrated Corridor Mobility	SR4 Integrated Corridor Mobility from I-80 to SR160, including adaptive ramp metering, advanced traveler information, arterial management system, freeway management system, connected vehicle applications		Yes	Yes	Yes	Yes
17-02-0011	Contra Costa	I-80 ICM Project Operations and Maintenance	I-80 Integrated Corridor Mobility (ICM) Project Operations and Management - Local Portion - Maintenance in Contra Costa; This project will implement Adaptive Ramp Metering (ARM) and Active Traffic Management (ATM) strategies will be employed to reduction congestion and provide incident management capabilities.	Yes	Yes	Yes	Yes	Yes
17-02-0012	Contra Costa	I-680 Northbound Managed Lane Completion through 680/24 and Operational Improvements between N. Main and Treat Blvd	I-680 carpool lane completion thru 680/24 interchange and operational Improvements between N. Main and Treat Blvd		Yes	Yes	Yes	Yes
17-02-0013	Contra Costa	I-680 Northbound HOV lane extension between N. Main and SR-242	Provides an HOV lane in the northbound direction between N. Main and SR242, which will shorten a gap in the HOV network which currently exists between Livorna and SR242.		Yes	Yes	Yes	Yes
17-02-0014	Contra Costa	Kirker Pass Road Northbound Truck Climbing Lane, Clearbrook Drive to Crest of Kirker Pass Road	This project will add NB truck climbing lane from Clearbrook Drive in the City of Concord to a point 1,000 beyond the crest of Kirker Pass Road. The addition will include a 12-foot dedicated truck climbing lane and a Class II bike lane within an 8-foot paved shoulder.	Yes	Yes	Yes	Yes	Yes
17-02-0015	Contra Costa	Vasco Road Byron Highway Connector Road	New road between Vasco Road and Byron Highway that increases access to the Byron Airport. Road will be 1 lane per direction with at grade intersections at both end. Project is formerly named: SR-239: Airport Connector			Yes	Yes	Yes
17-02-0016	Contra Costa	Construct SR 242/Clayton Road on and off-ramps	Construct on and off-ramp for SR 242 at Clayton Road		Yes	Yes	Yes	Yes
17-02-0017	Contra Costa	SR-239 Feasibility Studies and Project Development	Environmental and design study to construct a new State Route connecting SR4 to Interstates 205/580 near Tracy. Route alignment is not yet defined.					Yes
17-02-0019	Contra Costa	I-680/SR4 Interchange Improvements - Phases 1-3	Improve I-680/SR4 interchange by implementing: direct connectors for NB I-680 to WB SR4 (Ph1) & WB SR4 to SB I-680 (Ph2), & widening SR4 btw SR242 & Morello from 2 to 3 lanes per direction (Ph3). The 2-lane direct connectors will replace a single lane loop ramp & a single lane diagonal ramp, respectively.		Yes	Yes	Yes	Yes
17-02-0020	Contra Costa	SR-4 Operational Improvements - Initial Phases	Various operational improvements on SR-4 between SR-242 and Bailey Road, including adding auxiliary lanes in strategic locations along this corridor		Yes	Yes	Yes	Yes
17-02-0021	Contra Costa	Reconstruct I-80/San Pablo Dam Road Interchange	Phase 1 includes relocating El Portal Dr. on-ramp to WB I-80 to the north, extending the auxiliary lane along WB I-80 between San Pablo Dam Rd off-ramp and El Portal Dr on-ramp, and reconstructing the Riverside Ave pedestrian overcrossing. Phase 2 includes modifications to McBryde and SPDR I/C & Includes provisions for bicyclists and pedestrians on San Pablo Dam Rd.		Yes	Yes	Yes	Yes

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17-02-0022	Contra Costa	I-680 Southbound HOV Lane between N. Main and Livorna	Through the I-680/SR 24 Interchange, this project adds an HOV lane on I-680 SB, through minor widening and restriping to narrower lanes. Existing number of mixed flow lanes will be kept the same.	Yes	Yes	Yes	Yes	Yes
17-02-0023	Contra Costa	State Route 4 Widening and Balfour Road IC Construction	Construct SR4 Bypass interchange at Balfour Rd and Widen SR4 from 2 to 4 lanes.	Yes	Yes	Yes	Yes	Yes
17-02-0024	Contra Costa	I-80/SR-4 Interchange Improvements - New Eastbound Willow Avenue Ramps	New SR4 eastbound offramp and onramp at Willow north of Palm Avenue and removal of Willow Hook Ramps		Yes	Yes	Yes	
17-02-0026	Contra Costa	I-80/Central Avenue Interchange Modification - Phases 1 & 2	Construct new signals and changeable message signs to redirect I-80 westbound on-ramp traffic during weekend peak periods to I-580, connect Pierce Street to San Mateo Street to relocate the traffic signal at Pierce Street/Central Avenue to the San Mateo Street/Central Avenue intersection, and construct other necessary improvements.		Yes	Yes	Yes	Yes
17-02-0027	Contra Costa	Construct Additional Auxiliary Lanes on I-680 - South of I-680/SR-24 Interchange	Additional I-680 NB and SB auxiliary lanes south of I-680/SR 24 Interchange, including the following locations: Alcosta Road to Bollinger Canyon Road; El Cerro Blvd to El Pintado Road; El Pintado Road to Stone Valley Road; Stone Valley Road to Livorna Road; and Livorna Road to Rudgear Road.	Yes	Yes	Yes	Yes	
17-02-0028	Contra Costa	I-80 Eastbound and Westbound Pinole Valley Road On-ramp Improvement	Improve conditions for merging onto the I-80 mainline from the eastbound and westbound Pinole Valley Road on-ramps to address vehicles accelerating uphill after stopping at ramp meter.		Yes	Yes	Yes	
17-02-0029	Contra Costa	Eastbound SR-24: Construct Auxiliary Lane, Wilder Road to Camino Pablo	Construct auxiliary lane along eastbound Highway 24 from on-ramp at Wilder Road to downtown Orinda off-ramp at Moraga Way/Camino Pablo/Brookwood Road		Yes	Yes	Yes	
17-02-0030	Contra Costa	Widen Brentwood Boulevard - Havenwood Way to north city limit; and Chestnut to Fir	Project would widen Lone Tree Way from 2 to 4 lanes for approximately 2400 linear feet. It also includes bike lanes, median islands, curb, gutter, sidewalk street lights and landscaping.		Yes	Yes	Yes	Yes
17-02-0031	Contra Costa	Widen Willow Pass Road, Lynwood Drive to SR 4	Widen Willow Pass Road from Lynwood Drive to State Route 4 from two lanes to four lanes and implement Complete Streets Improvements		Yes	Yes	Yes	
17-02-0032	Contra Costa	Widen Ygnacio Valley Road-Kirker Pass Road, Cowell to Michigan	Widen Ygnacio Valley Road from Michigan Blvd to Cowell Road from four lanes to six lanes and implement Complete Streets improvements		Yes	Yes	Yes	Yes
17-02-0033	Contra Costa	Widen Camino Tassajara Road, Windemere to County Line	Widen Camino Tassajara Road from 2-lanes to 4-lanes, including 8-foot paved shoulders and Class II bike lanes in both directions from Windemere Parkway to the Alameda/Contra Costa County Line.		Yes	Yes	Yes	Yes
17-02-0034	Contra Costa	West Leland Road Extension	Construct new 4-lane arterial roadway with raised median, class 2 bike lanes, and sidewalks from San Marco Boulevard to Willow Pass Road, with a design speed of 55 mph.	Yes	Yes	Yes	Yes	
17-02-0035	Contra Costa	Lone Tree Way Widening	Widen Lone Tree Way to 4-lanes in order to match section west of O'Hara Avenue.		Yes	Yes	Yes	Yes
17-02-0036	Contra Costa	Pittsburg-Antioch Highway Widening	Widen existing 2-lane arterial roadway to 4-lane arterial with turning lanes at appropriate locations.	Yes	Yes	Yes	Yes	
17-02-0037	Contra Costa	Widen Main St, SR 160 to Big Break Rd	Widen Main Street from Highway 160 to Big Break Road from 4 lanes to 6 lanes.		Yes	Yes	Yes	
17-02-0038	Contra Costa	Main Street Bypass	Construct Main Street Downtown Bypass road between Vintage Parkway and 2nd Street.	Yes	Yes	Yes	Yes	
17-02-0039	Contra Costa	Hercules Train Station - All Phases	Implement all phases of the Hercules Train Station including extending John Muir Parkway with box culvert over North Channel and Bayfront Boulevard with bridge over Refugio Creek, eliminating gap in the Bay Trail West Segment by installing new trail connecting to new rail station, relocating fuel oil & fiber optic lines, constructing transit loop promenade and civic plaza, constructing parking structure, and conducting track/signal work		Yes	Yes	Yes	Yes
17-02-0040	Contra Costa	Martinez Intermodal Project: Phase 3	Constructs Martinez Intermodal Station (Phase 3), which includes an additional 425 spaces and auto/ped bridges (on top of planned 200 interim spaces).					
17-02-0041	Contra Costa	Privately Run Ferry Service including Small-Scale (non-WETA complying) Landside Improvements from Antioch, Martinez, and Hercules to San Francisco	Implement new ferry service from Antioch, Martinez, and Hercules to San Francisco. Project cost includes landside improvements and privately run ferry service, which would be provided at a lower cost than standard WETA service. Ferry service is only included in the Plan from 2020 to 2035.	Yes	Yes		Yes	
17-02-0042	Contra Costa	Richmond-San Francisco Ferry Service	Implements ferry service from Richmond to San Francisco as identified in the Water Transit Authority's Implementation and Operations Plan.	Yes	Yes	Yes	Yes	Yes
17-02-0043	Contra Costa	BART Capacity, Access and Parking Improvements	Includes projects that improve BART station capacity and implement access and parking improvement at Contra Costa BART station					Yes
17-02-0044	Contra Costa	Landside Improvements for Richmond Ferry Service	Construct landside improvements for Richmond ferry service, including expanded parking.					
17-02-0045	Contra Costa	El Cerrito del Norte BART Station Modernization, Phase 1	Project will provide improvements including, but not limited to: expansion of the paid area of the station, including a new station agent booth and new fare gates new elevators and stairwells within the paid area providing access to the platform new passenger restrooms, new public art installations					
17-02-0046	Contra Costa	Civic Center Railroad Platform Park & Ride Complex	The proposed project is the construction of an approximately 800-foot train platform along the San Joaquin Service line, which would be located north of Main Street in Oakley, between 2nd Street and O'Hara Avenue. Approximately 300 surface parking spaces, distributed in two parking lots to avoid one large surface lot off Main Street, will be included to support Park & Ride activities as well as future train riders.		Yes	Yes	Yes	Yes
17-02-0047	Contra Costa	East County Rail Extension (eBART), Phase 1	Construction of rail extension eastward from Pittsburg-Bay Point BART station with Phase 1 terminus at Hillcrest Avenue in Antioch.	Yes	Yes	Yes	Yes	Yes

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17-02-0049	Contra Costa	West County High Capacity Transit Investment Study Implementation - Phase 1	Environmental, engineering and initial implementation work associated with the recommendations from the study.					
17-02-0050	Contra Costa	Brentwood Intermodal Transit Center	This project is a PNR facility in the City of Brentwood providing a transit connection to the current eBART terminus in Antioch. Tri-Delta transit would provide direct bus service from this facility which could serve as a future eBART station site in the future.		Yes	Yes	Yes	
17-02-0051	Contra Costa	I-680 Transit Improvements including Express Bus Service, ITS components, and Park & Ride Lots	I-680 Transit Improvements including Express Bus Service, ITS components, and Park & Ride Lots along the I-680 corridor from Dublin to Martinez		Yes	Yes	Yes	
17-02-0052	Contra Costa	Widen San Ramon Valley Boulevard from 2 to 4 lanes - Jewel Terrace to Podva Road	Widen San Ramon Valley Boulevard from 2 to 4 lanes - Jewel Terrace to Podva Road	Yes	Yes	Yes	Yes	Yes
17-03-0001	Marin	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps throughout Marin County					Yes
17-03-0002	Marin	Climate Program: TDM and Emission Reduction Technology	Projects in this category implement strategies and programs that reduce emissions, encourage alternative transportation modes, and manage transportation demand including but not limited to projects such as TDM program implementation, parking management, local area shuttle and paratransit services					
17-03-0003	Marin	County Safety, Security and Other	Projects in this category address safety and security needs including safe routes to school and coastal flood mitigation projects					
17-03-0004	Marin	Roadway Operations	Projects in this category improve roadway operations through technology and management systems on roads throughout Marin County including Sir Francis Drake and other local corridor enhancements					Yes
17-03-0005	Marin	Minor Transit Improvements	Projects in this category improve or complement existing transit operations through transit management systems, bus maintenance facility relocation, local bus and ferry service expansion, countywide bus stop improvements and access improvements to SMART stations, among other bus transit capital and facility projects					Yes
17-03-0006	Marin	Implement Marin Sonoma Narrows HOV Lane and corridor improvements Phase 2 (Marin County)	Extend US 101 HOV lane from Atherton Avenue to Marin/Sonoma County line in the northbound direction and from Rowland Boulevard to Marin/Sonoma County line in southbound direction. This project will complete the HOV lane system in Marin County from Richardson Bay Bridge to Marin/Sonoma County line.		Yes	Yes	Yes	Yes
17-03-0007	Marin	US 101/580 Interchange Direct Connector - PAED	Study, design and connection for a two lane direct connector northbound US 101 to eastbound HWY 580. The project would entail PSR, PAED and construction of a direct freeway to freeway interchange instead of local arterials. Study includes 580 westbound to south US 101.					
17-03-0008	Marin	Tiburon East Blithedale Interchange - PAED	Planning and environmental assessment of alternatives to improve the US 101/Tiburon Boulevard interchange. Shift eastbound lane reduction 1,000 feet to the east on SFD and improve shoulders from Larkspur Landing Circle to Anderson Drive. Improve bicycle access from Anderson Drive to Main Street. Add additional thru capacity at Bellam Boulevard off ramp from northbound 101 eastbound Interstate 580. Widen northbound Bellam off-ramp from US 101 to two lanes.	Yes	Yes	Yes	Yes	
17-03-0010	Marin	Highway Improvement Studies	Operational and capacity enhancement studies to address safety, sea level rise, and congestion on US 101, HWY 1 and HWY 37. primarily focused on Interchange and ramp modifications as well as mainline improvements. PSRs level studies are funded. PAED and advanced outreach flexibility.					
17-03-0011	Marin	Widen Novato Boulevard between Diablo Avenue and Grant Avenue	Widen Novato Blvd. between Diablo Ave. and Grant Ave. to accommodate future growth and enable roadway system to operate safely and efficiently, per City's General Plan.		Yes	Yes	Yes	Yes
17-03-0012	Marin	Sir Francis Drake Boulevard/Red Hill Avenue/Center Boulevard (known as "The Hub") - project development	Alternatives analysis, environmental and design of interchange improvements to this congested intersection. This study will include the study of a potential roundabout and improvements to this major arterial.					
17-03-0013	Marin	San Rafael Transit Center (SRTC) Relocation Project	This project involves the full or partial relocation of the Bettini Transit Center/San Rafael Transit Center (SRTC). Relocating the existing transit center is necessary because SMART rail bi-sects the transit center, which eliminates one existing bus platform and renders the remaining platforms of the transit service unusable in whole or in part.					
17-03-0014	Marin	Larkspur Ferry Terminal Parking Garage - Planning Study	This project would provide environmental, design, engineering and construction of a parking garage to augment existing inadequate parking at the Larkspur Ferry Terminal (LFT) and improve parking, traffic and pedestrian circulation around and within LFT. The parking garage would increase parking capacity from by approximately 36%, from 1,800 to 2,450 parking spaces.					Yes
17-03-0015	Marin	SMART Downtown San Rafael to Larkspur Rail Extension	Extend rail from Downtown San Rafael 2.2 miles to Larkspur SMART Station.	Yes	Yes	Yes	Yes	Yes
17-03-0016	Marin	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements					Yes
17-04-0001	Napa	Bicycle and Pedestrian Program	Countywide bicycle network expansion, countywide bicycle network maintenance & rehabilitation, countywide pedestrian network enhancements, maintenance, rehabilitation and expansion. Also, includes countywide SRTS infrastructure and non-infrastructure projects/programs.					Yes
17-04-0002	Napa	County Safety, Security and Other	Railroad crossing safety upgrades, corridor and Safety Improvements					Yes
17-04-0003	Napa	Multimodal Streetscape	Complete streets implementation and street reconstruction.					
17-04-0004	Napa	Minor Roadway Expansions	Additional road capacity and extensions including bridge construction throughout Napa County and including along Devlin Road and Eucalyptus Drive					Yes
17-04-0005	Napa	Roadway Operations	Intersection improvements and modifications, roadway capacity enhancements, including SR 221 and Soscol Avenue, and other City of Napa intersection improvements					Yes



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				2020	2030	2040		
17-04-0006	Napa	Minor Transit Improvements	Enhanced and expanded transit services, improved commuter amenities, Vine transit maintenance and fueling station, transit fleet expansion, new transit and vehicle technology, improved signage and enhanced transit stops.					Yes
17-04-0007	Napa	Countywide Intelligent Transportation Systems Program	Technology and signalization integration, coordination and improvements.					
17-04-0008	Napa	State Route 29 Improvements	Construct SR29 to a 6-lane Parkway with improved conditions for all travel modes from Napa Junction Road to South Kelly Road and increase capacity in SR-29 from 4 lanes to 6 lanes in unincorporated Napa County, between South Kelly Road and SR 12 Jameson Canyon Road, as well as other operational and intersection improvements along the SR 29 corridor countywide.		Yes	Yes	Yes	
17-04-0009	Napa	Soscol Junction	Improvements at SR-29/SR-221/ Soscol Ferry Road.					Yes
17-04-0010	Napa	SR29 Gateway	Construct SR29 to 6-lanes for cars and improved conditions for other travel modes from American Canyon Road to Napa Junction Road		Yes	Yes	Yes	
17-05-0001	San Francisco	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps, including Second Street Complete Streets project					Yes
17-05-0002	San Francisco	Climate Program: TDM and Emission Reduction Technology	Projects in this category implement strategies and programs that reduce emissions, encourage alternative transportation modes, and manage transportation demand including but not limited to projects such as TDM program implementation, parking management, local area shuttle and paratransit services					Yes
17-05-0003	San Francisco	County Safety, Security and Other	Projects in this category address safety and security needs including Vision Zero improvements at ramps, local road safety and security, India Basin roadway transportation improvements, and transit safety and security					Yes
17-05-0004	San Francisco	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements in San Francisco					Yes
17-05-0005	San Francisco	PDA Planning	This category includes planning studies supporting the region's PDA framework and connecting transportation and land use					
17-05-0007	San Francisco	Transit Preservation/Rehabilitation	This project provides additional funding to transit capital preservation and rehabilitation beyond what is included in the regional transit capital project (RTPID 17-10-0026)					
17-05-0008	San Francisco	Minor Roadway Expansions	This project implements roadway capacity changes to minor roads throughout San Francisco including Transit Center District Plan, Transbay Redevelopment Plan Street Network, Balboa Reservoir Street Network, Central SoMa Plan Network Changes, Central Waterfront/Pier 70 Street Network, Harney Way, HOPE SF Street Networks, Mission Bay, Mission Rock, Parkmerced, Schlage Lock, Treasure Island, Bayview, Rincon Hill, and along the Great Highway					Yes
17-05-0009	San Francisco	Roadway Operations	This project includes local road intersection improvements					Yes
17-05-0010	San Francisco	Minor Transit Improvements	This project includes the transit performance initiative, transit management systems, minor transit improvements, Muni fare programs, maintenance facility projects, and transit preferential improvements					Yes
17-05-0011	San Francisco	San Francisco Late Night Transportation Improvements	New routes and increased frequency for all-night regional and local bus service, including Muni, AC Transit, Golden Gate Transit, and SamTrans routes. This is a pilot for 5 years.				Yes	
17-05-0012	San Francisco	SFGo Integrated Transportation Management System	SFGo™ is San Francisco's Citywide ITS program. It identifies signalized and non-signalized intersections located along arterials and the Muni transit system and prioritizes them for ITS upgrades, such as controllers, cabinets, transit signal priority, fiber optic or wireless communications, traffic cameras, and variable message signs. Also improves arterial safety and pedestrian safety.					Yes
17-05-0013	San Francisco	Expand SFMTA Transit Fleet	This project entails future expansion of the SFMTA transit fleet and needed facilities to house and maintain transit vehicles. The purpose is to meet projected future transit demand, as indicated in the SFMTA Transit Fleet Plan. It will facilitate the future provision of additional service through the procurement of transit vehicles as well as the development of needed modern transit facilities. This also includes the expansion vehicles for Geary BRT (RTPID 17-05-0021) and does not include expansion vehicles for Central Subway, which are in RTPID 17-05-0041.			Yes	Yes	Yes
17-05-0014	San Francisco	Muni Forward (Transit Effectiveness Project)	Includes transit priority improvements along Rapid and High Frequency transit corridors, service increases, transfer and terminal investments, overhead wire changes, and street improvements in support of Vision Zero.		Yes	Yes	Yes	Yes
17-05-0015	San Francisco	Rail Capacity Long Term Planning and Conceptual Design - All	Rail capacity long term planning and conceptual design for Muni, BART, and Caltrain. Planning and conceptual engineering phase for study of major corridor and infrastructure investments along existing and potential expansion rail corridors that either expand the system or provide significant increases in operating capacity to the existing rail system.					Yes
17-05-0016	San Francisco	Better Market Street - Transportation Elements	Improve Market Street between Steuart Street and Octavia Boulevard. Includes resurfacing, sidewalk improvements, way-finding, lighting, landscaping, transit boarding islands, transit connections, traffic signals, transportation circulation changes, and utility relocation and upgrade.		Yes	Yes	Yes	Yes
17-05-0017	San Francisco	Core Capacity Implementation - Planning and Conceptual Engineering	Advance planning and evaluation of recommendations that emerge from the Core Capacity Transit Study. Examples of projects under consideration include HOV lanes on the Bay Bridge for buses and carpools; BART/Muni/Caltrain tunnel turnbacks, crossover tracks, grade separations, or other operational improvements; and a second transbay transit crossing.					
17-05-0018	San Francisco	Downtown San Francisco Ferry Terminal Expansion - Phase II	Expansion of berthing facilities along North Basin of Downtown San Francisco Ferry Terminal.					Yes
17-05-0019	San Francisco	Establish new ferry terminal at Mission Bay 16th Street	Establish New Ferry terminal to serve Mission Bay and Central Waterfront neighborhoods		Yes	Yes	Yes	Yes

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17-05-0020	San Francisco	HOV/HOT Lanes on U.S. 101 and I-280 in San Francisco	Phase 1 (full implementation): Convert an existing mixed traffic lane and/or shoulder/excess ROW in each direction to HOV 3+ lanes on US 101 from SF/SM County line to I-280 interchange and on I-280 from US 101 interchange to 6th Street off ramp to enhance carpool and transit operations during peak periods. Phase 2 (planning and environmental review only): Convert Phase 1 HOV lanes to HOT/Express Lanes. Express transit to be funded with HOT lane revenues.		Yes	Yes	Yes	Yes
17-05-0021	San Francisco	Geary Boulevard Bus Rapid Transit	Implement Geary Bus Rapid Transit (BRT) to improve service between Market Street and Point Lobos Avenue. This proposal includes dedicated bus lanes, enhanced platforms, new bus passing zones, adjustments to local bus stops, turn lane restrictions, new signalization with Transit Signal Priority, real-time arrival information, low-floor buses, and safety improvements in support of Vision Zero. Expansion vehicles are included in RTPID 17-05-0013.		Yes	Yes	Yes	Yes
17-05-0022	San Francisco	Presidio Parkway	Reconstruct Doyle Drive with standard lane widths, shoulders, and a median barrier. Reconstruct interchange at State Route 1 and State Route 101 and add an auxiliary lanes between this interchange and Richardson Avenue. Transit access will be improved through the provision of extended bus bays near Gorgas Avenue to accommodate multiple transit providers, and well defined pedestrian routes. Post 2017 costs reflect annual SHOPP contributions for operations and maintenance.	Yes	Yes	Yes	Yes	Yes
17-05-0023	San Francisco	Yerba Buena Island (YBI) I-80 Interchange Improvement	Includes two major components: 1) On the east side of the island, the I-80/YBI Ramps project will construct new westbound on- and off- ramps to the new Eastern Span of the Bay Bridge; 2) On the west side of the island, the YBI West-Side Bridges Retrofit project will seismically retrofit the existing bridge structures.	Yes	Yes	Yes	Yes	Yes
17-05-0024	San Francisco	Balboa Park Station Area - Southbound I-280 Off-Ramp Realignment at Ocean Avenue	This project will realign the existing uncontrolled southbound I-280 off-ramp to Ocean Avenue into a T-intersection and construct a new traffic signal on Ocean Avenue to control the off-ramp.	Yes	Yes	Yes	Yes	
17-05-0025	San Francisco	Balboa Park Station Area - Closure of Northbound I-280 On-Ramp from Geneva Avenue	This project would study and implement closure of the northbound I-280 on-ramp from Geneva Avenue to improve safety. Closure of the ramp would initially be a pilot project, if possible, depending on the results of traffic studies. The linked on-ramp from Ocean Avenue would remain open.	Yes	Yes	Yes	Yes	
17-05-0026	San Francisco	Bayshore Station Multimodal Planning and Design	Planning, Preliminary Engineering, and Environmental Review to re-locate the Bayshore Caltrain station and potentially extend the T-Line to the station. The project would also include inter-modal facilities and additional supporting structures and utilities.					
17-05-0027	San Francisco	Hunters Point Shipyard and Candlestick Point Local Roads Phase 1	Build new local streets within the Hunters Point Shipyard and Candlestick Point area.			Yes	Yes	Yes
17-05-0028	San Francisco	Southeast San Francisco Caltrain Station - Environmental	Planning and environmental analysis of Caltrain infill station to replace Paul Ave Station in Southeast San Francisco (e.g. Oakdale).					Yes
17-05-0029	San Francisco	Downtown Value Pricing/Incentives - Pilot, Transit Service, Supportive Infrastructure	A set of street improvements to support transit operations and cycling and pedestrian safety and comfort to support the anticipated mode shift due to the implementation of congestion pricing.		Yes	Yes	Yes	Yes
17-05-0030	San Francisco	Treasure Island Mobility Management Program: Intermodal Terminal, Congestion Toll, Transit Service, Transit Capital	New ferry service between San Francisco and Treasure Island; AC Transit service between Treasure Island and Oakland; shuttle service on-Island; bike share on-Island; priced-managed parking on-Island; Travel Demand Management program.		Yes	Yes	Yes	Yes
17-05-0031	San Francisco	Southeast Waterfront Transportation Improvements - Phase 1	Create a 5 mile multi-modal corridor of streets, transit facilities, pedestrian paths, and dedicated bicycle lanes to link the Candlestick/Hunters Point Shipyard project area to BART, T-Third light rail, Caltrain, local bus lines and future ferry service. A BRT system (included in a RTPID 17-05-0032) would use exclusive transit right-of-way, station and shelter facilities, and transit signal priority infrastructure. This project also includes express bus and enhances transit service between the Southeast Waterfront and downtown San Francisco.			Yes	Yes	Yes
17-05-0032	San Francisco	Geneva-Harney Bus Rapid Transit	Provides exclusive bus lanes, transit signal priority, and high-quality stations along Geneva Avenue (from Santos St to Executive Park Blvd), Harney Way, and Crisp Avenue, and terminating at the Hunters Point Shipyard Center. The project includes pedestrian and bicycle improvements in support of Vision Zero and connects with Muni Forward transit priority improvements west of Santos Street. This is the near-term alternative that does not rely on the full extension of Harney Way across US 101.		Yes	Yes	Yes	Yes
17-05-0033	San Francisco	Van Ness Avenue Bus Rapid Transit	Implement Van Ness Avenue Bus Rapid Transit (Van Ness BRT) to improve approximately two miles of a major north-south urban arterial in San Francisco. Project would include a dedicated lane for BRT buses in each direction between Mission and Lombard Streets. There will be nine BRT stations, with platforms on both sides for right-side passenger boarding and drop-off.	Yes	Yes	Yes	Yes	Yes
17-05-0034	San Francisco	Arena Transit Capacity Improvements	Identifies transit improvements needed to accommodate growth in Mission Bay. Improvements might include track crossovers to allow for trains to be staged; a 6-inch raised area along existing tracks; a platform extension to accommodate crowds; other trackway modifications; and a traction power study to ensure that the power grid can accommodate a large number of idling vehicles.					
17-05-0035	San Francisco	EN Trips: All Components	Implement streetscape improvements on Folsom Street between 5th and 11th Streets and on Howard Street between 4th and 11th Streets. On Folsom Street, a bi-directional cycle track, new transit bulbs and bus bulbs at intersections, and new signals would be	Yes	Yes	Yes	Yes	
17-05-0036	San Francisco	Regional/Local Express Bus to Support Express Lanes in SF	A 5-year regional/local express bus pilot to provide service to/from downtown San Francisco to/from San Francisco neighborhoods, Marin, Contra Costa, Alameda, San Mateo and Santa Clara counties to complement other freeway corridor management strategies. Some service to be funded with HOT lane revenues. See HOV/HOT Lanes on U.S. 101 and I-280 in San Francisco project. Includes vehicles.				Yes	

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17-05-0037	San Francisco	Parkmerced Transportation Improvements	Implements transportation improvements for the Parkmerced development including enhanced transit service, pedestrian and bicycle facilities, intersection improvements, parking management, carshare and bikehare stations		Yes	Yes	Yes	Yes
17-05-0039	San Francisco	Geneva Light Rail Phase I: Operational Improvements, Planning and Environmental	Planning and environmental analysis of extension of light rail track 2.7 miles along Geneva Avenue from the Green Railyard to Baysshore Boulevard and then to the existing T-Third terminus at Sunnydale Station. Project would increase operational flexibility, system resiliency, and provide a southern east west rail connection. Phase included in Plan Bay Area 2040 is for non-revenue service.					
17-05-0040	San Francisco	T-Third Mission Bay Loop	Connect the rail turnouts from the existing tracks on Third Street at 18th and 19th Streets with additional rail and overhead contact wire system on 18th, Illinois and 19th Streets. The loop would allow trains to turn around for special events and during peak periods to accommodate additional service between Mission Bay and the Market Street Muni Metro.	Yes	Yes	Yes	Yes	
17-05-0041	San Francisco	T-Third Phase II: Central Subway	Extends the Third Street Light Rail line north from King Street along Third Street, entering a new Central Subway near Bryant Street and running under Geary and Stockton Streets to Stockton & Clay Streets in Chinatown. New underground stations will be located at Moscone Center, Third & Market Streets, Union Square, and Clay Street in Chinatown. Includes procurement of four LRVs.	Yes	Yes	Yes	Yes	
17-05-0042	San Francisco	Historic Streetcar Extension - Fort Mason to 4th & King	The project would extend historic streetcar service by extending either the E-line or the F-line service from Fisherman's Wharf to Fort Mason, using the historic railway tunnel between Van Ness Ave. and the Fort Mason Center. The project will seek non-transit specific funds and will seek to improve the historic streetcar operation as an attractive service for tourists and visitors.		Yes	Yes	Yes	Yes
17-06-0001	San Mateo	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps, including but not limited to new multi-purpose pedestrian/bicycle bridges over US 101 and sidewalk gap closures					Yes
17-06-0002	San Mateo	County Safety, Security and Other	Projects in this category address safety and security needs of San Mateo County including county-wide implementation of Safe Routes to School Program					Yes
17-06-0003	San Mateo	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements, including but not limited to projects along facilities such as El Camino Real, Bay Road, Ralston Avenue, University Avenue, Middlefield Road, Palmetto Avenue, Mission Street, Geneva Avenue, and Carolan Avenue					Yes
17-06-0004	San Mateo	Minor Roadway Expansions	This category includes roadway capacity increasing projects (new roadways, widening or extensions of existing roadways) on minor roads such as Blomquist Street, California Drive, Railroad Avenue, Manor Drive, and Alameda de las Pulgas					Yes
17-06-0005	San Mateo	Roadway Operations	County-wide implementation of non-capacity increasing local road intersection modifications and channelization countywide					Yes
17-06-0006	San Mateo	County-wide Intelligent Transportation System (ITS) and Traffic Operation System Improvements	Installation of transportation system management improvements such as Intelligent Transportation System (ITS) elements and TOS equipment throughout San Mateo County.					Yes
17-06-0007	San Mateo	Modify existing lanes on U.S. 101 to accommodate a managed lane	Modify US 101 to accommodate an Express Lane from approximately 2 miles south of the Santa Clara County Line to Grand Avenue interchange near the I-380 interchange. Work may include shoulder modification, ramp modifications, and interchange modifications to accommodate an extra lane. Work will be phased.		Yes	Yes	Yes	
17-06-0008	San Mateo	Add northbound and southbound modified auxiliary lanes and/or implementation of managed lanes on U.S. 101 from I-380 to San Francisco County line	Add northbound and southbound modified auxiliary lanes and/or implementation of managed lanes on U.S. 101 from I-380 to San Francisco County line.		Yes	Yes	Yes	Yes
17-06-0009	San Mateo	Improve operations at U.S. 101 near Route 92 - Phased	US 101 operational improvements near Route 92. Project may have phased construction.					Yes
17-06-0010	San Mateo	Improve U.S. 101/Woodside Road interchange	Modifies the Woodside Road Interchange at US 101.		Yes	Yes	Yes	Yes
17-06-0011	San Mateo	US 101 Produce Avenue Interchange	Construct a new interchange on US 101 at Produce Avenue, connecting Utah Avenue on the east side of US 101 to San Mateo Avenue on the west side of US 101. This will allow for reconfiguration of the existing southbound ramps at Produce Ave and Airport Blvd, as well incorporation of the northbound off- and on- ramps at S. Airport Blvd into the interchange design.		Yes	Yes	Yes	Yes
17-06-0012	San Mateo	U.S. 101 Interchange at Peninsula Avenue	Construct southbound on and off ramps to US 101 at Peninsula Ave to add on and off ramps from southbound 101.		Yes	Yes	Yes	Yes
17-06-0013	San Mateo	Reconstruct U.S. 101/Broadway interchange	Reconstructs the US 101/Broadway interchange.	Yes	Yes	Yes	Yes	
17-06-0014	San Mateo	Reconstruct U.S. 101/Willow Road interchange	The project proposes to reconstruct the existing US 101/Willow Road (Route 114) Interchange within the existing alignment to a partial cloverleaf interchange. Project includes class I bike paths and class II bike lanes.	Yes	Yes	Yes	Yes	Yes
17-06-0015	San Mateo	Construct auxiliary lanes (one in each direction) on U.S. 101 from Marsh Road to Embarcadero Road	Add northbound and southbound auxiliary lanes.	Yes	Yes	Yes	Yes	
17-06-0016	San Mateo	Improve access to and from the west side of Dumbarton Bridge on Route 84 connecting to U.S. 101 per Gateway 2020 Study - Phased	Improve access to /from the west side of Dumbarton Bridge (Route 84 connecting to U.S. 101) per Gateway 2020 Study (Phased implementation of short term projects. Environmental phase only for long term projects).			Yes	Yes	Yes

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RTPID	County/ Sponsor	Title	Description	Complete and Operational By:			Included in the Model?	Referenced in the 2017 TIP
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17-06-0017	San Mateo	Route 101/Holly St Interchange Access Improvements	The proposed project would convert the existing full cloverleaf configuration to a partial cloverleaf design by eliminating two of the existing loop off-ramps of the interchange, and realign the diagonal on- and off-ramps into signalized T-intersections with local streets. A new pedestrian and bicycle over crossing will be constructed in the south side of Holly Street Interchange	Yes	Yes	Yes	Yes	Yes
17-06-0018	San Mateo	Improve local access at I-280/I-380 from Sneath Lane to San Bruno Avenue to I-380 - Environmental only	Environmental assessment of local access improvements at the existing I-280 / I-380 interchange located in the City of San Bruno. The project would provide access to I-380 from the two main east-west secondary roads of Sneath Lane and San Bruno Avenue.					
17-06-0019	San Mateo	State Route 92-82 (El Camino) Interchange Improvement	Widen the existing ramps and reconfigure the existing interchange from a full cloverleaf to a partial cloverleaf. Pedestrian and bicycle improvements would be included as part of the project.	Yes	Yes	Yes	Yes	Yes
17-06-0020	San Mateo	Hwy 1 Operational & safety improvements in County Midcoast (acceleration/deceleration lanes; turn lanes; bike lanes; pedestrian crossings; and trails)	Operational and safety improvements for vehicles, bicycles, and pedestrians, along the Highway 1 corridor between Half Moon Bay and Pacifica. This could include acceleration lanes, deceleration lanes, turn lanes, bike lanes, enhanced crossings, and trail network improvements.	Yes	Yes	Yes	Yes	
17-06-0021	San Mateo	Environmental Studies for 101/Candlestick Interchange	Planning and environmental analysis of the reconstruction of 101/Candlestick Interchange to full all-directional interchange with a single point cross street connection. Project would provide all-direction ramp movements controlled by new signalized intersections at the cross street connections. Interchange would join an improved Harney Way to the east, and would join the Geneva Avenue Extension to the west. Accommodate E/W crossing of planned BRT facility.					Yes
17-06-0022	San Mateo	Westbound slow vehicle lane on Route 92 between Route 35 and I-280 - Environmental Phase	Planning and environmental analysis of a westbound slow vehicle lane on Route 92 between Route 35 and I-280					
17-06-0023	San Mateo	Route 1 Improvements in Half Moon Bay	In Half Moon Bay, On Route 1: Improve safety and reduce congestion by providing protected left and right turn lanes, warranted traffic signals, two through lanes only at signalized intersections, bike lanes, pathways, bus stops, traffic signal interconnects, safety lighting, median and channelization improvements.		Yes	Yes	Yes	Yes
17-06-0024	San Mateo	Reconstruct U.S. 101/Sierra Point Parkway interchange (includes extension of Lagoon Way to U.S. 101)	Reconstruct a partial interchange and provide improved access to Brisbane, Bayshore Blvd and proposed Brisbane Baylands project. Lagoon Way extension connects to the reconstructed interchange and provides improved access to Brisbane, Daly City, and the pending 600-acre Brisbane Baylands development.		Yes	Yes	Yes	
17-06-0025	San Mateo	US 101/University Ave. Interchange Improvements	On University Avenue across US-101, between Woodland Avenue and Donohoe Street; Add bike lanes and sidewalk and modify the NB and SB off-ramps to eliminate pedestrian/bicycle conflicts and improve traffic operations.					
17-06-0026	San Mateo	Implement incentive programs to support transit-oriented development	Implement an incentive programs to support transit-oriented developments in San Mateo County.					
17-06-0027	San Mateo	Implement supporting infrastructure and Automated Transit Signal Priority to support SamTrans express rapid bus service along El Camino Real	This project will institute necessary infrastructure and Automated Transit Signal Priority necessary to accommodate express rapid bus service along the length of El Camino Real from Palo Alto to Daly City.					
17-06-0028	San Mateo	Make incremental increase in SamTrans paratransit service - Phase	Expansion of curb-to-curb paratransit fleet and service for eligible users, compliant with ADA requirements, based on projected future demand.					
17-06-0029	San Mateo	Add new rolling stock and infrastructure to support SamTrans bus rapid transit along El Camino Real- Phase	This project will institute new rolling stock and infrastructure necessary to accommodate BRT along El Camino Real			Yes	Yes	Yes
17-06-0030	San Mateo	Environmental Clearance and Design of the Redwood City Ferry Terminal and Service	Planning and environmental analysis of the construction of a new ferry terminal, purchase of 3 new high-speed ferry vessels, and operation of new ferry service between Redwood City and San Francisco.					Yes
17-06-0031	San Mateo	Implement Redwood City Street Car - Planning Phase	Planning and environmental analysis of Redwood City Street Car Construction and Implementation					
17-06-0032	San Mateo	Route 1 San Pedro Creek Bridge Replacement and Creek Widening Project	Replace San Pedro Creek Bridge on CA 1 with a longer bridge and widen the creek channel for 100 year storm flow capacity. Provide for a class 1 multi-purpose trail on the eastern side.	Yes	Yes	Yes	Yes	
17-06-0033	San Mateo	Widen Route 92 between SR 1 and Pilarcitos Creek alignment, includes widening of travel lanes and shoulders	Widens shoulders and travel lanes to standard widths. Straighten curves at few locations.		Yes	Yes	Yes	Yes
17-06-0034	San Mateo	Construct Route 1 (Calera Parkway) northbound and southbound lanes from Fassler Avenue to Westport Drive in Pacifica	The Calera Parkway project will widen Highway 1 from four lanes to six lanes, from approximately 1,500 feet south of Fassler Avenue to approximately 2,300 feet north of Reina Del Mar Avenue, a distance of 1.3 miles, and will add a 16€™ wide landscaped median between concrete barriers from San Marlo Way to Reina Del Mar Avenue		Yes	Yes	Yes	Yes
17-06-0035	San Mateo	I-280 improvements near D Street exit	Improve the on and off-ramps and approaches for I-280 near the D Street exit in Daly City					
17-06-0036	San Mateo	Widen Skyline Boulevard (Route 35) to 4-lane roadway from I-280 to Sneath Lane - Phased	Widens Skyline Blvd. (SR 35) between I-280 and Sneath Lane. It is currently the last portion of what is otherwise a four lane roadway along Skyline Blvd. The project widens approximately 1.3 miles of the roadway into four lanes.		Yes	Yes	Yes	Yes
17-06-0037	San Mateo	Widen Millbrae Avenue between Rollins Road and U.S. 101 southbound on-ramp and resurface intersection of Millbrae Avenue and Rollins Road	Widen Millbrae Avenue between Rollins Road and US101 Southbound On Ramp and resurface the intersection of Millbrae Avenue and Rollins Road.	Yes	Yes	Yes	Yes	

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17-06-0038	San Mateo	Construct a 6-lane arterial from Geneva Avenue/Bayshore Boulevard intersection to U.S. 101/Candlestick Point interchange - Environmental phase	Planning and environmental analysis of a 6-lane arterial from the Geneva Avenue at Bayshore Boulevard to 101/Candlestick Interchange. Grade separation at the Caltrain and Tunnel Ave, Class II bike lanes, on-street parking (travel lanes during peak periods), and sidewalks. Sections will be reserved for an exclusive lane BRT facility that connects to the Bayshore Multimodal Station and provides through service to BART Balboa Station					
17-06-0039	San Mateo	Grade Separations	This project includes grade separations of the Caltrain right of way at approximately 2 to 3 high priority locations in San Mateo County, including 25th Avenue. This project is based on San Mateo County's Measure A grade separation category.					
17-06-0040	San Mateo	Extend Blomquist Street over Redwood Creek to East Bayshore and Bair Island Road	Redwood City Blomquist Street Extension and Blomquist Bridge over Redwood Creek		Yes	Yes	Yes	Yes
17-07-0001	Santa Clara	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps, including downtown San Jose Bike Lanes					Yes
17-07-0002	Santa Clara	Caltrain Grade Separations	This project includes grade separations of the Caltrain right of way at priority locations throughout Santa Clara County					
17-07-0003	Santa Clara	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements throughout Santa Clara County including but not limited to Los Gatos Boulevard, Monterey Road, Shoreline Boulevard, Stevens Creek Road, Downtown Sunnyvale Complete Streets, Wedgewood Avenue, West San Carlos, and Winchester Boulevard. This category also includes intersection improvements for non-expressways in Santa Clara County.					Yes
17-07-0004	Santa Clara	Additional Local Road Preservation/Rehab	This project provides additional funding to local streets and roads preservation and rehabilitation beyond what is included in the regional local roads maintenance project (RTPID 17-10-0022)					
17-07-0005	Santa Clara	Minor Roadway Expansions	This category includes roadway capacity increasing projects (new roadways or widening/extensions of existing roadways) on minor roads throughout Santa Clara County such as Buena Vista Avenue, bridges over US 101 in Gilroy, Blossom Hill Road, Lark Avenue, Pollard Road, Union Avenue, Butterfield Road, San Antonio Road, Charcot Avenue, King Road, Montague Expressway, San Carlos Street, Zanker Road, Coleman Avenue, Autumn Street, Winchester Boulevard, Center Avenue, DeWitt Avenue, Hill Road, Wastonville Road, Mary Avenue, and Wildwood Avenue					Yes
17-07-0007	Santa Clara	Affordable Fare Program	Program objective is to increase ridership by reducing the cost of transit services for low-income populations including seniors, persons with disabilities, youth and students.					
17-07-0008	Santa Clara	Implement System Operations and Management Program for Santa Clara County	This program includes projects that use technology to improve operation and management of the overall transportation system. These new technologies are collectively referred as Intelligent Transportation Systems.					Yes
17-07-0009	Santa Clara	SR 87 Technology-based Corridor Improvements	Improvements in San Jose to address mainline congestion and system reliability through the implementation of technology-based operational improvements to the freeway.					
17-07-0010	Santa Clara	Hwy. Transportation Operations System/Freeway Performance Initiative Phase 1 & 2	Implement Freeway Performance Initiative projects for Santa Clara County, which includes freeway ITS infrastructure, arterial management, incident management, emergency preparedness, and operations and maintenance of ITS infrastructure.					
17-07-0012	Santa Clara	BART Silicon Valley Extension - San Jose (Berryessa) to Santa Clara	The Berryessa Station to San Jose Extension Project would physically extend BART from the future BART Berryessa Station in San Jose to Downtown San Jose and then into Santa Clara. Project includes four new stations - Alum Rock, Downtown San Jose, Diridon, and Santa Clara. Project cost includes operating expenses - escalated capital cost is \$5.175 billion.		Yes	Yes	Yes	Yes
17-07-0013	Santa Clara	Implement El Camino Rapid Transit Project	Implement Rapid line 522 improvements in the El Camino Real/The Alameda corridor including: dedicated guideways, signal prioritization, low-floor boarding, ticket vending machines, premium stations, real-time information, and specialized vehicles.		Yes	Yes	Yes	Yes
17-07-0021	Santa Clara	Alviso Wetlands Doubletrack	Provide double track section on the UPRR Coast Subdivision from the Alameda County line to the vicinity of State Route 237. The improvements are expected to include double-tracking the segment running over the Alviso Wetlands.		Yes	Yes	Yes	
17-07-0022	Santa Clara	Environmental Studies for SR-152 New Alignment	Project includes further environmental and planning studies for the SR-152 corridor, including a new alignment and potential toll options.					Yes
17-07-0023	Santa Clara	US 101/Zanker Rd./Skyport Dr./Fourth St. Interchange Improvements	Construct a new interchange at U.S. 101/Zanker Road/Skyport Drive/Fourth Street		Yes	Yes	Yes	
17-07-0024	Santa Clara	Lawrence/Stevens Creek/I-280 Interchange	Lawrence/Stevens Creek/I-280 Interchange: Provide direct connections between Lawrence Expressway and I-280		Yes	Yes	Yes	
17-07-0025	Santa Clara	I-280/Winchester Blvd Interchange Improvements	Improve I-280/ Winchester Blvd Interchange to relieve congestion and improve operations and local circulation.		Yes	Yes	Yes	Yes
17-07-0026	Santa Clara	I-280/Wolfe Road Interchange Improvements	Modify I-280/Wolfe Road Interchange to relieve congestion and improve local circulation.		Yes	Yes	Yes	
17-07-0027	Santa Clara	US 101/Mabury Rd./Taylor St. Interchange Improvements	Construct interchange at U.S. 101/Mabury Road/Taylor Street		Yes	Yes	Yes	Yes
17-07-0028	Santa Clara	I-280 New HOV Lane from San Mateo County line to Magdalena Avenue	New HOV lane added to I-280 from existing HOV lane at Magdalena Avenue to the San Mateo County Line. Requires constructing a new lane.		Yes	Yes	Yes	
17-07-0029	Santa Clara	I-280/Saratoga Avenue Interchange Improvements	Modify I-280/ Saratoga Avenue Interchange to relieve congestion and improve local circulation		Yes	Yes	Yes	
17-07-0030	Santa Clara	I-280 Northbound Braided Ramps between Foothill Expressway and SR 85	Improve braided ramps on northbound I-280 between Foothill Expressway and Route 85.		Yes	Yes	Yes	
17-07-0031	Santa Clara	US 101 Southbound/Trimble Rd./De La Cruz Blvd./Central Expressway Interchange Improvements	Improve interchange at U.S. 101 southbound Trimble Road/De la Cruz Boulevard/Central Expressway.		Yes	Yes	Yes	

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17-07-0032	Santa Clara	I-680/ Alum Rock/ McKee Road Interchange Improvements	Reconfigure interchange, improve access for all modes of transportation, improve traffic operations and relieve congestion at the I-680/ Alum Rock and I-680/ McKee Road interchanges. Construct an Express Bus Station in the Median of I-680 to connect buses using HOV or Express Lanes with Santa Clara Alum Rock BRT Station.		Yes	Yes	Yes	
17-07-0033	Santa Clara	SR 237/Mathilda Ave. and US 101/Mathilda Ave. Interchange Improvement	The project proposes to improve local road operations on Mathilda Avenue in the City of Sunnyvale from Almanor Avenue to Innovation Way, including on- and off-ramp improvements at the State Route (SR) 237/Mathilda Avenue and US 101/Mathilda Avenue interchanges.		Yes	Yes	Yes	Yes
17-07-0034	Santa Clara	US 101 Interchanges Improvements: San Antonio Rd. to Charleston Rd./Rengstorff Ave.	Improve U.S. 101 interchanges at San Antonio Road to Charleston Road/Rengstorff Avenue including new auxiliary lane.		Yes	Yes	Yes	
17-07-0035	Santa Clara	US 101/Buena Vista Ave. Interchange Improvements	Construct a full interchange at US 101 and Buena Vista Avenue in Gilroy. The interchange includes a flyover southbound on-ramp to braid with the existing truck exit at the CHP Inspection Station. Off-ramp diagonal ramps will be constructed.		Yes	Yes	Yes	
17-07-0036	Santa Clara	SR 85 Northbound to Eastbound SR 237 Connector Ramp and Northbound SR 85 Auxiliary Lane	Widen off-ramp from Northbound SR 85 to SR 237 Eastbound to two lanes; construct auxiliary lane on Eastbound SR 237 between SR 85 on-ramp to Middlefield Rd.; construct braid off-ramp on Eastbound SR 237 between SR 85 and Dana St.		Yes	Yes	Yes	
17-07-0037	Santa Clara	SR 85/El Camino Real Interchange Improvements	Improve SR 85 auxiliary lanes between El Camino Real and SR 237, and SR 85/El Camino Real interchange.		Yes	Yes	Yes	
17-07-0038	Santa Clara	US 101/Blossom Hill Rd. Interchange Improvements	Widen interchange at U.S. 101/Blossom Hill Road.		Yes	Yes	Yes	Yes
17-07-0039	Santa Clara	US 101/Old Oakland Rd. Interchange Improvements	Improve interchange at U.S. 101/Old Oakland Road.		Yes	Yes	Yes	
17-07-0040	Santa Clara	US 101/Shoreline Blvd. Interchange Improvements	Interchange improvements at Shoreline Boulevard.				Yes	
17-07-0042	Santa Clara	SR 237/Great America Parkway WB Off- Ramps Improvements	Modify WB off-ramps at the SR 237/Great America Parkway interchange to improve traffic operations and relieve congestion.		Yes	Yes	Yes	
17-07-0043	Santa Clara	SR 237/El Camino Real/Grant Rd. Intersection Improvements	Widen Westbound SR 237 within the existing median to extend both of the left-turn lanes; lengthen the Northbound El Camino Real right-turn lane onto SR 237 starting the lane at Yuba Drive; widen the Southbound El Camino Real left-turn lane within the existing median; and construct a right-turn lane on Southbound El Camino Real for traffic accessing Westbound Grant Rd.		Yes	Yes	Yes	
17-07-0044	Santa Clara	Double Lane Southbound US 101 off-ramp to Southbound SR 87	Widen Southbound US 101 freeway connector to Southbound SR 87 to add a second lane and install TOS.	Yes	Yes	Yes	Yes	
17-07-0051	Santa Clara	Widen Calaveras Blvd. overpass from 4 to 6 lanes	Replaces the existing four lane bridge, which currently has a single sidewalk and no bicycle lane over the Union Pacific (UP) Railroad tracks, to a six lane bridge. Project will also add sidewalks and bicycle lanes in both directions.		Yes	Yes	Yes	
17-07-0056	Santa Clara	Bus Stop Improvements	Enhance transit waiting environments by improving accessibility and amenities at VTA bus stops.					
17-07-0057	Santa Clara	Frequent Core Bus Network - 15 minutes	Provide 15-minute all day bus service on VTA's highest ridership routes	Yes	Yes	Yes	Yes	
17-07-0058	Santa Clara	SR 85 Corridor Improvements - reserve amount	This program will fund corridor transit studies that improve transit connectivity and reduce traffic congestion in this corridor. It also includes a reserve amount for future projects along SR 85 that would be funded with Measure B sales tax revenue.					
17-07-0059	Santa Clara	Implement Stevens Creek Rapid Transit Project	Implement Rapid Transit improvements in the Stevens Creek corridor including: dedicated guideways, signal prioritization, low-floor boarding, ticket vending machines, premium BRT stations, real-time information, and specialized vehicles.		Yes	Yes	Yes	Yes
17-07-0060	Santa Clara	North First Street light rail speed Improvements	This project would improve light rail service and reliability along North First Street. Some of the problems in this area include signal timing issues, slow speeds (maximum speed currently restricted to 35mph), and unscheduled stops. Fencing along this corridor would allow maximum speeds to increase to 45 mph combined with improvements to signal timing.	Yes	Yes	Yes		
17-07-0061	Santa Clara	Extend Capitol Expressway light rail to Eastridge Transit Center - Phase II	Extends the Capitol Avenue light rail line 2.6 miles from the existing Alum Rock Transit Center to a rebuilt Eastridge Transit Center. Includes the removal of HOV lanes on Capitol Expressway between Capitol Avenue and Tully Road in San Jose.		Yes	Yes	Yes	Yes
17-07-0062	Santa Clara	Extend light-rail transit from Winchester Station to Route 85 (Vasona Junction)	Extends light rail from Winchester Station to Route 85 (Vasona Junction).		Yes	Yes	Yes	Yes
17-07-0063	Santa Clara	Mineta San Jose International Airport APM connector - planning and environmental	Conduct planning and design work on a proposed project that would provide a transit link to San Jose International Airport using automated People Mover (APM) technology.					Yes
17-07-0064	Santa Clara	County Safety, Security, Noise and Other	Noise abatement program countywide - This project will implement noise reduction projects throughout Santa Clara County.					Yes
17-07-0065	Santa Clara	Caltrain Station and Service Enhancements	Projects to improve Caltrain service, system performance and stations including full EMU conversion, longer vehicles, longer platforms, level boarding, parking improvements, bike facilities, transit connectivity, other station enhancements and track reconfigurations.					Yes
17-07-0066	Santa Clara	Future Transit Corridor Studies	This program includes future transit corridor studies throughout Santa Clara County.					
17-07-0067	Santa Clara	SR 17 Corridor Congestion Relief in Los Gatos	Operational improvements for the SR 17 Corridor, including upgrading Highway 17/Highway 9 interchange to improve pedestrian and bicycle safety, mobility, and roadway operations; deploying advanced transportation technology to reduce freeway cut thru traffic in Los Gatos, including traffic signal control system upgrades in Los Gatos, traveler information system, advanced ramp metering systems and multi-modal congestion relief solutions.		Yes	Yes	Yes	

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17-07-0068	Santa Clara	237 WB Additional Lane from McCarthy to North First	Corridor Improvements in the cities of San Jose, Santa Clara and Milpitas to address mainline congestion and regional connectivity by the addition of SR 237 westbound auxiliary lane between McCarthy Boulevard and North First Street		Yes	Yes	Yes	
17-07-0069	Santa Clara	US 101/SR 25 Interchange	The project consists of reconfiguring the interchange at US 101 and SR 25 just south of the City of Gilroy in Santa Clara County, connecting SR 25 and Santa Teresa Boulevard, and widening the existing freeway from 4 to 6 lanes from the Monterey Street interchange to the US 101/SR 25 interchange.		Yes	Yes	Yes	
17-07-0070	Santa Clara	SR 237 Express Lanes: North First St. to Mathilda Ave.	Convert HOV to express lane in both directions		Yes	Yes	Yes	Yes
17-07-0074	Santa Clara	SR 85 Express Lanes: US 101 (South San Jose) to Mountain View	SR 85 typically has 1 HOV lane and 2 general purpose lanes in both directions with auxiliary lane in some segments. Project will convert existing HOV lane to express lane and add a second express lane between SR 87 and I-280 in both directions.		Yes	Yes	Yes	Yes
17-07-0075	Santa Clara	US 101 Express Lanes: Whipple Ave. in San Mateo County to Cochrane Road in Morgan Hill	Convert HOV Lanes to express lane and add a second express lane in some segments.		Yes	Yes	Yes	Yes
17-07-0076	Santa Clara	Santa Clara County Express Lanes Operations and Maintenance	This program includes operations and maintenance for the Santa Clara County (VTA) Express Lanes.					
17-07-0077	Santa Clara	BART – Warm Springs to Berryessa Extension (SVBX)	The project entails design, ROW, construction, equipment and Rolling Stock procurements necessary to extend BART to the future Berryessa Station in San Jose. Improvements will include track, bridges, traction electrification, stations, parking areas, fare vending equipment and other ancillary operating and/or maintenance equipment.	Yes	Yes	Yes	Yes	Yes
17-07-0078	Santa Clara	Envision Expressway (Tier 1 Expressway Plan) Major and Minor Projects	Various operational and capacity improvements to expressways in Santa Clara County comprising the Tier 1 investments from the Santa Clara County Expressway Plan. These projects include capacity improvements for Almaden Expressway, Capitol Expressway, Foothill Expressway, Lawrence Expressway, Montague Expressway, Oregon-Page Mill Expressway, San Tomas Expressway, Santa Teresa Boulevard. This project also includes the following ITS/Signal upgrades: Replace/upgrade/add fiber optic lines; upgrade equipment for new technologies; systemwide pedestrian sensors; enhance/replace bicycle and vehicle detection with new technologies on the County expressways	VARIES	Yes	Yes	Yes	Yes
17-07-0079	Santa Clara	Envision Highway Minor Projects	Includes: I-280 NB Second exit lane to Foothill Expressway; SR 17 SB/Hamilton Ave Off-Ramp widening; San Tomas expressway at SR-17 Improvements; US101/SR 152 10th Street Ramp and Intersection Improvements; and Charcot Avenue Extension over I-880					
17-07-0080	Santa Clara	Alum Rock/Santa Clara Street Bus Rapid Transit	Implement Rapid Transit improvements in the Santa Clara/Alum Rock route, including: dedicated guideways, signal prioritization, ticket vending machines, premium stations, real-time information, and specialized vehicles.	Yes	Yes	Yes	Yes	
17-07-0081	Santa Clara	I-880 Express Lanes: SR-237 to US-101	Convert existing HOV lane to an express lane in both directions between SR 237 and US 101		Yes	Yes	Yes	
17-07-0082	Santa Clara	SR-87 Express Lanes: I-880 to SR-85	Convert existing HOV lane to an express lane in both directions between I-880 and SR-85		Yes	Yes	Yes	
17-07-0083	Santa Clara	I-680 Express Lanes: SR-237 to US-101	Convert existing general purpose lane to an express lane in both directions between SR-237 and US-101		Yes	Yes	Yes	
17-07-0084	Santa Clara	I-280 Express Lanes: US-101 to Magdalena Avenue	Convert existing HOV lane to an express lane in both directions between US 101 and Magdalena Avenue		Yes	Yes	Yes	
17-07-0085	Santa Clara	Santa Clara County Express Lanes - Environmental and Design Phase for Future Segments	This program includes environmental and design phases for future express lane segments in Santa Clara County, including along I-880, US 101 south of Morgan Hill, and for Highway 17					
17-07-0086	Santa Clara	Santa Clara County Express Lanes - Reserve	This program includes future revenue from express lanes in Santa Clara County					
17-07-0087	Santa Clara	Widen San Tomas Expressway to 8 Lanes from Stevens Creek Blvd to Campbell Ave	Widen San Tomas Expressway from 6 to 8 Lanes from Stevens Creek Blvd to Campbell Ave.		Yes	Yes	Yes	
17-07-0088	Santa Clara	Senter Road Widening from Umbarger to Lewis	Widening Senter Road between Umbarger Rd. and Lewis Rd. from 4 to 6 lanes with improved bicycle/ped facilities and install median landscaping.		Yes	Yes	Yes	
17-07-0089	Santa Clara	South Bascom Complete Streets	On South Bascom Ave. from Parkmoor Ave. to Southwest Expressway reduce the road to two lanes and make bicycle and pedestrian improvements in the corridor.		Yes	Yes	Yes	
17-07-0090	Santa Clara	Widen Brokaw Bridge over Coyote Creek	Widen north side of the bridge to add on additional through traffic lane on westbound Brokaw Road.					
17-07-0091	Santa Clara	Widen Oakland Road from 4-lanes to 6-lanes between U.S. 101 and Montague Expressway	Widens Oakland Rd. from 4 to 6 lanes between US 101 and Montague Expwy. Also provides median island landscaping and operational improvements in roadway corridor.		Yes	Yes	Yes	
17-08-0001	Solano	Access and Mobility Program	This category includes projects that improve access and mobility for people with disabilities, low-income residents, and seniors, including providing Lifeline transit service countywide and providing transit service to seniors and individuals with disabilities separate from Lifeline					Yes
17-08-0002	Solano	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps					Yes
17-08-0003	Solano	Climate Program: TDM and Emission Reduction Technology	Projects in this category implement strategies and programs that reduce emissions, encourage alternative transportation modes, and manage transportation demand including but not limited to projects such as TDM program implementation, parking management, local area shuttle and paratransit services					Yes
17-08-0004	Solano	County Safety, Security and Other	Projects in this category address safety, security and other needs. This project includes safety improvements to state highways throughout Solano County. This also includes countywide Safe Routes to School projects.					Yes
17-08-0005	Solano	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements					Yes
17-08-0006	Solano	PDA Planning	This category includes planning studies supporting the region's PDA framework and connecting transportation and land use					

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17-08-0007	Solano	Minor Roadway Expansions	This category includes roadway capacity increasing projects (new roadways or widening/extensions of existing roadways) on minor roads throughout Solano County					Yes
17-08-0008	Solano	Roadway Operations	This category includes projects that improve roadway, intersection, or interchange operations, ITS, as well as other transportation system management. This project also includes a realigning SR 113 around downtown Dixon to I-80.					Yes
17-08-0009	Solano	I-80/I-680/SR12 Interchange (Packages 2-7)	Packages 2-7 provide direct connectivity from I-680 NB to SR12 WB, widens I-680 and I-80 near the interchange, and improves connections to Red Top road off-ramp. Express lane direct connectors are included in RTPID 17-10-0061.			Yes	Yes	
17-08-0010	Solano	Improve interchanges and widen roadways serving Solano County Fairgrounds, including Redwood Parkway	Improvements to interchanges and widening of roadways serving the Solano County Fairgrounds, including Redwood Parkway.		Yes	Yes	Yes	Yes
17-08-0011	Solano	Provide auxiliary lanes on I-80 in eastbound and westbound directions from I-680 to Airbase Parkway	Project provides Auxiliary Lanes on I-80 in the EB & WB directions from I-680 to Airbase Parkway; and removes the I-80/Auto Mall hook ramps and C-D road slip-ramp;		Yes	Yes	Yes	
17-08-0012	Solano	Construct 4-lane Jepson Parkway from Route 12 to Leisure Town Road at I-80	Constructs phase 2,3,4,6,7,8 and 10. Road costs only - bike and other special enhancements assumed from other programs (i.e. Regional Bicycle Program).		Yes	Yes	Yes	Yes
17-08-0013	Solano	Conduct planning and design studies along SR-12 corridor in Solano County	Conduct planning and design studies related to improvements from I-80 to the Rio Vista Bridge					
17-08-0014	Solano	Construct train station building and support facilities at the new Fairfield / Vacaville multimodal station	Construct train station building and expanded bicycle access for the new multimodal center serving the Capitol Corridor.	Yes	Yes	Yes	Yes	
17-08-0015	Solano	Solano MLIP Support Projects	Construct projects and operate programs to support implementation of the MLIP. Projects include expansion of transit centers, including in Vallejo and Fairfield, and new bus stops served by Solano Express; construction or expansion of Park and Ride facilities; and replacement and maintenance of intercity buses.		Yes	Yes	Yes	Yes
17-08-0016	Solano	Vallejo Station Parking Structure Phase B	Vallejo: Baylink Ferry Terminal; Construct two phased parking structure to consolidate surface parking for ferry patrons; create a pedestrian link between bus transit facility and existing ferry terminal building adjacent to ferry parking structure.					
17-08-0017	Solano	I-80 WB Truck Scales	Project upgrades existing truck scales on WB I-80 in Solano County. Existing westbound truck scales are located on the most congested freeway segment of I-80 in Solano County. Scales are outdated and cannot process the current and future truck volumes on WB I-80. Trucks are slow to enter and leave the scales because of short ramps, adding to existing traffic congestion and safety issues on I-80.					
17-09-0001	Sonoma	Bicycle and Pedestrian Program	Projects in this category are new bicycle (on-street and off-street) and pedestrian facilities, and facilities that connect existing network gaps					Yes
17-09-0002	Sonoma	SMART Rail Freight Improvements	Improvements along publicly-owned SMART rail right-of-way to accommodate rail freight services and expansions. Programmatic category that could include freight spurs, Positive Train Control/systems and crossing upgrades, track and sidings expansions and bridge improvements.					
17-09-0003	Sonoma	Multimodal Streetscape	Projects in this category implement multimodal or complete streets elements.					Yes
17-09-0004	Sonoma	Minor Roadway Expansions	This category includes roadway capacity increasing projects (new roadways or widening/extensions of existing roadways) on minor roads such as Airport Boulevard, Caulfield Lane, Bodway Parkway, Brickway Blvd/Laughlin Rd, Corby Avenue, Dowdell Avenue, Fulton Road, Old Redwood Highway, River Road, Snyder Lane, and Jaguar Way					Yes
17-09-0005	Sonoma	Roadway Operations	This category includes projects that improve roadway, intersection, or interchange operations, ITS, as well as other transportation system management. This project also includes landscaping along US 101 HOV lanes, intersection improvements at Route 116/Route 121, local circulation in Penn Grove, Sonoma Boulevard Improvements, among other operational improvements throughout Sonoma County.					Yes
17-09-0006	Sonoma	Implement Marin Sonoma Narrows Phase 2 (Sonoma County)	Adds 1 HOV lane in each direction to US 101 from Old Redwood Highway in Petaluma to the Marin/Sonoma County line making the freeway 6 lanes wide. It includes widening and replacing the Hwy 116 separation bridges.		Yes	Yes	Yes	Yes
17-09-0008	Sonoma	Arata Lane Interchange	Construction of the Northbound on-ramp to US 101 will complete the Arata Lane interchange with US 101. This project also includes the relocation of a portion of Los Amigos Road north of Arata Lane. Rights of way have been obtained in prior phases.		Yes	Yes	Yes	
17-09-0009	Sonoma	Cotati US 101/Railroad Avenue Improvements (incl. Penngrove)	This project is the creation of a new south bound off ramp and north bound on ramp at Railroad Avenue. There continues to be growth outside of Cotati and Penngrove that will exacerbate traffic in both Penngrove and in downtown Cotati, as these are the only options to access US 101. Improvements would include safety improvements on Railroad Avenue from Petaluma Hill to US 101.			Yes	Yes	
17-09-0010	Sonoma	Hearn Avenue Interchange	The project would replace the existing Hearn Avenue overcrossing bridge with a new bridge to accommodate four traffic lanes with bike lanes and sidewalks on both sides of the roadway. The project would also increase the bridge height clearance and improve ramp connections to US 101 and provide continuous bike lanes and sidewalks between Corby Avenue and Santa Rosa Avenue				Yes	Yes
17-09-0011	Sonoma	Shiloh Road Interchange Reconstruction	Reconstruct the Shiloh Road/US 101 interchange to provide two lanes in each direction. It is anticipated that the existing over crossing will be replaced and ramps reconfigured. It is expected that 60% of project costs will come from federal, state or regional funds.			Yes	Yes	



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17-09-0012	Sonoma	Cotati Highway 116 Cotati Corridor Improvements	This project is a widening of Highway 116 between US 101 and Stony Point Road, including phased closure of driveway access to 116, the addition of signalized intersections, new bike lanes, and new sidewalk to improve the vehicle LOS, improve the safety of 116 for all modes of transportation, and create safe new corridors for pedestrian and bicyclists.	Yes	Yes	Yes	Yes	
17-09-0013	Sonoma	Petaluma Crosstown Connector and Rainier Interchange	Extend Rainier Avenue from current terminus at McDowell Boulevard westerly with a bridge crossing over the railroad tracks and the Petaluma River to a terminus at Petaluma Boulevard North. A second phase of work will construct a new interchange with the 101.		Yes	Yes	Yes	
17-09-0014	Sonoma	Farmers Lane extension between Bennett Valley Rd and Yolanda Avenue	Construct new road with travel lanes, bike lanes and sidewalks. Expand bike, pedestrian, transit, and vehicle improvements in Southeast Santa Rosa.		Yes	Yes	Yes	
17-09-0015	Sonoma	Road Diet Extension - Petaluma Boulevard South	Reduce Petaluma Boulevard from E-Street to Crystal Lane (Roundabout) from 4 through lanes to 2 through lanes and a two-way-left-turn-lane	Yes	Yes	Yes	Yes	
17-09-0016	Sonoma	SMART Petaluma Infill Station	Construct a second SMART station in the City of Petaluma including associated amenities.	Yes	Yes	Yes	Yes	
17-09-0017	Sonoma	Enhance bus service frequencies in Sonoma County	Enhance transit to achieve a 50% increase in bus service countywide - this includes Sonoma County Transit, Santa Rosa CityBus, Petaluma Transit. Project also includes BRT-like facilities in Santa Rosa.	Yes	Yes	Yes	Yes	
17-09-0018	Sonoma	SMART Rail Extension to Windsor + Environmental to Cloverdale + Bike Path	Project extends SMART from the Sonoma Airport to Windsor, implements the SMART bike path, and includes additional environmental/planning assessment of extending SMART to Healdsburg and Cloverdale.	Yes	Yes	Yes	Yes	
17-10-0001	AC Transit	AC Transit Fleet Expansion and Major Corridors	Purchases rolling stock for enhanced transbay, local, or express services.		Yes	Yes	Yes	
17-10-0003	AC Transit	San Pablo Avenue BRT	Project implements BRT along San Pablo Avenue in Alameda and Contra Costa counties. This includes a bus-only lane from 20th Street to Ashby Avenue in Alameda County and from Richmond Parkway Center to Central Avenue in Contra Costa County. Project also includes enhanced real-time info, queue jump lanes where bus-only lane is not proposed, new buses and on-board equipment, and passenger amenities.		Yes	Yes	Yes	
17-10-0004	AC Transit	Environmental Studies for Bay Bridge Contraflow Lane	This project includes further environmental and planning studies for the proposed Bay Bridge Contraflow lane, which would convert an EB lane on the bottom deck of the Bay Bridge into a peak-period WB lane in the AM period. This lane would likely be used by buses and carpool vehicles.					
17-10-0005	BART	BART Metro Program + Bay Fair Connector	Investments in support of the region's Sustainable Communities Strategy, including studies of a future Transbay Corridor rail crossing. Capital: Turnbacks/crossovers/tail track extensions (24th St, Lafayette, Glen Park, Millbrae, Dublin, Daly City, Richmond, South Hayward); Station capacity improvements (platform doors at 4 downtown SF stations, additional stairs/escalators/elevators) Operating: 12-minute headways on all lines in the peak period (instead of current 15-minutes) Bay Fair Connector: Modify BART Bay Fair Station and approaches to add one or more additional tracks and one or more passenger platforms for efficient train service and operational flexibility. Includes station modernization, modifications to switches, track crossovers, train control, signaling, traction power, etc.		Yes	Yes	Yes	Yes
17-10-0006	BART	BART Transbay Core Capacity Project	The Transbay Corridor Core Capacity Project is a multi-pronged effort to address capacity issues in the Transbay corridor and is in coordination with the BART Metro Program project. The project elements are: • Communication-based train control (CBTC) system to safely enable closer headways and allow BART to operate more frequent service (12 minute frequencies); • Expansion of the rail car fleet by 306 vehicles to add cars to existing trains and operate more frequent trains; • Added traction power substations to allow more frequent service; • Expansion of the Hayward Maintenance Complex (HMC) to provide storage and maintenance capability for the expanded fleet; • Other (Unallocated contingency) Financing cost is included in RTPID 17-10-0016					Yes
17-10-0007	CAHSR	California HSR in the Bay Area	This project implements the segment of California High Speed Rail that is in the Bay Area.		Yes	Yes	Yes	
17-10-0008	Caltrain	Caltrain Electrification Phase 1 + CBOSS	The Peninsula Corridor Electrification Project (PCEP) includes the electrification of the Caltrain corridor between San Francisco and San Jose, the procurement of new, Electric Multiple Unit rolling stock, and an increase in the Caltrain service levels. This project also includes CBOSS, which is the Communications Based Overlay Signal System (CBOSS) Positive Train Control necessary to monitor and control train movements as well as increase safety.		Yes	Yes	Yes	Yes
17-10-0009	GGBHTD	Golden Gate Bridge Capital and Operations	This program includes operations and maintenance for the Golden Gate Bridge.					Yes
17-10-0010	GGBHTD	Bus and Ferry Service Expansion	This program includes planned bus and ferry expansion projects such as new express bus service between East Santa Rosa and San Francisco; between Richmond and San Rafael; and between Central Marin and West San Francisco. This program also includes off-site parking and an additional Larkspur Ferry crossing.		Yes	Yes	Yes	
17-10-0011	Multi-County	Lifeline, Community Based Transportation Program, and Mobility Management	The Lifeline Transportation Program funds priority projects identified by residents in MTC's Communities of Concern through locally crafted Community-Based Transportation Plans. Projects can include community shuttles, transit services, streetscape improvements and bus stop amenities. Additionally, this program includes \$90 million for a future mobility management program. Mobility management enables communities to monitor transportation needs and to link individuals to appropriate, cost-efficient travel options.					Yes

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17-10-0012	Multi-County	Means-Based Fare Study Implementation	This program would implement the recommendations from MTC's Means-Based Fare Study, which launched in 2015 to determine if a transit fare program based on household income would be feasible and effective. This study will identify possible fare structures and payment methods, eligible recipients, overall program costs, and potential technical challenges.					
17-10-0013	Multi-County	Transportation Management Systems	This program replaces and rehabilitates the physical ramp meters, induction loops and cameras used to manage traffic real-time and to collect traffic data for planning purposes. This program also maintains and replaces telecommunication networks connecting all field devices with potential to transition from copper lines to fiber optics. Related to the SHOPP program (RTPID 17-10-0025)					Yes
17-10-0014	Multi-County	Bay Trail - non toll bridge segments	This program would complete the Bay Trail along the shoreline. This program does not include the segments of the Bay Trail that would cross the Bay via toll bridges.					
17-10-0015	Multi-County	Climate Program: TDM and Emission Reduction Technology	MTC's Climate Initiatives Program includes transportation demand management (TDM) strategies, car sharing, vanpool incentives, alternative fuel/vehicle initiatives, targeted transportation alternatives, trip caps and commuter benefits ordinances.					Yes
17-10-0016	Multi-County	Cost Contingency and Financing	This program includes future financing costs for capital projects such as for BART's Transbay Core Capacity Project (RTPID 17-10-0006). It also would cover contingency for major capital projects, if needed.					
17-10-0017	Multi-County	Capital Projects Debt Service	This program includes on-going payments to debt service resulting from past financing of revenue, especially for bridge toll and sales tax revenue sources.					Yes
17-10-0018	Multi-County	Goods Movement Clean Fuels and Impact Reduction Program	Program for implementing recommendations of the Freight Emission Reduction Action Plan and developing programs for impact reduction in neighborhoods with high levels of freight activity.					
17-10-0019	Multi-County	Goods Movement Technology Program	Program for deploying communications infrastructure to increase active traffic management along freight corridors and to/from the Port of Oakland					
17-10-0020	Multi-County	New/Small Starts Reserve	This is a reserve for future FTA funds (Section 5309) that are referred to as New Starts, Small Starts, or Core Capacity funding. This reserve is for future transit projects eligible for these funds and that serve the North or East Bay.					
17-10-0021	Multi-County	Priority Development Area (PDA) Planning Grants	This program includes Priority Development Area (PDA) Planning Grants and associated programs					Yes
17-10-0022	Multi-County	Local and Streets and Roads - Existing Conditions	This program includes local streets and roads maintenance throughout the region, including pavement and non-pavement assets					Yes
17-10-0023	Multi-County	Local Streets and Roads - Operations	This program includes on-going operations of the local streets and roads throughout the region					Yes
17-10-0024	Multi-County	Regional and Local Bridges - Existing Conditions	This program includes operations and maintenance of regional and local bridges. Golden Gate Bridge operations and maintenance is in a separate program (RTPID 17-10-0009)					Yes
17-10-0025	Multi-County	Regional State Highways - Existing Conditions	This program includes operations and maintenance of the state highways within the Bay Area. This program generally implements the SHOPP, which also includes minor mobility enhancements and management systems.					Yes
17-10-0026	Multi-County	Regional Transit Capital - Existing Conditions	This program includes capital maintenance and replacement funding for the region's transit operators. Types of projects in this category mostly include replacing vehicles and fixed-guideway assets like rail that have a direct impact on service. To a lesser extent, this program includes station upgrades and replacing other assets that do not directly affect revenue service.					Yes
17-10-0027	Multi-County	Regional Transit Operations	This program covers the costs to operate the Bay Area's existing transit service every year through the Plan horizon.					Yes
17-10-0028	Multi-County	Clipper	This program covers annual operating costs of Clipper as well as the upgrade of Clipper to Clipper 2.0.					Yes
17-10-0029	Multi-County	511 Traveler Information Program	This program covers the 511 program in the Bay Area. 511 includes a transit trip planner, real-time transit information, up-to-the minute traffic information, carpool and vanpool formation services and parking information.					Yes
17-10-0030	Multi-County	SAFE Freeway Patrol	This program covers MTC's Service Authority for Freeways and Expressways, or SAFE, program. MTC-SAFE manages the Bay Area's fleet of Freeway Service Patrol tow trucks and roadside call boxes.					Yes
17-10-0031	Multi-County	Regional Transportation Emergency Management Program	This program enhances first responders' capabilities to clear traffic incidents and respond to major emergencies through integrated corridor management.					
17-10-0032	Multi-County	Regional Rail Station Modernization and Access Improvements	This program includes station modernization and access improvements for rail station throughout the region.					Yes
17-10-0033	Multi-County	Bay Area Forward	This program includes a variety of operational and multimodal improvements, including: active traffic management - upgrades to all existing ramp meters to adaptive, implementing hard shoulder running lanes, contra-flow lanes, queue warning, and ramp modifications; arterial operations - implementation of traditional time-of-day signal timing coordination, adaptive traffic signal control systems, transit signal priority, real-time traffic monitoring devices, ped/bike detection, queue-jump lanes, etc; connected vehicles - pilot deployments of vehicle-to-infrastructure (V2I) strategies; Managed Lanes Implementation Plan - pilot express bus service for routes not currently served by operators; expands park-and-ride facilities throughout the region; and supports pilot deployment of shared-mobility solutions.	VARIES	VARIES	VARIES	Yes	Yes
17-10-0034	Multi-County	San Francisco-Oakland Bay Bridge West Span Bicycle, Pedestrian, and Maintenance Path - Environmental Only	This project continues environmental and design work on the proposed bicycle, pedestrian, and maintenance path on the west span of the Bay Bridge.					

List of Amended Plan Bay Area 2040 Transportation Projects/Programs

RTPID	County/ Sponsor	Title	Description	Complete and Operational By:			Included in the Model?	Referenced in the 2017 TIP
				2020	2030	2040		
17-10-0036	Multi-County	I-580 Access Improvements Project	Project converts the right shoulder of the Richmond-San Rafael Bridge to a third freeway lane from the Sir Francis Drake Blvd. on-ramp in Marin County to the Marine Street (Richmond Parkway/Point Richmond) exit in Contra Costa County. Project also constructs a path on the north side of I-580, including the upper deck of the Richmond-San Rafael Bridge, <u>with concrete barriers to separate bicyclists and pedestrians from westbound freeway traffic.</u>	Yes	Yes	Yes	Yes	Yes
17-10-0037	Multi-County	Highway 37 Improvements and Sea Level Rise Mitigation PSR	Prepare multi-county study, to PID standard, on improvements to SR 37 to accommodate future sea level rise and existing congestion					
17-10-0038	TJPA	Caltrain/HSR Downtown San Francisco Extension	The Downtown Rail Extension (DTX) will extend Caltrain commuter rail from its current terminus at Fourth and King streets and deliver the California High-Speed Rail Authority's future high-speed service to the new Transit Center. The 1.95-mile rail extension will be constructed principally below grade underneath Townsend and Second streets. The design includes an underground station at Fourth and Townsend streets, utility relocations, rail systems work, and structures for emergency exit, ventilation at six locations along the alignment, and an underground pedestrian bridge connecting the Transbay Terminal to the Embarcadero BART station. Cost includes operating expenses - capital cost is \$3.999 billion		Yes	Yes	Yes	Yes
17-10-0039	TJPA	Implement Transbay Transit Center/Caltrain Downtown Extension (Phase 1 - Transbay Transit Center)	The project has 3 components: (1) new Transbay Transit Center built on the site of the former Transbay Terminal in downtown San Francisco serving 11 transportation systems; (2) extension of Caltrain commuter rail service from its current San Francisco terminus at 4th & King Streets to a new underground terminus; and (3) establishment of a <u>Redevelopment Area Plan with related development projects.</u>	Yes	Yes	Yes	Yes	Yes
17-10-0040	WETA	North Bay Ferry Service Enhancement	Purchase and operate 2 new ferry vessels for WETA North Bay ferry services. Project increases frequency for the Richmond-SF and Vallejo-SF ferry lines.	Yes	Yes	Yes	Yes	
17-10-0041	WETA	Central Bay Ferry Service Enhancement	Purchase and operate 2 new ferry vessels for WETA Central Bay ferry services. Project increases frequency for the Oakland-Alameda-SF ferry line and the Harbor Bay-SF ferry line.	Yes	Yes	Yes	Yes	Yes
17-10-0042	WETA	Albany/Berkeley Ferry Terminal	Construct a new Berkeley/Albany ferry terminal, purchase 2 new ferry vessels, operate new ferry service between Berkeley/Albany and San Francisco.		Yes	Yes	Yes	Yes
17-10-0043	Multi-County	Regional Carpool Program	This program includes carpool outreach and promotion, supporting vanpools, positioning the program to rely on private sector ridesharing apps, and other services. The Regional Carpool Program will support carpoolers during the launch of Bay Area Express Lanes, promote carpooling and vanpooling along high-priority congested travel corridors, and grow <u>first/last mile carpool solutions to transit, consistent with its annual work plan. Includes MTC staff costs.</u>					
17-10-0044	Multi-County	I-80 Express Lanes in both directions: Airbase Parkway to Red Top Road	Express Lanes on I-80 in Solano County from Red Top Road to Air Base Parkway - convert existing HOV lanes to express lanes		Yes	Yes	Yes	Yes
17-10-0045	Multi-County	I-80 Express Lanes: Westbound Bay Bridge Approaches	Express Lanes on the four westbound SFOBB bridge approaches: (1) I-80 direct connector from Powell Street to SFOBB metering lights (1.8 miles); (2) I-580 from I-80 junction to metering lights (1 mile); (3) I-880/880S direct connector from 14th Street to metering lights (1.5 miles); (4) West Grand Ave/I-880 direct connector to metering lights (0.7 miles) - <u>convert existing HOV lanes to express lanes</u>		Yes	Yes	Yes	
17-10-0047	Multi-County	I-680 Express Lanes: Northbound from Marina Vista to SR 242	Express Lanes on I-680 northbound from SR-242 to Marina Vista. Convert existing HOV lane to express lanes.		Yes	Yes	Yes	
17-10-0048	Multi-County	I-680 Express Lanes: Southbound from Marina Vista to Rudgear	Express Lanes on I-680 southbound from Marina Vista to Rudgear Rd. Convert existing and future SB HOV lane to express lane. <u>Future SB HOV lane from North Main to Livorna/Rudgear is in RTPID 17-02-0022</u>	Yes	Yes	Yes	Yes	
17-10-0049	Multi-County	I-680 Express Lanes in both directions: Livorna/Rudgear to Alcosta	Express lanes on I-680 in Contra Costa County from Alcosta Road to Livorna northbound and to Rudgear southbound - <u>convert existing HOV lanes to express lanes</u>		Yes	Yes	Yes	Yes
17-10-0050	Multi-County	SR-84 Express Lanes: Westbound from I-880 to Dumbarton Bridge Toll Plaza	Express Lanes on Route 84 westbound in Alameda County from I-880 through Dumbarton Bridge toll plaza - convert existing HOV lane to express lane	Yes	Yes	Yes	Yes	
17-10-0051	Multi-County	SR-92 Express Lanes: Westbound from Hesperian to San Mateo Bridge Toll Plaza	Express Lanes Route 92 WB in Alameda County from Hesperian Boulevard through San Mateo-Hayward Bridge toll plaza - <u>convert existing HOV lane to express lane</u>	Yes	Yes	Yes	Yes	
17-10-0052	Multi-County	I-880 Express Lanes in both directions: Hegenberger/Lewelling to SR-237	Express lane on I-880 in Alameda County from Lewelling Blvd to SR 237 Direct Connector in northbound direction, <u>Hegenberger Rd to SR 237 Direct Connector in the southbound direction- convert existing HOV lanes to express lanes.</u>	Yes	Yes	Yes	Yes	Yes
17-10-0053	Multi-County	I-80 Express Lanes in both directions: Carquinez Bridge to Bay Bridge	Express Lanes on westbound I-80 from Carquinez Bridge Toll Plaza to Powell St Direct Connector on eastbound I-80 from Powell St Direct Connector to Cummings Skyway. Add new express lane on eastbound I-80 from Cummings Skyway to <u>Carquinez Bridge.</u>		Yes	Yes	Yes	Yes
17-10-0054	Multi-County	MTC Express Lane Program Cost	Includes non-corridor activities such as centralized toll system activities, start-up program management, contingency and <u>capitalized O&amp;M.</u>					Yes
17-10-0055	Multi-County	East and North Bay Express Lanes Operations and Maintenance	This program includes on-going operations and maintenance for the express lanes in the East and North Bay counties					
17-10-0056	Multi-County	East and North Bay Express Lanes Reserve	This program includes future revenue from express lanes in the East and North Bay counties					
17-10-0057	Multi-County	I-880 Express Lanes: Northbound from Hegenberger to Lewelling and bridge improvements	I-880 Northbound express lane from Lewelling Blvd to Hegenberger Rd. and reconstruct bridges at Davis Street and Marina Boulevard - widen to add an express lane and reconstruct bridges		Yes	Yes	Yes	Yes
17-10-0058	Multi-County	I-680 Express Lanes: Northbound from SR-84 to SR-237	Express lanes on I-680 in the northbound direction from SR-84 to SR-237 which involves constructing a new lane.		Yes	Yes	Yes	Yes

List of Amended Plan Bay Area 2040 Transportation Projects/Programs

RTPID	County/ Sponsor	Title	Description	Complete and Operational By:			Included in the Model?	Referenced in the 2017 TIP
				2020	2030	2040		
17-10-0059	Multi-County	I-80 Express Lanes in both directions: Airbase Parkway to I-505	I-80 Solano Express Lanes from Air Base to I-505-widen to add an express lane in each direction	Yes	Yes	Yes	Yes	
17-10-0060	Multi-County	I-680 Express Lanes: Northbound from Rudgear to SR 242 and operational improvements	Widen I-680 for a new northbound express lane between N. Main Street and Route 242 and implement operational improvements on I-680 from Rudgear to N. Main. This project complements the NB HOV lane extension through the 680/24 interchange and from N. Main to SR 242 as well as operational improvements included in RTPIDs 17-02-0012 and 17-02-0013.		Yes	Yes	Yes	Yes
17-10-0061	Multi-County	I-680 Express Lanes: I-80 westbound to I-680 southbound and I-680 northbound to I-80 eastbound direct connectors	Express lanes on I-680/I-80 interchange in Solano County - widen to add express lane direct connectors I-80 westbound to I-680 southbound and I-680 northbound to I-80 eastbound. This complements the larger interchange project of RTPID 17-08-0009.		Yes	Yes	Yes	Yes
17-10-0062	Multi-County	East and North Bay Express Lanes - Environmental and Design Phases for Future Segments	This program includes environmental and design phases for future express lane segments in Alameda and Solano counties, including along I-80, I-680, and I-580					
17-10-0063	BART	BART Seismic Safety Augmentation	Alternatives analysis and design associated with the Berkeley Hills Tunnel plus design of the A-Line structural augmentation / improvement to operability standards.					
17-10-0064	BART	Hayward Maintenance Complex Phase 1	This project increases maintenance capacity as part of its Fleet of the Future program as well as to support increased service for the Berryessa Extension. This Phase I project involves constructing an outdoor storage area for maintenance and engineering materials and equipment, building track access to new maintenance facilities from the existing mainline, and improving access for BART maintenance operations.					Yes

**Appendix B**  
**List of Projects in Amended 2017 Transportation Improvement Program**

List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Alameda	ALA050002	17-01-0007	San Leandro	SR 185- E. 14th St/ Hesperian Blvd/150th Ave	San Leandro: 150th/E. 14th/Hesperian; construct NB left turn Ln from Hesperian to E.14th, EB left turn Ln from E.14th to 150th Av & SB Ln from Hesperian to 150th and other traffic circulation	NON-EXEMPT	2040
Alameda	ALA050014	17-01-0032	ACTC	SR 84 Expressway Widening	In Livermore: Widen Route 84 from Jack London Blvd. to Pigeon Pass.	NON-EXEMPT	2020
Alameda	ALA050019	17-01-0031	ACTC	I-880 North Safety Improvements	Oakland: I-880 between 23rd Ave to 29th Ave; Reconfigure Interchange, including new ramps.	NON-EXEMPT	2020
Alameda	ALA070014	17-10-0057	San Leandro	I-880/SR 112 Overcrossing Replacement	San Leandro: at the I-880/SR 112 (Davis St.); Replace overcrossing and widening roadway including interchange landscaping and bridge architectural features.	NON-EXEMPT	2030
Alameda	ALA070042	17-10-0025	ACTC	I-880 SB HOV Lanes - Marina Blvd to Hegenberger	I-880 Corridor: From Marina Blvd in San Leandro to Hegenberger in Oakland; Construct new SB HOV lanes and reconstruction of interchanges at Marina Blvd and Davis St. and soundwall construction.	NON-EXEMPT	2040
Alameda	ALA090012	17-10-0057	San Leandro	I-880/Marina Blvd Interchange and Overcrossing Rep	San Leandro: I-880/ Marina Blvd. Replace overcrossing and widening roadway plus ramp interchange reconfiguration, intersection improvements including interchange landscaping and bridge architectural	NON-EXEMPT	2030
Alameda	ALA090016	17-01-0036	Hayward	Rt 92/Clawiter/Whitesell Interchange Improvements	Hayward: Rt 92/Clawiter Rd. Upgrade existing Clawiter interchange. Add ramps and overcrossing for Whitesell St. extension. Signalize ramp intersections.	NON-EXEMPT	2030
Alameda	ALA090018	17-01-0026	ACTC	Truck Parking Facilities in North County (Phase I)	Alameda County: Provide safe parking facilities in north part of Alameda County.	NON-EXEMPT	2040
Alameda	ALA090019	17-01-0007	ACTC	Corridor Mobility Program & Adaptive Ramp Metering	Central Alameda County: I-880/ I-238/ I-580. Install monitoring and signalization I-880, I-238 and I-580.	NON-EXEMPT	2040
Alameda	ALA090020	17-01-0007	Hayward	I-880 Auxiliary lanes at Industrial Parkway	Hayward: Construct auxiliary lanes on I-880. NB between Industrial Pkwy and Alameda Creek and SB between Industrial Pkwy and Whipple Rd	NON-EXEMPT	2040
Alameda	ALA090021	17-01-0007	Hayward	I-880 NB and SB Auxiliary lanes	Hayward: NB and SB I-880 between West A and Winton. NB I-880 between A St and Paseo Grande.	NON-EXEMPT	2040
Alameda	ALA090026	17-01-0017	Port of Oakland	Outer Harbor Intermodal Terminals (OHIT)	In Oakland: OHIT, a proposed intermodal rail complex, will be located on the former Oakland Army Base and adjacent land. This listing only includes segments implemented by the Port of Oakland. For City	NON-EXEMPT	2030
Alameda	ALA090027	17-01-0015	Port of Oakland	7th St Grade Separation and Port Arterial Improvem	In Oakland: (1) 7th Street Grade Separation project; (2) Middle Harbor Road Improvements project; and (3) Intelligent Transportation Systems and Technology (ITST) Master Plan	NON-EXEMPT	2030
Alameda	ALA110001	17-10-0041	WETA	Central Bay Operations and Maintenance Facility	WETA: Construct a central bay operations and maintenance facility.	NON-EXEMPT	2020
Alameda	ALA110002	17-01-0023	ACTC	I-880/Industrial Parkway West Interchange	At I-880/Industrial Parkway West , reconstruct interchange, add on/off-ramp lanes, widen ramp lanes, provide HOV bypass lanes and routine accommodation for bicyclists and pedestrians.	NON-EXEMPT	2030
Alameda	ALA110003	17-10-0064	BART	Hayward Shop and Yard Expansion	Expansion of the Hayward Shop and Yard to accommodate additional rail vehicles for storage, maintenance and repair.	NON-EXEMPT	2020
Alameda	ALA110046	17-01-0017	Oakland	Oakland Army Base Infrastructure Improvements	In Oakland: At former Oakland Army Base: Implementing Army Base Infrastructure Master Plan including TCIF funded OHIT improvements implemented by City of Oakland. For the related Port project, see	NON-EXEMPT	2030
Alameda	ALA110104	17-01-0001	MTC	Bay Bridge Park	Bay Bridge Park in Alameda County, in Oakland at the Oakland Touchdown of the new East Span of the Bay Bridge (Project previously titled "SFOBB Gateway Park")	NON-EXEMPT	2040
Alameda	ALA130001	17-01-0006	Fremont	Widen Kato Rd from Warren Avenue to Milmont Drive	In Fremont: Widen Kato Road from Warren Avenue to Milmont Drive. Widen Kato Road to four lanes and install bike lanes on both sides of the roadway and modify traffic signal at Kato Rd/Milmont Ave.	NON-EXEMPT	2040

\*Projects with conformity analysis year 2040 reference programmatic projects or projects with a completion date after 2030 in *Plan Bay Area 2040*

List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Alameda	ALA130005	17-01-0053	Dublin	Dougherty Road widening	Dublin: Dougherty Road from Sierra Lane to North City Limit: Widen from 4 lanes to 6 lanes	NON-EXEMPT	2020
Alameda	ALA130006	17-01-0057	Dublin	Dublin Boulevard widening	In Dublin: Dublin Blvd between Sierra Court and Dublin Court: Widen from 4 lanes to 6 lanes.	NON-EXEMPT	2020
Alameda	ALA130014	17-01-0001	Oakland	7th Street West Oakland Transit Village, Phase II	In Oakland: On 7th Street between Wood Street and Peralta Street. Project includes road diet, bicycle lanes, sidewalk enhancement, pedestrian amenities, traffic signal mods, street and pedestrian lights,	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130015	17-01-0001	Oakland	Lake Merritt BART Bikeways	Oakland: Various Streets near the Lake Merritt BART Station: Implement road diets, install high quality bikeways and curb ramps, and resurface the street	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130017	17-01-0001	Oakland	Oakland - Peralta and MLK Blvd Streetscape Phase I	Oakland: Peralta St from 3rd St to 36th St and MLK Jr. Blvd. from West Grand to 40th St: Phase 1 components include bike lanes and racks, street lights, landscaping, new sidewalks and pedestrian	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130024	17-01-0001	Oakland	Lakeside Complete Streets and Road Diet	Oakland: Along Harrison Street and Lakeside Drive between 19th Street and Grand Avenue: implement road diet and install bike and pedestrian facilities	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130025	17-01-0004	Fremont	Fremont City Center Multi-Modal Improvements	Fremont: Capital Ave from State St to Fremont Blvd: Construct roadway extension; Various locations around Fremont City Center and Fremont BART Station: Implement multi-modal improvements to	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130026	17-01-0004	Berkeley	Shattuck Complete Streets and De-couplet	Berkeley: Shattuck Ave, Shattuck Square and Berkeley Square from Allston Way to University Ave intersection: Reconfigure travel lanes and parking, repair pavement and make other improvements	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130027	17-01-0004	Newark	Enterprise Drive Complete Streets and Road Diet	Newark: Enterprise Drive between Filbert Street and approximately 350 feet west of Wells Avenue adjacent to the Dumbarton Transit Oriented Development plan area: Implement Road Diet and rehabilitate	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130028	17-01-0004	Berkeley	Hearst Avenue Complete Streets	In Berkeley: Hearst St from Shattuck Ave to Gayley/La Loma: Implement access and safety improvements to Downtown Berkeley PDA for all modes, includes a road diet from Shattuck Ave to Euclid Ave	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA130032	17-10-0005	BART	BART Metro Priority Track Elements	BART: In Lafayette, Dublin and Millbrae: Provide three critical track extensions in order to provide the BART system with additional operational flexibility and additional capacity, all within existing right-of-	NON-EXEMPT	2030
Alameda	ALA130034	17-10-0058	ACTC	I-680 NB HOV/HOT Lane	Route I-680: from South of Auto Mall Parkway to State Route 84 in Alameda County, construct NB HOV/HOT Lane.	NON-EXEMPT	2030
Alameda	ALA150001	17-01-0029	ACTC	Route 84 widening, Pigeon Pass to I-680	In Alameda County: On SR-84 from Pigeon Pass to I-680 (PM 17.9/22.9): Widen roadway from 2 lanes to 4 lanes; On I-680 from SR 84 to north of Andrade Creek: Construct aux lane; On I-680: extend SB	NON-EXEMPT	2030
Alameda	ALA150003	17-01-0048	Dublin	Dublin Blvd. - North Canyons Pkwy Extension	Dublin: Between Dublin Boulevard and North Canyons Parkway: Build roadway extension	NON-EXEMPT	2030
Alameda	ALA150004	17-01-0060	AC Transit	AC Transit: East Bay Bus Rapid Transit	Alameda County: Along Broadway/ International/E 14th corridor from Oakland to San Leandro: Implement BRT including 34 stations, transit signal priority, level-boarding, shelters, off-board ticketing,	NON-EXEMPT	2020
Alameda	ALA150008	17-01-0001	ACTC	East Bay Greenway	Alameda County: Generally along the BART alignment from Lake Merritt BART station to South Hayward BART station: Install a trail facility consisting of Class I & Class IV bikeway facilities. Includes 2 road	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA150022	17-01-0002	Hayward	City of Hayward Car Sharing Services	Hayward: Various locations: Obtain car sharing services in downtown Hayward and possible additional locations through a competitive RFP process.	NON-EXEMPT - Not Regionally Significant Project	2040

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List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Alameda	ALA150042	17-01-0001	Oakland	Oakland: Telegraph Ave Bike/Ped Imps and Road Diet	HSIP7-04-014: In Oakland: Telegraph Ave from 29th to 45th St: Install crosswalk enhancements, painted bulb-outs, and painted median refuges; from 29th to 41st St: Implement road diet with buffered	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA150043	17-01-0004	Oakland	Oakland: Shattuck and Claremont Bike/Ped Imps	HSIP7-04-016 Oakland: On Claremont from Telegraph to Clifton: Implement road diet with bike lanes; Shattuck at 49th, 51st, 59th St, Alactraz: Construct crosswalk enhancements, RRFBs, bulb-out,	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA150047	17-01-0004	Oakland	Oakland: Telegraph Avenue Complete Streets	In Oakland, on Telegraph Avenue between 20th St and 41st St, implement complete street project inc. road diet, buffered bike lanes, ped crossing improvements, bulbouts, bus boarding islands, traffic	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA170001	17-01-0020	ACTC	State Route 262 (Mission Blvd) Improvements	In Fremont: Mission Blvd/I-680 IC: widen Mission Blvd to 3 lanes each direction through IC, rebuild the NB and SB I-680 on and off ramps	NON-EXEMPT	2030
Alameda	ALA170004	17-01-0041	ACTC	I-880/West Winton Avenue Interchange	In Hayward: At I-880/West Winton Avenue I/C: Reconstruct I/C including reconfiguration of eastbound to southbound on ramp and new connection to Southland Mall Drive	NON-EXEMPT	2030
Alameda	ALA170005	17-01-0021	ACTC	I-880/Whipple Road Interchange Improvements	In Union City/Hayward: at I-880/Whipple Rd Interchange: Implement full interchange improvements including northbound off-ramp, surface street improvements and realignment, and bike/ped	NON-EXEMPT	2030
Alameda	ALA170006	17-10-0052	BAIFA	ALA-880 Express Lanes	In Alameda/Santa Clara Counties: On I-880 from Hegenberger to Dixon Landing (Southbound) and Dixon Landing to Lewelling (Northbound); Convert HOV lanes to express lanes. Project also references	NON-EXEMPT	2020
Alameda	ALA170008	17-01-0028	ACTC	I-580/680 Interchange HOV/HOT Widening	Alameda County: On I-580 between Hacienda Dr. and San Ramon/Foothill Road and on I-680 between Stoneridge Dr. and Amado: Widen to add one HOV/HOT lane for WB 580 to SB 680 and NB 680 to EB	NON-EXEMPT	2030
Alameda	ALA170009	17-10-0058	ACTC	Widen I-680 NB and SB for EL from SR-84 to Alcosta	Alameda County: Northbound I-680 from Route 84 to Alcosta Boulevard: Widen for express lanes	NON-EXEMPT	2030
Alameda	ALA170010	17-10-0057	ACTC	I-880 NB HOV/HOT: North of Hacienda to Hegenberger	Alameda County: I-880 in the northbound direction from north of Hacienda Ave to Hegenberger Road: Widen to provide one HOV/express lane	NON-EXEMPT	2030
Alameda	ALA170011	17-10-0033	MTC	Bay Bridge Forward - West Grand HOV/Bus Only Lane	In Oakland: Grand Avenue on-ramp: Convert shoulder to Bus/HOV only lane	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA170042	17-01-0008	ACE	ACE Platform Extensions	ACE System: At Pleasanton, Livermore, Vasco, Tracy, and Manteca stations: Extend existing ACE platforms to accommodate longer train sets	NON-EXEMPT - Not Regionally Significant Project	2040
Alameda	ALA170043	17-01-0004	Oakland	Oakland - 14th Street Safe Routes in the City	In Oakland: On 14th St between Brush St and Oak St: Reduce travel lanes from 4 to 2, add paved Class IV protected bicycle lanes; transit boarding islands; improve ped facilities including refuges, crossings,	NON-EXEMPT	2040
Alameda	ALA170044	17-10-0005	BART	Bay Fair Connection	BART: At and near Bay Fair Station: Modify station and approaches to add one or more additional tracks and one or more passenger platforms for improved train service and operational flexibility	NON-EXEMPT	2030
Alameda	ALA170045	17-01-0038	Dublin	I-580 Interchange Imps at Hacienda/Fallon Rd, Ph 2	In Dublin: (1) I-580/Fallon Rd I/C Improvements (Phase 2): Reconstruct overcrossing to add lanes; (2) I-580 Hacienda Dr I/C Improvements: Reconstruct overcrossing to add lanes	NON-EXEMPT	2030
Alameda	ALA170046	17-01-0024	Hayward	I-880/A Street Interchange Reconstruction	Hayward: I-880/A St. I/C: Reconstruct interchange to widen A St from 5 to 6 lanes, add bike lanes, and provide additional lane capacity for potential future freeway widening, modify signals and	NON-EXEMPT	2030
Alameda	ALA978004	17-01-0047	ACTC	East-West Connector in Fremont & Union City	In Fremont & Union City: From I-880 to Route 238; Construct new 4-lane roadway and widen existing roadways. Project is phased	NON-EXEMPT	2030

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List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Alameda	ALA991081	17-01-0043	Oakland	42nd Ave. & High St. I-880 Access Improv.	Oakland: Widening and re-alignment of local streets in the vicinity of the I-880/42nd & High interchange. Includes modified traffic signals and intersection improvements.	NON-EXEMPT	2020
Contra Costa	CC-010023	17-02-0019	CCTA	I-680/SR 4 I/C Reconstruction - Phases 1 & 2	At I-680/SR4: Reconstruct I-680/SR4 I/C, provide 2 lane direct connector from NB 680 to WB SR4 w/slip ramps at Pacheco Blvd, and 2 lane direct WB SR4 to SB I-680. Phases 1 and 2. Env Doc covers all	NON-EXEMPT	2030
Contra Costa	CC-030002	17-02-0039	Hercules	Hercules Intercity Rail Station	In Hercules: From I-80/SR-4 to the future train station: Extend John Muir Pkwy including Bayfront Bridge over Refugio Creek, Refugio Creek Restoration, North Channel Culvert, and multi-use trails, utilities,	NON-EXEMPT	2030
Contra Costa	CC-030004	17-02-0009	Martinez	Martinez Intermodal Station Parking Expansion	Martinez: At the Martinez Intermodal Station: Expand parking from 175 spaces to 600 spaces. Project includes adding a pedestrian and a vehicular bridge to access the parking lot.	NON-EXEMPT	2040
Contra Costa	CC-050025	17-02-0047	BART	E-BART - East Contra Costa Rail Extension	Pittsburg/Antioch: East Contra Costa County; Extend Rail Service from the Pittsburg/Bay Point Station into eastern Contra Costa County	NON-EXEMPT	2020
Contra Costa	CC-050028	17-02-0022	CCTA	I-680 SB HOV Lane Completion	Contra Costa County: I-680 from North Main Street to Livorna in the southbound direction: Construct a HOV lane	NON-EXEMPT	2020
Contra Costa	CC-050030	17-02-0004	CC County	Vasco Road Safety Improvements	Contra Costa County: Vasco Road from Walnut Blvd to the Alameda/Contra Costa County line: widen road and place concrete median barrier for 2.5 miles. Phase 1 completed a 1 mile widening segment.	NON-EXEMPT	2040
Contra Costa	CC-050076	17-02-0026	Richmond	I-80/Central Avenue Interchange Modification	I-80/Central Ave; Ph1 Construct new signals and CMS's to redirect I-80 WB on-ramp traffic during weekend peak periods to I-580. Ph2 connect Pierce to San Mateo to relocate signal at Pierce/Central Ave	NON-EXEMPT	2030
Contra Costa	CC-070008	17-02-0007	Antioch	Laurel Road Extension	Antioch: On Laurel Road between Hillcrest and SR4 Bypass; Construct new 4 lane divided extension.	NON-EXEMPT	2040
Contra Costa	CC-070009	17-02-0007	Antioch	Slatten Ranch Road Extension	Antioch: On Slatten Ranch Road between Hillcrest Avenue to Wicklow Road; Construct new 4 lane road.	NON-EXEMPT	2040
Contra Costa	CC-070011	17-02-0030	Brentwood	SR4/Brentwood Boulevard Widening - North (Phase I)	Brentwood: Widen SR4/Brentwood Boulevard from 2 to 4 lanes; Phase I: From Havenwood Avenue to Homecoming Way, including widening of bridge over Marsh Creek. traffic signal modifications, and	NON-EXEMPT	2030
Contra Costa	CC-070022	17-02-0013	CCTA	I-680 NB HOV Lane Extension between N.Main & SR242	Walnut Creek/Pleasant Hill/Concord: On I-680 between N. Main St and SR242; Extend Northbound HOV lanes.	NON-EXEMPT	2030
Contra Costa	CC-070024	17-02-0016	Concord	SR 242 / Clayton Road Interchange Improvements	Concord. Construct NB on-ramp and SB off-ramp at the SR242/Clayton Rd Interchange	NON-EXEMPT	2030
Contra Costa	CC-070035	17-02-0021	CCTA	Reconstruct I-80/San Pablo Dam Rd Interchange	San Pablo: I-80/San Pablo Dam Rd I/C: Reconstruct I/C-relocating WB El Portal on-ramp to the full I/C northwards, providing access to McBryde through a new road from SPDR I/C, and replacing Riverside	NON-EXEMPT	2030
Contra Costa	CC-070046	17-02-0005	El Cerrito	Del Norte Area TOD Complete Street Imps	El Cerrito del Norte BART Station Area: Complete Streets improvements to access, circulation and safety for bicyclists, pedestrians, local and regional bus, rapid bus, and automobile connections to BART	NON-EXEMPT	2040
Contra Costa	CC-070053	17-02-0023	CCTA	SR4: Balfour Road Interchange	Brentwood: Balfour Road/SR4; Construct new interchange.	NON-EXEMPT	2020
Contra Costa	CC-070062	17-02-0042	WETA	Richmond Ferry Service	WETA: Implement new ferry transit service between Richmond and San Francisco.	NON-EXEMPT	2020
Contra Costa	CC-070063	17-02-0007	EB Reg Park Dis	Atlas Road - New Bridge and Roadway Extension	Richmond. Point Pinole Regional Shoreline; Extend Atlas road and construct new 2 lane road bridge with a separated ped/bike trail across UPRR tracks.	NON-EXEMPT	2040
Contra Costa	CC-070075	17-02-0014	CC County	Kirker Pass Road NB Truck Climbing Lanes	Unincorporated Contra Costa County: On Kirker Pass Road from Clearbrook Drive to approximately 1,000 feet beyond the crest of Kirker Pass Road; Construct northbound truck climbing lane and paved	NON-EXEMPT	2020

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Contra Costa	CC-070078	17-02-0007	Brentwood	John Muir Parkway Extension: Ph. II	Contra Costa County: John Muir Parkway northerly from Briones Valley Rd to a logical termini on Concord Avenue: Extend roadway(1 lane + 1 bike lane per direction).	NON-EXEMPT	2040
Contra Costa	CC-070081	17-02-0015	CC County	Byron Highway - Vasco Road Connection	Contra Costa County: between Byron Highway and Vasco Road: Construct an east-west connection road	NON-EXEMPT	2040
Contra Costa	CC-090019	17-02-0007	San Ramon	Bollinger Canyon Road Widening (Alcosta to SRVB)	San Ramon: Bollinger Canyon Road between Alcosta Blvd and San Ramon Valley Blvd: Widen from six to eight lanes. Project is phased.	NON-EXEMPT	2040
Contra Costa	CC-090023	17-02-0008	Concord	Concord Clayton Road/Treat Blvd Intersection Imps.	Concord: Clayton Rd and Treat Blvd: Constructing geometric improvements and upgrade traffic signal to improve operational efficiency and increase capacity	NON-EXEMPT	2040
Contra Costa	CC-090026	17-02-0032	Concord	Ygnacio Valley Road Widening	Concord: Ygnacio Valley Road from Michigan Boulevard to Cowell Road: widen from 4 lanes to 6 lanes	NON-EXEMPT	2030
Contra Costa	CC-130002	17-02-0047	BART	eBART Railroad Avenue Station	Pittsburg: on eBART corridor at Railroad Ave: Design and construction of station	NON-EXEMPT	2020
Contra Costa	CC-130005	17-02-0008	Pleasant Hill	Golf Club Rd Roundabout and Bike/Ped Improvements	Pleasant Hill: Golf Club Rd from CC Canal Regional Trail to east of Old Quarry Rd, Old Quarry Rd from Golf Club Rd to Chilpancingo Pkwy: Install bike/ped imprvmnts, construct roundabout, and rehab	NON-EXEMPT - Not Regionally Significant Project	2040
Contra Costa	CC-130006	17-02-0003	Concord	Concord BART Station Bike/Ped Access Improvements	Concord: Near the Downtown Concord BART Station: Implement bike/ped access improvements including road diets, buffered bike lanes (0.7 mi), Class 2 bike lanes (0.6 mi), and Class 3 bike routes (0.1	NON-EXEMPT - Not Regionally Significant Project	2040
Contra Costa	CC-130039	17-02-0005	Pittsburg	Pittsburg Multimodal Transit Station Access Imps.	In Pittsburg: At the Northeast corner of Railroad Ave and California Ave: Construct a Kiss-n-Ride lot, add a right-turn lane on California Ave and improve multi-modal access to eBART station.	NON-EXEMPT - Not Regionally Significant Project	2040
Contra Costa	CC-130043	17-10-0049	BAIFA	CC I-680 Southern Segment Express Lanes	In Contra Costa County: On I-680 between Alcosta Boulevard and Livorna Road (northbound) and between Alcosta Boulevard and Rudgear Road (southbound); Convert existing HOV lanes to express lanes.	NON-EXEMPT	2030
Contra Costa	CC-130046	17-02-0019	CCTA	I-680 / SR 4 Interchange Reconstruction - Phase 3	In Pacheco: At the I 680/Route 4 interchange: Widen SR4 in the median to provide a third lane in each direction from Morello Avenue to Port Chicago (SR242). Work includes widening of bridges within	NON-EXEMPT	2030
Contra Costa	CC-130047	17-02-0003	Richmond	37th Street Bicycle & Pedestrian Improvements	Richmond: On 37th St from Cerritto Ave to Center Ave: Install bike lanes and pedestrian countdown heads and upgrade traffic signals; On 37th from Barrett to Chanslor: Implement road diet with one lane	NON-EXEMPT - Not Regionally Significant Project	2040
Contra Costa	CC-150009	17-10-0015	CCTA	CCTA - Carshare 4 All	Contra Costa and Alameda Counties: Richmond, El Cerrito, and Oakland: The program will expand carshare access at transit locations. The expansion of round-trip carsharing services will reduce car	NON-EXEMPT - Not Regionally Significant Project	2040
Contra Costa	CC-150013	17-02-0010	CCTA	SR 4 Integrated Corridor Management	Contra Costa County: Along SR 4 between I-80 in Hercules to the SR 4/SR 160 Interchange in the City of Antioch: Implement Integrated Corridor Management along corridor.	NON-EXEMPT	2030
Contra Costa	CC-150017	17-02-0005	San Pablo	Rumrill Blvd Complete Streets Improvements	In San Pablo: Along Rumrill Boulevard between San Pablo Avenue to the North and Costa Avenue to the South; Complete Streets Improvements and road diet	NON-EXEMPT - Not Regionally Significant Project	2040
Contra Costa	CC-170001	17-02-0052	Danville	San Ramon Valley Blvd Lane Addition and Overlay	In Danville: On San Ramon Blvd between Jewel Terrace and Podva Rd; Lane addition and rehabilitate roadway.	NON-EXEMPT	2020
Contra Costa	CC-170002	17-10-0049	BAIFA	CC-680 Northern Segment Express Lane - Southbound	In Contra Costa County: On I-680 Southbound from Benicia-Martinez Toll Plaza to El Cerro; convert HOV to express lanes and add/modify express lane elements. Project also references RTP ID 230685	NON-EXEMPT	2030

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Contra Costa	CC-170003	17-10-0060	BAIFA	CC-680 Northern Segment Express Lane - Northbound	In Contra Costa County: On I-680 Northbound from Rudgear to Benicia-Martinez Bridge; convert HOV to express lanes, add express lane elements and provide operational improvements. Project also	NON-EXEMPT	2030
Contra Costa	CC-170015	17-02-0030	Brentwood	Brentwood Blvd. Widening Phase II	Brentwood: Brentwood Blvd. between Homecoming Way and Lone Tree Way: Widen existing roadway from 2 to 4 lanes	NON-EXEMPT	2030
Contra Costa	CC-170016	17-02-0033	CC County	Camino Tassajara Realignment	Contra Costa County: Camino Tassajara between Windemere Parkway and the County Line: Realign curves and widen to four lanes	NON-EXEMPT	2030
Contra Costa	CC-170017	17-02-0012	CCTA	I-680 NB Managed Lanes/Op Improvements-Walnut Crk	Walnut Creek: NB I-680 through 680/24 I/C: Complete Managed Lane; Between N. Main and Treat Blvd: Operational Improvements	NON-EXEMPT	2030
Contra Costa	CC-170018	17-02-0020	CCTA	SR-4 Operational Improvements - Initial Phases	Contra Costa County: On SR-4 between I-680 and Bailey Road: Implement operational improvements including adding general purpose and auxiliary lanes at various locations	NON-EXEMPT	2030
Contra Costa	CC-170019	17-02-0046	Oakley	Civic Center Railroad Platform Park & Ride Complex	Oakley: Main Street between 2nd Street and O'Hara Avenue: Build 2 parking lots for multi-modal park, ride, and transit activities. Lots will serve train riders for a future train platform which includes	NON-EXEMPT	2030
Marin	MRN050034	17-03-0006	TAM	US 101 HOV Lanes - Marin-Sonoma Narrows (Marin)	Marin and Sonoma Counties: From SR 37 in Novato to Old Redwood Highway in Petaluma; Convert expressway to freeway and widen to 6 lanes for HOV lanes.	NON-EXEMPT	2030
Marin	MRN070006	17-03-0011	Novato	Novato Boulevard Widening, Diablo to Grant	Novato: Novato Blvd between Diablo and Grant Ave.: Improvements to roadway including including widening existing two/three lanes to four lanes and adding turn lanes, bike lanes, curbs, and sidewalks.	NON-EXEMPT	2030
Marin	MRN110032	17-10-0024	San Anselmo	San Anselmo - Center Blvd Bridge Replace (27C0079)	San Anselmo: Center Blvd Bridge over San Anselmo Creek, at Sycamore Ave: Replace existing 2 lane bridge with 3 lane bridge	NON-EXEMPT - Not Regionally Significant Project	2040
Marin	MRN110035	17-10-0024	Marin County	Mountain View Rd Bridge Replacement - 27C0154	Marin County: On Mountain View Rd. over San Geronimo Creek (Bridge No. 27C0154) near the intersection with Sir Francis Drake Blvd: Replace existing one-lane bridge with a new two-lane bridge	NON-EXEMPT - Not Regionally Significant Project	2040
Marin	MRN130001	17-03-0014	GGBHTD	Larkspur Ferry Terminal Parking Garage	In Larkspur: At the Larkspur Ferry Terminal (LFT): Planning studies for a new three story parking structure	NON-EXEMPT	2040
Marin	MRN150006	17-03-0005	GGBHTD	GGBHTD: Bldg Ridership to Meet Capacity Campaign	Golden Gate Bridge, Highway and Transportation District: Systemwide: Begin several marketing campaigns in the next year focusing on promoting Golden Gate Transit and Golden Gate Ferry use	NON-EXEMPT - Not Regionally Significant Project	2040
Marin	MRN150009	17-10-0036	MTC	Richmond-San Rafael Bridge Access Improvements	In Contra Costa and Marin Counties: On I-580/Richmond-San Rafael Bridge: Convert existing shoulders to an automobile travel lane (EB) and a bike/ped path, construct bike/ped path in Contra Costa	NON-EXEMPT	2020
Napa	NAP110029	17-04-0004	American Canyon	Eucalyptus Drive Realignment Complete Streets	American Canyon: Eucalyptus Dr. from Theresa Rd to Hwy 29: Extend roadway and reconfigure intersection of Eucalyptus Dr and Hwy 29 and Eucalyptus Drive and Theresa Road. Create complete street	NON-EXEMPT - Not Regionally Significant Project	2040
Napa	NAP130006	17-04-0004	American Canyon	Devlin Road and Vine Trail Extension	American Canyon: Devlin Road from the southern terminus 2,500 feet south to Green Island Road: Construct roadway extension and Class I multipurpose path	NON-EXEMPT - Not Regionally Significant Project	2040
Napa	NAP170003	17-04-0006	NVTA	NVTA- Vine Transit Bus Maintenance Facility	Napa County: At an 8 acre site in south Napa County: Construct a new transit maintenance facility for Vine Transit operations	NON-EXEMPT	2040
Regional/Multi-County	MTC050027	17-10-0042	WETA	Ferry Service - Berkeley/Albany	WETA: Berkeley/Albany: Provide ferry service from Berkeley/Albany to San Francisco.	NON-EXEMPT	2030

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Regional/Multi-County	MTC050029	17-05-0018	WETA	SF Ferry Terminal/Berthing Facilities	WETA: San Francisco: At the Ferry Terminal; Construct additional ferry docking/berthing facilities in the South Basin to improve ferry access and support WETA berthing/maintenance operational needs.	NON-EXEMPT	2030
Regional/Multi-County	REG070003	17-05-0030	WETA	Treasure Island Ferry Service	Treasurer Island: Implement new ferry transit service between Treasure Island and San Francisco/East Bay locations.	NON-EXEMPT	2030
Regional/Multi-County	REG090003	17-10-0013	MTC	Freeway Performance Initiative (FPI)	Regionwide: Design, implement and maintain ramp metering, Traffic Operation Systems (TOS), and other Freeway Performance Initiative (FPI) projects on major congested freeways throughout the region.	NON-EXEMPT	2040
Regional/Multi-County	REG090037	17-10-0006	BART	BART: Railcar Procurement Program	BART: Procure 790 Railcars (includes the replacement of 669 Railcars)	NON-EXEMPT	2030
Regional/Multi-County	REG130004	17-10-0054	BAIFA	Regional Express Lane Network	Region-wide: Program-level project costs to support the Regional Express Lane Network deployment including: Program costs (planning, coordination, & management); Centralized toll system costs;	NON-EXEMPT	2040
Regional/Multi-County	REG150001	17-01-0026	Caltrans	Oakland to San Jose Double Track (Segment 2A)	Between Oakland and San Jose: On UPRR Niles subdivision from MP 6 to MP 35, and the Coast subdivision MP 13 to MP 35, and on the Caltrain Right of Way MP 44 to MP 48: Construct a second mainline	NON-EXEMPT	2040
Regional/Multi-County	REG170004	17-10-0033	MTC	Bay Bridge Forward - Commuter Parking Initiative	Albany and Oakland: Establish commuter parking in East Bay at I-80/Buchanan Ave, I-880/High St, I-880/Fruitvale, including parking management technologies, to encourage carpool and express bus	NON-EXEMPT - Not Regionally Significant Project	2040
Regional/Multi-County	REG170005	17-10-0033	MTC	Bay Bridge Forward - Flexible On-Demand Transit	Region-Wide: Provide on-demand transit services between East Bay and San Francisco, including related supportive transportation demand management strategies.	NON-EXEMPT - Not Regionally Significant Project	2040
Regional/Multi-County	SON090002	17-03-0015	SMART	Sonoma Marin Area Rail Corridor	Between Sonoma and Marin Counties: Implement passenger rail service and non-motorized pathway on NWP rail line. Project also references RTP ID 22001	NON-EXEMPT	2020
Regional/Multi-County	VAR170003	17-10-0053	BAIFA	ALA/CC-80 and Bay Bridge Approach Express Lanes	In Alameda/Contra Costa counties; On I-80 from the Carquinez Bridge to Powell and the Bay Bridge Approaches; Convert HOV lanes to express lanes. Project also references RTP IDs 230657 and 240741	NON-EXEMPT	2030
Regional/Multi-County	VAR170013	17-10-0033	MTC	Bay Bridge Forward - Casual Carpool	In San Francisco and along I-80 corridor: Establish and improve casual carpool pick-up locations at key locations in San Francisco and along I-80 and in East Bay.	NON-EXEMPT - Not Regionally Significant Project	2040
San Francisco	SF-010015	17-10-0039	TBJPA	Transbay Term/Caltrain Downtown Ext - Ph.1	San Francisco: Transbay Transit Center; Replacement and expansion of the terminal at the present site.	NON-EXEMPT	2020
San Francisco	SF-010037	17-10-0038	SFMTA	SF Muni Third St LRT Phase 2 - New Central Subway	San Francisco: North-south alignment under 4th St. to Market, then under Geary to Stockton & under Stockton to Clay St; Extend the Light Rail line project includes procurement of four LRVs.	NON-EXEMPT	2030
San Francisco	SF-010038	17-05-0008	SF DPW	Bayview Transportation Improvements	In San Francisco: From US 101 to the Hunters Point Shipyard along: 25th, I280-Illinois; Cesar Chavez, US101-Illinois; Illinois, 25th-Cargo; Cargo, Illinois-Jennings; Jennings, Cargo-Evans; Evans, Cesar	NON-EXEMPT	2040
San Francisco	SF-050002	17-10-0038	TBJPA	Transbay Terminal/Caltrain Downtown Ext: Ph. 2	San Francisco: Transbay Terminal; Extend Caltrain commuter rail service from Fourth/Townsend to Transbay Transit Center.	NON-EXEMPT	2030
San Francisco	SF-070003	17-05-0042	SFMTA	Historic Streetcar Extension to Fort Mason	San Francisco: From Fisherman's Wharf through National Park Service lands in Aquatic Park to Fort Mason; Extend the E-line or the current F-line service.	NON-EXEMPT	2030
San Francisco	SF-070004	17-05-0021	SFMTA	Geary Bus Rapid Transit	Muni: On Geary Boulevard; Design and implement a BRT project.	NON-EXEMPT	2030
San Francisco	SF-070005	17-05-0033	SFMTA	Van Ness Avenue Bus Rapid Transit	Muni: On Van Ness Avenue from Mission to Lombard; Design and implement a BRT project. Project is phased. Project also references RTP IDs 240745 and 240471	NON-EXEMPT	2020

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San Francisco	SF-090004	17-05-0008	SF DPW	Harney Way Roadway Widening	In San Francisco: Harney Way from US 101 to Jamestown:Improvements including right-of-way engineering, land acquisition for future widening of roadway, design, landscaping and sidewalk	NON-EXEMPT	2040
San Francisco	SF-090012	17-05-0013	SFMTA	Additional Light Rail Vehicles to Expand Muni Rail	SFMTA: Procure 24 expansion light rail vehicles (LRVs).	NON-EXEMPT	2040
San Francisco	SF-090016	17-05-0031	SFMTA	Transit Center in Hunters Point	Muni:Transit Center in Hunters Point; Construct 10 bays, Low-level platform, Operator restroom, bus shelters,Electrical ductbank for MUNI power,etc	NON-EXEMPT	2040
San Francisco	SF-090018	17-05-0010	SFMTA	Oakdale-Palou Interim High-Capacity Bus Corridor	Muni: Transit Preferential improvements for the Palou Avenue corridor, including bus bulbs, up to six traffic signals with transit signal priority, new bus shelters and pedestrian safety treatments.	NON-EXEMPT	2040
San Francisco	SF-090019	17-05-0031	SFMTA	Extended Trolleybus Service into Hunters Point	SFMTA: Procure 10 electric trolley vehicles and construct 1 mile overhead wire infrastructure to extend High-Capacity Bus Service from existing transit corridor in the Bayview to Hunters Point (24	NON-EXEMPT	2040
San Francisco	SF-090020	17-05-0032	SFMTA	Geneva Harney BRT Infrastructure: Central Segment	SFMTA: From Executive Park/Harney Way under US 101 to SF/Daly City line on Geneva Avenue: Construct bus rapid transit facilities	NON-EXEMPT	2030
San Francisco	SF-090023	17-05-0032	SFMTA	Geneva Harney BRT Infrastructure: Eastern Segment	SFMTA: Bayview and Hunters Point: from Executive Park/Harney Way to Hunters Point Transit Center via Candlestick/Hunters Pt. Shipyard development: Construct extension of Geneva Harney BRT. Project	NON-EXEMPT	2030
San Francisco	SF-090032	17-05-0014	SFMTA	SFMTA: Muni Forward Capital Implementation Program	SFMTA: Design and construction of investments focused on reliability improvements, travel time reductions, and Muni route updates. This is a phased project.	NON-EXEMPT	2030
San Francisco	SF-110002	17-05-0008	SFMTA	Mission Bay/UCSF Multi-Modal Transportation Imps.	San Francisco: Mission Bay: street additions, connections, realignments, improvements and enhancements; widen I-280/Mariposa off-ramp; and construct a transit loop for the T-third light rail line.	NON-EXEMPT	2040
San Francisco	SF-110006	17-05-0027	SF DPW	Hunters Pt Shipyard and Candlestick Pt Local Roads	In San Francisco: Hunters Point Shipyard and Candlestick Point: Implement new local streets to support multi-modal mixed use development. The project is phased.	NON-EXEMPT	2040
San Francisco	SF-110045	17-05-0014	SFMTA	SFMTA: 8X Customer First Program	San Francisco: 8X line: Implement Transit Corridor Improvements including colorizing existing dedicated transit lanes, TSP, wayfinding improvements and transit arrival prediction sign, vehicle branding,	NON-EXEMPT	2030
San Francisco	SF-110049	17-05-0030	SF County TA	Treasure Island Congestion Pricing Program	San Francisco: Treasure Island: Implement Congestion Pricing Program. project is phased	NON-EXEMPT	2030
San Francisco	SF-130001	17-05-0016	SF DPW	SF- Better Market Street Transportation Elements	In San Francisco: Market St from Steuart St to Octavia Blvd: improve roadway, including resurfacing, sidewalk and transit boarding improvements, transit connections, traffic signals, transportation	NON-EXEMPT	2030
San Francisco	SF-130002	17-05-0037	SFMTA	Implement Parkmerced Street Network	In San Francisco: Implement Parkmerced Street Network (includes a new street network, traffic calming, pedestrian improvements, biking improvements, streetscape improvements, and transit/shuttle	NON-EXEMPT	2030
San Francisco	SF-130004	17-05-0030	SF County TA	Treasure Is/Yerba Buena Is Street Improvements	On Treasure Island: Implement Treasure Island/Yerba Buena Island street network Project includes a new street network, traffic calming, bike & pedestrian improvements, streetscape and transit/shuttle	NON-EXEMPT	2030
San Francisco	SF-130005	17-05-0030	SF County TA	Treasure Island Pricing Mobility Improvements	In Treasure Island: Pricing Program Mobility Improvements including Transit Capital and maintenance improvements. The project is phased	NON-EXEMPT	2030

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San Francisco	SF-130006	17-05-0031	SF DPW	Southeast Waterfront Transportation Improvements	San Francisco: Between HP Shipyard and Candlestick Pt: improve roadways to facilitate 5-mile, multi-modal corridor, connecting project area with the Bayshore Intermodal Station. Project development and	NON-EXEMPT	2040
San Francisco	SF-130007	17-05-0008	SF DPW	HOPE SF Street Network - Hunters View	In San Francisco: Hunters View in Southeast: realign existing streets and add new streets at public housing sites to improve transit, walking, and biking. Project is phased.	NON-EXEMPT	2040
San Francisco	SF-130011	17-05-0004	SF DPW	SF- Second Street Complete Streets and Road Diet	In San Francisco: On Second Street between Market and King; Design and construct a complete streets project including the removal of a vehicular travel lane from Market to Townsend	NON-EXEMPT - Not Regionally Significant Project	2040
San Francisco	SF-130015	17-05-0004	SFMTA	Mansell Corridor Complete Streets	San Francisco: Mansell Ave from University to Brazil and Persia St from Brazil to Dublin: Implement complete streets improvements, including reduced, separated and relocated vehicular lanes, and bike/ped	NON-EXEMPT - Not Regionally Significant Project	2040
San Francisco	SF-130017	17-05-0029	SF County TA	SF Downtown Congestion Pricing	San Francisco: In the downtown area: Implement a demonstration value pricing (tolls and incentives) program	NON-EXEMPT	2030
San Francisco	SF-130019	17-05-0004	SFMTA	Eddy and Ellis Traffic Calming Improvement Project	San Francisco: On Eddy St between Leavenworth and Cyril Magnin and on Ellis St between Jones and Cyril Magnin: Convert one-way streets to two-way streets and implement pedestrian and traffic calming	NON-EXEMPT - Not Regionally Significant Project	2040
San Francisco	SF-130021	17-05-0008	Port of SF	Pier 70 19th Street & Illinois Street Sidewalk	San Francisco: 19th St from Illinois St to approximately 600' east: Construct new 19th St roadway and bike/ped improvements; On Illinois Street from 18th and 19th: construct new sidewalk and other	NON-EXEMPT - Not Regionally Significant Project	2040
San Francisco	SF-150008	17-05-0008	SF County TA	Quint-Jerrold Connector Road	San Francisco: From Oakdale Ave to Jerrold Ave: Provide an alternate access route between Oakdale and Jerrold Avenues and across the Caltrain tracks, to be coordinated with Caltrain's Quint Street Bridge	NON-EXEMPT - Not Regionally Significant Project	2040
San Francisco	SF-170001	17-05-0019	Port of SF	Mission Bay Ferry Terminal	San Francisco: At the eastern terminus of 16th St: Construct new ferry landing to service San Francisco Mission Bay and Central Waterfront as a part of the Bay area ferry transit system	NON-EXEMPT	2030
San Francisco	SF-170013	17-05-0008	SF DPW	HOPE SF Street Network - Sunnydale and Potrero	San Francisco: Sunnydale and Potrero neighborhoods: Construct new and realigned street networks throughout the two remaining HOPE SF sites, including traffic calming pedestrian and bike network, and	NON-EXEMPT	2040
San Francisco	SF-990004	17-05-0013	SFMTA	Islais Creek Motor Coach Facility	Muni: Islais Creek Motor Coach Facility; Develop a new operating division to replace the Kirkland motor coach operating facility when it is vacated for redevelopment. Phase 2 will construct a Maintenance	NON-EXEMPT	2040
San Francisco	SF-991030	17-05-0022	SF County TA	US 101 Doyle Drive Replacement	San Francisco: US 101 (Doyle Drive) from Lombard Street/Richardson Avenue to Route 1 Interchange; Replace/rehabilitate roadway.	NON-EXEMPT	2020
San Mateo	SM-050001	17-06-0034	Pacifica	SR 1 - Fassler to Westport Drive Widening	In Pacifica: Route 1 between Fassler Ave. & Westport Dr.; Add an additional lane in each direction.	NON-EXEMPT	2030
San Mateo	SM-050027	17-06-0010	Redwood City	US 101 / Woodside Interchange Improvement	Redwood City: US101/Woodside; Reconstruct and reconfigure interchange.	NON-EXEMPT	2030
San Mateo	SM-070008	17-07-0065	Caltrain	Caltrain South Terminal Phase II and III	Phase II of this project is to construct an additional mainline track and new signal controls just north of Diridon Station. Phase III is to install an additional mainline track and signal controls just south of	NON-EXEMPT	2040
San Mateo	SM-090004	17-06-0021	Brisbane	US 101/Candlestick Interchange	In San Mateo County: U.S. 101/Candlestick Point Interchange - Planning and environmental studies for interchange reconfiguration to allow for safer and better flow of traffic	NON-EXEMPT	2040
San Mateo	SM-090007	17-06-0040	Redwood City	Blomquist Street Extension	In Redwood City: On Blomquist Street; extend from Seaport Blvd to Bair Island Road. Project may be phased.	NON-EXEMPT	2030

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List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
San Mateo	SM-090008	17-06-0017	San Carlos	US101/Holly Interchange modification	City of San Carlos: At Holly St./ 101 Interchange Modification;Widen east bound to north bound ramp to two lanes and eliminate north bound to west bound loop	NON-EXEMPT	2020
San Mateo	SM-090009	17-06-0008	SMCTA	US 101 Aux lanes from Sierra Point to SF Cnty Line	San Mateo County: On US 101 from Sierra Point to SF County Line; Construct auxiliary lanes or managed lanes. Project also references RTP ID 240060 for managed lanes	NON-EXEMPT	2030
San Mateo	SM-090014	17-06-0009	CCAG	Improve US 101 operations near Rte 92	City of San Mateo:On US 101; Operational improvements near Route 92	NON-EXEMPT	2030
San Mateo	SM-090015	17-06-0023	Half Moon Bay	Route 1 improvements in Half Moon Bay	In Half Moon Bay: On Route 1; Improve safety on Route 1, including adding protected left and right turn lanes at Route 1, adding through lanes on Route 1 at signalized intersections, and constructing new	NON-EXEMPT	2030
San Mateo	SM-110002	17-06-0030	WETA	WETA: Redwood City Ferry Service	WETA: Redwood City; Environmental clearance and design of ferry transit service between Redwood City and San Francisco	NON-EXEMPT	2040
San Mateo	SM-110003	17-06-0011	SSF	US 101/Produce Avenue Interchange	South San Francisco: On US Highway 101 from Utah Avenue on the east side to the vicinity of Produce Avenue on the west side: Construct a local interchange	NON-EXEMPT	2030
San Mateo	SM-130021	17-06-0003	Burlingame	Carolan Ave Complete Streets and Road Diet	Burlingame: Carolan Ave between Broadway and Oak Grove Ave: Implement road diet by converting a 4-lane roadway into a 2-lane roadway with a center turn lane, Class II bike lanes, and intersection	NON-EXEMPT - Not Regionally Significant Project	2040
San Mateo	SM-150017	17-07-0075	CCAG	US 101 HOV/ HOT from Santa Clara to I-380	In San Mateo County: On US 101 between 2 miles south of the Santa Clara County Line (P.M. 50.6 in SCL) and I-380: Install an HOV/Express Lane. Project also references RTP ID 240466	NON-EXEMPT	2030
San Mateo	SM-170003	17-06-0036	San Bruno	SR-35 (Skyline Blvd) Widening from I-280 to Sneath	Widens Skyline Blvd. (SR 35) between I-280 and Sneath Lane. It is currently the last portion of what is otherwise a four lane roadway along Skyline Blvd. The project widens approximately 1.3 miles of the	NON-EXEMPT	2030
San Mateo	SM-170004	17-06-0004	Pacifica	Manor Drive Overcrossing and Milagra On Ramp	In Pacifica: Hwy 1 and Manor Drive I/C: Widen the existing overcrossing; Hwy 1 and Milagra: Construct a new on-ramp; Both intersections: install signals	NON-EXEMPT	2040
Santa Clara	BRT030001	17-07-0012	VTA	BART - Berryessa to San Jose Extension	BART: Extend BART from Berryessa Station to San Jose and Santa Clara. (Please see expanded project description for more details.)	NON-EXEMPT	2030
Santa Clara	SCL030006	17-07-0038	San Jose	US 101 / Blossom Hill I/C Reconst & Road Widening	San Jose: US-101/Blossom Hill Rd interchange; widen Blossom Hill Road and reconstruct interchange to provide an additional lane in each direction, including the bridge structure over US-101 plus other	NON-EXEMPT	2030
Santa Clara	SCL050009	17-07-0061	VTA	Capitol Expressway LRT Extension- Phase II	In the East Valley: The Capitol Avenue light rail line from the existing Alum Rock Transit Center to a rebuilt Eastridge Transit Center (2.6 miles): provide light rail extension	NON-EXEMPT	2030
Santa Clara	SCL070004	17-07-0027	San Jose	US 101 / Mabury New Interchange	In San Jose: US 101/Mabury interchange; Construct full interchange.	NON-EXEMPT	2030
Santa Clara	SCL090003	17-07-0005	San Jose	San Jose Charcot Avenue Extension Over I-880	San Jose: Charcot Avenue Extension over I-880; Extend new 2-lane roadway with bike lanes and sidewalks providing new multi-modal connection to the North San Jose employment center.	NON-EXEMPT	2040
Santa Clara	SCL090005	17-07-0005	San Jose	Coleman Avenue Widening from I-880 to Taylor St.	In San Jose: Coleman Ave from I880 to Taylor St: Widen from 4 to 6 lanes.	NON-EXEMPT	2040
Santa Clara	SCL090016	17-07-0022	VTA	New SR152 Alignment Study	Santa Clara/ San Benito counties: Complete PA&ED for new alignment of SR152 between US101 and SR156 in Santa Clara and San Benito counties.	NON-EXEMPT	2040
Santa Clara	SCL090017	17-07-0005	Santa Clara Co	Montague Expwy Widening - Trade Zone-I-680	In Santa Clara County: Widen Montague Expressway between Trade Zone and I-680.	NON-EXEMPT	2040
Santa Clara	SCL090019	17-07-0063	San Jose	San Jose International Airport People Mover	In San Jose: Planning studies and environmental for automated transit service that connects the San Jose Mineta International Airport to VTA's Gudalupe LRT, Caltrain and future BART stations as well as	NON-EXEMPT	2040

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Santa Clara	SCL090030	17-07-0074	VTA	SR 85 Express Lanes	In Santa Clara County: Implement roadway pricing on SR 85 carpool lane from US 101 in San Jose to US 101 in Mountain View.	NON-EXEMPT	2030
Santa Clara	SCL090040	17-07-0062	VTA	LRT Extension to Vasona Junction	In Campbell: Extend the light-rail line from the existing Winchester Station to a new Vasona Junction Station, near Route 85.	NON-EXEMPT	2030
Santa Clara	SCL110002	17-07-0075	VTA	Santa Clara County - US 101 Express Lanes	In Santa Clara County: From Cochrane Rd. in Morgan Hill to San Mateo County line in Palo Alto: Implement roadway pricing on US 101 carpool lane	NON-EXEMPT	2030
Santa Clara	SCL110005	17-07-0077	VTA	BART - Warm Springs to Berryessa Extension	In Santa Clara County: This project will extend BART from Warm Springs to the future Berryessa Station in San Jose, California.	NON-EXEMPT	2020
Santa Clara	SCL110006	17-07-0005	San Jose	San Jose - Autumn Street Extension	In San Jose: Autumn St between Julian Street and San Carlos Street: Widen, partially realign, and extend Autumn Street to adequately accommodate projected traffic demand.	NON-EXEMPT	2040
Santa Clara	SCL110007	17-07-0078	Santa Clara Co	San Tomas Expressway Widening	In Santa Clara County: Widen San Tomas Expressway between El Camino Real and Williams Road including adding sidewalks. Project is phased.	NON-EXEMPT	2040
Santa Clara	SCL110008	17-07-0070	VTA	SR 237 Express Lanes: North 1st St to Mathilda Ave	In Santa Clara County: On SR-237 from Mathilda Ave to North 1st St.: Implement roadway pricing carpool lane; On SR-237 from I-880 to Mathilda Avenue: Operational Improvements in terms of restriping	NON-EXEMPT	2030
Santa Clara	SCL110009	17-07-0013	VTA	El Camino Real Bus Rapid Transit	In Santa Clara County: Implement Bus Rapid Transit improvements on El Camino Real/The Alameda including: dedicated guideways, signal prioritization, low-floor boarding, ticket vending machines,	NON-EXEMPT	2030
Santa Clara	SCL110010	17-07-0059	VTA	VTA: Stevens Creek Bus Rapid Transit	In Santa Clara County: Stevens Creek corridor: Implement Bus Rapid Transit improvements including dedicated guideways, signal prioritization, low-floor boarding, ticket vending machines, premium BRT	NON-EXEMPT	2030
Santa Clara	SCL130001	17-07-0033	VTA	SR 237/US 101/Mathilda Interchange Modifications	In Sunnyvale: Modify US 101/Mathilda and SR 237/Mathilda interchanges to relieve congestion and improve local circulation.	NON-EXEMPT	2030
Santa Clara	SCL150018	17-10-0015	VTA	Peery Park Rides	In Sunnyvale: Peery Park area: Implement flexible transit service as part of a trip reduction strategy	NON-EXEMPT - Not Regionally Significant Project	2040
Solano	SOL030002	17-08-0015	Fairfield	Fairfield/Vacaville Intermodal Rail Station	In Fairfield: Capitol Corridor; Construct train station with passenger platforms, pedestrian undercrossing, highway overcrossing, park and ride lot, bike and other station facilities. Project is phased.	NON-EXEMPT	2030
Solano	SOL050009	17-08-0007	Dixon	Parkway Blvd/UPRR Grade Separation	In Dixon: Parkway Blvd from Valley Glen Dr. to Pitt School Rd: Construct new 4 lane roadway and overcrossing of UPRR & Porter Rd; Pitt School Rd from south of Hillview Drive to Porter Rd: widen shoulders	NON-EXEMPT - Not Regionally Significant Project	2040
Solano	SOL070020	17-10-0061	STA	I-80/I-680/SR 12 Interchange Project	Fairfield: Improve I-80/I-680/Route 12 I/C(Ph 1), including connecting I-80 to SR 12 W, I-680 NB to SR 12W (Jameson Canyon), I-80 to I-680 (+ Express Lane Direct connectors), build local I/C and build	NON-EXEMPT	2030
Solano	SOL090001	17-10-0023	Vacaville	I-505/Vaca Valley Off-Ramp and Intersection Imprv.	Vacaville: I-505 at Vaca Valley Pkwy: Widen the southbound I-505 off-ramp at Vaca Valley Parkway to provide left turn storage and signalize the southbound ramps at the intersection of Vaca Valley	NON-EXEMPT	2040
Solano	SOL090015	17-08-0010	Solano County	Redwood-Fairgrounds Dr Interchange Imps	Solano County: I-80/Redwood St. I/C and SR 37/Fairgrounds Dr. I/C: Implement I/C and safety improvements; Fairgrounds Dr. between Redwood St. and SR 37 (2.1 lane miles): Remove left turn lane and	NON-EXEMPT	2030

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Solano	SOL110001	17-10-0044	MTC	I-80 Express Lanes - Fairfield & Vacaville Ph I&II	I-80 in Solano County from Red Top Rd to I-505: Convert existing HOV to HOT & Construct new HOT lanes from Air Base Parkway to I-505. Project also references RTP ID 230660	NON-EXEMPT	2030
Solano	SOL110003	17-08-0012	STA	Jepson: Vanden Road from Peabody to Leisure Town	Jepson Parkway segment: Vanden Road project from Peabody Road to Leisure Town Road.	NON-EXEMPT	2030
Solano	SOL110004	17-08-0012	STA	Jepson: Walters Rd Ext - Peabody Rd Widening	Jepson Parkway segment: Walters Road Extension - Peabody Widening.	NON-EXEMPT	2030
Solano	SOL110005	17-08-0012	STA	Jepson: Leisure Town Road from Vanden to Commerce	Jepson Parkway segment: Leisure Town Road from Vanden Road to Commerce. Project is phased	NON-EXEMPT	2030
Solano	SOL110006	17-08-0012	STA	Jepson: Leisure Town Road (Commerce to New Ulatis)	Reconstruct and widen Leisure, from 900 feet South of Commerce Place to South of New Ulatis Creek	NON-EXEMPT	2030
Solano	SOL110007	17-08-0015	Fairfield	Fairfield Transportation Center - Phase 3	In Fairfield: Fairfield Transportation Center; Construct second parking structure with approximately 600 automobile parking spaces and access improvements.	NON-EXEMPT	2030
Solano	SOL110009	17-08-0015	Vacaville	Vacaville Intermodal Station - Phase 2	In Vacaville: Construction of a 137 stall surface parking lot.	NON-EXEMPT	2030
Solano	SOL110037	17-08-0004	Vallejo	Sonoma Boulevard Improvements HSIP5-04-031	Vallejo: Sonoma Blvd between Georgia St and Florida St: Implement road diet - reduce travel lanes from 4 to 3, add a two-way left-turn lane or median, and add bike lanes	NON-EXEMPT - Not Regionally Significant Project	2040
Solano	SOL990018	17-08-0008	Vallejo	I-80 / American Canyon Rd overpass Improvements	Vallejo: American Canyon Road overpass at Hwy. 80; capacity and safety improvements.	NON-EXEMPT	2040
Sonoma	SON010001	17-09-0005	Caltrans	Son 101 HOV - SR 12 to Steele & Steele Lane I/C	In Santa Rosa: On 6th St. between Morgan St and Davis St: the construction of 280 feet of roadway with two new travel lanes and a westbound left turn lane; from SR 12 to Steele Lane: follow-up	NON-EXEMPT	2040
Sonoma	SON010019	17-09-0005	Son Co TA	Son 101 HOV - Steele Lane to Windsor (North)	Santa Rosa-Windsor: US 101 btw Steele Lane in Santa Rosa and Windsor River Road in Windsor; Widen from 4 to 6 lanes for High Occupancy Vehicle (HOV) lanes and implement landscaping.	NON-EXEMPT	2040
Sonoma	SON010024	17-09-0005	Son Co TA	Son 101 HOV - Redwood Hwy to Rohnert Park Expwy	Petaluma-Rohnert Park: US 101 Btw Old Redwood Hwy in Petaluma & Rohnert Park Expwy: widening roadway from 4 to 6 lanes for HOV and implement landscaping	NON-EXEMPT	2040
Sonoma	SON050001	17-09-0004	Sonoma County	Laughlin Bridge over Mark West Crk 20C0246	Mark West Creek Bridge: Laughlin Rd/Brickway Blvd Extension; Construct new 2 lane bridge.	NON-EXEMPT	2040
Sonoma	SON070004	17-09-0006	Son Co TA	US 101 Marin/Sonoma Narrows (Sonoma)	Marin and Sonoma Counties: From SR37 in Novato to Old Redwood Highway in Petaluma, convert expressway to freeway, construct NB auxillary lane between Lakeville Highway and East Washigton Street,	NON-EXEMPT	2030
Sonoma	SON090005	17-09-0004	Son Co TA	US 101 Airport I/C (North B)	In Sonoma County: Replace Airport Blvd overcrossing and reconstruct interchange with US 101. Improve operations between Airport and Fulton. Construct soundwalls. (Project is the second phase of the	NON-EXEMPT	2040
Sonoma	SON130017	17-09-0003	Santa Rosa	Santa Rosa Cmpltd Sts Road Diet on Transit Corridor	Santa Rosa: On transit corridors within two Priority Development Areas (Mendocino Ave/Santa Rosa Ave Corridor and Downtown Station Area) and in Communities of Concern: Rehabilitate roadway and	NON-EXEMPT - Not Regionally Significant Project	2040
Sonoma	SON150006	17-09-0010	Santa Rosa	US 101 Hearn Ave Interchange	Santa Rosa: US 101/Hearn Avenue over-crossing/interchange: Replace the US 101/Hearn Avenue over-crossing/interchange with a new over crossing/interchange including bike lanes, sidewalks, and re-	NON-EXEMPT	2030
Sonoma	SON150010	17-10-0015	Son Co TA	Santa Rosa Car Share	Santa Rosa: Various locations: Establish nine car share vehicles at four pods.	NON-EXEMPT - Not Regionally Significant Project	2040

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Alameda	ALA010003	17-01-0003	Alameda County	Crow Canyon Safety Improvements	Alameda County: On Crow Canyon Road: from I-580 north to the Alameda/Contra Costa County line; Safety improvements, shoulder widening and curve realignment.	EXEMPT (40 CFR 93.126) - Shoulder improvements	2040
Alameda	ALA010034	17-10-0026	AC Transit	AC Transit: Facilities Upgrade	AC Transit: Agency's facilities & equipment upgrades.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Alameda	ALA010052	17-01-0003	Newark	Central Avenue Railroad Overpass at UPRR	Newark: On Central Avenue at the Union Pacific Railroad tracks; Construct grade separation. No new lanes. Project is phased	EXEMPT (40 CFR 93.126) - Railroad/highway crossing	2040
Alameda	ALA010056	17-01-0008	ACE	ACE Track Improvements.	ACE: From Stockton to San Jose: Corridor improvements for signaling, grade crossing, track and other cost associated	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Alameda	ALA030002	17-01-0003	Alameda County	Alameda: Vasco Road Safety Improvements	Livermore: On Vasco Road from 1,000' South of Dalton Ave to CC County line; Realign roadway, provide standard shoulder widths, install median barriers and add truck-climbing lanes. (Total length of	EXEMPT (40 CFR 93.126) - Truck climbing lanes outside the urbanized area	2040
Alameda	ALA030030	17-10-0026	LAVTA	LAVTA: Preventive Maintenance	LAVTA: Preventive Maintenance Program for Agency Fleet.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Alameda	ALA050035	17-01-0001	Alameda County	Cherryland/Ashland/CastroValley /Fairview Sidwklmp	Cherryland, Ashland, Castro Valley, Fairview, San Lorenzo and other Unincorporated Areas of Alameda County: Sidewalk improvements in the vicinity of Schools within unincorporated Alameda County area.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA050079	17-01-0040	Berkeley	I-80 Gilman Interchange Reconfiguration	Berkeley: On Gilman Avenue at I-80; Reconfigure interchange providing dual roundabout at the entrance & exits from I-80 as well as the Eastshore Highway and West Frontage Road.	EXEMPT (40 CFR 93.127) - Changes in vertical and horizontal alignment	2030
Alameda	ALA070009	17-01-0030	ACTC/Oak/Ala	Oakland/Alameda Freeway Access Project	Oakland: Between Oak Street and Union Street; Reconfigure interchange and intersections to improve connections between I-880, the Posey and Webster tubes and the downtown Oakland area.	EXEMPT (40 CFR 93.127) - Changes in vertical and horizontal alignment	2030
Alameda	ALA070039	17-01-0001	Oakland	Oakland Waterfront Bay Trail	Oakland: From Emeryville border to San Leandro border; Construct new segments of the Bay Trail.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA070054	17-01-0018	Port of Oakland	California Inter-regional Rail Intermodal Study	Port of Oakland: Study to determine the feasibility of a freight rail shuttle system between the Port and inland points in the Central Valley.	EXEMPT (40 CFR 93.126) - Engineering to assess social, economic, and environmental effects of the proposed action or alternatives to that action	2020
Alameda	ALA090022	17-10-0024	Alameda County	Estuary Bridges Seismic Retrofit and Repairs	Oakland: Seismic retrofit and repairs of 3 Oakland Estuary bridges	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Alameda	ALA090023	17-10-0024	Alameda County	Fruitvale Ave Roadway Bridge Retrofit	Alameda County: Retrofit Fruitvale Roadway Bridge a lifeline facility	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Alameda	ALA090065	17-10-0026	BART	BART: Fare Collection Equipment	BART: Systemwide: Acquire and install fare collection equipment.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Alameda	ALA090068	17-01-0004	BART	MacArthur BART Plaza Remodel	Oakland: MacArthur BART Station: Renovate the entry plaza	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Alameda	ALA110008	17-10-0026	AC Transit	AC Transit State of Good Repair Program	AC Transit: The project is intended to bring AC Transit's revenue fleet up to a SGR by implementing new SGR process and software in order to reduce operating costs.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Alameda	ALA110032	17-01-0004	BART	Downtown Berkeley BART Plaza/Transit Area Imps.	In Berkeley: Area around Downtown Berkeley BART Station: Streetscape improvements; design/construction of custom bus shelter, canopy design for 5 secondary BART entries and construction of one;	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040

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Alameda	ALA110033	17-01-0003	ACTC	Alameda County Safe Routes to School	Alameda County: Countywide SR2S Program including education & outreach in various K-12 schools, ridesharing, & project development.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Alameda	ALA110072	17-01-0004	Oakland	Lake Merritt Improvement Project	In Oakland: Adjacent to Lake Merritt: Reconfigure roadways and construct paths, walls, structures, lighting, parking and landscaping; no added capacity	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA110099	17-10-0026	ACE	ACE Preventative Maintenance	ACE Rail - Preventative maintenance activities for ACE service and associated equipment, functions, and facilities.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Alameda	ALA110115	17-01-0001	BART	Bicycle Lockers at Capitol Corridor Stations	Capitol Corridor Joint Powers Authority (CCJPA): at Capitol Corridor Stations: Establish a bicycle storage standard for design(s), function, and procurement for secure bicycle storage	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA110120	17-10-0011	Livermore	Livermore TOD Study at I-580/SR84	In Livermore: Near I-580/SR84 I/C: Create a community-based transit-oriented development plan for local land uses and access improvements to complement a planned Phase 1 extension of the BART	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Alameda	ALA130002	17-10-0026	AC Transit	AC Transit: Procure (27) 60' Artic Hybrid Buses	AC Transit: Purchase 27 60-foot diesel-electric hybrid articulated buses with dual-side doors for BRT service to replace older 60-foot articulated buses	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA130003	17-01-0001	Oakland	Lake Merritt to Bay Trail Bike/Ped Bridge	Oakland: Over Embarcadero and UPRR tracks under I880 between the Estuary and Lake Merritt along the Channel: Construct ADA accessible bicycle pedestrian bridge to link Bay Trail to Lake Merritt.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA130007	17-01-0062	BART	BART to Livermore Extension - Develop EIR/EIS	BART - Develop Draft Environmental Impact Report/Environmental Impact Statement (DEIR/EIS) for the BART to Livermore Extension Project (Proposed Project).	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Alameda	ALA130008	17-10-0022	San Leandro	San Leandro Boulevard Preservation	San Leandro: San Leandro Blvd from Williams St to Hudson Ln: Pavement Preservation	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130009	17-01-0004	Pleasanton	Pleasanton Complete Streets	Pleasanton: Valley Avenue from Bernal Ave to Hopyard Road and Hopyard Road from Black Avenue to Del Val Parkway: rehabilitate and resurface pavement and installing pedestrian improvements including	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130011	17-10-0026	Livermore	Livermore Relocation and Restoration of R/R Depot	In Livermore: Relocation and rehabilitation of the Historic Depot building to a site adjacent to the UPRR tracks and the Downtown parking structure/LAVTA's Transit Center. No loss of existing transit hub	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Alameda	ALA130012	17-10-0022	Dublin	Dublin Boulevard Preservation	In Dublin: Dublin Boulevard between San Ramon Road and Village Parkway, Dublin Boulevard between San Ramon Road and Village Parkway: Pavement preservation	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130013	17-10-0022	Hayward	Hayward - Industrial Boulevard Preservation	Hayward: Industrial Boulevard from Clawiter Road to 659 ft south of Depot Road: Pavement rehabilitation	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130016	17-01-0004	Oakland	Oakland Complete Streets	In Oakland: Various federal aid eligible streets: Resurfacing and preventive maintenance including installation of ADA-compliant curb ramps, and installation (or reinstatement) of bikeway facilities	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130018	17-10-0022	Alameda County	Alameda Co-Variou Streets and Roads Preservation	Unincorporated Alameda County: Various roadways including Grove Way,Lake Chabot Rd,A St,Vasco Rd, and Liberty St: Rehabilitate pavement	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130019	17-01-0004	Piedmont	Piedmont Complete Streets (CS)	Piedmont: Highland Ave (Sierra to Mountain) and Moraga Ave (Pala to City Limits): Rehabilitate pavement and upgrade pedestrian, bicycle and transit facilities within the project boundaries	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130021	17-10-0022	Emeryville	Emeryville - Hollis Street Preservation	Emeryville: Hollis Street north of Powell Street, Hollis Street (63rd Street to Ocean Avenue), Hollis Street (65th Street to 66th Street), Hollis Street (66th Street to north of 67th Street [City Limits]): Rehabilitate	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040

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Alameda	ALA130022	17-01-0004	Alameda	Alameda City Complete Streets	City of Alameda: Various Locations: Rehabilitate pavement and make minor improvements to stormwater, bike/ped, and transit facilities	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Alameda	ALA130030	17-01-0001	MTC	Improved Bike/Ped Access to East Span of SFOBB	In Oakland: In the vicinity of the East Span of the San Francisco-Oakland Bay Bridge: Construct improved bicycle and pedestrian access. Project is phased.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA130035	17-01-0001	Berkeley	Bay Trail Shoreline Access Staging Area Project	City of Berkeley: Berkeley Marina, construct segment 3 of Bay Trail Extension, construct new public restroom, and renovate existing public parking area and windsurf staging area.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150002	17-01-0003	Alameda County	Niles Canyon Rd (SR 84)/Pleasanton Sunol Rd Inter. Imps	In Sunol Area: At Niles Canyon Rd(SR 84), Pleasanton Sunol Rd and Paloma Rd intersection: intersection improvements at the four corners including installation of a traffic signal, shoulder improvements	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Alameda	ALA150005	17-01-0003	Berkeley	LeConte Elementary Safe Routes to School Imps	Berkeley: Shattuck Ave between Ward St and Russell St: Pedestrian crossing improvements near LeConte School.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150006	17-01-0003	Alameda County	Be Oakland, Be Active	Oakland: Citywide: Promote walking and cycling in 41 of Oakland Unified School District's most disadvantaged schools.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Alameda	ALA150007	17-01-0001	Alameda	Cross Alameda Trail (includes SRTS component)	City of Alameda: between Webster St and Sherman St: construct a new trail with an on-street portion.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150009	17-01-0003	Livermore	Livermore Marilyn Avenue Safe Routes to School	Livermore: Marilyn Avenue Elementary School: Safe Routes to School infrastructure improvements surrounding Marilyn Avenue Elementary School.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150010	17-01-0001	Oakland	International Boulevard Improvement Project	Oakland: International Boulevard and East 12th Street corridor from 1st Avenue to Durant Avenue: Install pedestrian scale lighting along the corridor, repair sidewalk damage, and install curb ramps.	EXEMPT (40 CFR 93.126) - Lighting improvements	2040
Alameda	ALA150011	17-01-0004	Albany	Complete Streets for San Pablo Ave/Buchanan St.	Albany: San Pablo Ave and Buchanan St: Implement Complete Streets elements including curb extensions, high visibility crosswalks, medians, pedestrian signals and gateway improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150012	17-01-0007	Oakland	Laurel Access to Mills, Maxwell Park and Seminary	Oakland: MacArthur Boulevard from High St to Simmons St: Implement bicycle and pedestrian improvements	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Alameda	ALA150014	17-10-0026	LAVTA	LAVTA: Bus Purchase-Low Floor	LAVTA: 40' Hybrids: Replace 4 2002-Low Floor Diesel Vehicles with 4 40' Hybrids.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150015	17-10-0026	LAVTA	LAVTA: Bus Purchase-Over the Road	LAVTA: 40' Hybrids: Replace 4 2002- over the road Diesel vehicles with 4 40' Hybrids.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150016	17-10-0026	LAVTA	LAVTA: Bus Purchase-7 Hybrids	LAVTA: 35' Hybrids: Replace 7 2003- Diesel vehicles with 1 40' Hybrid and 6 35' Hybrids	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150017	17-10-0026	LAVTA	LAVTA: 5 40' Hybrids	LAVTA: 40' Hybrids: Replace 5 2000 40'Diesel Vehicles with 5 40' Hybrids	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150019	17-01-0007	LAVTA	Dublin Blvd Transit Performance Initiative	LAVTA: Dublin Blvd: Project includes implementing Adaptive Signal Control at 27 intersections, Transit Signal Priority, signal coordination, key bus stop improvements, updated customer interface portal,	EXEMPT (40 CFR 93.128) - Traffic signal synchronization projects	2040
Alameda	ALA150020	17-01-0007	AC Transit	AC Transit: South County Corridors	AC Transit: South Alameda County Major Corridors: Travel time improvements including Adaptive Traffic Control Systems, corridor-wide Transit Signal Priority, signal coordination and relocation of key bus	EXEMPT (40 CFR 93.128) - Traffic signal synchronization projects	2040
Alameda	ALA150021	17-10-0024	Caltrans	SFOBB Maintenance Complex Ph 3 Training Facility	Near Oakland, at the San Francisco Oakland Bay Bridge Toll Plaza Building. Reconstruct maintenance complex training facilities.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040

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Alameda	ALA150023	17-01-0002	Oakland	Oakland Car Share and Outreach Program	Oakland: Citywide: Oakland's car sharing program will extend dedicated car sharing spaces into public right of way and conduct outreach to disadvantaged communities and low-income groups	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
Alameda	ALA150024	17-01-0003	Oakland	Oakland: High/Ygnacio/Courtland Bike/Ped Imprvmnts	In Oakland: Intersection of High Street, Courtland Avenue and Ygnacio Avenue: Implement improvements for pedestrian and bicyclist safety	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150025	17-01-0003	Oakland	Oakland Safe Routes to Schools Various Locations	In Oakland: At six school locations: Implement crossing and access improvements for pedestrians and bicyclist	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150026	17-01-0003	Alameda County	Safe Routes to School, Unincorporated Alameda Co.	In Unincorporated Alameda County: Various schools: Bicycle and pedestrian education for children walking and biking to school.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Alameda	ALA150028	17-01-0001	Alameda County	Ashland Avenue Bicycle/Ped Improvements	Ashland, Unincorporated Alameda County: Ashland Avenue between E.Lewelling Blvd and East 14th St: Widen sidewalk, Install Class II Bicycle lanes and ped lighting	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150029	17-01-0002	UCBerkeley	UC Berkeley Parking Price Auction Study	Berkeley: UC Berkeley: Conduct study to determine the real value of parking of current parking permit holders who pay a discounted rate relative to commercially available parking	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Alameda	ALA150030	17-01-0008	BART	Ladders of Opportunity - Careers in Transit	BART: Implement new Transit Career Ladders Training Program to improve training access for traditionally underrepresented individuals by developing streamlined pathways into transportation	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Alameda	ALA150031	17-10-0026	LAVTA	LAVTA: Replacement (11) 40' Hybrid Buses	LAVTA: Purchase 11 40' hybrid buses to replace diesel buses that have exceeded their useful life	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150032	17-10-0026	LAVTA	LAVTA: Replacement (9) 30' Hybrid Buses	LAVTA: Purchase nine (9) 30' hybrid buses to replace diesel buses that have exceeded their useful life	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150033	17-10-0026	LAVTA	LAVTA: Service Vehicles (2) Trucks	LAVTA: Purchase two service trucks for use in maintenance yard and along the Wheels bus lines.	EXEMPT (40 CFR 93.126) - Purchase of support vehicles	2040
Alameda	ALA150035	17-10-0028	LAVTA	LAVTA: Farebox Replacement	LAVTA: New Buses: Install farebox devices compliant with Clipper technology	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Alameda	ALA150036	17-10-0026	LAVTA	LAVTA: Service Vehicles (3) Road Supervisor	LAVTA: Purchase 3 vehicles for road supervisors' use when providing roadside assistance to the fixed-route fleet. These vehicle will be outfitted with tools and equipment necessary to perform	EXEMPT (40 CFR 93.126) - Purchase of support vehicles	2040
Alameda	ALA150037	17-10-0026	LAVTA	LAVTA: Service Vehicles (4) shift trade	LAVTA: Purchase 4 vehicles for road supervisors' use when providing roadside assistance to the fixed-route fleet. These vehicles will be outfitted with tools and equipment necessary to perform	EXEMPT (40 CFR 93.126) - Purchase of support vehicles	2040
Alameda	ALA150038	17-10-0026	AC Transit	AC Transit: Purchase (10) Double-Deck Diesel Buses	AC Transit: Purchase (10) Double-Deck Diesel Buses to replace buses in existing fleet	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150039	17-10-0026	AC Transit	AC Transit: Purchase (10) 40' Buses-Fuel Cell ZEB	AC Transit: Replace 10 40ft urban diesel buses with Zero-emission fuel cell buses	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150040	17-10-0026	AC Transit	AC Transit: Replace (10) 40ft Urban Buses-Diesels	AC Transit: Replace 10 (of 102 in sub-fleet) 40ft urban diesel buses with diesels	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150041	17-10-0026	AC Transit	AC Transit: Replace (29) 60' Artic Buses - Diesels	AC Transit: Replace 29 60ft artic urban diesel buses with diesels	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA150044	17-01-0004	Oakland	19th St BART to Lake Merritt Urban Greenway	In Oakland: Between Broadway and Harrison Street: Improvements include sidewalk widening and bulbouts, ped crossing improvements, bikelanes, new traffic signals and signal mods, street/ped lighting,	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040

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Alameda	ALA150045	17-10-0026	AC Transit	AC Transit: PM - Exchange for 40ft Fuel Cell ZEB	AC Transit: Preventive maintenance program, including maintenance of buses and facilities. Project is in exchange for local funds to replace 10 (of 102 in sub-fleet) 40ft urban diesel buses with Zero-	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Alameda	ALA150046	17-10-0026	Union C Transit	Union City Transit Rehab Two (2) Transit Buses	Union City Transit: Rehabilitate two (2) compressed natural gas (CNG) buses from 2008 that are now at their mid-life service expectancy. The vehicles have the potential to serve the transit agency longer	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Alameda	ALA150048	17-01-0001	Berkeley	9th St Bicycle Blvd Extension Pathway Ph II	In Berkeley: Between the 9th Street Bicycle Boulevard (south of Heinz Avenue) and Murray Street: Install a shared-use path	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA150049	17-01-0002	Berkeley	goBerkeley Residential Shared Parking Pilot	In Berkeley: In residential areas adjacent to Southside/Telegraph and Elmwood goBerkeley program areas: Implement parking pricing pilot; In pilot areas: Implement TDM strategies and outreach focused on	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Alameda	ALA150050	17-01-0002	Oakland	Oakland Parking and Mobility Management Project	Oakland: Montclair and select areas of Downtown: Implement demand-responsive parking management and transportation demand management initiatives	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Alameda	ALA150051	17-01-0008	LAVTA	Wheels Individualized Marketing Program	LAVTA: Systemwide: Implement a multi-pronged marketing program directed at key subsets of the riding public with the goal of converting non-users to public transit passengers	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Alameda	ALA150052	17-10-0033	AC Transit	AC Transit: SFOBB Forward	AC Transit: Rehab 14 buses and purchase 5 new double-decker buses to expand transbay service. Includes 1 year of operating funding.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA170002	17-01-0037	ACTC	I-80/Ashby Avenue Interchange Improvements	Alameda County: I-80/Ashby IC: Reconstruct the interchange including constructing new bridge, two roundabouts and bike/ped improvements	EXEMPT (40 CFR 93.127) - Interchange reconfiguration projects	2030
Alameda	ALA170003	17-10-0028	Union C Transit	Union City Transit: Single Point Login Terminals	Union City Transit: Systemwide Revenue Transit Vehicles: Implement Single Point Login Terminals, Including Equipment and Programming for Clipper Card.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Alameda	ALA170007	17-10-0023	MTC	Regional Planning Activities and PPM - Alameda	Alameda: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Alameda	ALA170012	17-01-0003	MTC	Bay Bridge Forward-Commuter Parking Access Imps.	Albany and Oakland: Adjacent to Park and Ride lots at I-80/Buchanan Ave, I-880/High St, I-880/Fruitvale; Bicycle/pedestrian/bus stop improvements to facilitate safer access to and from lots; toll credits	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Alameda	ALA170013	17-01-0007	Union C Transit	Union City Transit Travel Time Improvements	Union City: South Alameda County Major Corridors: Travel time improvements including Adaptive Traffic Control Systems, corridor-wide Transit Signal Priority, signal coordination and relocation of key bus	EXEMPT (40 CFR 93.128) - Traffic signal synchronization projects	2040
Alameda	ALA170014	17-10-0026	Union C Transit	Union City Paratransit Van Procurement	Union City Transit: Replace six (6) Union City Paratransit vans	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA170015	17-10-0026	Union C Transit	Union City Transit: Replace Paratransit Sedan	Union City Transit: Replace one (1) Union City Paratransit sedan with one (1) van	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA170027	17-10-0026	AC Transit	AC Transit: Purchase 10 Double-Decker Buses	AC Transit: Purchase 10 Double-Decker Buses for transbay service	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA170028	17-10-0026	AC Transit	AC Transit: Purchase 18 40ft Hybrid-Electric Buses	AC Transit: Purchase 18 40-ft Hybrid-Electric Buses to keep AC Transit's fleet in a state of good repair	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA170029	17-10-0026	AC Transit	AC Transit: Preventive Maintenance (Swap)	AC Transit: Preventive Maintenance (federal funding is provided for this project in exchange for AC Transit's commitment to Replace 9 40' Urban Buses - Battery using local funds)	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Alameda	ALA170030	17-10-0026	AC Transit	AC Transit: Preventive Maintenance (Deferred Comp)	AC Transit: Preventive Maintenance (funding is incentive for delaying bus purchases)	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040

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Alameda	ALA170032	17-10-0026	AC Transit	AC Transit: Purchase 19 60-ft Artic Urban Buses	AC Transit: Purchase 19 60-ft Articulated Urban Buses	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA170039	17-01-0002	Union C Transit	Union City: ADA Paratransit Operating Subsidy	Union City Transit: ADA Paratransit Operating Assistance	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Alameda	ALA170040	17-10-0013	MTC	I-880 Integrated Corridor Management	Alameda County: I-880 corridor from I-880/I-980 IC to I-880/Davis St. IC: Install intelligent transportation system (ITS) infrastructure to facilitate the active management of traffic that naturally diverts	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Alameda	ALA170041	17-10-0026	AC Transit	AC Transit: 5 Battery Electric Bus purchase	AC Transit: Purchase 5 New Flyer battery electric buses with 5 depot charging stations and installation. Includes consulting PM support from CTE.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Alameda	ALA990052	17-10-0026	AC Transit	AC Transit: Paratransit Van Replacement	AC Transit: Amortized cost of replacing vans used for AC Transit paratransit service. Vans are operated and replaced by paratransit contractor. FTA funds programmed annually in lieu of programming for	EXEMPT (40 CFR 93.126) - Purchase of support vehicles	2040
Alameda	ALA990076	17-01-0002	AC Transit	AC Transit: ADA Paratransit Assistance	AC Transit: ADA Paratransit Operating Subsidy.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Alameda	ALA990077	17-01-0002	LAVTA	LAVTA: ADA Paratransit Operating Subsidy	LAVTA: ADA Paratransit Operating Subsidy	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Contra Costa	CC-030001	17-02-0005	AC Transit	AC Transit: Richmond Prkwy Transit Center	Richmond: Adjacent to I-80 at the Richmond Parkway Transit Center; rehabilitation park and ride facility, traffic light installation and restriping on Blume Dr	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Contra Costa	CC-030025	17-10-0026	WCCTA	WCCTA: Preventive Maintenance Program	WestCat: Operating assistance to aid agency with preventive maintenance activities of its fleet.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Contra Costa	CC-030035	17-02-0001	ECCTA	Tri-Delta: ADA Operating Assistance	Tridelta: Operating assistance to fund ADA Set Aside requirement	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Contra Costa	CC-050075	17-10-0022	Danville	Crow Canyon/Camino Tassajara Intersection Imps	Danville: Camino Tassajara, fr Sycamore Valley Rd to Eastern Town limits & Crow Canyon, fr Camino Tassajara to Southern town limits; pavement rehab incl. signal, drainage, spot Sidewalk, curb/gutter &	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-070013	17-02-0035	Brentwood	Lone Tree Way Undercrossing	Brentwood: On Lone Tree Way at the UPRR track; Construct 6-lane grade separation undercrossing.	EXEMPT (40 CFR 93.126) - Railroad/highway crossing	2030
Contra Costa	CC-070033	17-02-0003	EB Reg Park Dis	Conta Costa Parks Bike/Ped Trail Improvements	Contra Costa County: Various County Parks; Various bicycle and pedestrian trail improvements. Construction will be done in different phases.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-070065	17-02-0005	Oakley	Main Street (Previously SR4) Realignment in Oakley	Oakley: On Main St (previously State Route 4) from west of Vintage Parkway to east of 2nd St; Realign roadway, sidewalks, curb, gutters, etc. including traffic calming and signals. No additional automobile	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Contra Costa	CC-070067	17-02-0003	CCTA	Mokelumne Trail Bike/Ped Overcrossing	Brentwood: Construct a pedestrian and bicycle overcrossing near the Mokelumne Trail at State Route 4 in Brentwood.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-070092	17-10-0026	ECCTA	ECCTA: Transit Bus Replacements	Tri-Delta Transit Replacement Revenue Vehicles and associated farebox equipment	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-090001	17-02-0008	Danville	Diablo Road Imps. - Green Valley to Avenida Neuva	On Diablo Road: add EB left turn pocket at Clydesdale Dr; drainage improvements; replacement of 1300 LF retaining wall between Green Valley Rd and Clydesdale Dr; overlay; replace guardrail.	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Contra Costa	CC-110007	17-02-0003	Richmond	Richmond Transit Village: Nevin Imps BART-19th	On Nevin Ave bet 19th St and the BART Station, ped and bicycle street enhancements incl reconstruction of east entrance to the BART station, wide sidewalk, curb ramps, enhanced crosswalks, lighting,	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-110066	17-02-0017	CCTA	SR 239 - New State Highway Study	SR 239 between SR4 in Brentwood and I-205 in Tracy: Conduct environmental and design studies to create a new alignment for SR239 and develop corridor improvements from Brentwood to Tracy.	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040

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Contra Costa	CC-110082	17-02-0043	BART	Walnut Creek BART TOD Access Improvements	Walnut Creek: In the vicinity of the Walnut Creek BART Station: construct public access improvements that are part of the proposed transit-oriented development	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-110083	17-10-0026	CCCTA	Replace Diesel Trolleys with Electric TrolleyBuses	CCCTA: Replace four diesel trolleys with electric trolleys and install the associated infrastructure	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-110084	17-02-0003	CC County	Canal Road Bicycle and Pedestrian Facilites	CC County: Canal Rd from Bailey Rd to Loftus Rd: Construct east and west bound bike lanes and close sidewalk gaps (2,350 ft in total length) on the north side of Canal Rd, other improvements include	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-110099	17-10-0026	CCCTA	CCCTA - Replace 15 40' Buses	CCCTA: replace 15 40' Heavy Duty Diesel Transit Buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-110100	17-10-0026	CCCTA	CCCTA - Replace 18 40' Buses	CCCTA: Replace 18 40' Heavy Duty Diesel Over the Road Buses that have reached the end of their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-130001	17-02-0020	CC County	Bailey Road-State Route 4 Interchange	In Bay Point: At the Bailey Road-State Route 4 interchange; modify ramps and Bailey Road to improve bicycle and pedestrian circulation. Project is phased.	EXEMPT (40 CFR 93.127) - Interchange reconfiguration projects	2030
Contra Costa	CC-130003	17-02-0003	CC County	Bailey Road Bike and Pedestrian Improvements	Bay Point: Bailey Rd from Willow Pass Rd to SR 4: Improve bicycle and pedestrian accessibility. Improvements will expand sidewalks and construct uniform bike lanes to create a corridor conducive to all	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130004	17-10-0022	CC County	Contra Costa County Various Streets & Road Preserv	CC County: Pleasant Hill Road (northbound Rancho View Dr to Reliez Valley Rd), Vasco Road (Walnut Blvd to Frisk Creek Bridge), and Byron Highway(Brentwood Blvd to Marsh Creek Rd): pavement	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130011	17-02-0005	Concord	Detroit Avenue Bicycle and Pedestrian Improvements	Concord: Detroit Ave between Clayton Rd and Monument Blvd: Complete Streets improvements including bike lanes and bike routes; pavement rehabilitation; street lighting improvements; sidewalk gap	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Contra Costa	CC-130012	17-10-0022	Concord	Concord Various Street Preservation	Concord: Concord Blvd (Port Chicago Hwy to 6th Street) and Arnold Industrial Way (Port Chicago Hwy to approximately 1100 ft westerly) Grind and replace the top 2.5" of asphalt concrete and upgrade	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130013	17-02-0008	Concord	Concord New and Upgraded Signals at Various Loc	Concord: Various Locations: Upgrade existing traffic signals, install new traffic signals, and related improvements including ADA upgrades. Includes installing an actuated Bike/Ped Traffic Signal at Oak	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Contra Costa	CC-130015	17-10-0022	Pinole	Pinole - San Pablo Avenue Preservation	Pinole: San Pablo Avenue from Pinole Shores Drive to Sunnyview Drive: Pavement Resurface, and miscellaneous concrete repairs to curbs and gutter	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130020	17-10-0022	Moraga	Moraga Various Streets and Roads Preservation	Moraga: Moraga Road from St Marys Road to Draeger Drive: Perform pavement base repairs; mill and place 2" asphalt concrete; adjust utility frame to grade; install shoulder backing; replace striping and	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130023	17-10-0022	Danville	Danville Various Streets and Roads Preservation	Danville: Sycamore Valley Road from Camino Ramon to San Ramon Valley Boulevard including the bus loop within the adjoining Park-and-Ride Lot, and El Cerro Boulevard from El Pintado Road to La Gonda	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130024	17-02-0003	El Cerrito	Ohlone Greenway Station Area Bike/Ped Improvements	El Cerrito: On Ohlone Greenway at El Cerrito del Norte & Plaza BART Stations & at intersections of Hill, Cutting, Central & Fairmount, widen path & improve ped & bike facilities; at three nodes along length	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130025	17-10-0022	Martinez	Martinez Various Streets and Roads Preservation	Martinez: Various Streets and Roads: Rehab and perform preventative pavement maintenance to roadways and modify curb ramps to meet current ADA standards	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040

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Contra Costa	CC-130026	17-10-0022	Richmond	Richmond Local Streets and Roads Preservation	Richmond: Various Streets and Roads: Rehabilitate pavement and install curb ramps	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130027	17-02-0005	CC County	Port Chicago Hwy/Willow Pass Rd Bike Ped Upgrades	Bay Point: Near the intersection of Port Chicago Hwy and Willow Pass Rd: Install bike lane, sidewalk, curb and gutter, bike/ped access improvements, and intersection channelization	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Contra Costa	CC-130029	17-02-0003	Pleasant Hill	Boyd Road/Elinora Drive SRTS Sidewalk Installation	Pleasant Hill: Along north side of Boyd Road (between Horten Ct and Liahona Ct) and east side of Elinora Dr (between Gladys Dr to Gregory Ln): Install concrete sidewalk, new curb/gutter, driveway conform,	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130030	17-10-0022	Clayton	Clayton Various Streets Preservation	Clayton: Keller Ridge Dr from Eagle Peak Ave to Elk Dr.: Rehabilitate roadway	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130031	17-10-0022	Oakley	Oakley Various Streets and Roads Preservation	Oakley: Various streets and roadways: Rehabilitate roadway including striping	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130032	17-02-0003	San Pablo	San Pablo Avenue Bicycle and Ped Improvements	San Pablo and Richmond: On San Pablo Avenue between Rumrill Blvd and Hilltop Drive: Construct sidewalks and bicycle lanes, modify existing signals to accommodate new striping (no additional	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130033	17-10-0022	Walnut Creek	Walnut Creek - North Main Street Preservation	Walnut Creek: North Main Street from San Luis Road to Geary Road: Rehabilitate roadway and upgrade traffic signal equipment to detect bicycles	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130037	17-02-0003	Moraga	Moraga Rd SRTS Bicycle and Ped Improvements	In Moraga: On Moraga Road between Campolindo High School and St. Mary's Road: Install pedestrian and bicycle facilities, including trails, sidewalks, crossings and bicycle facilities.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130038	17-02-0003	Danville	Vista Grande Street Pedestrian Improvements/SR2S	Danville: Vista Grande Street between Camino Tassajara and Diablo Road/Vista Grande Elementary School: Construct separated asphalt concrete pathway and safety enhancements to provide direct ped/bike	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130040	17-10-0022	Hercules	Hercules-Refugio Valley Road Pavement Preservation	In Hercules: Refugio Valley Road from Sycamore Avenue to Redwood Road: Resurface roadway	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Contra Costa	CC-130045	17-02-0003	CCCTA	CCCTA: Access Improvements Implementation	CCCTA: Various bus stops system-wide: Implement bicycle and pedestrian access improvements identified in County Connection's Access Improvement Study.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130049	17-02-0003	EB Reg Park Dis	Breuner Marsh Restoration and Public Access	City of Richmond: Breuner Marsh at Point Pinole Regional Shoreline Park: Implement public access improvements including a staging area and associated bicycle and pedestrian access improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-130050	17-02-0003	EB Reg Park Dis	SF Bay Trail, Pinole Shores to Bay Front Park	Pinole: Between Pinole Shores and Bayfront Park, approximately 0.5-mile: Construct a section of the San Francisco Bay Trail. Project is phased	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-150001	17-10-0026	WCCTA	WestCAT: Replacement of (10) Paratransit Cut-Aways	WestCat: Paratransit vans: Replace (10) 2008 29ft cutaway style Paratransit Vans with (10) similar style vans	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-150002	17-02-0009	WCCTA	WestCAT: Purchase of (10) Radio systems	WestCat: Radio systems: Purchase of (10) Radio systems for (10) Cut Away Van's	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Contra Costa	CC-150003	17-02-0009	WCCTA	WestCAT: Purchase of (2) Electronic Fareboxes	WestCat: Fareboxes: Purchase of (2) Fast Fare Electronic Fareboxes	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Contra Costa	CC-150004	17-10-0026	WCCTA	WestCAT: Replace (1) 2003 40ft Revenue Vehicle	WestCAT: Replace (1) 2003 40 foot revenue vehicle with similar (1) 40 foot revenue vehicle	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-150005	17-10-0026	WCCTA	WestCAT: Replace (1) 40ft Rev. Vehicle with 43ft	WestCat: Replace (1) 2003 40 foot Revenue Vehicle with (1) 43 foot Double Decker vehicle	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-150006	17-10-0026	CCCTA	CCCTA: Replace 18 30' Buses	CCCTA: Replace 18 30' Heavy Duty Diesel buses that have reached the end of their useful life, four (4) of the diesel buses will be replaced with four (4) electric buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040

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Contra Costa	CC-150007	17-10-0026	CCCTA	CCCTA: Replace 13 35' Buses	CCCTA: Replace 13 35' Heavy Duty Diesel Buses that have reached the end of their useful life.□	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-150008	17-10-0026	CCCTA	CCCTA: Replace 3 Paratransit Vans	CCCTA: Replace 3 paratransit vans that have reached the end of their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-150010	17-02-0003	CC County	CC County - Rio Vista Elementary Ped Connection	Contra Costa County: On Pacifica Avenue between Mariners Cove Drive and Wharf Drive: Install sidewalks, bike lanes, flashing beacons, speed feedback sign, retaining wall and drainage improvements and	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-150011	17-02-0003	Pleasant Hill	Contra Costa Blvd. Improvement (Beth to Harriet)	HSIP5-04-015 In Pleasant Hill: On Contra Costa Blvd between Beth Drive and Harriet Drive: Installation of new sidewalk, bike lanes, traffic signal, landscaping and street lighting.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-150012	17-02-0009	CCCTA	REMIX Software Implementation Project	County Connection: Systemwide: Integrate REMIX mapping software into County Connection's planning process.	EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities	2040
Contra Costa	CC-150014	17-10-0026	WCCTA	WestCAT: Replace (1) 1998 40 ft Vehicle	WCCTA: Replace (1) 1998 Revenue Vehicle with (1) 40 ft Revenue Vehicle	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-150015	17-02-0009	WCCTA	WestCAT: Purchase (1) Fast Fare Electronic Farebox	WestCAT: Purchase and Install (1) FastFare Electronic Farebox for (1) 40 ft Revenue Vehicle	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Contra Costa	CC-150016	17-02-0003	Richmond	The Yellow Brick Road in Richmond's Iron Triangle	Richmond: Various locations outlined in the the Yellow Brick Road Plan: Implement bike/ped improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-150018	17-02-0008	Walnut Creek	Walnut Creek-Parking Guidance System Pilot	Walnut Creek: Downtown core area: Implement Parking Guidance System connected to all public parking in downtown core area.	EXEMPT (40 CFR 93.126) - Directional and informational signs	2040
Contra Costa	CC-150019	17-10-0026	BART	Concord Yard Wheel Truing Facility	BART: Concord Yard: Construct a wheel truing facility which will house a dual-guage wheel truing machine to service both BART and eBART vehicle wheels.	EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities	2040
Contra Costa	CC-150020	17-02-0001	ECCTA	ECCTA: Non-ADA Paratransit to FR Incentive Program	ECCTA: Systemwide: Use outreach, travel training and fare incentives to move non-ADA paratransit users to FR service	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Contra Costa	CC-150021	17-02-0009	WCCTA	WestCAT - AVL System with APC Element.	Western Contra Costa Transit Authority (WestCAT): Systemwide: Purchase and install a new AVL system including automatic passenger counting (APC)	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Contra Costa	CC-150022	17-10-0033	WCCTA	WCCTA: Purchase of (2) Double Decker buses	WCCTA: Purchase (2) Double Decker vehicles to expand service on the Lynx Transbay Service, by adding additional capacity to trips	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-170004	17-10-0023	MTC	Regional Planning Activities and PPM - CC County	Contra Costa: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Contra Costa	CC-170006	17-10-0026	WCCTA	WestCAT: Replace (2) 2002 40ft Revenue Vehicles	WestCAT: Replace (2) 2002 40 ft Revenue Vehicles with similar vehicles	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Contra Costa	CC-170007	17-02-0009	WCCTA	WestCAT: Purchase 2 Fast Fare Electronic Fareboxes	WestCAT: Purchase and Install (2) FastFare Electronic Fareboxes	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Contra Costa	CC-170014	17-02-0003	San Ramon	Iron Horse Trail Bike and Pedestrian Overcrossings	In San Ramon: At the intersections of Bollinger Canyon Road and the Iron Horse Trail and Crow Canyon Road and the Iron Horse Trail: Construct two bicycle/pedestrian overcrossings	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Contra Costa	CC-990045	17-02-0001	WCCTA	WestCat: ADA Paratransit Operating Subsidy	WestCAT: ADA Paratransit Operating Subsidy	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Contra Costa	CC-99T001	17-10-0027	CCCTA	CCCTA: ADA Paratransit Assistance	CCCTA: ADA Paratransit Assistance to transit agency.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Marin	MRN010035	17-10-0026	GGBHTD	ACIS Radio Communications System	GGBHTD: Replace radio communications system on agency's bus fleet.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040

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Marin	MRN030010	17-10-0026	GGBHTD	GGBHTD: Fixed Guideway Connectors	Golden Gate Ferry: Systemwide: Replace/rehab fixed guideway connectors such as floats, floating barges, ramps, and gangways	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Marin	MRN050014	17-03-0001	TAM	Central Marin Ferry Access Improvements	Central Marin: From the southern terminus of the Cal Park Hill path connecting to the east/west path adjacent to E. Sir Francis Drake Blvd.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN050018	17-10-0009	GGBHTD	Golden Gate Bridge Seismic Retrofit, Phase 3B	SF/Marin County: Golden Gate Bridge; Seismic retrofit of the Golden Gate Bridge - construction of suspension span, south pier and fender.	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Marin	MRN050019	17-10-0009	GGBHTD	Golden Gate Bridge-Suicide Deterrent SafetyBarrier	Golden Gate Bridge: Build suicide deterrent system. Including design & Environmental analysis, plus analysis of alternatives & wind tunnel tests to ensure the feasibility of designs and build deterrent	EXEMPT (40 CFR 93.126) - Safer non-Federal-aid system roads	2040
Marin	MRN050025	17-10-0026	GGBHTD	GGBHTD: Facilities Rehabilitation	GGBHTD: Systemwide: Rehabilitate agency's maintenance and operating facilities and replace heavy duty operating and maintenance equipment.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Marin	MRN050033	17-03-0001	Marin County	Non-motorized Transp. Pilot Program - Marin County	Marin County; Various locations; Lump sum Non-motorized Transportation Pilot Program. Project is consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN070002	17-10-0022	Mill Valley	Mill Valley - Miller Avenue Rehabilitation	HSIP5-04-009 - Mill Valley: Miller Avenue between Sunnyside Ave and Almonte Blvd: Pavement resurfacing, reconstruction of bicycle lanes, modifications to traffic islands, and improvements to sidewalk	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Marin	MRN070009	17-03-0001	San Rafael	San Rafael - Non-motorized Transport Pilot Program	San Rafael: Construct infrastructure, network planning, & educational programs to ascertain whether bicycling and walking can result in greater share of overall trips and reduce SOV usage.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN070017	17-03-0001	TAM	TAM - Non-motorized Transportation Pilot Program	Marin County: Construct infrastructure, network planning, & educational programs to ascertain whether bicycling and walking can result in greater share of overall trips and reduce SOV usage.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN070019	17-03-0001	Marin County	Marin Parklands Visitor Access, Phase 2	Marin Parklands: Pacific Way bridge at Big Lagoon: Reconstruct bridge and widen to add bike lanes. No added motor-vehicle capacity	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN090049	17-03-0001	Marin County	Non-motorized Transp. Projects - Marin County	Marin County; Various locations; Bicycle & pedestrian improvement projects	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN110010	17-03-0001	Sausalito	Sausalito - Bridgeway/US 101 Off Ramp Bicycle Imps	Sausalito: Highway 101 Off Ramp/Bridgeway/Gate 6 Intersection: Improve bicycle traffic	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN110033	17-03-0001	Marin County	Miller Creek Road Bike Lanes and Ped Improvements	In Marin County:On Miller creek road, Add Class 2 Bicycle Lanes by restriping road and intersection improvements at Miller Creek and Marinwood Avenue to enhance pedestrian and cyclist safety	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN110034	17-10-0025	TAM	Highway 101 Landscaping for Gap Closure Project	In Marin County, On Highway 101, Landscaping for the Gap Closure Project.	EXEMPT (40 CFR 93.126) - Plantings, landscaping, etc	2040
Marin	MRN110040	17-10-0026	MCTD	MCTD Preventive Maintenance	Marin Transit: Systemwide: Bus Transit Preventative maintenance	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Marin	MRN110041	17-10-0027	MCTD	Marin Transit Low Income Youth Pass Program	Marin Transit: Provide low-income youth free bus passes. Other local funds are made available for this project by applying STP/CMAQ funding available through the TPI program to MRN110040	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
Marin	MRN110045	17-10-0026	GGBHTD	GGBHTD: Replace 7 - 40' Diesel Buses	GGBHTD: Replace seven (7) 40' Diesel Buses	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040

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Marin	MRN110047	17-10-0027	MCTD	MCTD: ADA Paratransit Assistance	MCTD: ADA Paratransit Assistance to transit agency.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Marin	MRN130004	17-10-0022	San Rafael	San Rafael Various Streets and Roads Preservation	San Rafael: Point San Pedro Rd from 600' north of Biscayne Dr to Riviera Dr and Del Presidio Blvd from Manual T. Freitas Parkway to Las Gallinas Ave: Resurface roadway	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Marin	MRN130005	17-03-0016	San Rafael	San Rafael Transit Center Pedestrian Access Imps.	San Rafael: In the vicinity of the Bettini Transit Center and the future SMART station: Upgrade existing traffic signal equipment to be compliant with rail and improve pedestrian facilities	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Marin	MRN130006	17-10-0022	Ross	Bolinas Avenue and Sir Francis Drake Intersection	Ross: On Sir Francis Drake Blvd from Winship Ave through the 100 block and on Bolinas Ave from Sir Francis Drake Blvd to Shady Ln: Rehabilitate pavement and replace the traffic signal	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Marin	MRN130007	17-03-0004	Marin County	North Civic Center Drive Improvements	In San Rafael: On Civic Center Drive from Merrydale Overcrossing/Scettrini Drive to Judge Haley Drive: Construct bike/ped improvements	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Marin	MRN130009	17-03-0005	Fairfax	Parkade Circulation and Safety Improvements	Fairfax: Between Sir Francis Drake Boulevard, Pacheco Avenue, Claus Drive and Broadway: Improve bicycle, pedestrian, transit, and vehicular circulation and safety around and through the Parkade in	EXEMPT (40 CFR 93.127) - Bus terminals and transfer points	2040
Marin	MRN130010	17-10-0022	Marin County	Donahue Street Road Rehabilitation Project	Marin County: Donahue St from Drake Ave. to Bridge Blvd. and Bridge Blvd. from Donahue St. to Bridgeway: Rehabilitate roadway; Donahue St. at Terners Dr. and at Bridge Blvd: Upgrade traffic signal	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Marin	MRN130011	17-10-0022	Novato	DeLong Avenue and Ignacio Boulevard Resurfacing	Novato: At the DeLong Avenue and Ignacio Boulevard interchanges: Reconstruct the bridge deck approaches with appropriate conforms and improved pavement surfaces to improve vehicular, pedestrian	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Marin	MRN130012	17-03-0001	Mill Valley	Bayfront Park Recreational Bay Access Pier Rehab	Mill Valley: Bayfront Park: Construct trail connector to Bay Trail and waterfront including a reconstruction of the pier	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN130013	17-03-0001	San Anselmo	Sunny Hill Ridge and Red Hill Trails	In San Anselmo: Near Sunny Hill and Red Hill: Construct three miles of hiking trails	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN130014	17-03-0001	Marin County	Mill Valley-Sausalito Pathway Preservation	Marin County: Mill Valley-Sausalito multiuse pathway from East Bliithedale Avenue to Almonte Boulevard in Mill Valley: Rehabilitate multi-use path	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN130015	17-03-0005	GGBHTD	GGBHTD - Transit Systems Enhancements	GGBHTD: Systemwide: systems, technology and communication enhancements to transit fleet and facilities.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Marin	MRN150003	17-03-0005	MCTD	MCTD: On Board Vehicle Equipment	MCTD: Farebox: Install fareboxes on 62 paratransit vehicles and Dial-A-Ride vehicles. Replace fareboxes on 18 fixed route vehicles	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Marin	MRN150004	17-10-0015	TAM	TAM - Car Share Canal	Marin County: Car Share CANAL is a Pilot Project to Integrate Transit, focused on Environmental Justice, Mobility, Immigration Support and Climate Protection Education. This is a non infrastructure project.	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
Marin	MRN150005	17-10-0026	GGBHTD	MS Sonoma Ferry Boat Refurbishment	GGBHTD: MS Sonoma: Refurbish 38-year old ferry vessel	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Marin	MRN150007	17-10-0027	GGBHTD	GGBHTD: On-Board Bus and Ferry Surveys	GGBHTD: Systemwide: Conduct survey of bus and ferry passengers to collect ridership and socioeconomic data, required to support equity analyses for Title VI for fare or major service changes.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Marin	MRN150008	17-03-0001	San Rafael	Grand Avenue Bicycle Pedestrian Improvements	San Rafael: Grand Ave across the San Rafael Canal: Construct bridge and sidewalk improvements for bicyclists and pedestrians	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN150010	17-10-0026	MCTD	MCTD - Relocate Transit Maintenance Facility	In North Eastern Marin County: Relocate contractor maintenance facilities in a centralized location, including bus parking and three maintenance bays.	EXEMPT (40 CFR 93.126) - Construction of new bus or rail storage/maintenance facilities categorically excluded in 23 CFR part 771	2040
Marin	MRN150011	17-10-0026	MCTD	MCTD- Replace 2 Shuttle Vehicles	MCTD: Replace two fixed route shuttle buses that are beyond their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040

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Marin	MRN150012	17-10-0026	MCTD	MCTD - Replace 13 -40ft Buses	MCTD: Replace 13 40ft vehicles that are beyond their useful life	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Marin	MRN150013	17-10-0026	MCTD	MCTD - Emergency Radio System	MCTD: Replace radio system on fixed route shuttles and rural service to meet emergency radio requirements.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Marin	MRN150014	17-10-0026	GGBHTD	GGBHTD Ferry Major Components Rehab	GGBHTD: Systemwide: Ferry Rehab, replace major ferry components such as navigation systems, dry-dock, hull, interior, life saving equipment, propulsion and other ferry components.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Marin	MRN150015	17-10-0026	GGBHTD	GGBHTD Ferry Propulsion Systems Replacement	GGBHTD: Systemwide: Ferry propulsion systems: replacement of power distribution systems, propellers, engines, generators, gear boxes, etc. for Golden Gate Ferry vessels.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Marin	MRN150016	17-10-0022	Novato	Vineyard Road Improvements	Novato: Vineyard Road from Wilson Avenue to Sutro Avenue: Perform pavement rehabilitation, install bicycle lanes, and property owner-funded frontage improvements	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Marin	MRN170001	17-10-0023	MTC	Regional Planning Activities and PPM - Marin	Marin: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Marin	MRN170003	17-10-0026	MCTD	MCTD: Replace Paratransit Vehicles	MCTD: Replace 19 Paratransit Vehicles	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Marin	MRN170004	17-10-0026	MCTD	MCTD: Replace Paratransit Vehicles with Vans	MCTD: Replace two Paratransit Vehicles with Vans and purchase a third vehicle as a non-revenue support vehicle	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Marin	MRN170009	17-10-0026	GGBHTD	GGBHTD: Replace Paratransit Vehicles	GGBHTD: Replace 8 paratransit vehicles	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Marin	MRN170011	17-03-0001	TAM	North-South Greenway Gap Closure	Marin County: Northern Segment: US101 off-ramp over Corte Madera Creek and along Old Redwood Highway to US101 overcrossing: widen to add bike/ped path. Southern Segment: From Northern	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Marin	MRN970016	17-10-0009	GGBHTD	Golden Gate Bridge Seismic Retrofit, Ph: 1-3A	San Francisco /Marin Counties: Golden Gate Bridge; Seismic retrofit of the Golden Gate Bridge - construction on north and south approach viaducts, and Ft. Point Arch.	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Marin	MRN990017	17-10-0026	GGBHTD	Ferry channel & berth dredging	Golden Gate Ferry: From San Francisco to Marin County; Dredge ferry channel and berth.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Napa	NAP030004	17-10-0027	NVTA	NVTA: ADA Operating Assistance	Napa: ADA operating assistance for paratransit service	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Napa	NAP030005	17-04-0006	NVTA	Napa: Bus Stop Improvements	Napa Vine: Various bus stop improvements throughout the Napa County transit service areas. Add City/County Bus Passenger Amenities especially ADA Bus Stop Improvements.	EXEMPT (40 CFR 93.126) - Construction of small passenger shelters and information kiosks	2040
Napa	NAP090003	17-04-0009	NVTA	SR 12/29/221 Soscol Junction Interchange Study	In Napa County, study alternatives to construct new southbound Route 221 to southbound Route 29 flyover (including auxiliary lane to Route 12/Route 29). TIP project is for ENV and PSE only.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2020
Napa	NAP090005	17-10-0026	NVTA	NVTA: Replace Rolling Stock	NVTA: Replace rolling stock for fixed-route, paratransit, and community shuttle fleet.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Napa	NAP090008	17-10-0026	NVTA	NVTA Equipment Replacement and Upgrades	NVTA: Napa Vine service area: Replacement and upgrades to transit equipment	EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities	2040
Napa	NAP110014	17-04-0001	NVTA	Napa Valley Vine Trail Design and Construction	Napa County: Various locations: Design and construction of individual segments of Vine Trail.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040

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County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Napa	NAP110023	17-10-0022	Napa County	Silverado Trail Phase H Rehab	County of Napa: On Silverado Trail from Howell Mtn to Zinfandel (Phase H); rehabilitate roadway retaining existing Class II bicycle lanes	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Napa	NAP110026	17-10-0024	Napa County	Hardin Rd Bridge Replacement - 21C0058	Napa County: On Harding Rd at Maxwell Creek, 1.6M SE of Pope Cyn Rd: Replace existing one lane bridge with new 2-lane bridge to meet standards	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Napa	NAP110027	17-10-0024	Napa County	Loma Vista Dr Bridge Replacement - 21C0080	Napa County: Loma Vista Dr over Soda Creek, 1.4 miles north of Silverado Trail: replace existing one lane bridge with new two lane bridge to meet standards	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Napa	NAP110028	17-04-0005	Napa	California Boulevard Roundabouts	City of Napa: At at First Street/ California Blvd. and Second Street/ California Blvd: Construct roundabouts Caltrans: Construct roundabout at Northbound off-ramp of SR 29 and First Street	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Napa	NAP130003	17-10-0022	Napa County	Airport Boulevard Rehabilitation	In Napa County: On Airport Boulevard between SR 29 and Napa County Airport: Rehabilitate roadway and retrofit curb ramps at 3 intersections, retaining existing Class II bicycle lanes.	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Napa	NAP130004	17-04-0001	Napa	Highway 29/Napa Creek Bicycle Path Upgrade	Napa: On the North side of Napa Creek under Highway 29: Construct a Class 1 bicycle and pedestrian path	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Napa	NAP130007	17-04-0002	Caltrans	Hwy 29 Grayson Ave. Signal Construction	In St. Helena: At the intersection of Hwy 29 and Grayson Ave: Install three way signal with ADA ramp upgrades	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Napa	NAP130008	17-04-0001	Yountville	Hopper Creek Pedestrian Bridge and Path Project	Yountville: Along Hopper Creek from Oak Circle Open Space to Mission St: Construct multi-use pathway and a pedestrian bridge across Hopper Creek	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Napa	NAP130009	17-10-0022	Napa County	Silverado Trail Phase G Rehab	County of Napa: On Silverado Trail from Calistoga to Larkmead (Phase G); rehabilitate roadway retaining existing Class II bicycle lanes	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Napa	NAP130010	17-04-0002	Napa County	Silverado Trail Yountville-Napa Safety Improvement	In Napa County: On Silverado Trail at Yountville Crossroad: Construct intersection safety improvements; On Silverado Trail between Yountville and Napa: Install rumble strips	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Napa	NAP150001	17-04-0002	Calistoga	SR 128 and Petrified Forest Intersection Imp	In Calistoga: On SR 128 and Petrified Forest Road, convert 4-way stop controlled intersection to a traffic signal.	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Napa	NAP150003	17-04-0001	NVTA	Napa Valley Vine Trail Calistoga-St. Helena Seg.	In Napa County: From Calistoga to St. Helena: Construct multi-use trail	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Napa	NAP170001	17-10-0023	MTC	Regional Planning Activities and PPM - Napa	Napa: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Napa	NAP170002	17-10-0022	Napa County	Napa County: 2014 Earthquake Pavement Repair	In Napa County: On various federal-aid system roads: Repair pavement damage caused by 2014 earthquake.	EXEMPT (40 CFR 93.126) - Emergency relief (23 U.S.C. 125)	2040
Napa	NAP970010	17-10-0027	NVTA	Napa Vine Operating Assistance	Napa Vine: Operating assistance to support transit routes and services.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	BRT030004	17-10-0005	BART	BART Train Control Renovation	BART: Replace obsolete elements and subsystems of the train control system.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2030
Regional/Multi-County	BRT030005	17-10-0005	BART	BART: Traction Power System Renovation	BART: System wide: Replace obsolete elements and subsystems of the traction power system to maintain and improve reliability and safety	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2030
Regional/Multi-County	BRT97100B	17-10-0026	BART	BART: Rail, Way and Structures Program	BART: Systemwide; Replace worn out mainline rail and make other timely reinvestments in way.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Regional/Multi-County	BRT99T01B	17-10-0005	BART	BART:ADA Paratransit Capital Accessibility Improve	BART: At various stations: Capital Access Improvements Program including, station elevator improvements, installation of hands-free emergency telephones, and tactile stair tread replacement	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2030

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Regional/Multi-County	CC-130048	17-10-0005	BART	BART Station Modernization Program	All BART Stations: Implement station access improvements, upgrade of lighting, elevator, escalator, stairs, railings, station agent booth, roof, walls, painting, and noise reduction.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2030
Regional/Multi-County	MTC050001	17-10-0015	MTC	Bay Area Commuter Benefits Program	San Francisco Bay Area: Region wide: Implement the Bay Area Commuter Benefits Program. Toll credits applied in lieu of match	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
Regional/Multi-County	MTC050020	17-10-0029	MTC	Real-time Transit Information Program	San Francisco Bay Area: Regionwide; Provide real-time transit information to riders at transit stops or via telephone, wireless or internet communication.	EXEMPT (40 CFR 93.126) - Directional and informational signs	2040
Regional/Multi-County	MTC050021	17-10-0015	MTC	Safe Routes to Transit	Regionwide: Grants to fund infrastructure projects that improve bike/ped access to transit stations. Including signs, multi-use trails and bike parking.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Regional/Multi-County	REG050020	17-10-0026	BART	BART Car Exchange (Preventive Maintenance)	BART: Preventive maintenance program, including maintenance of rail cars and other system components in exchange for local funds to the BART car replacement reserve.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Regional/Multi-County	REG090002	17-10-0027	MTC	GL: JARC FY 09 - FY 10 - Large UA	GL: JARC FY 09 - FY 10 - Large UA. Various JARC projects in large urbanized areas. Project is consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	REG090039	17-10-0022	MTC	Regional Streets and Roads Program	Regionwide: Regional Streets and Roads Program including providing assistance to Bay Area agencies to implement & maintain computerized pavement management system (PMS), implementing PTAP	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Regional/Multi-County	REG090042	17-10-0029	MTC	511 Traveler Information	Regionwide: Provides multimodal, accurate, reliable, and accessible traveler information on multiple dissemination platforms; serves as the go-to source during major disruptions and emergencies; and	EXEMPT (40 CFR 93.126) - Directional and informational signs	2040
Regional/Multi-County	REG090044	17-10-0013	MTC-SAFE	Incident Management Program	Regionwide: Manage congestion by implementing strategies to enhance mobility and safety, and reduce the impacts of traffic incidents, including advanced transportation management technologies and	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	REG090045	17-10-0028	MTC	Clipper Fare Collection System	San Francisco Bay Area: Regionwide; Design, build, operate and maintain the Clipper fare collection system. Note: Translink became Clipper on 6/16/10.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Regional/Multi-County	REG090046	17-10-0013	MTC	Regional Arterial Operations & Signal Timing Prog	Regional: Develop plans to guide arterial investments, and provide project management and traffic engineering/tech assistance (including procuring traffic signal & comm. equipment and	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	REG090051	17-10-0026	Caltrain	Caltrain: Revenue Vehicle Rehab Program	Caltrain: Systemwide: Provide overhauls and repairs/replacements to key components of the Caltrain rolling stock to maintain it in a state of good repair.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Regional/Multi-County	REG090054	17-10-0026	WETA	WETA: Ferry Channel & Berth Dredging	WETA: Various service areas: Dredge ferry channel, ferry basin and berth	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Regional/Multi-County	REG090055	17-10-0026	WETA	WETA: Ferry Propulsion System Replacement	WETA: Ongoing: A mid-life overhaul is scheduled when a ferry reaches approximately 12.5 years of service life. Equipment service hours and specific vessel needs may affect the timing of the projects.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Regional/Multi-County	REG090057	17-10-0026	WETA	WETA: Ferry Major Component Rehab/Replacement	WETA: Ferry vessels are required to undergo periodic haul-out and rehabilitation work to remain in working order over their 25-year life.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Regional/Multi-County	REG090065	17-10-0015	MTC	Climate Initiatives Program Public Education	Climate Initiatives Program: Regionwide, community-based social marketing campaign & support for programs to encourage sustainable transportation behavioral changes to reduce criteria pollutants and	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040

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Regional/Multi-County	REG090067	17-10-0026	WETA	WETA: Fixed Guideway Connectors	WETA: Various locations: This project will replace/rehab fixed guideway connectors such as floats, floating barges, ramps and gangways throughout the system.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Regional/Multi-County	REG110010	17-10-0015	MTC	Regional Bicycle Sharing Program	Regionwide: various locations: Implement a bikesharing program	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Regional/Multi-County	REG110011	17-10-0015	MTC	Electric Vehicle Funding Strategies	Region-wide: Support the deployment of electric vehicles in the Bay Area including approaches such as infrastructure, outreach, and other supportive strategies.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Regional/Multi-County	REG110020	17-10-0026	WETA	WETA: Facilities Rehabilitation	WETA: Various Locations: Rehabilitate ferry facilities in order to maintain existing transit services.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Regional/Multi-County	REG110028	17-10-0011	MTC	GL: FY10 JARC Mobility Management	GL: Mobility Management. Various mobility management projects in the SFO, Concord and San Jose large urbanized areas. Project is consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	REG110030	17-10-0008	Caltrain	Caltrain Positive Train Control System	CBOSS/PTC is an advanced train control system that allows for automated collision prevention, improved manual collision prevention, and improved headways. The FRA has mandated PTC be in place by	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2030
Regional/Multi-County	REG110032	17-10-0011	MTC	GL: JARC FY11-FY12 Large UA	GL: JARC FY11-FY12 Large UA. Various JARC projects in large urbanized areas. Project is consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	REG110039	17-10-0011	MTC	GL: 5307 JARC Set-aside FY13-FY14 Large UA	GL: 5307 JARC Set-aside FY13 Large UA. Various 5307 (former JARC) projects in large urbanized areas. Project is consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	REG110041	17-10-0027	Caltrans	GL: FTA Non-Urbanized Formula Program	GL: FTA Section 5311 Non-Urbanized Formula Program, Non-ITS portion. Projects include capital and operating assistance, capital and preventive maintenance. Projects consistent with 40 CFR Part 93.126,	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	REG110042	17-10-0011	Caltrans	GL: Elderly & Persons with Disability Program	Region-Wide: Eld. & persons with Disabilities. Prog Lump Sum Listing; Project incl. Veh. replacements, minor expansion & office equip. Consist with 40 CFR Part 93.126, 127, 128 Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Regional/Multi-County	REG110044	17-10-0026	ACE	ACE Positive Train Control	ACE System-wide: Install an advanced train control system that allows for automated collision prevention, improved manual collision prevention, and improved headways.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Regional/Multi-County	REG130001	17-10-0024	MTC	Toll Bridge Maintenance	Region-wide: Seven state-owned toll bridges: routine maintenance of bridge facilities	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Regional/Multi-County	REG130002	17-10-0024	MTC	Toll Bridge Rehabilitation Program	Bay Area: On 7 state-owned toll bridges: Rehabilitation program	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Regional/Multi-County	REG130003	17-10-0030	MTC-SAFE	FSP and Call Box Program	Regionwide: Manage congestion by preventing and/or addressing minor & major highway incidents/events including FSP and Call Box.	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	REG130005	17-10-0011	MTC	Transit Oriented Affordable Housing	Bay Area Region: Establish a land acquisition and land banking financing fund to maximize the production of affordable housing near transit stations	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Regional/Multi-County	REG150002	17-10-0027	Caltrans	GL: FTA 5311 Rural Area FY15	GL: FTA Section 5311 Rural Area Program, Non-ITS portion. Projects include capital and operating assistance. Projects consistent with 40 CFR Part 93.126 Exempt Table 2	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040

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Regional/Multi-County	REG150003	17-10-0011	Caltrans	GL: Elderly&Persons with Disability Prog FY13-FY14	Region-Wide: Elderly & persons with Disabilities. Prog Lump Sum Listing; Project incl. Veh. replacements, minor expansion & office equip. Consist with 40 CFR Part 93.126 Exempt Table 2	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Regional/Multi-County	REG150004	17-10-0011	MTC	GL: Lifeline Cycle 4 5307 JARC	GL: 5307 JARC Set-aside FY13 Small UA and FY14-FY16 Large and Small UA. Various 5307 (former JARC) projects in large and small urbanized areas. Project is consistent with 40 CFR Part 93.126 Exempt	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	REG150005	17-10-0011	BART	Transit-Oriented Development Pilot Planning Progra	Oakland and San Francisco: Develop a comprehensive TOD strategy that fills the remaining gaps in transportation management and development implementation in the Transbay corridor	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Regional/Multi-County	REG150006	17-10-0032	Caltrain	Caltrain Station Management Toolbox	Caltrain: Systemwide: Develop tools to plan for transit-oriented development and multi-modal access improvements along the corridor. (Other Federal funds are FTA TOD Planning Program funds)	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Regional/Multi-County	REG170001	17-10-0023	MTC	Regional Planning Activities and PPM - MTC	Regional: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Regional/Multi-County	REG170002	17-10-0013	MTC	Transportation Management Systems	Regionwide: Implement a collective approach to freeway operations and management, including field devices that monitor travel conditions and disseminate information; response to freeway incidents; and	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	REG170003	17-10-0029	MTC	511 Carpool and Vanpool Programs	Regional: Operate Carpool and Vanpool Programs. Toll credits applied in lieu of match; non-federal funds are non-participating	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
Regional/Multi-County	REG170006	17-10-0015	MTC	Spare the Air Youth	Regional: Education and Outreach: Program designed to reduce greenhouse gas emissions and vehicle miles traveled through education and encouragement programs for youth and families.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Regional/Multi-County	REG170007	17-10-0013	MTC	MTC - Incident Management Program	Regionwide: Manage congestion by implementing strategies to enhance mobility and safety, and reduce the impacts of traffic incidents, including advanced transportation management technologies and	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	REG170008	17-01-0002	BART	BART Integrated Carpool to Transit Access Program	BART: Program to better integrate carpool access to public transit by matching carpools through an app. The app facilitates carpool matching, payment, and parking space reservation at the BART station.	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
Regional/Multi-County	REG170009	17-10-0005	BART	BART Train Seat Modification	BART: On up to 360 existing BART cars: Remove 7 seats to provide immediate relief for passengers in the peak period commute hours	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2030
Regional/Multi-County	SM-050041	17-10-0026	Caltrain	Caltrain: Signal/Communication Rehab. & Upgrades	Caltrain: Systemwide: Rehabilitate existing signal system and upgrade/replace communication equipment.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Regional/Multi-County	VAR130002	17-10-0027	MTC	GL: JARC FY12 Small UA & Rural	GL: JARC FY12 Small UA & Rural. Various JARC projects in small urbanized areas and nonurbanized areas. Project is consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	VAR130003	17-10-0027	MTC	GL: New Freedom FY12 Small UA & Rural	Regional: Various Cycle 7 (FY12) New Freedom projects in small urbanized and rural areas.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	VAR130005	17-10-0027	MTC	GL: New Freedom FY12 Large UA	GL: New Freedom FY2012 Large UA. Various Cycle 5 (FY12) New Freedom projects in large urbanized areas	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	VAR150001	17-10-0027	MTC	GL: FTA 5311 Rural Area FY16	GL: FTA Section 5311 Rural Area Program, Non-ITS portion. Projects include capital and operating assistance. Projects consistent with 40 CFR Part 93.126 Exempt Table 2	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Regional/Multi-County	VAR150002	17-10-0023	Caltrans	GL: Pavement Resurf and/or Rehab-Fed Discretionary	Regionwide: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Pavement resurfacing and/or rehabilitation	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040

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Regional/Multi-County	VAR150003	17-05-0001	Caltrans	GL: Bike and Ped Facilities - Fed Discretionary	Regionwide: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Bicycle and pedestrian facilities (both motorized and Non-motorized)	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Regional/Multi-County	VAR170001	17-06-0001	Caltrans	GL: Safety Improvements - SRTS	GL: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Shoulder imprvmts, increasing sight dist, traffic control devices, signals, Pavement marking, Lighting	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Regional/Multi-County	VAR170002	17-10-0025	Caltrans	GL: Highway Safety Improvement Program	GL: Safety Imprv - Highway Safety Improvement Program. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories.	EXEMPT (40 CFR 93.126) - Highway Safety Improvement Program implementation	2040
Regional/Multi-County	VAR170004	17-10-0025	Caltrans	GL: Pavement Resurfacing/Rehab SHS - Highway Maint	GL: Pavement Resurf/Rehab State Highway System - Highway Maintenance. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories - Pavement resurfacing and/or	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Regional/Multi-County	VAR170005	17-10-0013	Caltrans	GL: Safety Improvements - SHOPP Mobility Program	Regionwide: Various Locations: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	VAR170006	17-10-0025	Caltrans	GL: Pavement Resurf./Rehab - SHOPP Roadway Presv.	Regionwide: Various Locations: Projects consistent with 40CFR93.126 Exempt Tables 2 categories - Pavement resurfacing and/or rehabilitation, Emergency relief (23 U.S.C. 125), Widening narrow	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Regional/Multi-County	VAR170007	17-10-0025	Caltrans	GL: Safety Imprv. - SHOPP Collision Reduction	Regionwide: Various Locations: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories	EXEMPT (40 CFR 93.126) - Guardrails, median barriers, crash cushions	2040
Regional/Multi-County	VAR170008	17-10-0025	Caltrans	GL: Emergency Repair - SHOPP Emergency Response	Regionwide: Various Locations: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories	EXEMPT (40 CFR 93.126) - Emergency relief (23 U.S.C. 125)	2040
Regional/Multi-County	VAR170009	17-10-0025	Caltrans	GL: Safety Improvements - SHOPP Mandates	Regionwide: Various Locations: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Regional/Multi-County	VAR170010	17-10-0024	Caltrans	GL: Bridge Rehab and Reconstruction - SHOPP	Regionwide: Various Locations: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Widening narrow pavements or reconstructing bridges (no additional travel lanes).	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Regional/Multi-County	VAR170011	17-10-0025	Caltrans	GL: Shoulder Imprv - SHOPP Roadside Preservation	Regionwide: Various Locations: Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories - Fencing,Safety roadside rest areas	EXEMPT (40 CFR 93.126) - Plantings, landscaping, etc	2040
Regional/Multi-County	VAR170012	17-10-0024	Caltrans	GL: Bridge Rehab/Recon. - Local Hwy Bridge Program	GL: Local Bridge Rehab/Recon. - Local Highway Bridge Program(HBP) or Highway Bridge Replacement and Rehabilitation (HBRR). Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 categories.	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Regional/Multi-County	VAR170014	17-10-0033	MTC	Bay Bridge Forward - Integrated Bridge Corridor	Alameda County: Deploy ITS that integrate with SFOBB toll bridge metering lights system and Smart I-80 to improve traffic flow and information dissemination for users of the I-80, I-580, and I-880 bridge	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Regional/Multi-County	VAR170015	17-10-0025	Caltrans	GL: Pvmt Resurf/Rehab State Hwy Sys - SHOPP Minor	GL: Pavement Resurf/Rehab State Hwy System - SHOPP Minor. Projects are consistent with 40 CFR Part 93.126 Exempt Tables 2 and Table 3 categories	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Regional/Multi-County	VAR170016	17-09-0001	Caltrans	GL: Recreational Trails Program	Grouped Listing: Regionwide: Projects with US Recreational Grant Program Funds. Projects are consistent with 40 CFR Part 93.126, 127, 128, Exempt Tables 2 & 3	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Regional/Multi-County	VAR170017	17-10-0025	Caltrans	GL: Railroad-Highway Crossing	GL: Railroad/Highway Crossings. Projects are consistent with 40 CFR 93.126 Exempt Tables 2 categories - Railroad/highway crossing	EXEMPT (40 CFR 93.126) - Railroad/highway crossing	2040
San Francisco	SF-030013	17-10-0026	SFMTA	SFMTA: Wayside Fare Collection Equipment	Muni: Replacement of life-expired fare collection equipment.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
San Francisco	SF-050014	17-05-0010	BART	BART/MUNI Direct Connection Platform	BART/MUNI: Powell Street Station: Provide a direct connection between BART & MUNI.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040

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List of 2017 TIP Projects by County

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San Francisco	SF-050024	17-10-0026	SFMTA	SFMTA:Train Control & Trolley Signal Rehab/Replace	SFMTA: Rehabilitate or replace elements of the Wayside/Central Train Control & trolley Signal Systems.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
San Francisco	SF-050034	17-10-0026	SFMTA	Light Rail Vehicle Overhaul Program	Muni: Systematic overhaul of all light rail vehicles components in agency fleet.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
San Francisco	SF-070009	17-05-0002	Port of SF	Embarcadero Corridor Transportation Improvements	San Francisco: Embarcadero corridor (China Basin & Fisherman's Wharf); Improvements to transit services including signage, parking management strategies, bike/ped improvements & other outreach	EXEMPT (40 CFR 93.126) - Directional and informational signs	2040
San Francisco	SF-070027	17-05-0023	SF County TA	Yerba Buena Island (YBI) Ramp Improvements	San Francisco: On east side of the Yerba Buena Island Tunnel at SFOBB; Rehabilitate existing deficient bridges on the west side of the Island.	EXEMPT (40 CFR 93.127) - Interchange reconfiguration projects	2020
San Francisco	SF-070029	17-10-0017	TBJPA	Transbay Transit Center - TIFIA Loan Debt Service	San Francisco, Transbay Transit Center: TIFIA Loan debt service for Phase 1 & 2. Update annual debt service amounts based on TIFIA loan agreement.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Francisco	SF-070030	17-05-0012	SFMTA	SFGO-Corridor Management	Focused on the US 101 /Van Ness and Market Street corridors; Install new communications network and advanced traffic signal control systems with elements citywide.	EXEMPT (40 CFR 93.128) - Traffic signal synchronization projects	2040
San Francisco	SF-070045	17-10-0026	SFMTA	SFMTA: Trolley Coach Replacement	SFMTA: Replace 60, 1994 60' articulated Trolley Coaches with either Motor Coaches or Trolley Coaches.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-090011	17-05-0028	SF County TA	Oakdale Caltrain Station	San Francisco: Oakdale near Palou: Planning, preliminary engineering, and environmental work for a new Caltrain station and transit service adjustments to serve station.	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
San Francisco	SF-090031	17-10-0026	SFMTA	SF Muni - Preventive Maintenance	SF Muni - Preventive Maintenance	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-090035	17-10-0026	SFMTA	SFMTA: Paratransit Vehicle Replacements	SFMTA: Paratransit service across San Francisco; preserve service and replace 67 paratransit vehicles	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-110005	17-10-0022	SF DPW	Great Highway Restoration	San Francisco: Great Highway: From Sloat to Skyline Hwy: Ph 1. Restore and stabilize roadway, stop bluff slides, and protect infrastructure. Phase 2. Implement road diet by closing remaining SB lane and	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
San Francisco	SF-110010	17-10-0026	SFMTA	SFMTA Transportation Asset Management System	San Francisco: SFMTA wil implement an Enterprise Asset Management (EAM) system to inventory all of its major assets. By using an EAM system, SFMTA will be able to store data on age, condition, and	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Francisco	SF-110011	17-05-0002	SF County TA	Integrated Public-Private Partnership TDM Program	San Francisco: Implement pilot TDM strategies: (a) parking cash-out programs and TDM related approaches, and (b) Muni Partners shuttle coordination and expansion. Includes program evaluation.	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
San Francisco	SF-110037	17-05-0002	SFMTA	Linked Priced Electric Bikesharing	In San Francisco and select Bay Area cities: Apply ITS technology and differential pricing with the colocation of shared electric bicycles within City CarShare's existing systems	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-110044	17-05-0010	BART	Regional Real-Time Transit Information at BART	In downtown Oakland and downtown San Francisco: at six key intermodal BART stations: add additional real time transit information displays	EXEMPT (40 CFR 93.126) - Directional and informational signs	2040
San Francisco	SF-110050	17-10-0026	SFMTA	SFMTA: Replace 58 40' Neoplan Buses	SFMTA: Replace 58 40' Neoplan Buses originally in service in 2002 with 58 40' hybrid buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-110053	17-10-0026	WETA	WETA: Replace Ferry Vessels	WETA: Fund the replacement of all existing ferry vessels for WETA when the vessels reach the end of their useful life of 25 years.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-130003	17-05-0015	SFMTA	19th Ave. & Parkmerced M-Line Realignment Study	In San Francisco: Planning and conceptual design to extend light rail corridor into Parkmerced development project, add three new light rail stations and facilities. Add rail track and operator support	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040

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San Francisco	SF-130008	17-05-0020	SF County TA	HOV/HOT Lanes on U.S.101 and I-280 in SF	San Francisco: On US 101 from SF/SM County line to I-280 interchange and on I-280 from US 101 interchange to 6th Street offramp: Convert an existing mixed traffic lane and/or shoulder/excess ROW in	EXEMPT (40 CFR 93.126) - Planning and technical studies	2030
San Francisco	SF-130010	17-05-0030	SF County TA	Construct Treasure Island Bus Terminal Facility	San Francisco: Treasure Island: Construct Treasure Island Bus Terminal Facility	EXEMPT (40 CFR 93.127) - Bus terminals and transfer points	2030
San Francisco	SF-130014	17-05-0004	SF DPW	SF- Broadway Chinatown Complete Streets	In San Francisco: On Broadway between Columbus and the Broadway Tunnel; Design and construct a complete street project.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-130018	17-05-0003	SFDPH	SF SRTS Non-Infrastructure Program	In San Francisco: Countywide: Expansion of the existing San Francisco SRTS education and outreach program.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Francisco	SF-130020	17-10-0026	SFMTA	SFMTA: Purchase 60 foot expansion motor coaches	SFMTA: Purchase 35 60 foot expansion motor coaches	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-130022	17-05-0001	SFMTA	Twin Peaks Connectivity Planning	San Francisco: on Twin Peaks: Develop a conceptual design that will improve access for people who walk or bicycle on Twin Peaks.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Francisco	SF-150001	17-05-0003	SF DPW	John Yehall Chin Safe Routes to School	In San Francisco: 4 intersections near 350 Broadway Street: Construct curb extensions and a raised crosswalk. □	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-150002	17-05-0003	SFMTA	San Francisco Safer Streets Campaign	San Francisco: Citywide: Provide high-visibility enforcement and education to reduce injuries and fatalities, caused by vehicles speeding, to people who walk and bicycle, and increase the number of people	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-150003	17-05-0003	SFDPH	San Francisco Safe Routes to School (ATP)	San Francisco: Citywide: Implement effective policy, education, enforcement and outreach strategies to increase walking, biking, transit, and carpooling for ALL students in school years 2015-17.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Francisco	SF-150004	17-05-0001	SFMTA	SFMTA Station-Area Ped and Bicycle Access Imp.	San Francisco: Citywide within fixed guideway station area radii (per FTA eligibility): Improvements to pedestrian and bicycle access to the transportation stop/station.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-150005	17-10-0026	SFMTA	SFMTA - Replacement of 40' Motor Coaches	SFMTA: 40' Neoplan Buses: Replace 40' Neoplan Buses originally in service in 2002 with (85) 40'hybrid buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-150006	17-10-0026	SFMTA	SFMTA Replacement of 60' Motor Coaches	SFMTA: 60' Neoplan Buses: Replace 98 60' Neoplan Buses diesel buses originally in service in 2002 with 98 60' hybrid buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-150007	17-10-0026	SFMTA	SFMTA Farebox Replacement	SFMTA: Systemwide: Refurbish or purchase existing fareboxes and necessary support equipment to improve reliability, functionality, and the overall customer experience.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
San Francisco	SF-150009	17-05-0001	SFMTA	San Francisco Citywide Bicycle Wayfinding	San Francisco: Citywide: Implement an effective bicycle wayfinding signage system throughout San Francisco. This system will increase ridership by improving both the comfort of riding and the ability to	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-150011	17-05-0003	SFMTA	San Francisco Vision Zero Safety Investment	San Francisco: along the Van Ness Corridor: Implement pedestrian and safety improvements including pedestrian bulbouts, pedestrian scale lighting, pedestrian countdown signals, ADA curb ramps, and	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-150012	17-05-0002	SF County TA	San Francisco Travel Smart Rewards Pilot Program	In San Francisco: Undertake a pilot program to mitigate congestion on BART by incentivizing riders to shift travel times	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Francisco	SF-150013	17-05-0009	SF County TA	SB I-280 Off-Ramp at Ocean Ave Realignment	San Francisco: I-280/Ocean Avenue Interchange: Realign the southbound I-280 off-ramp to Ocean Avenue into a T intersection with a new signal on Ocean Avenue	EXEMPT (40 CFR 93.127) - Interchange reconfiguration projects	2040
San Francisco	SF-150014	17-10-0026	SFMTA	SFMTA 30' Motor Coach Mid-Life Overhaul	SFMTA: Approximately 86 hybrid coaches: Perform midlife overhauls	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
San Francisco	SF-150015	17-10-0026	SFMTA	SFMTA: Replacement of 40' Trolley Coaches	SFMTA: Replace approximately 21 40' ETI electric trolley buses originally in service in 2002 with 21 40' electric trolley buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040

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San Francisco	SF-150016	17-05-0003	SF DPW	Lombard Street Vision Zero Project	In San Francisco: On Lombard/US-101 between Broderick St and Franklin St; Install curb extensions and other pedestrian safety and transit features. Project is phased.	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
San Francisco	SF-150017	17-05-0003	SFDPH	SF Safe Routes to School 2017-2019	San Francisco: Citywide: Implement a pilot proposal that includes innovative educational, encouragement, and evaluation activities and deliverables to increase safe walking and biking by schoolchildren	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Francisco	SF-170002	17-10-0023	MTC	Regional Planning Activities and PPM - SF County	San Francisco: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
San Francisco	SF-170003	17-10-0033	MTC	Bay Bridge Forward-Sterling/Bryant St Managed Lane	Sterling/Bryant St. and Regionwide: Pilot Vehicle Occupancy Detection (VOD) technology and increased CHP enforcement at Sterling and other pilot sites, support planned HOV lanes to bridge; convert HOV	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
San Francisco	SF-170004	17-10-0026	SFMTA	SFMTA: Replacement of 40' Trolley Coaches	SFMTA: Purchase 40' replacement trolley coaches for the existing aging coaches.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-170005	17-10-0026	SFMTA	SFMTA: Replacement of 60' Trolley Coaches	SFMTA: Purchase 60' replacement trolley coaches for the existing aging coaches.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Francisco	SF-170006	17-05-0001	SFMTA	SFMTA: Station-area Ped and Bike Access Improvemnt	San Francisco: Citywide: Reconfigure station areas to provide pedestrians and bicyclists more space to improve access	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Francisco	SF-95037B	17-10-0026	SFMTA	SF Muni Rail Replacement Program	SFMTA: Systemwide - Phased design and replacement of trackway and related systems serving light rail and cable car lines.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
San Francisco	SF-970073	17-10-0026	SFMTA	SFMTA: Cable Car Vehicle Renovation Program	San Francisco: Rehabilitate up to four Cable Car vehicles in one year - two undergoing reconstruction, one in major overhaul, and one in minor overhaul.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
San Francisco	SF-970170	17-10-0026	SFMTA	SFMTA: Trolley Overhead Recon. Program	San Francisco: LRT: Phased design and replacement of the overhead wires and related traction power system serving light rail and trolley coach lines.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
San Francisco	SF-990003	17-10-0026	SFMTA	Global Positioning System	Muni: Global Positioning System, Central Control, and Radio system replacement project.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
San Francisco	SF-990022	17-05-0002	SFMTA	SFMTA: ADA Paratransit operating support	Muni: ADA Paratransit Operating Subsidy.; provides funding for increased van/taxi services to people with disabilities who are prevented from using Muni's fixed route services.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
San Francisco	SF-99T002	17-10-0026	SFMTA	Cable Car Traction Power & Guideway Rehab	SFMTA: Cable Car Traction Power and Guideway Rehab; Repair various guideway and infrastructure & make improvements to the cable car system.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
San Mateo	SF-010028	17-10-0008	Caltrain	Caltrain Electrification	Caltrain: From San Francisco to Gilroy: Electrification of the caltrain corridor from San Francisco to Tamien, including catenary poles, wires, power supply, track and signals, and Electric Multiple Units	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2030
San Mateo	SM-010002	17-06-0033	Half Moon Bay	SR 92 Shoulder Widening & Curve Correction	Half Moon Bay: Rte 92 btw eastern city limits and Pilarcitos Creek; Widen shoulders, straighten curves and improve vertical sight distances. No additional travel lanes.	EXEMPT (40 CFR 93.126) - Shoulder improvements	2030
San Mateo	SM-010047	17-06-0014	Menlo Park	US 101 / Willow Road Interchange Reconstruction	Menlo Park: US 101 at Willow Road Interchange; Reconstruct and reconfigure interchange (No additional travel lanes).	EXEMPT (40 CFR 93.127) - Changes in vertical and horizontal alignment	2020
San Mateo	SM-010054	17-10-0026	Caltrain	San Mateo Bridges Replacement	City of San Mateo: Caltrain Corridor - Reconstruct existing Poplar, Santa Inez, Monte Diablo and Tilton railroad grade separation structures, including replacing the bridge decks, project is phased	EXEMPT (40 CFR 93.126) - Railroad/highway crossing	2040
San Mateo	SM-030023	17-10-0026	SamTrans	SAMTRANS: Preventive Maintenance	SamTrans: Preventative maintenance program for agency fleet.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040

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San Mateo	SM-03006B	17-10-0026	Caltrain	Caltrain: Systemwide Track Rehab & Related Struct.	Caltrain: Systemwide: Rehabilitate and replace existing track, track structures and related civil infrastructure	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
San Mateo	SM-050005	17-10-0026	BART	BART: Preventive Maintenance	BART: Systemwide; Preventive Maintenance	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
San Mateo	SM-050040	17-10-0027	Caltrain	Caltrain: ADA Operating Set-aside	Caltrain: ADA Paratransit Operating assistance set-aside	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
San Mateo	SM-050051	17-06-0003	SamTrans	SR 82 - El Camino Real Grand Boulevard Initiative	El Camino Real Corridor: Ped. & transit facility enhancements, streetscape improvements including medians, wider sidewalks, bike routes & improved linkages to transit hubs & downtown.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-050053	17-06-0001	Millbrae	US 101 Millbrae Ave Bike/Ped Bridge	Millbrae: Across US 101 north of and adjacent to the existing Millbrae Avenue bridge; Construct a new 10-ft wide Class 1 mixed-use bike/ped overcrossing.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-070002	17-06-0006	CCAG	San Mateo Countywide ITS Improvements	San Mateo County: County-wide; ITS improvements at various locations in San Mateo County.	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
San Mateo	SM-070004	17-06-0003	East Palo Alto	Bay Rd Bicycle/Ped Improvements Phase II & III	E. Palo Alto: On Bay Rd btw Clarke/Illinois & Tara Rd (Ph II) & btw Tara Rd & Bay Trail (Ph. III);Improvements including resurface, streetscape, bike lanes, & other improvements.HPP #706 (remainder	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
San Mateo	SM-070006	17-06-0005	East Palo Alto	US 101 University Ave Interchange Improvements	E. Palo Alto: On University Ave across US 101 btw Woodland Ave and Donahoe St; Construct Bike Lane, modify NB and SB off-ramps and intersections with overcrossing with no new lanes for off-ramps. HPP	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-070029	17-06-0016	CCAG	Dumbarton Bridge to US101 Connection Study	East Palo Alto: Dumbarton Bridge at US 101; Study of various connections between the Dumbarton Bridge and Highway 101. SAFETEA Earmark HPP #3062 (\$400K)	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-070049	17-10-0026	SamTrans	Facility/Equipment Rehabilitation/Replacement	SAMTRANS: Operating/maintenance facility/equip rehabilitation/replacement, including the provision of facility improvements for admin, maintenance, and operations at the Central Administrative facility,	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
San Mateo	SM-110012	17-06-0003	San Bruno	San Bruno Transit Corridor Pedestrian Imps	San Bruno: El Camino Real from San Bruno Avenue to Sneath Lane, San Bruno Avenue from El Camino Real to Huntington Avenue and Huntington Avenue from San Bruno Avenue to Sneath Lane. Streetscape	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-110022	17-06-0002	CCAG	San Mateo County SR2S Program	San Mateo County: Countywide: Provide modularized safe routes to school programs and projects that focuses on education, encouragement, evaluation and enforcement components to all interested	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Mateo	SM-110047	17-06-0019	Caltrans	SR92/El Camino Real (SR82) Ramp Modifications	San Mateo: At the SR92/El Camino Real (SR82) interchange: Modify existing on/off rampsto improve the ingress and egress of the interchange.	EXEMPT (40 CFR 93.127) - Interchange reconfiguration projects	2020
San Mateo	SM-110054	17-10-0026	SamTrans	Reconfiguration of San Carlos Transit Center	San Carlos Transit Center: Reconfigure and rehabilitate the current transit center to facilitate improved safety and connections between SamTrans fixed-route bus service, Caltrain commuter rail, local	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
San Mateo	SM-110062	17-10-0026	SamTrans	Samtrans - Replace 62 1998 Gillig Buses	Samtrans: Replace 62-40' 1998 Gillig Buses, which have exceeded their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Mateo	SM-110064	17-06-0001	San Mateo	North Central Pedestrian Improvement Program	North Central San Mateo: Various locations south of Cypress Avenue: pedestrian infrastructure improvements including new curb ramps, crosswalks, curb extensions, lighting, and advanced stop bars	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-110065	17-06-0005	Redwood City	Middlefield Rd and Woodside Rd Intersection Improv	In Redwood City: At the intersection of Middlefield Rd and Woodside Rd; modify intersection to provide pedestrian facilities.	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040

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San Mateo	SM-110067	17-10-0021	CCAG	Local PDA Planning - San Mateo	San Mateo County Various Agencies: Planning assistance to local jurisdictions to support transportation investments and improve their performance in Priority Development Areas (PDAs), focused on	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-110068	17-10-0026	SamTrans	SAMTRANS: Replacement of Articulated Bus Fleet	SAMTRANS: 60' articulated buses: Replace up to 55 2002 60' NABI diesel articulated buses that have exceeded their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Mateo	SM-130002	17-10-0024	Redwood City	Redwood City Various Streets Overlay	Redwood City: On Whipple Ave from Upland Rd to El Camino Real, Whipple Ave from US101 to Veterans Blvd, and Veterans Blvd from US101 to Whipple Ave: Rehabilitate the roadway, add new striping, and	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
San Mateo	SM-130003	17-06-0001	SSF	SSF Citywide Sidewalk Gap Closure Project	South San Francisco: Various Streets: closes gaps in the existing pedestrian infrastructure	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130004	17-10-0024	San Mateo	Mount Diablo Ave. Rehabilitation	In the City of San Mateo: Monte Diablo Avenue from N Quebec St to N Kingston St.: Rehabilitation of local streets and roads and addition of ADA compliant curb ramps, bicycle improvements and pedestrian	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
San Mateo	SM-130008	17-06-0001	Menlo Park	Menlo Park-Variou Streets Bike /Ped Improvements	Menlo Park: Various locations: Implement bicycle and pedestrian safety improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130009	17-06-0003	Millbrae	Millbrae Various Streets and Roads Preservation	Millbrae: Various Locations: Rehabilitate and replace pavement and miscellaneous concrete improvements including installing wheel chair curb ramps.	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
San Mateo	SM-130011	17-06-0001	Daly City	John Daly Boulevard Bicycle /Ped Improvements	Daly City: On John Daly Blvd between Top of the Hill - Mission Street transit hub and the Daly City BART Station at DeLong Street and Los Banos Ave: Implement bike/ped improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130012	17-06-0003	San Carlos	San Carlos Streetscape and Ped Improvments	San Carlos: Around the intersection of El Camino Real and Arroyo Ave: Grand Boulevard Initiatives (GBI), implement bike/ped improvements and bus pad and add pedestrian activation to a mid-block signal	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130013	17-06-0003	SSF	SSF Grand Blvd Project: Chestnut to Arroyo	South San Francisco: El Camino Real between Chestnut Ave/Westborough Blvd to Arroyo Ave: Design and construct improved pedestrian crossings with corner bulbouts, median refuges, expanded bus stop	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130015	17-06-0001	San Mateo Co	Semicircular Rd Bicycle / Ped Access Improvements	San Mateo County: On Semicircular Road between Middlefield Road and 5th Avenue; Replace existing sidewalk with ADA compliant sidewalk and install sharrows and school crossing signs; four nearby	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130016	17-06-0003	Pacifica	Palmetto Avenue Streetscape	In Pacifica: Palmetto Avenue from Bella Vista Avenue to Clarendon Road: Pavement rehabilitation and pedestrian sidewalk improvements.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130017	17-06-0001	Belmont	Ralston Avenue Pedestrian Route Improvements	Belmont: Ralston Ave. between South Rd. and Chula Vista Ave. (near Notre Dame de Namur University): Install pedestrian improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130018	17-06-0001	Belmont	Old County Road Bicycle/Pedestrian Improvements	Belmont: Old County Road from Ralston Ave to the Belmont/San Carlos City Limits: Implement bike and pedestrian route improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130019	17-06-0001	San Bruno	San Bruno Ave Street Medians Improvements	San Bruno: San Bruno Ave from Elm Ave to I-280: Implement pedestrian improvement including curb ramps, speed radar display signs, demolish existing landscape and replace and replace existing spray	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130020	17-06-0001	San Mateo	San Mateo Citywide Crosswalk Improvements	City of San Mateo: Various locations citywide: Install new high visibility crosswalks or upgrade existing crosswalks	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130022	17-06-0003	Redwood City	Middlefield Road Bicycle / Ped Improvements	In Redwood City: on Middlefield Road between Main Street and MacArthur Avenue; Modify roadway and utilities as needed to widen sidewalks and improve bike and pedestrian amenities. No vehicle travel	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130023	17-06-0006	Menlo Park	Menlo Park - Willow Rd Traffic Signal Modification	In Menlo Park: On Willow Road between Middlefield Road and Hamilton Avenue, modification of 9 traffic signals.	EXEMPT (40 CFR 93.128) - Traffic signal synchronization projects	2040

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County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
San Mateo	SM-130025	17-10-0027	SamTrans	SamTrans Service Plan (SSP)	SamTrans: System-wide: Offset a reduction in price for the Day Pass by \$1.00 and install new signage for new and modified bus routes	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
San Mateo	SM-130026	17-10-0026	Caltrain	Caltrain Control Point Installation	Caltrain mainline: In San Carlos: Install a new control point (rail crossover)	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
San Mateo	SM-130027	17-10-0026	Caltrain	Caltrain Off-peak Marketing Campaign	Caltrain: Systemwide: Undertake a marketing campaign targeting off-peak ridership	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-130028	17-06-0001	East Palo Alto	US-101 Pedestrian/Bicycle Overcrossing	East Palo Alto: Between Clarke Avenue and Newell Road: Install a Pedestrian/Bicycle Overcrossing of US-101 to connect the west-side with the east-side of East Palo Alto for safe pedestrian/bicycle access.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130029	17-06-0002	BART	Daly City BART Station Intermodal Improvements	Daly City: At Daly City BART Station: Improve transit operations; pedestrian & bicycle access; and safety & patron experience	EXEMPT (40 CFR 93.127) - Bus terminals and transfer points	2040
San Mateo	SM-130030	17-06-0003	SSF	SSF Grand Blvd Project: Kaiser Way to McLellan	South San Francisco: Along El Camino Real between Kaiser Way and McLellan Drive: Implement bike and pedestrian enhancements, street trees, rain gardens and median landscaping as well as	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130031	17-06-0001	SF City/County	Southern Skyline Blvd. Ridge Trail Extension	San Mateo County: On the east side of SR-35 "Upper Skyline Blvd" between the intersection of Hwy 92 and Hwy 35 southward approximately 6 miles to the SFPUC Peninsula Watershed: Construct Southern	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-130032	17-06-0001	San Mateo Co	Midcoast Multi-Modal Trail	San Mateo County: On Highway 1 from Alto Avenue in Miramar to Coronado Street in El Granada: Construct 3,750 feet of multi-use trail	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-150001	17-10-0021	Millbrae	Millbrae Priority Development Area Specific Plan	Millbrae: PDAs Citywide: Update the current Millbrae Transit Station Area PDA and expand PDA to also include El Camino Real Corridor.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-150002	17-06-0002	San Mateo	City of San Mateo SR2S Program	City of San Mateo: Within a 0.1 to 0.5 mile radius around each of the 15 elementary and middle schools in the City: Develop and Implement a Safe Routes to School Program	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-150003	17-10-0021	Redwood City	Redwood City Dwntrn Transit Area Impvmts-Streetcar	In Redwood City: Downtown: Planning study of Sequoia Station and streetcar feasibility	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-150004	17-10-0021	Belmont	Belmont Village Specific/Implementation Plan	Belmont: Belmont Village PDA: Development of an Implementation Plan	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-150005	17-10-0026	SamTrans	SAMTRANS: Replacement of 2003 Gillig Buses	SAMTRANS: 40' Gillig buses: Replacement of 60 2003 40' Gillig Buses that have reached the end of their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Mateo	SM-150006	17-10-0015	San Mateo	City of San Mateo Car Sharing Program	City of San Mateo: Citywide: Expansion of car sharing services in the City of San Mateo	EXEMPT (40 CFR 93.126) - Continuation of ride-sharing and van-pooling promotion activities at current levels	2040
San Mateo	SM-150007	17-10-0026	Caltrain	Map Based Real-Time Train Display for Caltrain.com	Caltrain: Provide map based real-time displays for customers on caltrain.com, and provide open-data for third-party developers.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
San Mateo	SM-150008	17-10-0026	SamTrans	SamTrans - Replacement of Non-Rev Vehicles	SamTrans: Non-revenue vehicles: Replace (15) non-revenue service support vehicles	EXEMPT (40 CFR 93.126) - Purchase of support vehicles	2040
San Mateo	SM-150009	17-06-0001	San Carlos	US 101 Holly Pedestrian/Bicycle Overcrossing	San Carlos: At the US-101/Holly St Interchange: Construct a grade-separated multipurpose path that will connect pedestrian and bicyclist on the west side of Highway 101 to the east side of Highway 101	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-150010	17-10-0026	SamTrans	SamTrans - Replacement of Cutaway Buses	SamTrans: Readi-Wheels Paratransit service: Purchase replacement cutaway buses	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
San Mateo	SM-150011	17-10-0026	SamTrans	SamTrans - Purchase of Replacement Minivans	SamTrans: Purchase ten new replacement minivans used for ADA Paratransit service	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040

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San Mateo	SM-150012	17-06-0001	Daly City	Daly City Central Corridor Bike/Ped Safety Imprmnt	In Daly City: On Junipero Serra Blvd and Eastmoor Ave/San Pedro Rd/E Market St/Guad Cyn Pkwy: Install bike and ped improvements; In Daly City/Uninc San Mateo County: On west side of Mission St/EI	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-150013	17-06-0002	San Mateo Co	RWC 2020 Sustainable Transportation Encouragement	San Mateo County: In and around Redwood City: Safe Routes to School walk and bike audits, encouragement and education programs and community-wide transportation mode share change evaluation.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Mateo	SM-150014	17-06-0002	San Mateo County	Safe Routes to School for Health and Wellness	San Mateo County: Countywide: Implement a non-infrastructure educational program to increase the number of children who bike and walk to school with a focus on long term sustainability. Other State	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
San Mateo	SM-150015	17-06-0001	SSF	SSF Linden/Spruce Ave Traffic Calming Improvements	In South San Francisco: On Linden Avenue from California Ave to Miller Avenue and on Spruce Ave from Maple Ave to Lux Ave: install pedestrian/bicycling safety improvements including a class 3 bikeway.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-150016	17-10-0015	San Mateo	San Mateo Downtown Parking Tech Implementation	In San Mateo: Various Locations Downtown: Replace existing parking meters, and pay stations and install parking availability signs at City facilities.	EXEMPT (40 CFR 93.126) - Directional and informational signs	2040
San Mateo	SM-170001	17-06-0005	San Mateo Co	Hwy 1 Congestion throughput and safety improvement	In San Mateo County along 7 miles of Highway 1 between Pacifica in the north and Half Moon Bay in the south; Install raised medians, left turn lanes, acceleration lanes, and pedestrian crossings.	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
San Mateo	SM-170002	17-10-0023	MTC	Regional Planning Activities and PPM - San Mateo	San Mateo: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
San Mateo	SM-170005	17-10-0026	Caltrain	South San Francisco Caltrain Station Improvements	South San Francisco: SSF Caltrain Station: Demolish and reconstruct the existing station with a new ADA compliant station that meets current Caltrain standards	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
San Mateo	SM-170006	17-06-0001	San Mateo	East Hillsdale Boulevard Ped/Bike Overcrossing	City of San Mateo: Over US 101 at the US 101/Hillsdale Boulevard Interchange: Construct pedestrian and bicycle overcrossing	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
San Mateo	SM-170008	17-06-0029	SamTrans	El Camino Real Traffic Signal Priority Project	San Mateo County: On El Camino Real (State Route 82) from the Palo Alto Caltrain Station to the Daly City BART Station: Install Traffic Signal Priority system	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
San Mateo	SM-990026	17-10-0027	SamTrans	SAMTRANS: ADA Paratransit Operating Subsidy	SamTrans: ADA Paratransit Operating Subsidy.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Santa Clara	SCL010019	17-10-0025	VTA	I-880 Coleman Avenue I/C Reconfiguration	In San Jose: I-880@Coleman; Reconst. Coleman Ave. bridge & realign, reconst. all ramps accessing I-880; add new direct connector ramp to SB I-880 from Airport & Newhall plus landscaping (Garvee	EXEMPT (40 CFR 93.127) - Changes in vertical and horizontal alignment	2040
Santa Clara	SCL050001	17-10-0026	VTA	VTA: Standard & Small Bus Replacement	VTA: Standard and Small Bus Replacement	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Santa Clara	SCL050002	17-10-0026	VTA	VTA: Rail Replacement Program	VTA: Throughout the Light Rail system: Replace rails (no rail expansion).	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Santa Clara	SCL050046	17-10-0027	VTA	VTA: ADA Operating Set Aside	VTA: ADA operating assistance set aside.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Santa Clara	SCL050049	17-10-0026	VTA	VTA: Rail Substation Rehab/Replacement	VTA: Guadalupe Light Rail Corridor; Rehabilitate electrical elements (such as disconnect switches, DC breakers, etc.) of traction power substations.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Santa Clara	SCL050082	17-07-0001	San Jose	Bay Trail Reach 9 & 9B	In San Jose: Near Gold Street to the existing San Tomas Aquino Creek Trail; Design and construct 1.2 miles of commuter/transportation trail, pedestrian bridge, and underpasses with safety and	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040

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Santa Clara	SCL050083	17-07-0001	San Jose	Coyote Creek Trail (Hwy 237-Story Rd)	In San Jose: from Highway 237 to Story Road; Master plan entire system, design and construction of the trail.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL090002	17-10-0025	Santa Clara Co	San Tomas Expressway Box Culvert Rehabilitation	In Santa Clara: Design, environmental clearance, and construction for rehabilitating the box culvert under San Tomas Expressway.	EXEMPT (40 CFR 93.126) - Widening narrow pavements or reconstructing bridges (no additional travel lanes)	2040
Santa Clara	SCL090004	17-07-0001	San Jose	Almaden Ave & Vine St Safety Improvements	San Jose: Almaden Ave and Vine St: Construct pedestrian safety improvements.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL090031	17-07-0001	VTA	Santa Clara Caltrain Station Bike/Ped Tunnel	In Santa Clara: extend a grade-separated pedestrian tunnel at the Santa Clara Caltrain station.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL090041	17-10-0026	VTA	VTA: Photovoltaic Solar Panel Alternative Energy	VTA: On the Berryessa BART Station: parking structure: Install photovoltaic solar panels	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Santa Clara	SCL090044	17-10-0026	VTA	VTA: TP OCS Rehab & Replacement	VTA: Rehabilitate and replace overhead catenary system (OCS) and associated components	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Santa Clara	SCL110029	17-07-0001	San Jose	San Jose: Los Gatos Creek Reach 5 Underpass	In San Jose: Los Gatos Creek Trail between Auzerais Ave and Montgomery/Bird Ave. Construct Los Gatos Creek Trail (Reach 5b/c).	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL110032	17-07-0001	Gilroy	Gilroy New Ronan Channel and Lions Creek Trails	In City of Gilroy: On Ronan channel levee from Sixth St to Leavesley Rd and Lions Creek levee from Kern to Tapestry Dr. build bicycle pedestrian trails.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL110099	17-10-0026	VTA	VTA: Light Rail Bridge and Structure - SG Repair	VTA: Various Locations: Light rail bridge and structure defect investigation and repair. Stabilization measures to address Hamilton structure settlement.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Santa Clara	SCL110100	17-10-0026	VTA	VTA: Kinkisharyo LRV Overhaul Program	VTA: Scheduled overhaul of Kinkisharyo Light Rail Vehicles.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Santa Clara	SCL110104	17-10-0026	VTA	VTA: Light Rail Track Crossovers and Switches	VTA: In the light rail system: Add light rail crossovers and switches to priority areas where crossovers are not currently available to enhance operational flexibility.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Santa Clara	SCL110107	17-10-0022	San Jose	San Jose: Road Rehab and Ped. Facilities	In San Jose, On various streets, Rehabilitate roadway and construct pedestrian facilities.	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Santa Clara	SCL110108	17-10-0024	Santa Clara Co	Isabel Bridge Replacement (37C0089)	In Santa Clara County: Isabel Bridge (Bridge No. 37C0089) on San Antonio Valley Road, 8.3 miles east of Kincaid Rd: Replace existing one lane bridge with a two-lane bridge	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Santa Clara	SCL110121	17-07-0001	Santa Clara Co	East San Jose Pedestrian Improvements	East San Jose: Various Roads: Fill in sidewalk gaps and provide ADA enhancements within existing rights-of-way	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL110125	17-10-0021	VTA	Local PDA Planning - Santa Clara	Santa Clara County Various Agencies: Planning assistance pass through to local jurisdictions to support transportation investments and improve their performance in Priority Development Areas (PDAs).	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Santa Clara	SCL130004	17-07-0003	San Jose	San Jose - Meridian Bike/Ped Improvements	San Jose: Meridian between Auzerais and Douglas: Install new bicycle lanes and sidewalks; Meridian and Auzerais: Modify signal; Douglas and Meridian: Install new traffic signal; Both intersections: Install	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130006	17-07-0001	San Jose	San Jose Citywide SRTS Program	San Jose: Near various schools: Implement bike/ped improvements such as traffic control and guide signs, enhanced crosswalks and other improvements that encourage bicycling and walking to school.	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Santa Clara	SCL130007	17-07-0001	San Jose	Jackson Ave Bicycle and Pedestrian Improvements	In San Jose: Jackson Ave between McKee Rd and Alum Rock Ave: Construct pedestrian safety and transit access enhancements including two new traffic signals and the modification of one existing signal.	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Santa Clara	SCL130010	17-07-0001	San Jose	San Jose Pedestrian Oriented Traffic Signals	In San Jose: At various key intersections: implement traffic signal controlled crossings. This project is phased.	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Santa Clara	SCL130011	17-07-0001	San Jose	St. Johns Bikeway and Pedestrian Improvements	In San Jose: On St. John St from N. Montgomery St to N. First St and along N. Almaden Blvd between W. Julian St and Carlisle St: Improve bicycle and pedestrian facilities including gap filling and signal	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040

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Santa Clara	SCL130016	17-07-0001	San Jose	East San Jose Bikeways	East San Jose: Various locations: make improvements to the bikeway network including the installation of new bikeways, traffic calming features, public bike racks, bike-friendly signal detection and	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130022	17-07-0001	Santa Clara Co	San Tomas Aquino Spur Multi-Use Trail Phase 2	In Santa Clara: From El Camino Real/SR 82 to Homestead Road: Construct San Tomas Aquino Spur Trail Phase 2	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130026	17-07-0003	Saratoga	Prospect Rd Complete Streets	Saratoga: Prospect Road between Saratoga/Sunnyvale Rd and Lawrence Expressway and on Saratoga Ave between Highway 85 to the City Limits to the north (Lawrence Expressway): Reduce roads width to	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130027	17-07-0001	Saratoga	Saratoga Village Sidewalk Rehabilitation	In Saratoga: Along Big Basin Way between 6th street and Hwy 9: Rehabilitate sidewalk.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130028	17-07-0003	Sunnyvale	Sunnyvale/Saratoga Traffic Signal, Bike/Ped Safety	In Sunnyvale: On Sunnyvale-Saratoga Road at Mathilda: Upgrade the existing traffic signal and install new ramps, bike detection and ped signals.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130029	17-07-0003	Sunnyvale	Fair Oaks Avenue Bikeway and Street Enhancements	In Sunnyvale: Various Locations on Fair Oaks Avenue: Construct bike lanes and complete sidewalk enhancements and rehabilitation to improve pedestrian safety.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130030	17-07-0003	Sunnyvale	Maude Avenue Bikeway and Streetscape	Sunnyvale: On Maude Avenue between Mathilda Avenue and Fair Oaks Avenue: Install medians, modify roadway geometry and stripe bike lanes.	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Santa Clara	SCL130031	17-07-0001	Sunnyvale	Sunnyvale East and West Channel Multi-Use Trails	In Sunnyvale: Various locations on the Sunnyvale East Channel: construct multi-use paved trails.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130032	17-07-0001	Sunnyvale	Sunnyvale SRTS Ped Infrastructure Improvements	In Sunnyvale: At 17 school sites: Install pedestrian enhancements for school route intersections	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130034	17-07-0001	Palo Alto	Arastradero Road Schoolscape/Multiuse Trail	In Palo Alto: Along the south side of Arastradero Road between the Hetch Hetchy Los Altos Pathway and Miranda Avenue: Reconstruct the sidewalk to a multi-use trail to support Safe Routes to School	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130037	17-07-0078	Santa Clara Co	Capitol Expressway ITS and Bike/Ped Improvements	In San Jose: Capitol Expressway: Upgrade traffic signals and ITS infrastructure and install pedestrian sensors and bike detection at all intersections to allow traffic responsive and adaptive signal timing and	EXEMPT (40 CFR 93.126) - Traffic control devices and operating assistance other than signalization	2040
Santa Clara	SCL130040	17-07-0001	VTA	Montague Expy Ped Bridge at Milpitas BART	In Milpitas: At Milpitas BART Station: Over Montague Expressway: Construct a pedestrian bridge	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130041	17-07-0001	Palo Alto	Adobe Creek/ Highway 101 Bicycle Pedestrian Bridge	Palo Alto: Where US 101 crosses Adobe Creek: Construct Bike/Ped Bridge. Project is phased	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Santa Clara	SCL130043	17-10-0022	Morgan Hill	Monterey Road Preservation	In Morgan Hill: On Monterey Road between East Dunne Avenue and East Middle Avenue; resurface roadway.	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Santa Clara	SCL130044	17-10-0025	VTA	I-880 Stevens Creek Landscaping	In San Jose, at the I-880/Stevens Creek interchange provide landscaping.	EXEMPT (40 CFR 93.126) - Plantings, landscaping, etc	2040
Santa Clara	SCL150001	17-07-0064	VTA	I-680 Soundwalls - Capitol Expwy to Mueller Ave	San Jose: on I-680 corridor between Capitol Expressway and Mueller Avenue: Construct soundwalls	EXEMPT (40 CFR 93.126) - Noise attenuation	2040
Santa Clara	SCL150005	17-10-0026	VTA	VTA Train to Wayside Communication System Upgrade	VTA: Communications: Upgrade the existing DOS based train-to-wayside communications (TWC) system to a Windows based system while keeping the original system's operational functionality.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Santa Clara	SCL150006	17-10-0026	VTA	VTA: Back-up Power for Elevated Stations	VTA: Various elevated stations: Replace the generators and automatic power bypass switch for elevated stations on the Guadalupe Light Rail line.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Santa Clara	SCL150008	17-10-0026	VTA	VTA Track Intrusion Abatement	VTA: Various locations along trackway: Installation of fencing, barriers, signage, flashing signs, and pavement markings.	EXEMPT (40 CFR 93.126) - Rehabilitation or reconstruction of track structures, track, and trackbed in existing rights-of-way	2040
Santa Clara	SCL150011	17-07-0008	VTA	VTA: N 1st Street LR Speed Improvements	VTA: North First Street: Implement light rail service and reliability improvements including fencing and signal timing	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040

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Santa Clara	SCL150014	17-07-0025	VTA	I-280/Winchester Study	In San Jose: I-280/Winchester Interchange: Conduct planning activities to identify and evaluate improvements in the vicinity of the I-280/Winchester Boulevard interchange.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2030
Santa Clara	SCL150015	17-07-0001	Santa Clara Co	Gilroy Moves!	Santa Clara County: Gilroy: Non-infrastructure education and encouragement services to promote walking and biking in Gilroy.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Santa Clara	SCL150017	17-07-0003	Mountain View	Mountain View El Camino Real Streetscape Study	In Mountain View: On El Camino Real within the City Limits; Develop detailed designs for sidewalks, crosswalks, lighting, landscaping, bicycle facilities and bus stops. Project will not lead directly to	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Santa Clara	SCL150020	17-10-0021	San Jose	North 1st Street Urban Village Plan	In the City of San Jose: North 1st Street Urban Village area: Create a land use plan, Implementation guidelines and policies.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Santa Clara	SCL150021	17-10-0021	San Jose	Berryessa BART Urban Village Plan	In San Jose: Around the Berryessa BART Station: Create new plans that will facilitate higher density uses and incentivize a mix of uses around the BART Station currently under construction.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Santa Clara	SCL170001	17-10-0023	MTC	Regional Planning Activities and PPM - Santa Clara	Santa Clara: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Santa Clara	SCL170002	17-10-0032	VTA	VTA BART Phase II TOD and Station Access Planning	In Santa Clara County: In the vicinity of planned BART stations: Perform study of TOD and Station Access Planning.	EXEMPT (40 CFR 93.126) - Planning and technical studies	2040
Santa Clara	SCL170003	17-10-0015	Palo Alto	Palo Alto: Bay Area Fair Value CommutingMoDSandbox	In Palo Alto: Reduce Bay Area SOV commute share by using Fair Share Commuting (FVC), consisting of: Enterprise Commute Trip Reduction (ECTR) software; Mobility Aggregation (MobAg); parking feebate;	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Santa Clara	SCL170004	17-10-0026	VTA	VTA: LR Vehicle CCTV Door Monitoring System	VTA: Light Rail Vehicles: Replace existing door monitoring CCTV system	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Santa Clara	SCL170005	17-10-0026	VTA	VTA: Paratransit Vehicle Procurement	VTA: Procure vehicles and associated equipment for paratransit services.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Santa Clara	SCL170006	17-10-0026	VTA	VTA: Replace Fault Monitoring System on LRVs	VTA: On Light Rail Vehicle Fleet: Upgrade Fault Monitoring System (FMS) Network that is no longer supported by the original equipment manufacturer (OEM)	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Santa Clara	SCL170007	17-10-0026	VTA	VTA: Pedestrian Swing Gates Replacement	VTA: At various pedestrian crossing locations along the light rail system: Replace spring-hinge pedestrian swing gates	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Santa Clara	SCL170008	17-07-0064	VTA	VTA: Vasona Pedestrian Back Gates	VTA: At several Vasona Light Rail Corridor crossings: Install pedestrian gates. Scope includes installation of automatic pedestrian gates, swing gates and railings, minor civil improvements and related signal	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Santa Clara	SCL170009	17-10-0026	VTA	VTA: Chaboya Yard Well Removal	VTA: At the Chaboya Bus Operating Division: Obtain case closure and demolish the ground water remediation system and wells	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Santa Clara	SCL170010	17-10-0026	VTA	VTA: Guadalupe Train Wash Replacement	VTA: Guadalupe Light Rail Division: Replace train wash.	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Santa Clara	SCL170011	17-10-0026	VTA	VTA: Upgrade Rail Grade Crossing Control Equipment	VTA: Various Locations: Replace existing rail grade crossing equipment; such as controllers, relays, and surge panels; that have become obsolete.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Santa Clara	SCL170012	17-10-0026	VTA	Santa Clara Pocket Track Light Rail Interlocking	In Santa Clara: At pocket light rail track near Levi's Stadium: Implement interlocking improvements	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Santa Clara	SCL990046	17-10-0026	VTA	VTA: Preventive Maintenance	VTA: Preventive Maintenance of agency's fleet.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040

\*Projects with conformity analysis year 2040 reference programmatic projects or projects with a completion date after 2030 in *Plan Bay Area 2040*

List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Solano	SOL010006	17-10-0027	Fairfield	City of Fairfield Operating Assistance	Fairfield: Transit operating assistance	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Solano	SOL010007	17-10-0027	Vacaville	Vacaville Transit: Operating Assistance	Vacaville Transit: Operating Assistance	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Solano	SOL070012	17-08-0005	Solano County	Cordelia Hills Sky Valley	Cordelia Hill: Transportation enhancements including upgrade of pedestrian and bicycle corridors including open space acquisition along Cordelia Hill Sky Valley and McGary Road. Project is predominantly	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL070032	17-10-0026	SolTrans	SolTrans: Preventive Maintenance	SolTrans: Preventive maintenance of vehicles and equipment necessary for the maintenance of federally funded assets.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Solano	SOL090033	17-10-0026	SolTrans	SolTrans: Bus Maintenance Facility Renovation	SolTrans: Bus Maintenance Facility Renovation, Construction of Compressed Natural Gas Facility and Upgrading electrical infrastructure for future electric bus charging	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040
Solano	SOL090034	17-10-0026	SolTrans	SolTrans: Bus Replacement (Alternative Fuel)	SolTrans: Replace eight 45' MCI commuter coaches as they reach their useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Solano	SOL110019	17-08-0004	STA	Solano Safe Routes to School Program	In Solano County, Countywide: Implement Countywide Solano Safe Routes to School Program, including Planning, Education, and Encouragement events and materials.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Solano	SOL110025	17-10-0027	SolTrans	SolTrans: ADA Paratransit Operating Subsidy	SolTrans: ADA Paratransit Operating Subsidy	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Solano	SOL110035	17-08-0002	Vallejo	Vallejo Downtown Streetscape	Vallejo: Various streets in the downtown area. Pedestrian enhancements including traffic calming, restriping, parking, signs, brick pavers, street furniture and art. Project is phased	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL110040	17-10-0027	SolTrans	SolTrans: Operating Assistance	Solano County Transit: Operating Assistance	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Solano	SOL110041	17-10-0026	Fairfield	Fairfield-Suisun Intercity/Local Bus Replacement	Fairfield: Systemwide: Replace local/intercity buses that have exceeded their expected useful life.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Solano	SOL130005	17-08-0005	Vacaville	Allison Bicycle / Ped Improvements	Vacaville: On Allison Drive from Nut Tree Parkway to Ulatis Creek: Install bike/ped infrastructure improvements, landscaping and a marquee sign	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL130007	17-08-0001	Solano County	Suisun Valley Bicycle and Pedestrian Imps	Solano County: At Mankas Corner: Construct staging area with bicycle and pedestrian improvements; At Various Locations in Solano County: Add a Class II bike lane to enhance bike access to areas	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL130012	17-08-0004	Dixon	Dixon SR2S Infrastructure Improvements	Dixon: Various locations along safe routes to schools: Implement pedestrian and bicycle improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL130014	17-08-0004	Rio Vista	SR 12 crossing with updated lighting	In Rio Vista: At SR12 crossing: Install new updated lighted crosswalk	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL130015	17-08-0004	Vallejo	Vallejo SRTS Infrastructure Improvements	In Vallejo: In the vicinity of Wardlaw Elementary School: Implement safety improvements including striping and signage improvements	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Solano	SOL130017	17-10-0027	Vacaville	Transit Marketing and Public Outreach	Vacaville: Citywide: Marketing and public outreach of City Coach transit benefits	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Solano	SOL130019	17-10-0026	SolTrans	Bus Replacement (Commuter)	SolTrans: Replace 45' diesel commuter buses which have reached the end of their useful service life with 45' compressed natural gas buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Solano	SOL130020	17-08-0001	Suisun City	Driftwood Drive Path	Suisun City: Along S. Driftwood Dr from Marina Blvd to Josiah Cir, along E. Josiah Cir between Driftwood Dr and Whispering Bay Ln, and along E. Whispering Bay Ln from Josiah Cir to approx 200 ft south of	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL150001	17-08-0003	STA	Ingraining Walking & Rolling into School Culture	Solano County: Countywide: Implement a two pronged approach to ingrain a culture of walking & rolling within 15 selected schools. The project is a collaboration between STA and Solano County Dept. of	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040

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List of 2017 TIP Projects by County

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Solano	SOL150002	17-08-0004	Vallejo	SR2T - Curtola Bike Path	Vallejo: On Curtola Pkwy between Lemon Street and Solano Avenue: Improve bike path	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL150003	17-08-0005	STA	SR12/Church Rd Intersection Improvements	Rio Vista: At SR12/Church Rd. Intersection: Add Standard Shoulders, EB Left Turn Lane, WB Acceleration Lane (720 ft) and Deceleration Lane (300 ft), Remove Trees in Clear Recovery Zone	EXEMPT (40 CFR 93.127) - Intersection channelization projects	2040
Solano	SOL150004	17-08-0004	STA	STA SR2S Infrastructure & Non-infrastructure	Solano County: At 7 schools: Implement pedestrian infrastructure improvements; At 26 schools throughout the Cities of Benicia, Rio Vista & Vallejo: Providing education outreach	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Solano	SOL170001	17-10-0023	MTC	Regional Planning Activities and PPM - Solano	Solano: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Solano	SOL170002	17-10-0026	SolTrans	SolTrans: Data Management Technology Enhancements	SolTrans: Procure data management systems and software	EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities	2040
Solano	SOL170003	17-10-0026	SolTrans	Soltrans: Facilities and Amenities Improvements	Soltrans: Systemwide: Facility and passenger amenities improvements	EXEMPT (40 CFR 93.126) - Construction of small passenger shelters and information kiosks	2040
Sonoma	SON030005	17-10-0026	Son Co Transit	Sonoma Co Transit: Preventive Maintenance Program	Sonoma County Transit: Preventive maintenance program for agency fleet.	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Sonoma	SON030012	17-10-0026	SantaRosa Bus	Santa Rosa City Bus: Transit Enhancements	Santa Rosa: Various Locations: Upgrade and improve transit facilities including amenities, accessibility, ADA compliance, pedestrian and bicycle access	EXEMPT (40 CFR 93.126) - Construction of small passenger shelters and information kiosks	2040
Sonoma	SON050021	17-10-0026	Son Co Transit	Sonoma County Transit: Bus Stop Improvement	Sonoma County Transit: Throughout the service area: Acquire and install new bus stop shelters plus other improvements to bus stops	EXEMPT (40 CFR 93.126) - Construction of small passenger shelters and information kiosks	2040
Sonoma	SON070008	17-09-0001	Son Co Reg Park	Bodega Bay Trail Segments 1B and 1C	Bodega Bay: Segments 1B and 1C parallel to Highway 1 from Salmon Creek Village to the southwest boundary; Construct bicycle and Pedestrian Trail (TLC Project).	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Sonoma	SON070020	17-10-0026	SantaRosa Bus	Santa Rosa City Bus Replacement Bus Purchase	Santa Rosa CityBus: Purchase 5 Hybrid Electric Replacement Buses and 4 clean diesel buses to replace aging fixed route buses to replace fixed route buses	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Sonoma	SON070026	17-10-0024	Sonoma County	Rehab King Ridge Bridge over Austin Crk 20C0433	In Sonoma County: On King Ridge Road, 2.3mi North of Fort Ross Road; rehabilitate one-lane bridge to 2 lanes and scour countermeasure	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON090001	17-10-0024	Sonoma County	Replace Geysers Bridge over Sulpher Crk 20C0005	In Sonoma County: Bridge replacement: single lane bridges in Sonoma County with two lane bridge ( Geysers Road Bridge 20C0005)	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON090023	17-10-0027	SantaRosa Bus	Santa Rosa CityBus: Operating Assistance	Santa Rosa CityBus: Operating Assistance to Transit Agency	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Sonoma	SON090024	17-10-0026	SantaRosa Bus	Santa Rosa CityBus: Preventative Maintenance	Santa Rosa CityBus: Preventative Maintenance program for agency fleet	EXEMPT (40 CFR 93.126) - Rehabilitation of transit vehicles	2040
Sonoma	SON090025	17-10-0024	Sonoma County	Replace Chalk Hill Bridge over Maacama Crk 20C0242	In Sonoma County - Replace existing bridge no. 20C0242, on Chalk Hill Rd, Over Maacama Creek, 1 Mi S of HWY (spandrel arch bridge with approach spans with new bridge)	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON090026	17-10-0024	Sonoma County	Replace Lambert Bridge over Dry Creek 20C0248	HBP: In Sonoma: Replace existing through truss bridge (Bridge No. 20C0248, Lambert Bridge Road, Over Dry Creek,0.4 Mi W of Dry Creek Rd.), that is in poor condition and has seismic deficiencies with	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON090027	17-10-0024	Sonoma County	Replace West Dry Creek Bridge over Pena Ck 20C0407	In Sonoma: Replace existing four span T-beam concrete bridge (Bridge No. 20C0407, West Dry Creek Rd, Over Pena Creek, 0.7 Mi NW Yoakim Br Rd.) that is one-lane, seismically deficient and in poor	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON090030	17-10-0026	Petaluma	Petaluma Transit: AVL System	Petaluma Transit: Purchase and install Automatic Vehicle Location (AVL) System on all vehicles in Petaluma Transit fixed route fleet.	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Sonoma	SON110024	17-10-0024	Sonoma County	Replace Bohan Dillon Bridge over Gualala 20C0435	In Sonoma: Bridge No.20C0435, Bohan Dillon Road over South Fork Gualala River, 0.1 Mi N Fort Ross Road. Replace existing one-lane bridge with a new two-lane bridge	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040

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List of 2017 TIP Projects by County

County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Sonoma	SON110025	17-10-0024	Sonoma County	Replace Hauser Bridge over Gualala River 20C0240	In Sonoma: Bridge No.20C0240,Hauser Road Bridge over over South Fork Gualala River, 5 Mi east of Seaview Road. Replace existing one-lane bridge with a new two-lane bridge	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON110026	17-10-0024	Sonoma County	Replace Freestone Flat Bridge over Salmon 20C0440	In Sonoma: Bridge No.20C0440,Freestone Flat Road Bridge over Salmon Creek, 0.2 Mi E. Bohemian Way. Replace existing one-lane bridge with a new two-lane bridge	EXEMPT (40 CFR 93.126) - Projects that correct, improve, or eliminate a hazardous location or feature	2040
Sonoma	SON110049	17-10-0026	Son Co Transit	Sonoma County Transit: Replacement Bus Purchase	Sonoma County Transit: Replace five 40' Orion V CNG transit coaches with five 40' CNG Low-Floor transit coaches.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON110050	17-09-0001	Son Co Reg Park	Central Sonoma Valley Trail	In the unincorporated area of Sonoma County, construct 0.42 miles of a Class I bike trail. 1)Larson Park to Flowery Elementary School and 2) along Verano Avenue from Sonoma Creek to Main Street.	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Sonoma	SON110052	17-10-0026	Petaluma	Petaluma: Replace 2 Paratransit Cutaways FY14	In Petaluma: Replace two (2) paratransit vans for Petaluma Paratransit	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON110054	17-09-0001	Healdsburg	Healdsburg Pedestrian Safety and Access Improvmnts	In Healdsburg: At entrance to high school on Powell Ave: Implement enhanced safety pedestrian crossing. On Prince St and Sun Ct from Powell to Piper: Improve pedestrian access to high school, middle	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Sonoma	SON130002	17-10-0022	Petaluma	Petaluma Complete Streets	In Petaluma: On Lakeville St from E. Washington St to Caulfield Ln and on East D St from the D St Bridge to Lakeville St: Rehabilitate the roadway, including striping for Class 2 Bike Lanes and adding ADA	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Sonoma	SON130003	17-09-0001	Windsor	Jaguar Way/Windsor Road Bicycle /Ped Improvements	In Windsor: Around the intersection of Jaguar Way and Windsor Road, the entrance to Windsor High School: Install a traffic signal and construct approximately 300 feet of Class II bicycle lanes and sidewalk.	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Sonoma	SON130006	17-09-0001	Santa Rosa	Downtown Santa Rosa Streetscape	Santa Rosa: Third St between Morgan and B St: Implement pedestrian improvements to channelize pedestrians to use the north side of Thrid Street at Morgan Street and at B Street; On Santa Rosa Avenue	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Sonoma	SON130007	17-09-0001	Rohnert Park	Rohnert Park Streetscape and Pedestrian Imps	Rohnert Park: At Various locations in the Central Rohnert Park PDA: Install pedestrian and bike facility improvements	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Sonoma	SON130008	17-10-0022	Cotati	Cotati - Old Redwood Highway S. Preservation	In Cotati: On Old Redwood Highway, between East Cotati and Myrtle Avenue; rehabilitate roadway and add pedestrian features.	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Sonoma	SON130009	17-10-0022	Rohnert Park	Rohnert Park Various Streets Preservation	In Rohnert Park: On Rohnert Park Expressway from State Farm Drive to Snyder Lane: Rehabilitation of roadway including digouts and overlay. Existing lane configuration and existing Class 2 bike lanes will	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Sonoma	SON130010	17-10-0022	Sonoma County	Sonoma County Various Streets & Roads Preservation	Sonoma County: Various locations: Rehabilitate pavement	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040
Sonoma	SON130012	17-09-0005	Windsor	Conde Ln/Johnson St Pedestrian Improvements	In Town of Windsor: At the intersection of Conde Lane and Johnson Street: Realign intersection to eliminate stop signs on Conde Lane. Johnson Street becomes right in and right out only. Add RRFB	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Sonoma	SON130013	17-09-0001	Windsor	Bell Rd/Market St/Windsor River Rd Ped Improvement	In Windsor: At the intersection of Bell Road-Market Street and Windsor River Road: Install a traffic signal and install pedestrian and bicycle signal equipment.	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Sonoma	SON130014	17-10-0015	Sonoma County	Sonoma County - Safe Routes to School Program	Sonoma County: Countywide: Comprehensive safe routes to school program to shift mode away from single family vehicular trips to bicycle/pedestrian/carpooling.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Sonoma	SON130015	17-10-0022	Sonoma County	Bodega Highway Pavement Rehabilitation	Bodega Hwy, beginning at the intersection of Sexton Lane and ending at the Sebastopol City Limits. The Project length is approximately 2 miles. The scope of work will includes pavement rehabilitation,	EXEMPT (40 CFR 93.126) - Pavement resurfacing and/or rehabilitation	2040

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List of 2017 TIP Projects by County

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Sonoma	SON130016	17-09-0001	Cloverdale	Cloverdale - Safe Routes to School Phase 2	Cloverdale: Various Locations: Construct sidewalks and add Class II bike lanes	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Sonoma	SON130020	17-09-0005	Petaluma	Petaluma Transit: Transit Signal Priority System	In Petaluma: Various intersections: Upgrade existing traffic signals to replace existing or install new Transit Signal Priority hardware on intersections within the City of Petaluma. Project is phased.	EXEMPT (40 CFR 93.126) - Construction or renovation of power, signal, and communications systems	2040
Sonoma	SON150001	17-10-0021	Sonoma County	PDA Planning - Springs Area Plan	Sonoma Valley Springs Area: Planning to revitalize the area into a pedestrian and transit oriented mixed use corridor.	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Sonoma	SON150002	17-10-0021	Sonoma County	PDA Planning - Airport Station/Specific Plan Amend	Sonoma County: Near the proposed Sonoma Marin Area Rail Transit Airport station: Develop a new station area plan and update of the 1984 Airport Industrial Area Specific Plan in order to transform the	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Sonoma	SON150003	17-09-0001	Santa Rosa	Jennings Ave Bike & Ped RR Crossing Corridor	In Santa Rosa: At Jennings Ave and SMART railroad tracks: Construct a bicycle and pedestrian crossing and develop a Safe Routes to School service program focusing on education and awareness for the	EXEMPT (40 CFR 93.126) - Bicycle and pedestrian facilities	2040
Sonoma	SON150004	17-10-0026	Petaluma	Petaluma Transit: Purchase (1) Fixed Route Bus	Petaluma Transit: 40' hybrid bus: Purchase (1) new 40' Diesel Electric Hybrid Low Floor Standard Transit Bus for Petaluma Transit, replaces (1) 2003 Chevy C5500 29' medium duty bus that expended its	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON150005	17-10-0026	Petaluma	Petaluma Transit: (3) Digital Two-Way Radios	Petaluma Transit: Radios: Purchase (3) Digital Two-Way Radios for (3) new Fixed Route Buses for Petaluma Transit (goes with bus replacement project in FY 15 and FY 16).	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Sonoma	SON150007	17-10-0027	Petaluma	Petaluma Transit: ADA Set-Aside	Petaluma Transit: Annual ADA Set-Aside	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Sonoma	SON150008	17-10-0026	SantaRosa Bus	SantaRosa Bus: Bus Replacement Purchase	SantaRosa Bus: 40' Fixed Route Vehicle: Replace an aging 40' fixed route diesel bus for operation purposes.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON150009	17-09-0005	Son Co TA	Highway 116/121 Intersection Improvement Project	In Sonoma County: At the intersection of State Routes 116 and 121, and Bonneau Road: Improve intersection	EXEMPT (40 CFR 93.127) - Intersection signalization projects at individual intersections	2040
Sonoma	SON150011	17-10-0015	Sonoma County	Sonoma SRTS High School Pilot	In Sonoma County: Countywide: Safe routes to school high school pilot program to shift mode away from single family vehicular trips to bicycle/pedestrian/carpooling/bussing.	EXEMPT (40 CFR 93.126) - Grants for training and research programs	2040
Sonoma	SON150012	17-10-0026	Son Co Transit	Sonoma County Transit: Replacement CNG Buses	Sonoma County Transit: Replace two 40-foot compressed natural gas (CNG)-fueled buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON150013	17-10-0026	Son Co Transit	Sonoma County Transit: Replace 2006 CNG Buses	Sonoma County Transit: Replace five 40-foot CNG-fueled buses.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON150014	17-10-0026	Petaluma	Petaluma Transit: Purchase (2) Fixed Route Buses	Petaluma Transit: (2) 35' hybrid buses: Purchase (2) new 35' Diesel Electric Hybrid Low Floor Standard Transit Bus for Petaluma Transit, replaces (2) 2003 Chevy C5500 29' medium duty buses that have	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON150015	17-10-0028	Petaluma	PetalumaTransit:Clipper Equip for FixedRoute Buses	Petaluma Transit: On 3 new Fixed Route buses: Install Clipper fare equipment	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Sonoma	SON150016	17-10-0026	Petaluma	PetalumaTransit:Comm Equip for 3 Fixed Route Buses	Petaluma Transit: On three (3) new Fixed Route Buses: Purchase and Install Automated Vehicle Locaton (AVL) and Transit Signal Priority Equipment	EXEMPT (40 CFR 93.126) - Purchase of operating equipment for vehicles (e.g., radios, fareboxes, lifts, etc.)	2040
Sonoma	SON150017	17-10-0026	SantaRosa Bus	SRCityBus Non-Revenue Vehicle and Capital Equipmnt	Santa Rosa City Bus: At Transit Mall: Implement transit enhancements and purchase a replacement non-revenue vehicle	EXEMPT (40 CFR 93.126) - Purchase of support vehicles	2040
Sonoma	SON150018	17-10-0026	SantaRosa Bus	SR City Bus: Garage Hoist for Bus Repairs	Santa Rosa City Bus: Purchase a garage hoist for repairs of the buses	EXEMPT (40 CFR 93.126) - Purchase of office, shop, and operating equipment for existing facilities	2040
Sonoma	SON150019	17-10-0027	SantaRosa Bus	Implementation of Reimagining CityBus	Santa Rosa CityBus: Systemwide: Operating Assistance for implementing Reimagining CityBus	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040

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List of 2017 TIP Projects by County

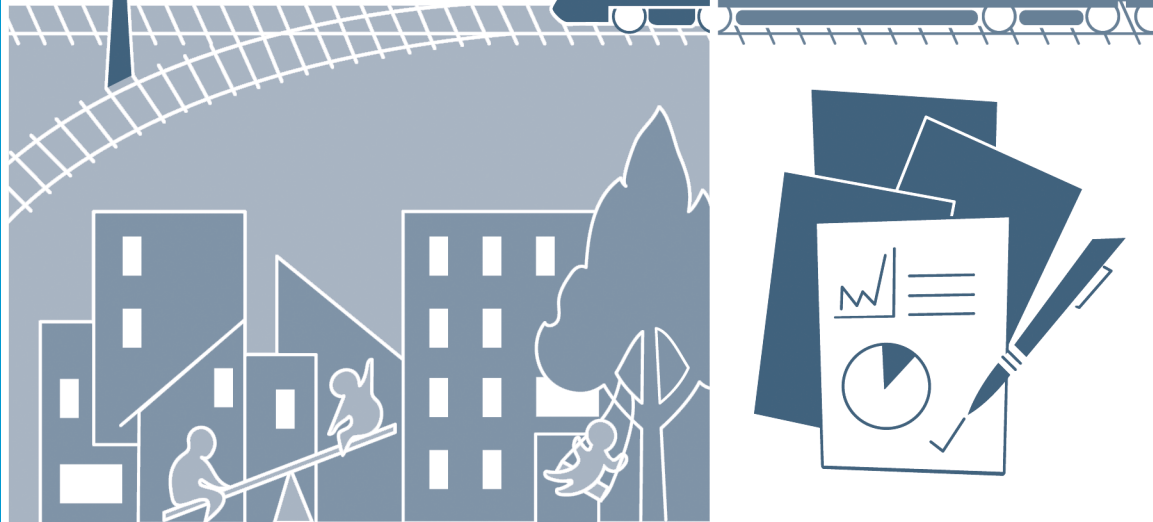
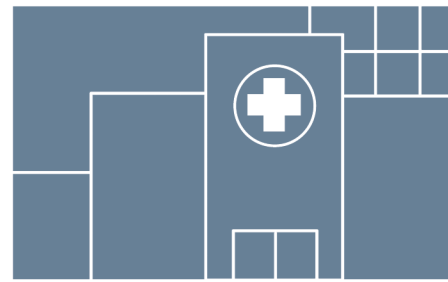
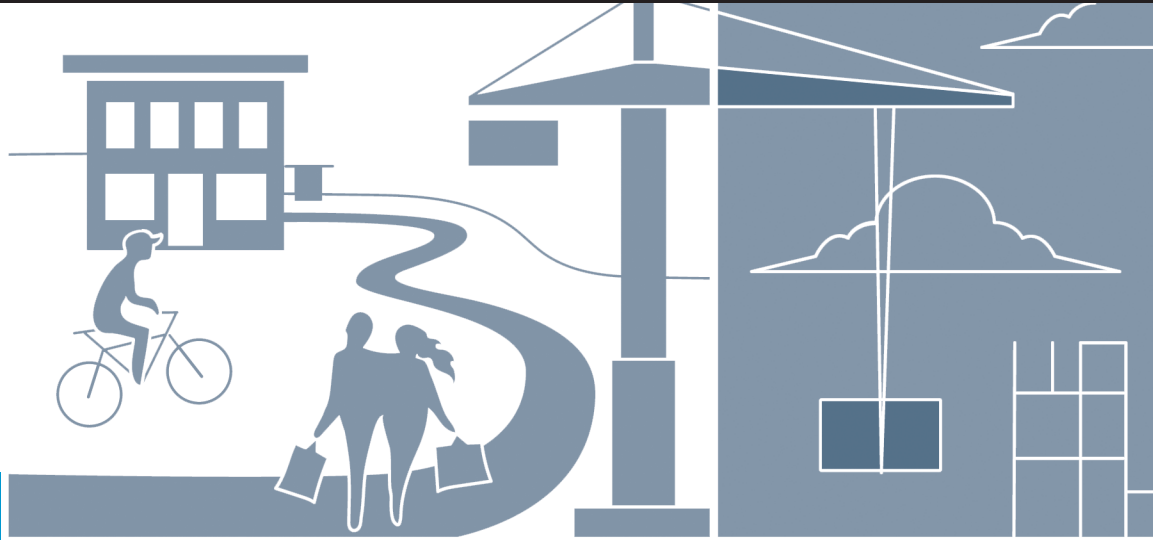
County	TIP ID	RTP ID	Sponsor	Project Title	Project Description	Air Quality Description	Conformity Analysis Year
Sonoma	SON170001	17-09-0003	Windsor	Windsor River Road/Windsor Road/NWPRR Intersection	In Windsor: Windsor River Road/Windsor Road/SMART intersection: Rail crossing safety improvements, multi-use path, pedestrian and vehicle traffic improvements.	EXEMPT (40 CFR 93.126) - Railroad/highway crossing	2040
Sonoma	SON170002	17-10-0023	MTC	Regional Planning Activities and PPM - Sonoma	Sonoma County: Regional Planning Activities and Planning, Programming and Monitoring (PPM)	EXEMPT (40 CFR 93.126) - Planning activities conducted pursuant to titles 23 and 49 U.S.C	2040
Sonoma	SON170003	17-10-0027	SantaRosa Bus	Santa Rosa CityBus-paratransit operations	Santa Rosa CityBus: Provide operating assistance to Santa Rosa Paratransit.	EXEMPT (40 CFR 93.126) - Operating assistance to transit agencies	2040
Sonoma	SON170004	17-10-0026	Petaluma	Petaluma: Replace 1 Paratransit Cutaway FY17	Petaluma: Replace one (1) paratransit cutaway. Replace 2007 22' Gas Starcraft with 2017 Accessible Minivan.	EXEMPT (40 CFR 93.126) - Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet	2040
Sonoma	SON170005	17-10-0026	Petaluma	Petaluma: Transit Yard & Facilities Improvements	Petaluma: Transit Yard and Facility: Improvements to enhance security and maintain a state of good repair, including pavement repair and upgrades, video surveillance system, office security, yard lighting,	EXEMPT (40 CFR 93.126) - Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)	2040

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**Appendix C**  
**Travel Modeling Report**



## TRAVEL MODELING REPORT



# Plan Bay Area 2040

DRAFT  
SUPPLEMENTAL  
REPORT



METROPOLITAN  
TRANSPORTATION  
COMMISSION



Association  
of Bay Area  
Governments

MARCH 2017

## Metropolitan Transportation Commission

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# Plan Bay Area 2040: Draft Travel Modeling Report

March 2017



METROPOLITAN  
TRANSPORTATION  
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## Executive Summary

This supplementary report presents selected technical results from the analysis of alternatives performed in support of the Metropolitan Transportation Commission's (MTC's) and the Association of Bay Area Government's (ABAG's) Plan Bay Area 2040 environmental impact report (EIR). A brief overview of the technical methods used in the analysis, as well as a brief description of the key assumptions made for each alternative, precede the presentation of results.

## Chapter 1: Analytical Tools

MTC uses an analytical tool known as a travel model (also known as a travel demand model or travel forecasting model) to first describe the reaction of travelers to transportation projects and policies and then to quantify the impact of cumulative individual decisions on the Bay Area's transportation networks and environment. MTC's travel model is briefly described below, along with two supporting tools: a population synthesizer and a vehicle emissions model.

### Population Synthesizer

MTC's travel model is an agent-based simulation. The "agents" in our case are individual households, further described by the people who form each household. In this way, the travel model attempts to simulate the behavior of the individuals and the households who carry out their daily activities in a setting described by the input land development patterns and input transportation projects and policies. In order to use this type of simulation, each agent must be characterized in a fair amount of detail.

Software programs that create lists of households and persons for travel model simulations are known as population synthesizers. MTC's population synthesizer attempts to locate households described in the 2000 Decennial Census Public Micro-sample (PUMS) data (i.e., those who responded to the old "long forms" used by the Census Bureau to collect detailed household information) in such a way that when looking at the population along specific dimensions spatially (at a level of detail below which the PUMS data is reported), the aggregate sums more or less match those predicted by other Census summary tables (when synthesizing historical populations) or the land use projections made by our land use modeling tools/procedures (when forecasting populations). For example, if our land use tools project that 60 households containing 100 workers and 45 children will live in spatial unit X in the year 2035, the population synthesizer will locate 60 PUMS households in spatial unit X and will select households in such a way that, when summing across households, the number of workers is close to 100 and the number of children is close to 45.

MTC's population synthesizer "controls" (i.e., minimizes the discrepancy between the synthetic population results and the historical Census results or the land use forecasts) along the following dimensions:

1. Household "type", i.e. individual household unit or non-institutionalized group quarters (e.g., college dorm);
2. Household income category;
3. Age of the head of household;
4. Number of people in the household;
5. Number of children under age 17 in the household;
6. Number of employees in the household; and,
7. Number of units in the household's physical dwelling (one or more than one, as in an apartment building).

### Travel Model

Travel models are frequently updated. As such, a bit of detail as to which version of a given travel model is used for a given analysis is useful. The current analysis uses MTC's *Travel Model One* (version 0.6),

released in July 2016, calibrated to year 2000 conditions and validated against year 2000, 2005, 2010 and 2015 conditions<sup>1</sup>.

*Travel Model One* is of the so-called “activity-based” archetype. The model is a partial agent-based simulation in which the agents are the households and people who reside in the Bay Area. The simulation is partial because it does not include the simulation of individual behavior of passenger, commercial, and transit vehicles on roadways and transit facilities (though the model system does simulate the behavior of aggregations of vehicles and transit riders). In regional planning work, the travel model is used to simulate a typical weekday – when school is in session, the weather is pleasant, and no major accidents or incidents disrupt the transportation system.

The model system operates on a synthetic population that includes households and people representing each actual household and person in the nine-county Bay Area – in both historical and prospective years. Travelers move through a space segmented into “travel analysis zones”<sup>2</sup> and, in so doing, use the transportation system. The model system simulates a series of travel-related choices for each household and for each person within each household. These choices<sup>3</sup> are as follows (organized sequentially):

1. Usual workplace and school location – Each worker, student, and working student in the synthetic population selects a travel analysis zone in which to work or attend school (or, for working students, one zone to work and another in which to attend school).
2. Household automobile ownership – Each household, given its location and socio-demographics, as well as each member’s work and/or school locations (i.e., given the preceding simulation results), decides how many vehicles to own.
3. Daily activity pattern – Each household chooses the daily activity pattern of each household member, the choices being (a) go to work or school, (b) leave the house, but not for work or school, or (c) stay at home.
4. Work/school tour<sup>4</sup> frequency and scheduling – Each worker, student, and working student decides how many round-trips they will make to work and/or school and then schedules a time to leave for, as well as return home from, work and/or school.
5. Joint non-mandatory<sup>5</sup> tour frequency, party size, participation, destination, and scheduling – Each household selects the number and type (e.g., to eat, to visit friends) of “joint” (defined as two or more members of the same household traveling together for the duration of the tour) non-mandatory (for purposes other than work or school) round trips in which to engage, then

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<sup>1</sup> Additional information is available here: <http://analytics.mtc.ca.gov/foswiki/Main/Development>.

<sup>2</sup> An interactive map of these geographies is available here: <http://analytics.mtc.ca.gov/foswiki/Main/TravelModelOneGeographies>.

<sup>3</sup> These “choices”, which often are not really choices at all (the term is part of travel model jargon), are simulated in a random utility framework – background information is available here: [https://en.wikipedia.org/wiki/Choice\\_modelling](https://en.wikipedia.org/wiki/Choice_modelling).

<sup>4</sup> A “tour” is defined as a round trip from and back to either home or the workplace.

<sup>5</sup> Travel modeling practice use the term “mandatory” to describe work and school travel and “non-mandatory” to refer to other types of travel (e.g., to the grocery store); we use this jargon as well to communicate efficiently with others in our space. We neither assume nor believe that all non-work/school-related travel is non-mandatory or optional.

determines which members of the household will participate, where, and at what time the tour (i.e., the time leaving and the time returning home) will occur.

6. Non-mandatory tour frequency, destination, and scheduling – Each person determines the number and type of non-mandatory (e.g., to eat, to shop) round trips to engage in during the model day, where to engage in these tours, and at what time to leave and return home.
7. Tour travel mode – The tour-level travel mode choice (e.g., drive alone, walk, take transit) decision is simulated separately for each tour and represents the best mode of travel for the round trip.
8. Stop frequency and location – Each traveler or group of travelers (for joint travel) decide whether to make a stop on an outbound (from home) or inbound (to home) leg of a travel tour, and if a stop is to be made, where the stop is made, all given the round trip tour mode choice decision.
9. Trip travel model – A trip is a portion of a tour, either from the tour origin to the tour destination, the tour origin to a stop, a stop to another stop, or a stop to a tour destination. A separate mode choice decision is simulated for each trip; this decision is made with awareness of the prior tour mode choice decision.
10. Assignment – Vehicle trips for each synthetic traveler are aggregated into time-of-day-specific matrices (i.e., tables of trips segmented by origin and destination) that are assigned via the standard static user equilibrium procedures to the highway network. Transit trips are assigned to time-of-day-specific transit networks.

The *Travel Model One* system inherits without significant modification the representation of interregional and commercial vehicle travel from MTC's previous travel model system (commonly referred to as BAYCAST or BAYCAST-90). Specifically, commercial vehicle demand is represented using methods developed for Caltrans and Alameda County as part of the Interstate 880 Intermodal Corridor Study conducted in 1982 and the Quick Response Freight Manual developed by the United States Department of Transportation in 1996. When combined, these methods estimate four classes of commercial travel, specifically: "very small" trucks, which are two-axle/four-tire vehicles; "small" trucks, which are two-axle/six-tire vehicles; "medium" trucks, which are three-axle vehicles; and, "combination" trucks, which are truck/trailer combinations with four or more axles.

Reconciling travel demand with available transportation supply is particularly difficult near the boundaries of planning regions because little is assumed to be known (in deference to efficiency – the model must have boundaries) about the land development patterns – the primary driver of demand – or supply details beyond these boundaries. The typical approach to representing this interregional travel is to first estimate the demand at each location where a major transportation facility intersects the boundary and to then distribute this demand to locations either within the planning region (which results in so-called "internal/external" travel) or to other boundary locations ("external/external" travel). MTC uses this typical approach and informs the process with Census journey-to-work flows (from the 2000 Decennial Census, specifically), which are allocated via simple method to represent flows to and from MTC's travel analysis zones and 21 boundary locations, as well as the flows between boundary locations.

The travel of air passengers to and from the Bay Area's airports is represented with static (across alternatives), year-specific vehicle trip tables. These trip tables are based on air passenger survey data

collected in 2006 and planning information developed as part of MTC's Regional Airport Planning Study<sup>6</sup>. Similarly, the travel of high speed rail passengers to and from the Bay Area's expected high speed rail stations is represented with static (across alternatives), year-specific vehicle trip tables. The high speed rail demand estimates are derived from the California High Speed Rail Authority's 2016 Business Plan<sup>7</sup>.

## Vehicle Emissions Model

The MTC travel model generates spatially- and temporally-specific estimates of vehicle usage and speed for a typical weekday. This information is then input into an emissions model to estimate emitted criteria pollutants as well as emitted carbon dioxide (used as a proxy for all greenhouse gases). For the current analysis, MTC used the EMFAC 2014 version of the California Air Resources Board emissions factor software<sup>8</sup>.

## Chapter 2: Input Assumptions

In total, 12 scenarios were simulated. Selected results are presented and discussed in the remainder of the document. Four *categories* of scenarios are included, as follows: historical, no action, planned action, and alternative actions. Historical scenarios are labeled by their year and include Year 2005 and Year 2015. The no action alternative is referred to as "No Project"; No Project simulations were performed for a 2040 forecast year. The planned action is referred to as the "Proposed Plan" (often abbreviated as "Plan") alternative; Proposed Plan Simulations were performed for 2020, 2030, 2035, and 2040. Three separate alternative scenarios are included, and are labeled "Main Streets", "Big Cities", and "Environment, Equity, and Jobs" ("EEJ"). Year 2040 simulations were conducted for each of these alternatives. The various simulation years serve different purposes: historical years demonstrate the model's ability to adequately replicate reality<sup>9</sup> and provide the reader data for a familiar scenario; the California Air Resources Board established greenhouse gas targets for 2020 and 2035; the transportation plan, as guided by federal regulations, extends to 2040; and, air quality regulations require a 2030 simulation.

The above scenarios differ across four dimensions, namely: land use, roadway supply, transit supply, and prices. By land use, we mean the locations of households and jobs (of different types). Roadway supply is the physical network upon which automobiles, trucks, transit vehicles, bicycles, and pedestrians travel. Transit supply refers to the facilities upon which public transit vehicles travel (the roadway, along rail lines, ferry routes, and other dedicated infrastructure), as well as the stop locations, routes, and frequency of transit service. Prices include the monetary fees users are charged to board transit vehicles, cross bridges, operate and park private vehicles, and use express (also known as high occupancy toll) lanes.

In the remainder of this chapter, each of the six scenarios (the rows in Table 1) are discussed, organized by the above four dimensions; additional notes on "other assumptions" concludes the section. This organization should allow the reader to compare the input assumptions across scenarios.

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<sup>6</sup> Additional information is available here: <http://mtc.ca.gov/our-work/plans-projects/economic-vitality/regional-airport-plan>.

<sup>7</sup> Additional information is available here: [http://hsr.ca.gov/docs/about/business\\_plans/2016\\_BusinessPlan.pdf](http://hsr.ca.gov/docs/about/business_plans/2016_BusinessPlan.pdf).

<sup>8</sup> Additional information is available here: <http://www.arb.ca.gov/msei/msei.htm>.

<sup>9</sup> Details of this "validation" process are available here: <http://analytics.mtc.ca.gov/foswiki/Main/Development>.

Table 1: Simulations by Year and Alternative

Alternative	Simulation Year					
	2005	2015	2020	2030	2035	2040
Historical	✓	✓				
No Project			✓		✓	✓
Proposed Plan			✓	✓	✓	✓
Main Streets			✓		✓	✓
Big Cities			✓		✓	✓
Environment, Equity, and Jobs			✓		✓	✓

## Land Use

Additional information regarding the land development patterns is available in the companion supplementary report, *Summary of Predicted Land Use Responses*. Here, we provide a handful of details regarding the transformation of these land use inputs into the information needed by the travel model.

Prior to executing the travel model, the land development inputs provided by ABAG (control totals) and the UrbanSim model (distribution details) are run through the MTC population synthesizer as described above. The journey from control totals through UrbanSim and through the population synthesizer introduces very minor inconsistencies between the ABAG-estimated regional control totals, which are carried through UrbanSim, and the totals implied by the synthetic population. These inconsistencies are presented in Table 2.

Table 2: Demographic Statistics of Control and Simulated Populations

Alternative	Year	Households				Population		
		ABAG Results Households	Group Quarters	Synthetic Population	Percent Difference <sup>†</sup>	ABAG Results	Synthetic Population	Percent Difference
Historical	2015	2,760,000	133,000	2,875,000	-0.6%	7,571,000	7,571,000	0.0%
No Project	2040	3,427,000	176,000	3,579,000	-0.7%	9,628,000	9,567,000	-0.6%
Proposed Plan	2040	3,427,000	176,000	3,579,000	-0.7%	9,628,000	9,561,000	-0.7%
Main Streets	2040	3,427,000	176,000	3,579,000	-0.7%	9,628,000	9,563,000	-0.7%
Big Cities	2040	3,427,000	176,000	3,579,000	-0.7%	9,628,000	9,554,000	-0.8%
EEJ	2040	3,427,000	176,000	3,579,000	-0.7%	9,628,000	9,559,000	-0.7%

† – Individuals living in group quarters are considered individual households in the synthetic population and, subsequently, the travel model.



A key function of the population synthesizer is to identify each member of the representative population with one of eight “person type” labels. Each person in the synthetic population is identified as a full-time worker, part-time worker, college student, non-working adult, retired person, driving-age student, non-driving-age student, or child too young for school. The travel model relies on these person type classifications, along with myriad other variables, to predict behavior.

Figure 1 shows the distribution of person types for the historical scenarios and the Proposed Plan alternative, from years 2005 to 2040. Interesting aspects of these distributions, which are driven by assumptions embedded in ABAG’s regional forecast, are as follows:

- The share of full-time workers peaks in 2015;
- The share of retired workers steadily increases from 2005 to 2040; and,
- The person type shares are effectively identical.

Figure 2 shows the distribution of person types across the five forecast year alternatives for year 2040.

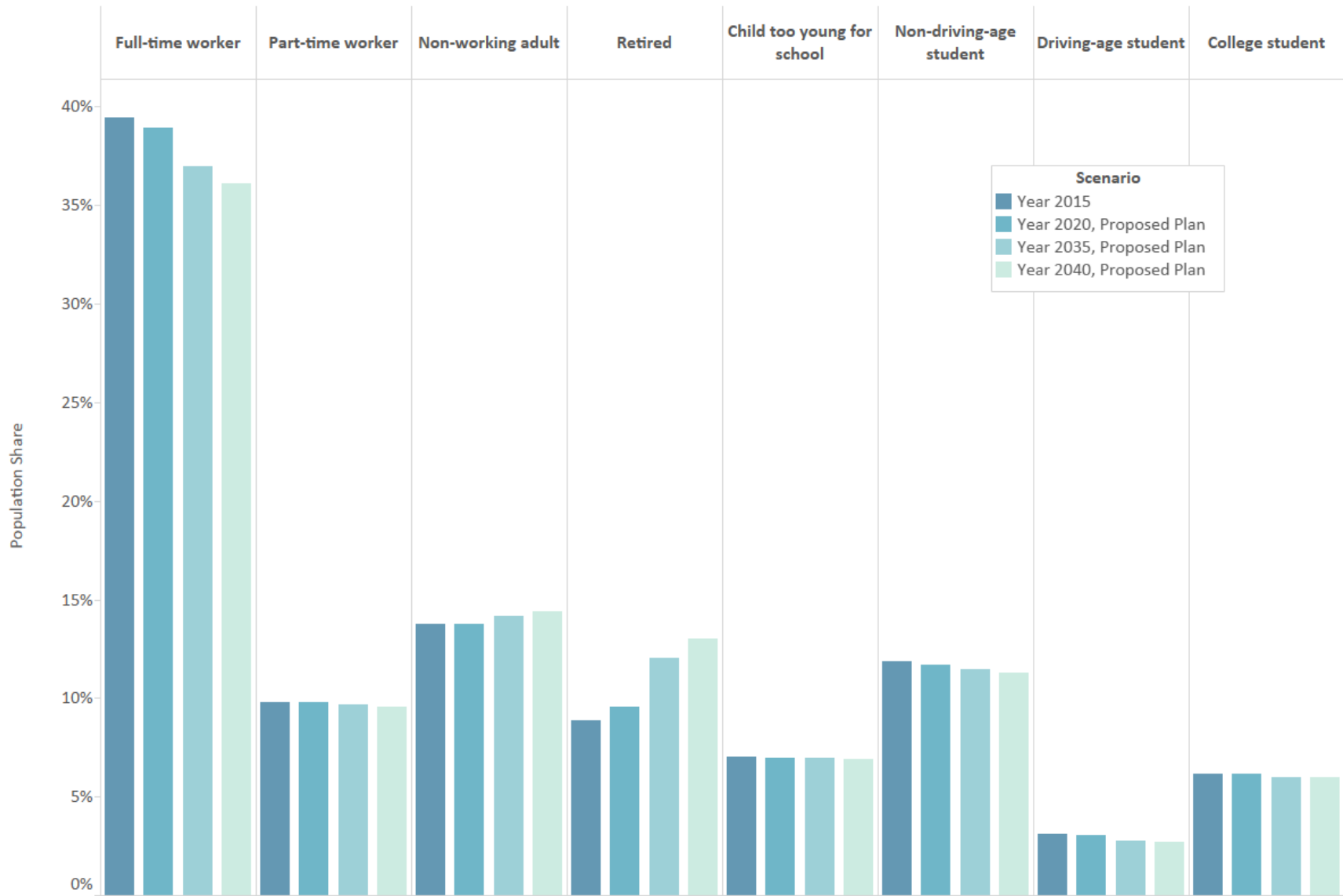


Figure 1: Historical and Forecasted Person Type Distributions for Proposed Plan Alternative

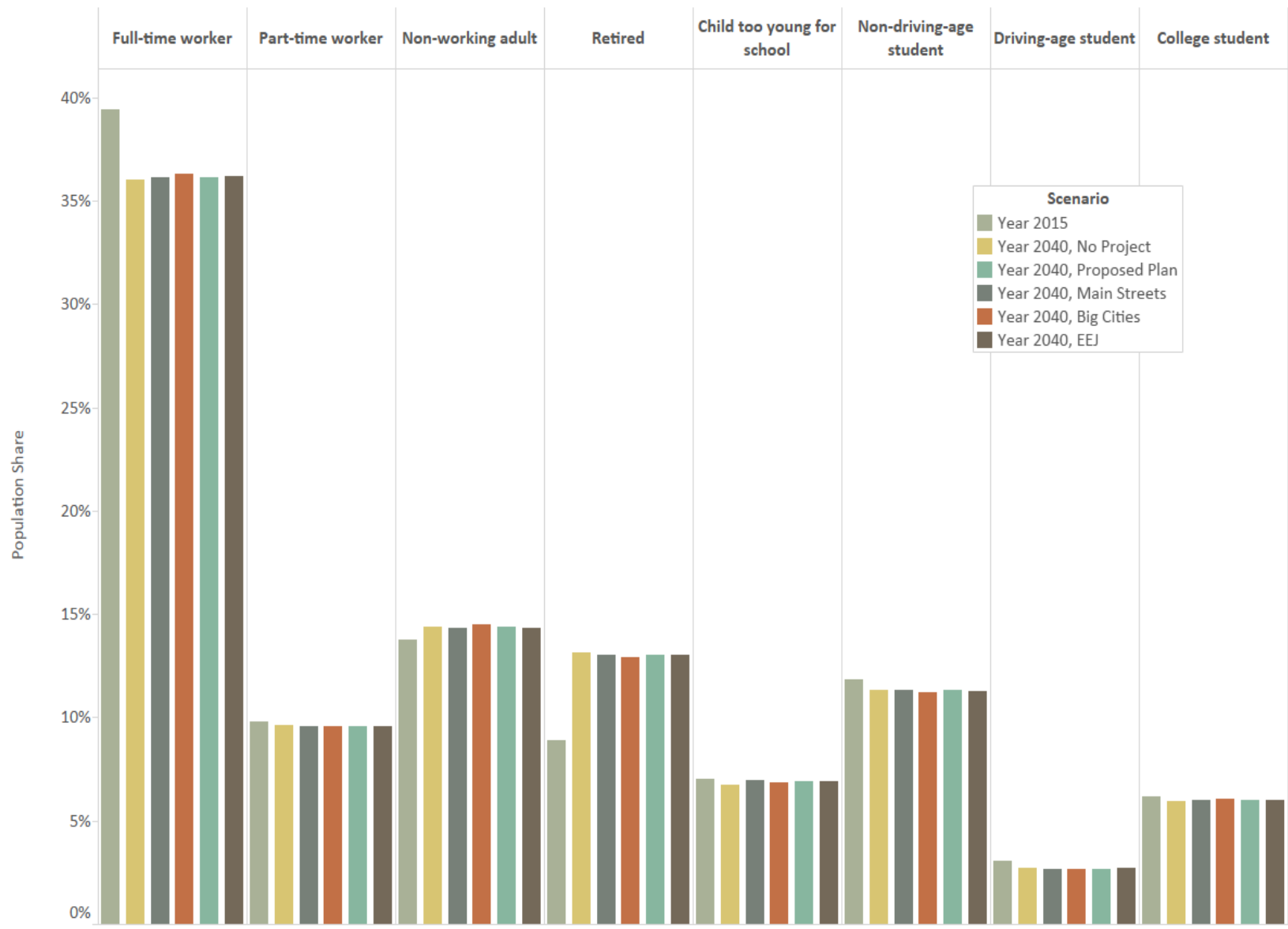


Figure 2: Year 2040 Person Type Distributions

## Roadway Supply

The historical scenarios for 2005 and 2015 have a representation of roadways that reflect infrastructure that was in place in 2005 and 2015.

The No Project alternative includes projects that are either in place in 2016 or are “committed” per MTC policy. The Proposed Plan alternative includes the roadway projects included in the transportation investment strategy, which is discussed in detail elsewhere.

The Main Streets and Big Cities alternative roadway projects were detailed to MTC’s Planning Committee in May 2016<sup>10</sup>.

The Environment, Equity, and Jobs alternative starts with the No Project alternative roadway network and then adds the Proposed Plan alternative’s bus rapid transit (BRT) infrastructure and the Columbus Day Initiative intelligent transportation systems scheme. No other uncommitted roadway projects are included in the EEJ alternative.

A graphical depiction of the changes in the roadway network is presented in Figure 3 below. The chart shows the change in lane-miles (e.g., a one-mile segment of a four-lane road is four lane-miles) available to automobiles in year 2040 relative to year 2015. San Francisco County shows a decrease in lane-miles, as some roadway segments are converted to dedicated bus ways. Figure 4 shows the change in lane-miles over time for the Proposed Plan alternative.

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<sup>10</sup> For additional details, please see <https://mtc.legistar.com/View.ashx?M=F&ID=4446887&GUID=31890CF7-8A5A-4A54-BA45-4466DEF7831B>.

### Roadway Lane Miles by County



Figure 3: Year 2040 Growth in Roadway Lane Miles Available to Automobiles Relative to 2015

## Roadway Lane Miles by County



Figure 4: Growth in Roadway Lane Miles Available to Automobiles for Proposed Plan Alternative

## Transit Supply

The historical scenarios for 2005 and 2015 reflect service in these years.

The No Project alternative begins with 2015 service levels and adds projects that are committed per MTC policy. The Proposed Plan alternative begins with 2015 service levels and adds both the committed projects as well as those included in the transportation investment strategy.

The Main Streets and Big Cities alternative transit projects were detailed to MTC's Planning Committee in May 2016<sup>11</sup>.

The Environment, Equity and Jobs alternative begins with the Proposed Plan transit network and increases transit service frequency in some suburban areas.

A graphical depiction of these changes in transit service is presented in Figure 5 below. The chart shows the change in seat-miles (e.g., a one-mile segment of a bus with 40 seats is 40 seat-miles) in year 2040 compared to year 2015 across alternatives. Figure 6 shows the change in seat-miles over time for the Proposed Plan Alternative.

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<sup>11</sup> Ibid.

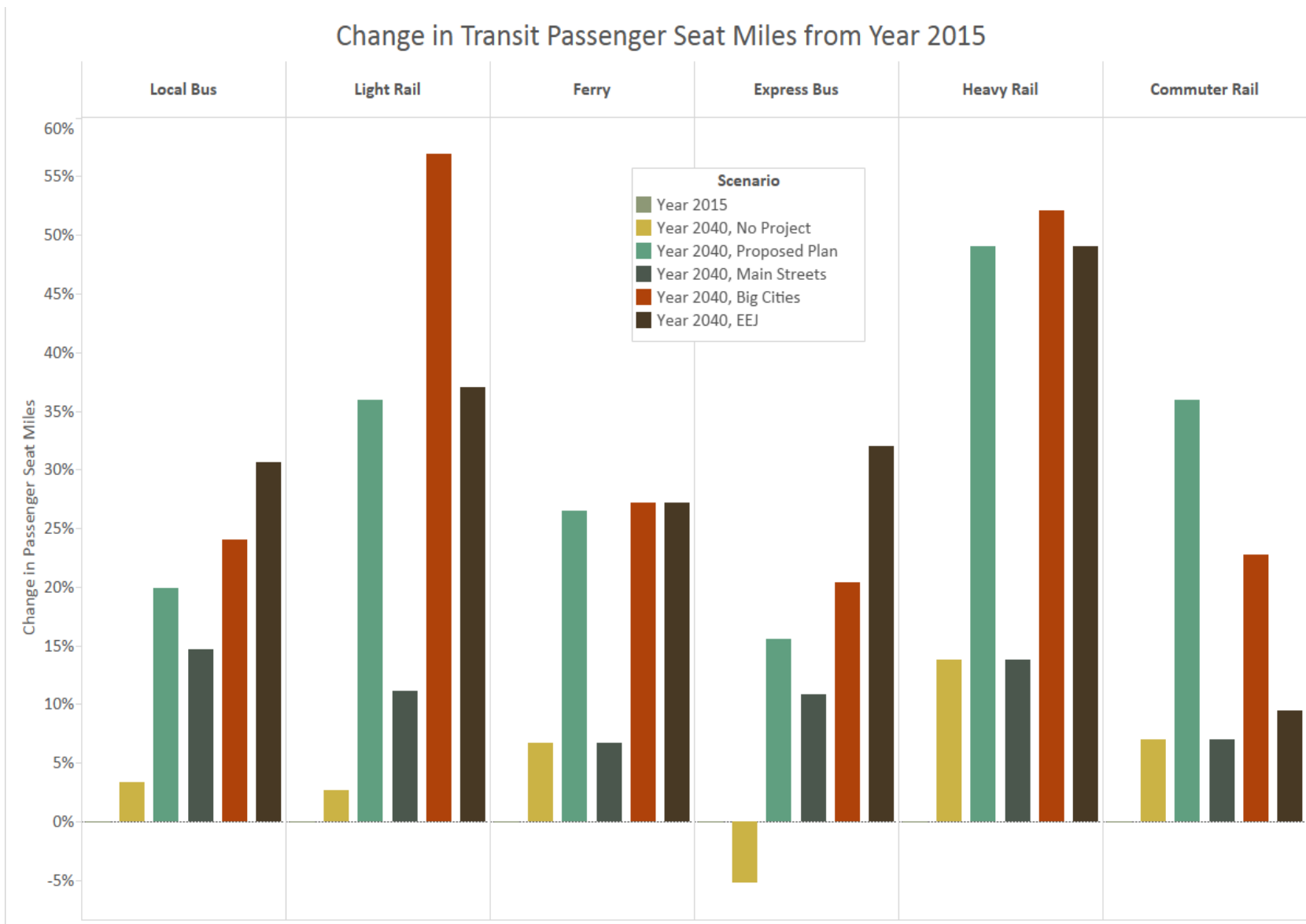


Figure 5: Year 2040 Growth in Transit Passenger Seat Miles from 2015



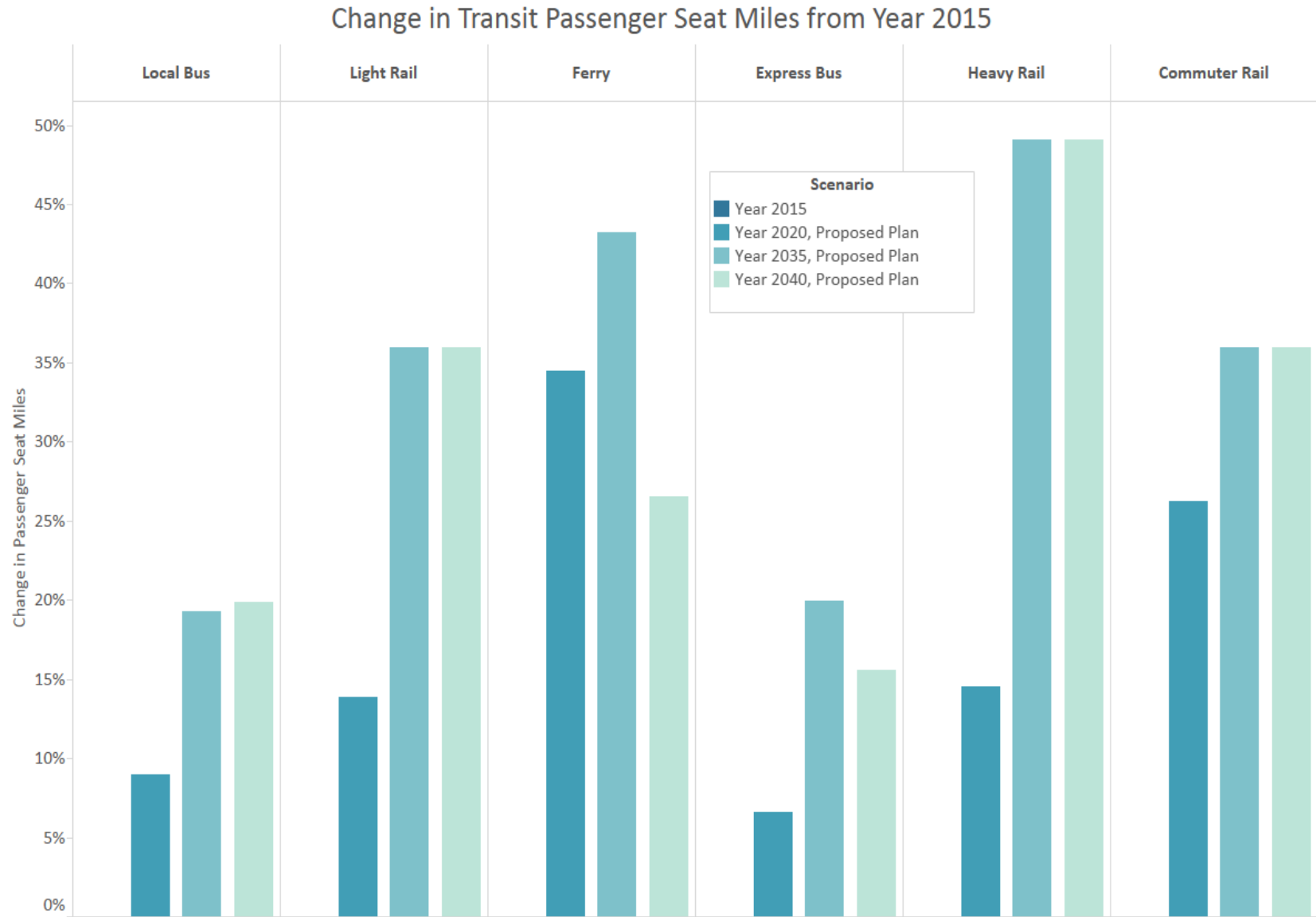


Figure 6: Year 2040 Growth in Transit Passenger Seat Miles from 2015 for Proposed Plan

## Prices

The travel model system includes probabilistic models in which travelers select the best travel mode (e.g., automobile, transit, bicycle, etc.) for each of their daily tours (round trips) and trips. One consideration of this choice is the trade-off between saving time and saving money. For example, a traveler may have two realistic options for traveling to work: (i) driving, which would take 40 minutes (round trip) and cost \$10 for parking; or, (ii) taking transit, which would take 90 minutes (round trip) and cost \$4 in bus fare (\$2 each way). The mode choice model structure, as estimated in the early 2000s, includes coefficients that dictate how different travelers in different contexts make decisions regarding saving time versus saving money. These model coefficients value time in units consistent with year 2000 dollars, i.e. the model itself – not an exogenous input to the model – values time relative to costs in year 2000 dollars. Because re-estimating model coefficients is “expensive” (in terms of staff time and/or consultant resources), it is done infrequently, which, in effect, “locks in” the dollar year in which prices are input to the travel model. To use the model’s coefficients properly, all prices must be input in year 2000 dollars. In the remainder of this document, prices are presented both in (close to) current year dollars, to give the reader an intuitive sense as to the scale of the input prices, as well as year 2000 dollars, which are the units required by the model coefficients.

Six different types of prices are explicitly represented in the travel model: (i) bridge tolls; (ii) express lane tolls; (iii) transit fares; (iv) parking fees; (v) perceived automobile operating cost and gas taxes; and (vi) cordon tolls. A brief discussion on how the model determines each synthetic traveler’s value of time is presented next, after which the input assumptions across each of these price categories are presented.

## Value of Time

The model coefficients that link the value of time with the other components of decision utilities remain constant between the baseline and forecast years, with the one exception of the coefficients on travel cost. These coefficients are a function of each synthetic individual’s value of time, a number drawn, in both the historical and forecast year simulations, from one of four log-normal distributions (see Figure 7). The means of these distributions are a function of each traveler’s household income. The value of time for children in a household is equal to two-thirds that of an adult. The means and shapes of these distributions remain constant across forecast years and scenarios.

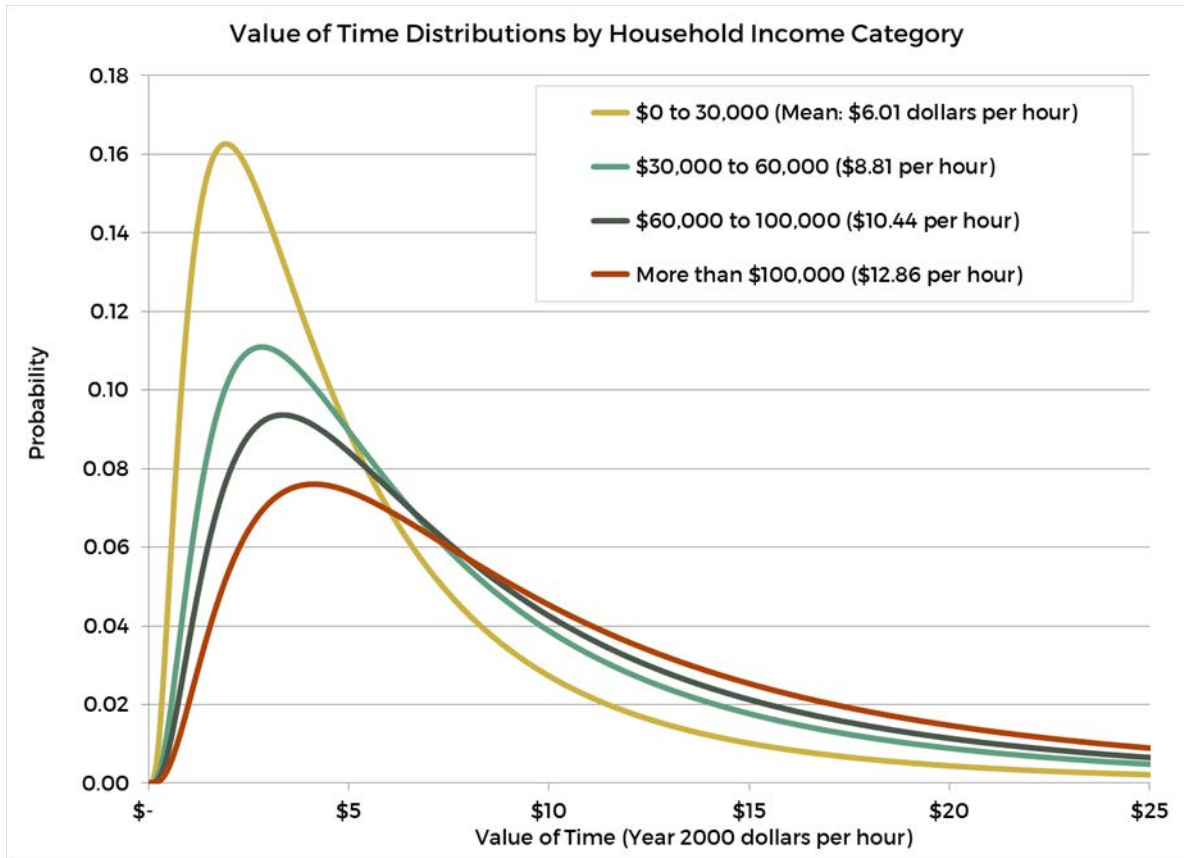


Figure 7: Value of Time Distribution by Household Income

### Bridge Tolls

The bridge tolls assumed in the year 2015 baseline scenario are shown below in Table 3. Please note that Table 3 includes the price of tolls in year 2015 expressed in both year 2000 and year 2015 dollars.

The No Project alternative assumes the toll schedule in place as of July 1, 2012<sup>12</sup>. This schedule is consistent with the year 2015 tolls presented in Table 3.

The bridge tolls assumed in the Proposed Plan, Main Streets, Big Cities and Equity, Environment, and Jobs alternatives are summarized in Table 4. Again, the price of tolls in year 2040 are expressed in year 2000 and year 2015 dollars.

<sup>12</sup> Complete details are available here: <http://bata.mtc.ca.gov/getting-around/>.

Table 3: Year 2015 Common Peak Period Bridge Tolls<sup>†</sup>

Bridge	2-axle, single occupant toll		2-axle, carpool* toll	
	\$2000	\$2015	\$2000	\$2015
San Francisco/Oakland Bay Bridge	\$4.82	\$6.00	\$2.01	\$2.50
Antioch Bridge	\$4.02	\$5.00	\$2.01	\$2.50
Benicia/Martinez Bridge	\$4.02	\$5.00	\$2.01	\$2.50
Carquinez Bridge	\$4.02	\$5.00	\$2.01	\$2.50
Dumbarton Bridge	\$4.02	\$5.00	\$2.01	\$2.50
Richmond/San Rafael Bridge	\$4.02	\$5.00	\$2.01	\$2.50
San Mateo Bridge	\$4.02	\$5.00	\$2.01	\$2.50
Golden Gate Bridge	\$4.02	\$5.00	\$2.41	\$3.00

† – The full toll schedule includes off-peak tolls and tolls for 3- or more axle vehicles.

\* – Carpools are defined as either two-or-more- or three-or-more-occupant vehicles, depending on the bridge, and only receive a discount during the morning and evening commute periods (source: [bata.mtc.ca.gov](http://bata.mtc.ca.gov); [goldengatebridge.org](http://goldengatebridge.org)).

Table 4: Common Peak Period Bridge Tolls for Proposed Plan, Main Streets, Big Cities, and EEJ Alternatives<sup>†</sup>

Bridge	2-axle, single occupant toll		2-axle, carpool* toll	
	\$2000	\$2015	\$2000	\$2015
San Francisco/Oakland Bay Bridge	\$5.72	\$8.00	\$2.86	\$4.00
Antioch Bridge	\$5.01	\$7.00	\$2.50	\$3.50
Benicia/Martinez Bridge	\$5.01	\$7.00	\$2.50	\$3.50
Carquinez Bridge	\$5.01	\$7.00	\$2.50	\$3.50
Dumbarton Bridge	\$5.01	\$7.00	\$2.50	\$3.50
Richmond/San Rafael Bridge	\$5.01	\$7.00	\$2.50	\$3.50
San Mateo Bridge	\$5.01	\$7.00	\$2.50	\$3.50
Golden Gate Bridge	\$4.47	\$6.25	\$3.04	\$4.25

† – The full toll schedule includes off-peak tolls and tolls for 3- or more axle vehicles.

\* – Carpools are defined as either two-or-more- or three-or-more-occupant vehicles, depending on the bridge, and only receive a discount during the morning and evening commute periods (source: [bata.mtc.ca.gov](http://bata.mtc.ca.gov); [goldengatebridge.org](http://goldengatebridge.org)).

## Express Lane Tolls

MTC’s travel model explicitly represents the choice of travelers to pay a toll to use an express lane (i.e., a high-occupancy toll lane) in exchange for the time savings offered by the facility relative to the parallel free lanes. To exploit this functionality, the analyst must assign a travel price by time of day and vehicle class on each express lane link in the network. To efficiently and transparently simulate the impacts of the express lanes on behavior, we segment the express lane network in the scenarios into logical segments, with each segment receiving a time-of-day-specific per mile fee. To illustrate the detail involved in this coding, Figure 8, Figure 9, Figure 10, and Figure 11 (abstractly) present the morning commute period price for the year 2040 simulations. Please note that the simulated prices are not perfectly optimal – meaning, MTC did not analyze each corridor iteratively to find the price that maximized a pre-defined operational goal. Rather, the prices are adjusted a handful of times in an attempt to keep congestion low and utilization high. Importantly, the prices are held constant over four-hour morning (6 to 10 am) and evening (4 to 7 pm) commute periods. MTC’s travel model assumes that congestion is uniform over the entire four-hour commute periods. We know this is not true, but make this assumption as a simplification. The peak one-hour within the four-hour commute period would require a higher toll than those simulated in the model.

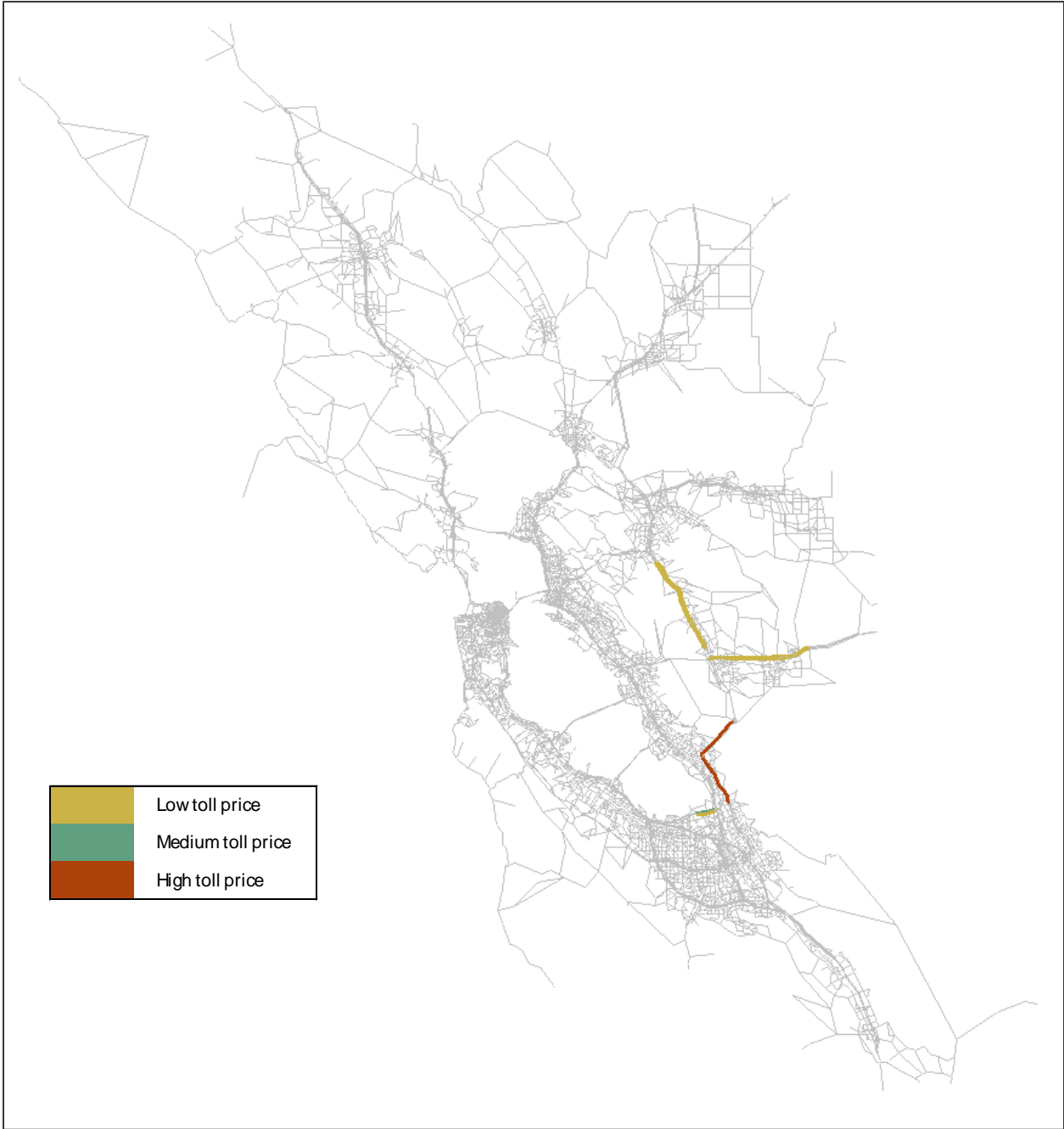
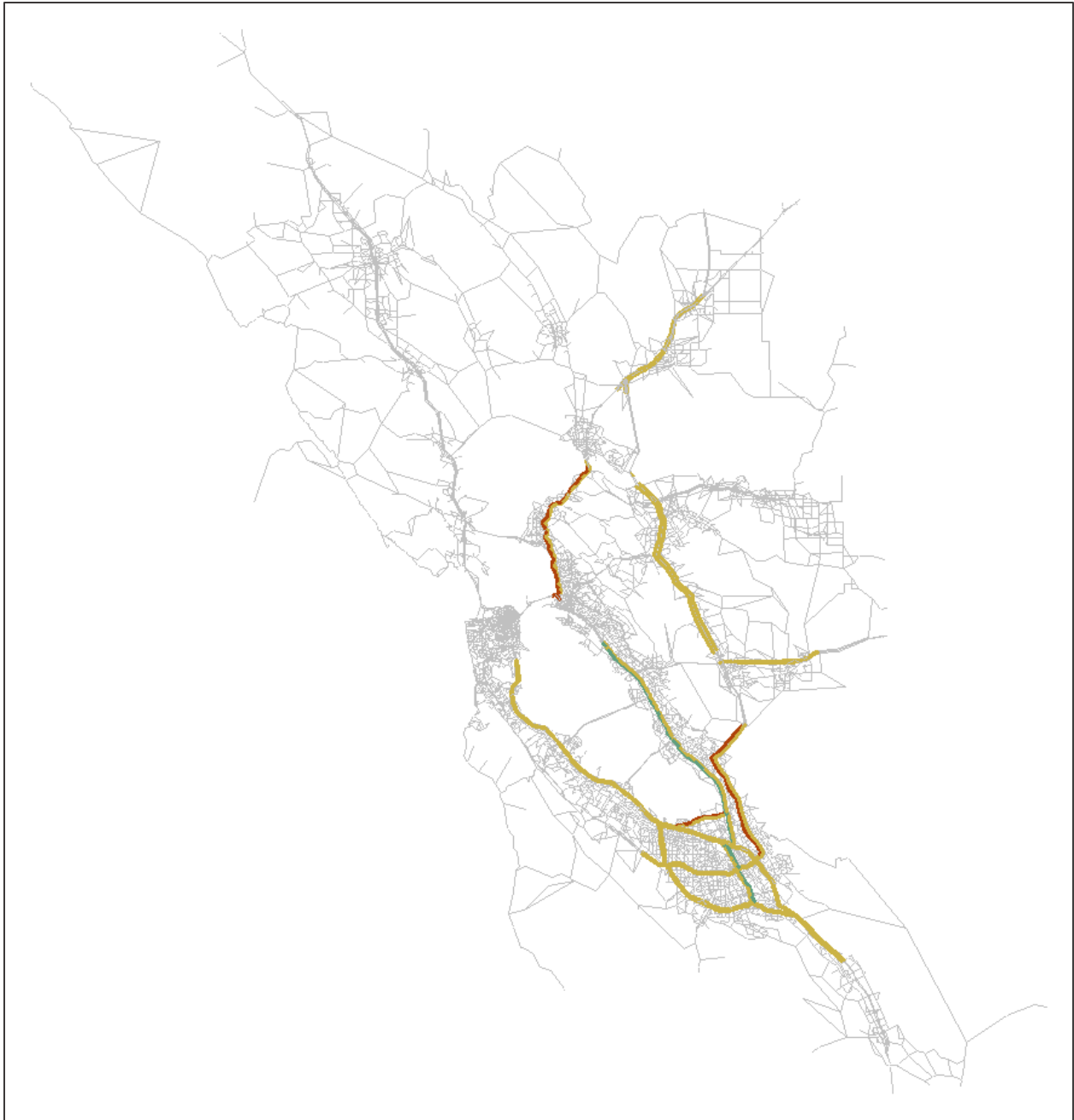


Figure 8: Morning Commute Express Lane Prices for No Project



*Figure 9: Morning Commute Express Lane Prices for Proposed Plan Alternative*

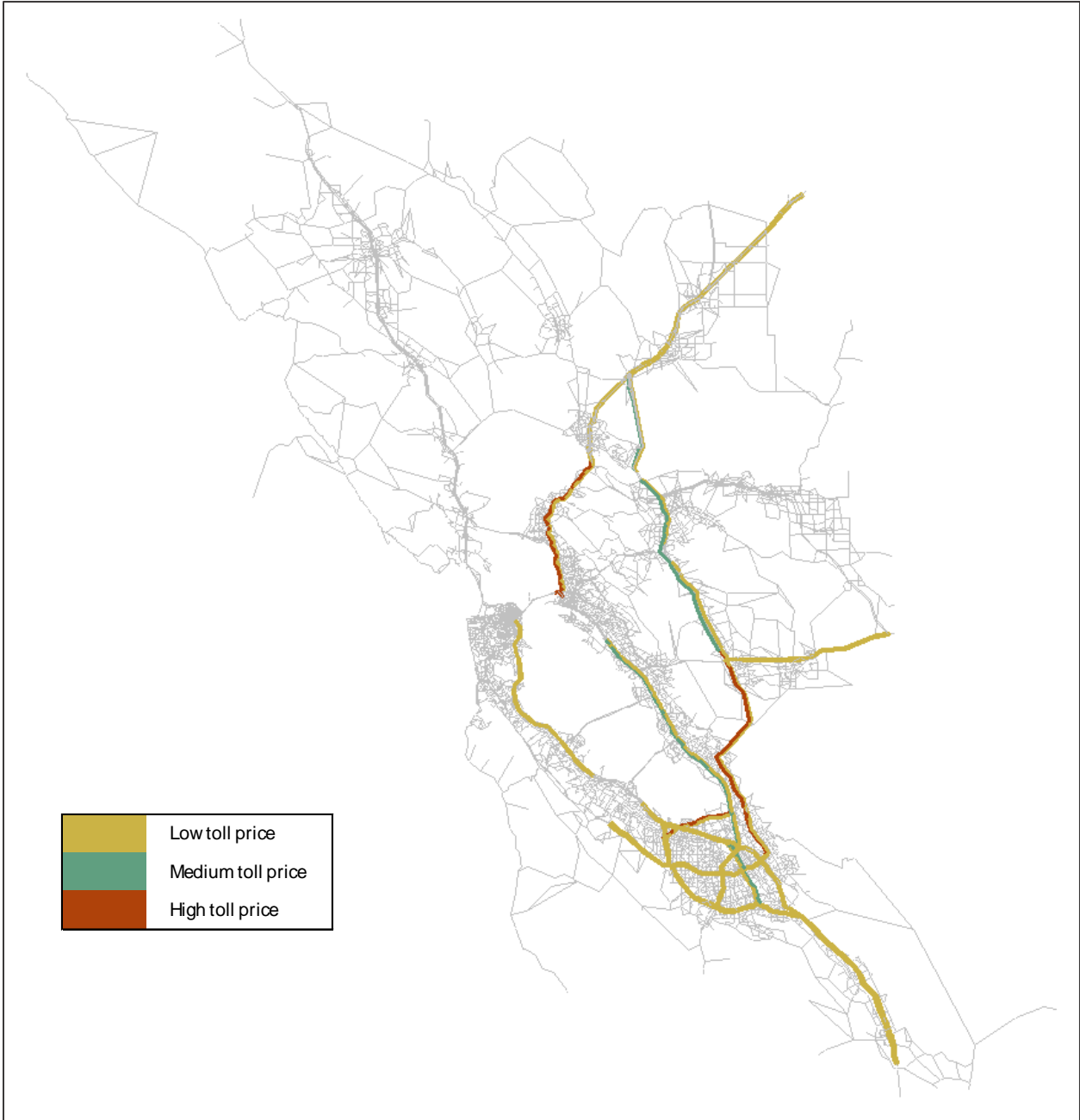


Figure 10: Morning Commute Express Lane Prices for Main Streets Alternative





*Figure 11: Morning Commute Express Lane Prices for Big Cities and EEJ Alternatives*

## Transit Fares

The forecast year transit networks pivot off a year 2015 baseline network, i.e. the alternatives begin with 2015 conditions and add/remove service to represent the various alternatives. The transit fares in 2015 are assumed to remain constant (in real terms) in all of the forecast years. We are therefore explicitly assuming that transit fares will keep pace with inflation and that transit fares will be as expensive in the forecast year as they are today, relative to parking prices, bridge tolls, etc. As a simplification, we assume travelers pay the cash fare to ride each transit service. Table 5 includes fare prices in year 2015 expressed in both year 2000 and year 2015 dollars (i.e., the table does not include information about the cost of taking transit in the year 2000).

Table 5: Year 2015 Common Transit Fares

<i>Operator</i>	<i>Base fare</i>	
	<i>\$2000</i>	<i>\$2015</i>
San Francisco Municipal Transportation Agency (Muni)	\$1.57	\$2.25
Alameda/Contra Costa Transit (AC Transit) – Local buses	\$1.47	\$2.10
Santa Clara Valley Transportation Authority (VTA) – Local buses	\$1.40	\$2.00
Santa Clara Valley Transportation Authority (VTA) – Express buses	\$2.80	\$4.00
San Mateo County Transit (SamTrans) – Local buses	\$1.40	\$2.00
Golden Gate Transit – Marin County to San Francisco Service	\$3.67	\$5.25
County Connection (CCCTA)	\$1.40	\$2.00
Tri-Delta Transit	\$1.40	\$2.00
Livermore Amador Valley Transit Authority (Wheels, LAVTA)	\$1.40	\$2.00

Note: this is a sample, rather than an exhaustive list, of Bay Area transit providers and fares.

## Parking Prices

The travel model segments space into travel analysis zones (TAZs). Simulated travelers move between TAZs and, in so doing, burden the transportation network. Parking costs are applied at the TAZ-level: travelers going to zone X in an automobile must pay the parking cost assumed for zone X.

The travel model uses hourly parking rates for daily/long-term (those going to work or school) and hourly/short-term parkers. The long-term hourly rate for daily parkers represents the advertised monthly parking rate, averaged for all lots in a given TAZ, scaled by 22 days per month, then scaled by 8

hours per day; the short-term hourly rate is the advertised hourly rate – generally higher than the rate daily parkers pay – averaged for all lots in a given TAZ. Priced parking in the Bay Area generally occurs in greater downtown San Francisco, downtown Oakland, Berkeley, downtown San Jose, and Palo Alto.

When forecasting, we assume that parking prices change over time per a simple model: parking cost increases linearly with employment density. Across the scenarios, therefore, the parking charges vary with employment density.

### Perceived Automobile Operating Cost and Gas Tax

When deciding between traveling in a private automobile or on a transit vehicle (or by walking, bicycling, etc.), MTC assumes travelers consider the cost of operating and maintaining, but not owning and insuring, their automobiles. The following three inputs are used to determine the perceived automobile operating cost: average fuel price, average fleet-wide fuel economy, and non-fuel related operating and maintenance costs.

In an effort to improve consistency among regional planning efforts across the state, the Regional Targets Advisory Committee (formed per Senate Bill 375) recommended that California’s metropolitan planning organizations (MPOs) use consistent assumptions for fuel price and for the computation of automobile operating cost in long range planning. Using forecasts generated by the United States Department of Energy (DOE) in the summer of 2013 (and expressed in year 2010 dollars), the MPOs agreed<sup>13</sup> to procedures to consistently estimate forecast year fuel and non-fuel-related prices. The average fleet-wide fuel economy implied by the EMFAC 2014 software is used to represent the average fleet-wide fuel economy. A summary of our assumptions are presented below in Table 6. Note that the prices in Table 6 are presented in year 2015 (i.e., current year) dollars, year 2010 dollars (the units used in the above referenced documentation), and year 2000 dollars (units of the travel model).

In all of the year 2040 scenarios save the No Project, a regional gas tax of 10 cents per gallon (\$2015 dollars) is assumed.

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<sup>13</sup> Please see the memorandum titled “Automobile Operating Cost for the Second Round of Sustainable Communities Strategies” dated October 13, 2014.

Table 6: Perceived Automobile Operating Cost Calculations

<i>Measure</i>	<i>Analysis Year</i>	
	<i>2010</i>	<i>2040</i>
Average fuel price (Year 2000 dollars per gallon)	\$2.51	\$4.21
Average fuel price (Year 2010 dollars per gallon)	\$3.17	\$5.26
Average fuel price (Year 2015 dollars per gallon)	\$3.61	\$6.06
EMFAC-implied fuel economy (miles per gallon)	20.10	42.36
Non-fuel-related operating cost (\$2000 per mile)	\$0.04	\$0.07
Non-fuel-related operating cost (\$2010 per mile)	\$0.05	\$0.09
Non-fuel-related operating cost (\$2015 per mile)	\$0.06	\$0.10
Perceived automobile operating cost (\$2000 per mile) †	\$0.17	\$0.17
Perceived automobile operating cost (\$2010 per mile) †	\$0.21	\$0.22
Perceived automobile operating cost (\$2015 per mile) †	\$0.24	\$0.24

† – Sum of the fuel-related operating cost (fuel price divided by fuel economy) and non-fuel-related operating cost.

## Cordon Tolls

The Proposed Plan, Big Cities and EEJ scenarios include a cordon toll in San Francisco. The scheme requires all vehicles to pay a \$6 (in 2015 dollars) fee to enter or leave the greater downtown San Francisco area during the evening commute period. The cordoned area is bounded by Laguna Street to the west, 18<sup>th</sup> Street to the south, and the San Francisco Bay to the north and east.

## Other Key Assumptions

Technology currently allows large numbers of Bay Area residents to work at home. In the forecast years, MTC assumes the trend of workers working at home revealed in Census data from 1980 through 2014 will continue through 2040. Figure 12 presents the historical data, the trend, and the MTC forecasts. These telecommuting assumptions are the same across all year 2040 scenarios, including the No Project.

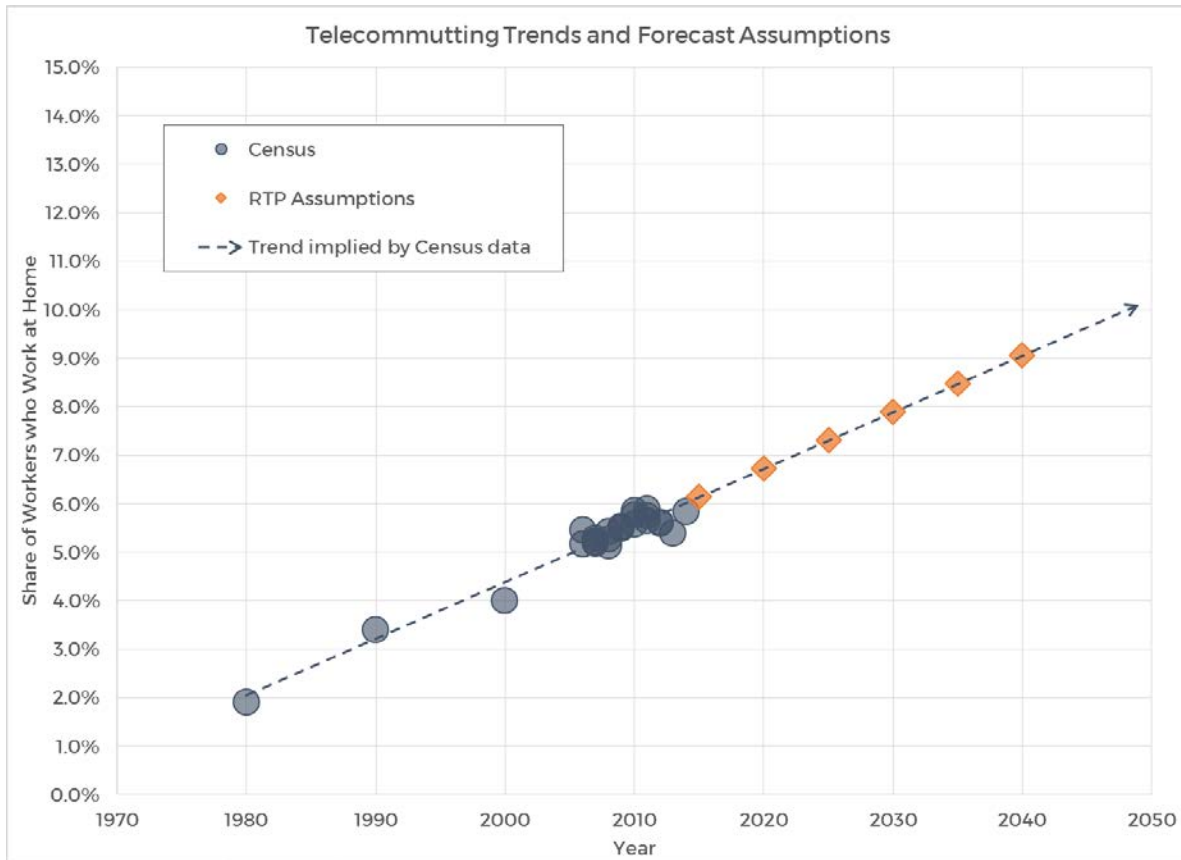


Figure 12: Work at Home Observations, Trends and Forecasts

## Chapter 3: Key Results

Selected travel model results across a variety of dimensions are summarized and discussed here. The presented results are not exhaustive and are intended only to give the reader a general sense of the expected behavioral changes in response to differing input assumptions across scenarios.

### Performance Targets and Equity Analysis

The purpose of this document is to describe the response of travelers to the projects and policies implemented in the scenarios described in the previous section. Information from the travel model is also used to help assess the performance of each of the scenarios per agency-adopted targets. This information is described in MTC's May 2016 Planning Committee memorandum<sup>14</sup>.

Information from the travel model also is used to analyze how different populations are impacted by the investments and policies included in each alternative. This information is described in MTC's May 2016 Planning Committee memorandum<sup>15</sup>.

<sup>14</sup> Available here: <http://mtc.legistar.com/gateway.aspx?M=F&ID=a78d1547-7db3-4dd2-afdb-2d14fe3aec71.pdf>

<sup>15</sup> Ibid.

## Automobile Ownership

Figure 13 presents the automobile ownership rates across the four scenarios in the year 2040 simulations as well as year 2015. The differences across scenarios are not dramatic. A key finding is the general increase in zero automobile households in the Proposed Plan, Big Cities and EEJ scenarios.

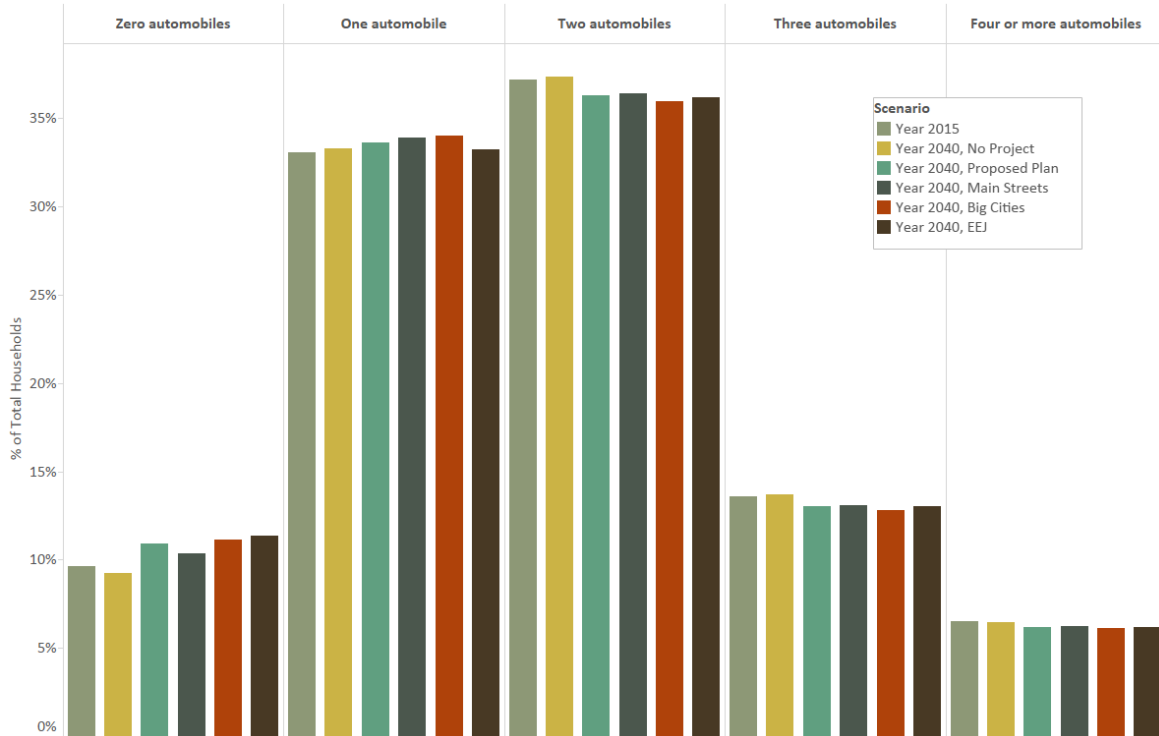


Figure 13: Year 2040 Automobile Ownership Results

## Activity Location Decisions

Figure 14 and Figure 15 present the average trip distance by travel mode for all travel and for trips on work tours, respectively. The key finding here is that the Big Cities scenario brings activities slightly closer together, when compared to the 2015 baseline.

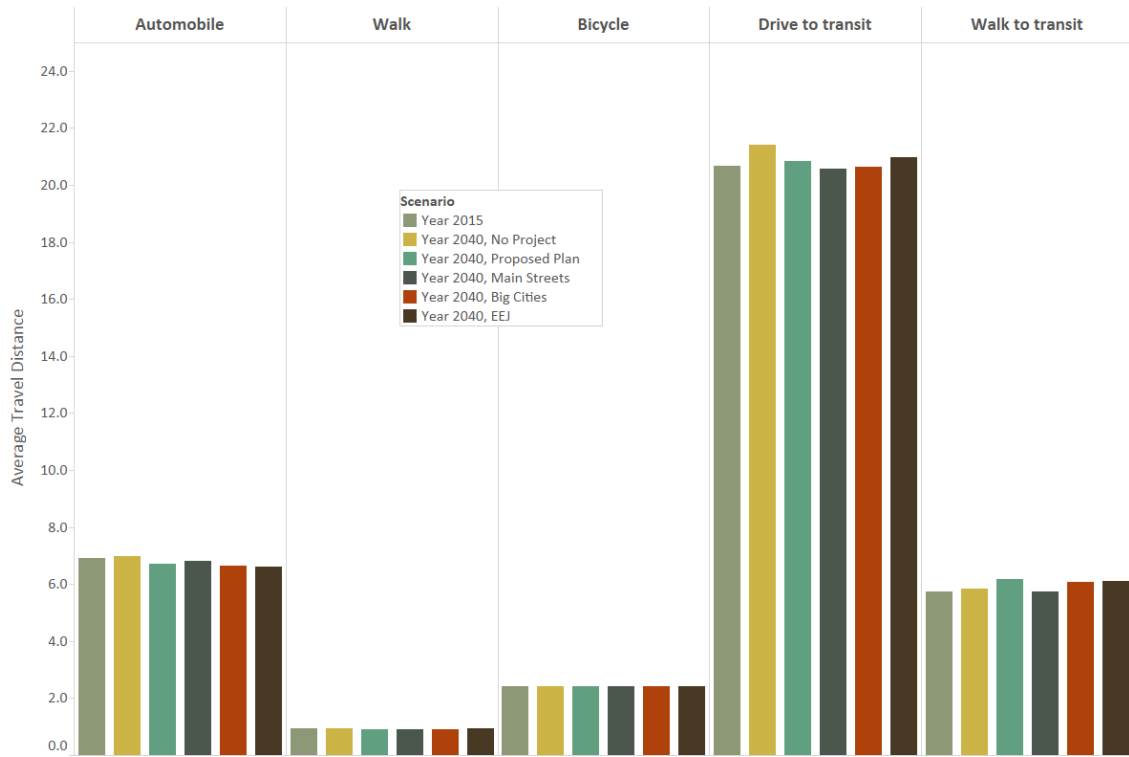


Figure 14: Year 2040 Average Trip Distance

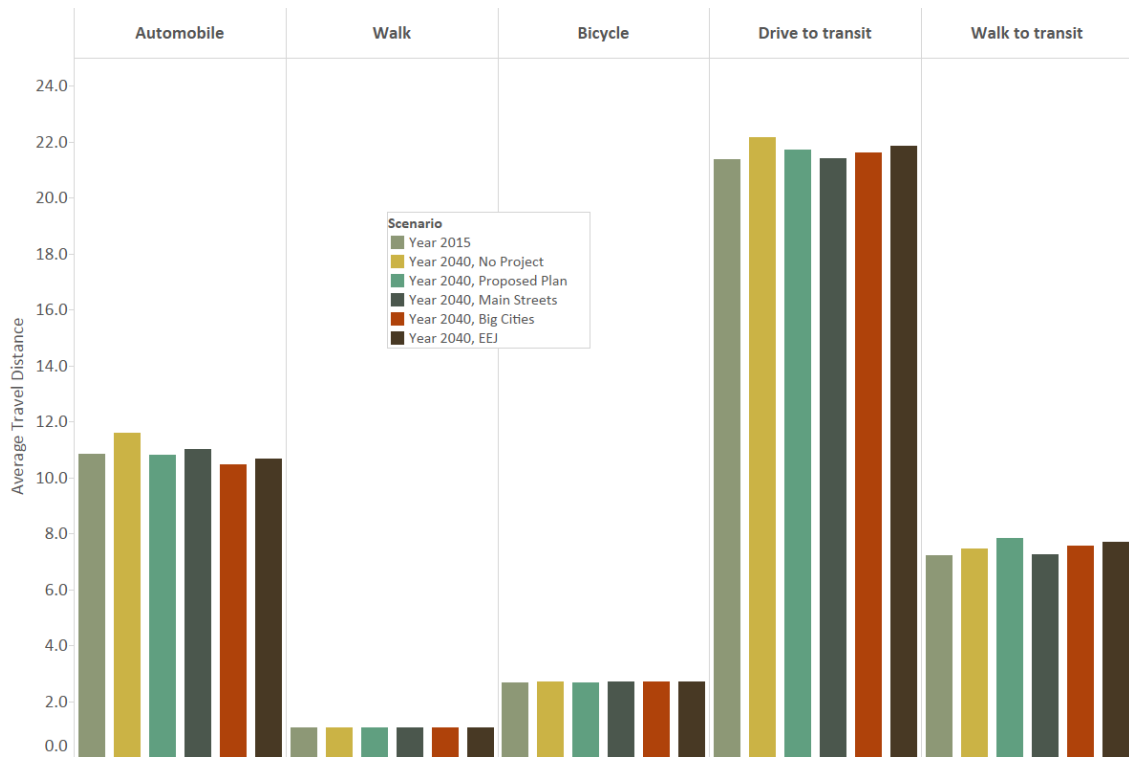


Figure 15: Year 2040 Average Trip Distance for Travel on Work Tours

## Travel Mode Choice Decisions

The means by which a traveler gets from point A to point B is referred to as the travel mode. Within MTC’s representation of travel behavior, five automobile-based modal options are considered, specifically:

- traveling alone in a private automobile and opting not to pay to use an express lane (“single occupant, no HOT”), an option only available to those in households who own at least one automobile;
- traveling alone in a private automobile and opting to pay to use an express lane (“single occupant, pay to use HOT”), an option only available to those who both own a car and whose journey would benefit from using the express lane facility (e.g., this option is not available to those driving through a residential neighborhood to drop a child at school);
- traveling with one passenger in a private automobile and opting not to pay to use an express lane (“two occupants, no HOT) (these travelers can use carpool lanes for which they are eligible), an option available to all households;
- traveling with one passenger in a private automobile and opting to pay to use an express lane (“two occupants, pay to use HOT”), an option available to all households provided they would benefit from using an express lane (if the express lane facility which benefits travelers allows two-occupant vehicles to travel for free, than these travelers are categorized as “two occupants, no HOT”); and,
- traveling with two or more passengers in a private automobile (“three-or-more occupants”) – these travelers are allowed to travel for free on express lane facilities across all the scenarios (as well as carpool facilities).

The travel model explicitly considers numerous non-automobile options which are collapsed in these summaries into the following four options: transit, getting to and from by foot (“walk to transit”); transit, getting to or from in an automobile (“drive to transit”); walk; and, bicycle.

Figure 16 and Figure 17 present the share of trips made by various travel modes. Figure 16 shows shares of travel in automobiles by occupancy category as well as by willingness to pay to use an express lane. Overall, mode shares shift slightly towards transit in the four project scenarios compared with a slight shift towards auto travel in the No Project scenario. Figure 17 presents companion results for non-automobile travel modes, including public transit, walking, and bicycling. Here, we see a slight increase in walk-to-transit in the Big Cities and EEJ scenarios, which reflects the scenarios’ increase in transit service and increasingly efficient land development patterns.



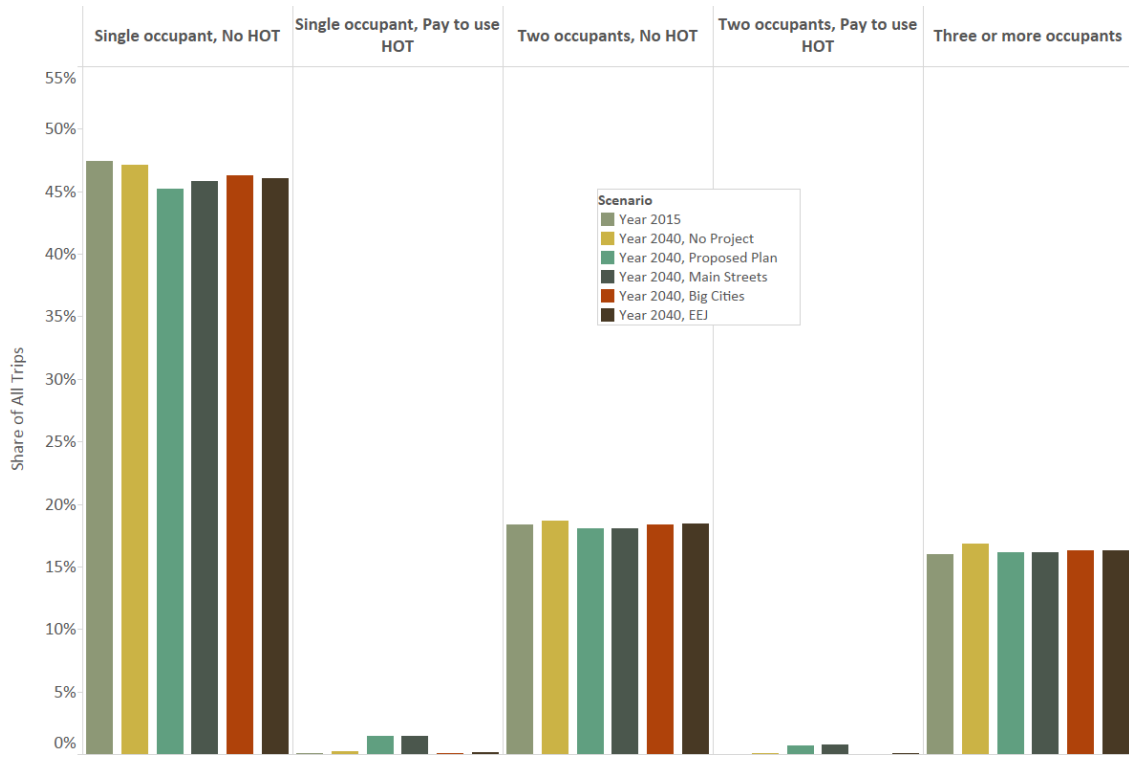


Figure 16: Year 2040 Automobile Mode Shares for All Travel

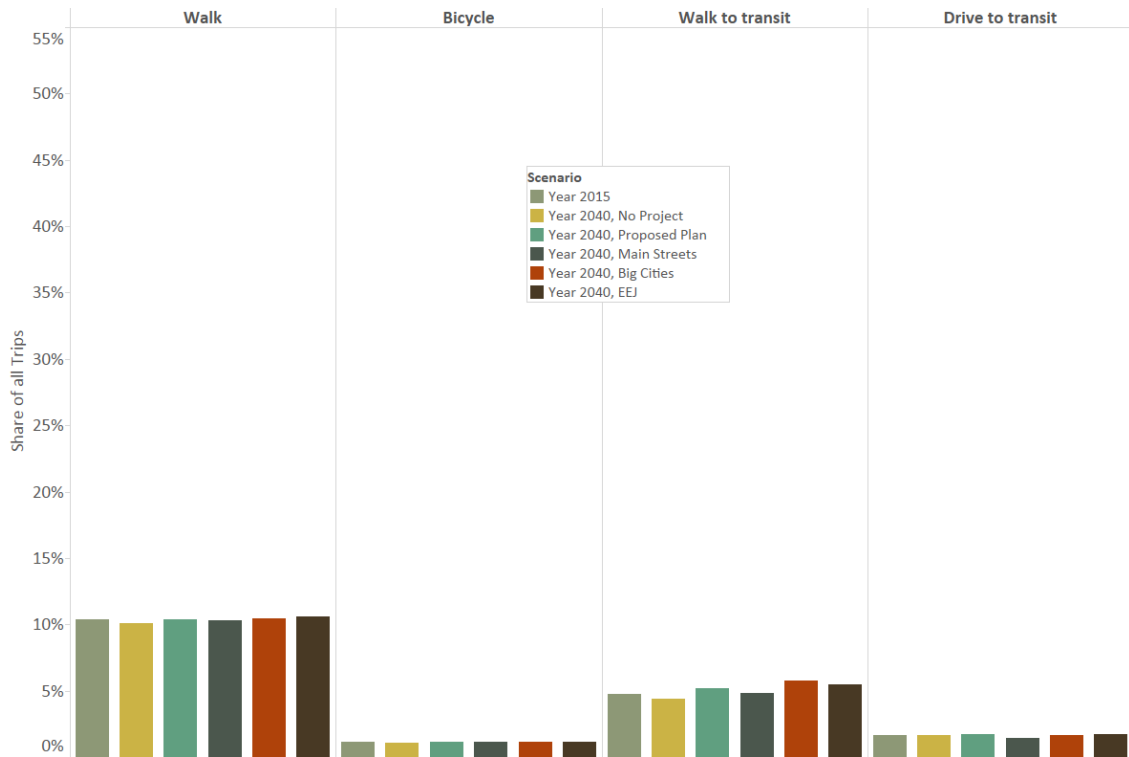


Figure 17: Year 2040 Non-Automobile Mode Shares for All Travel

## Aggregate Transit Demand Estimates

Bay Area residents choosing to travel by transit are explicitly assigned to a specific transit route. As a means of organizing the modeling results, MTC groups transit lines into the following technology-specific categories:

- **Local bus:** standard, fixed-route bus service, of the kind a traveler may take to and from a neighborhood grocery store or to work, as well as so-called “bus rapid transit” service.
- **Express bus:** longer distance service typically provided in over-the-road coaches. Golden Gate Transit, for example, provides express bus service between Marin County and Downtown San Francisco.
- **Light rail:** represented in the Bay Area by San Francisco’s Muni Metro and streetcar services (F-Market and E-Caltrain), as well as Santa Clara Valley Transportation Authority’s light rail service.
- **Heavy rail:** another name for the Bay Area Rapid Transit (BART) service.
- **Commuter rail:** longer distance rail service typically operating in dedicated right-of-way, including Caltrain, Sonoma-Marín Area Rail Transit (SMART), Amtrak’s Capitol Corridor, and Altamont Commuter Express.

Figure 18 presents the estimates of transit boardings by these categories on the typical weekday simulated by the travel model. Ridership increases from about 2.3 million daily boardings in 2015 to over 3 million daily boardings in all project scenarios, and over 3.4 million boardings in the 2040 Big Cities scenario.

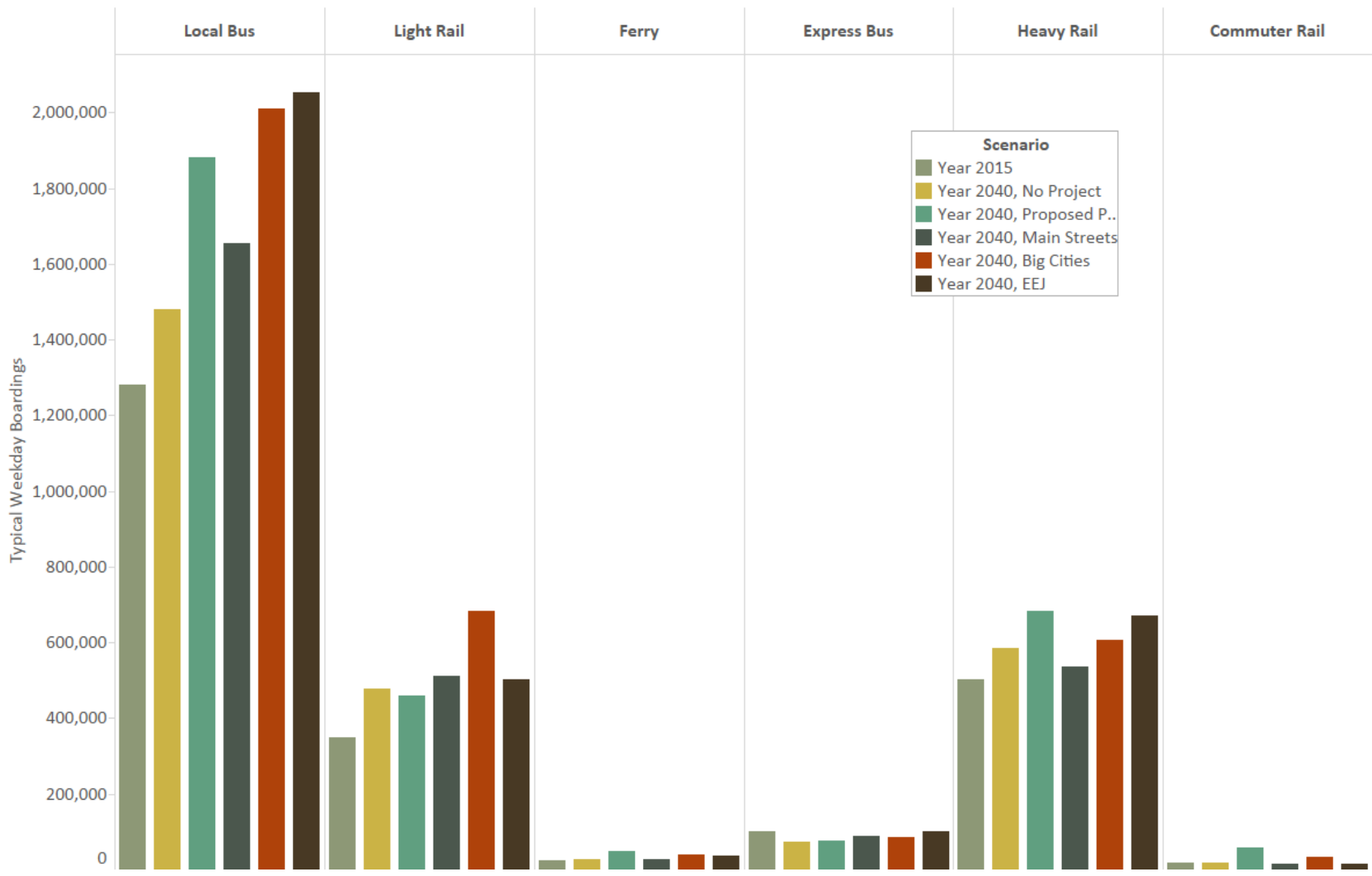


Figure 18: Year 2040 Typical Weekday Transit Boardings by Technology

## Roadway Utilization and Congestion Estimates

Trips made by automobile are first aggregated into matrices identifying each trip's origin and destination, and then "assigned" to a representation of the Bay Area's roadway network. The assignment process iteratively determines the shortest path between each origin-destination pair, shifting some number of trips to each iteration's shortest path, until the network reaches a certain level of equilibrium – defined as a state in which travelers cannot change to a lower "cost" route (where cost includes monetary and non-monetary (time) expenditures). Several measures of interest are generated by the assignment process, including vehicle miles traveled, delay, and average travel speed.

Please note that MTC maintains three separate estimates of the quantity of vehicle miles traveled (VMT), as follows:

- (1) the quantity assigned directly to the highway network;
- (2) the quantity (1) plus so-called "intra-zonal" VMT (i.e., travel that occurs at a geographic scale finer than the travel model's network representation), which is computed off-line; and,
- (3) the quantity (2) adjusted to match the VMT the California Air Resources Board (CARB) believes takes place in the Bay Area (a number slightly higher than MTC's estimate).

In this document, the VMT identified as (1) in the above list is presented.

Figure 19 first segments VMT into five time periods and then scales the VMT by the number of hours in each time period. The result is the intensity of VMT by time of day as well as the increase in VMT from 2015 to 2040. Overall, VMT varies only slightly across the year 2040 alternatives, with the Big Cities and EEJ scenarios having the lowest VMT.

Figure 20 presents the average freeway speed across scenarios. Looking at the speeds during the morning and evening commute periods, we see a reduction in speed (or, said another way, an increase in congestion) from the year 2015 scenario to the year 2040 No Project scenario. Each of the alternatives improves freeway speeds.

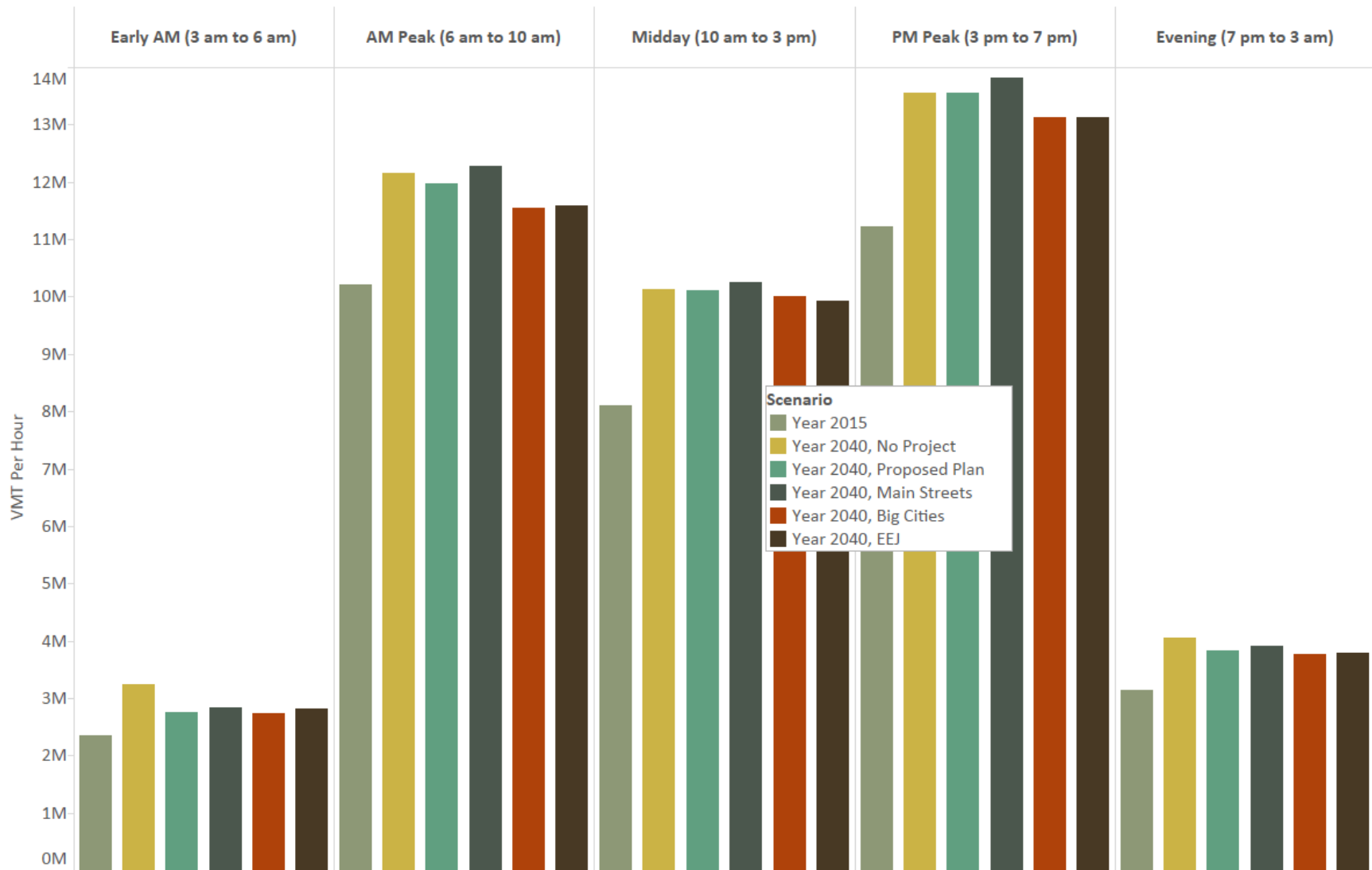


Figure 19: Year 2040 Vehicle Miles Traveled per Hour by Time Period

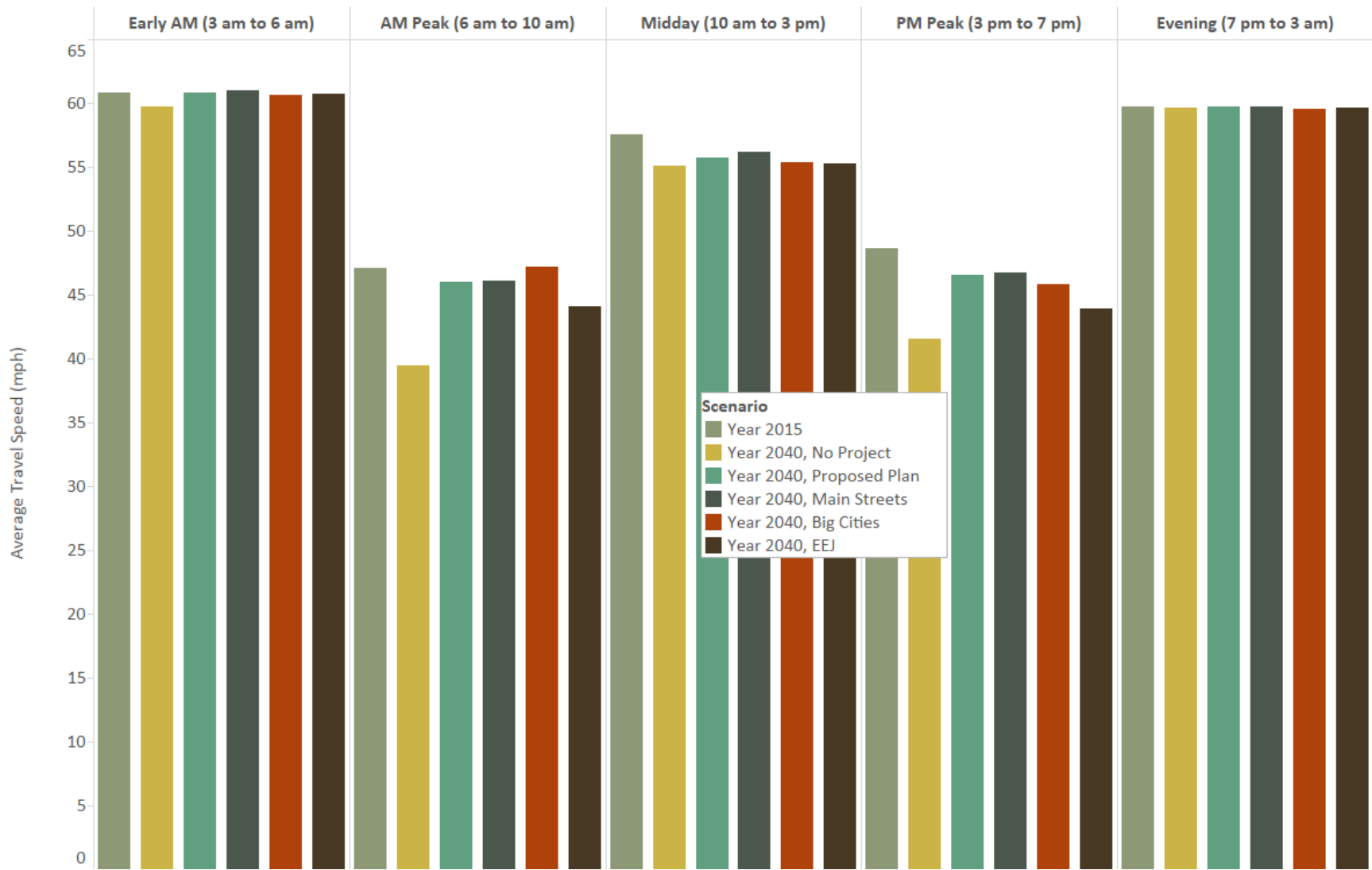


Figure 20: Year 2040 Average Vehicle Speeds on Freeways

**Appendix D**  
**List of Transportation Control Measures (TCM) Projects**

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**TCM A: Regional Express Bus**  
Regional Express Bus Program  
Vehicle Deployment Throughout the Bay Area<sup>1</sup>  
February 18, 2009

Transit Operator	Vehicle Type	Serial Registration <sup>2</sup>	Funds Obligated	Operating Agency	Route	Weekday Service Hours	Weekend Service Hours	
Fairfield-Suisun	Over-The-Road	1M8PDMPA13P055949	11/14/2002	Fairfield-Suisun	40 Vacaville/Fairfield to Pleasant Hill/Walnut Creek BART	5:00 AM - 9:57 AM & 3:01 PM - 8:31 PM		
	Over-The-Road	1M8PDMPA83P055950	11/14/2002	Fairfield-Suisun	40 Vacaville/Fairfield to Pleasant Hill/Walnut Creek BART	5:00 AM - 9:57 AM & 3:01 PM - 8:31 PM		
	Suburban	15GCD201731111920	1/27/2003	Fairfield-Suisun - Transferred from SamTrans <sup>4</sup>	30 Fairfield to Davis/Sacramento	6:08 AM - 7:05 PM	Sat Only 8:03 AM - 4:43 PM	
	Suburban	15CGD201931111921	1/27/2003	Fairfield-Suisun - Transferred from SamTrans <sup>4</sup>	30 Fairfield to Davis/Sacramento	6:08 AM - 7:05 PM	Sat Only 8:03 AM - 4:43 PM	
Golden Gate	Over-The-Road	1M8PDMPA53P055680	11/8/2002	Golden Gate	71 Novato/San Rafael/Marin City/San Francisco	6:35 AM - 8:27 PM	Sat Only 6:59 AM - 7:28 PM	
	Over-The-Road	1M8PDMPA73P055681	11/8/2002	Golden Gate	71 Novato/San Rafael/Marin City/San Francisco	6:35 AM - 8:27 PM	Sat Only 6:59 AM - 7:28 PM	
	Over-The-Road	1M8PDMPA93P055682	11/8/2002	Golden Gate	72 Santa Rosa/Rohnert Park/Cotati/San Francisco	3:54 AM - 8:59 AM & 2:12 PM - 8:05 PM		
	Over-The-Road	1M8PDMPA03P055683	11/8/2002	Golden Gate	72 Santa Rosa/Rohnert Park/Cotati/San Francisco	3:54 AM - 8:59 AM & 2:12 PM - 8:05 PM		
	Over-The-Road	1M8PDMPA23P055684	11/8/2002	Golden Gate	75 Santa Rosa/Rohnert Park/Cotati - Petaluma /Marin Civic Center/San Rafael	5:02 AM - 8:35 AM & 2:59 PM - 7:18 PM		
	Over-The-Road	1M8PDMPA43P055685	11/8/2002	Golden Gate	75 Santa Rosa/Rohnert Park/Cotati - Petaluma /Marin Civic Center/San Rafael	5:02 AM - 8:35 AM & 2:59 PM - 7:18 PM		
LAVTA	Suburban	15GDD271521110872	3/25/2002	LAVTA	70X Pleasanton - Walnut Creek Express	5:09 AM - 9:16 AM & 3:19 PM - 7:42 PM		
	Suburban	15GDD271721110873	3/25/2002	LAVTA	70X Pleasanton - Walnut Creek Express	5:09 AM - 9:16 AM & 3:19 PM - 7:42 PM		
	Suburban	15GDD271921110874	3/25/2002	LAVTA	70X Pleasanton - Walnut Creek Express	5:09 AM - 9:16 AM & 3:19 PM - 7:42 PM		
	Suburban	15GDD271021110875	3/25/2002	LAVTA	70X Pleasanton - Walnut Creek Express	5:09 AM - 9:16 AM & 3:19 PM - 7:42 PM		
NCTPA	Suburban	15GCD201631111911	1/27/2003	SamTrans Transferring to NCTPA on 2/28/09	June 2009 - Calistoga/Yountville/Napa/American Canyon/Baylink Ferry Terminal	5:00 AM-6:30 PM; Peak Only		
	Suburban	15GCD201831111912	1/27/2003	SamTrans Transferring to NCTPA on 2/28/09	June 2009 - Calistoga/Yountville/Napa/American Canyon/Baylink Ferry Terminal	5:00 AM-6:30 PM; Peak Only		
Tri-Delta	Over-The-Road	1M8PDMPA63P055686	11/8/2002	Tri-Delta	300 Express Commuter Service Brentwood/Pittsburg BART	4:15 AM - 9:07 PM		
	Over-The-Road	1M8PDMPA63P055687	11/8/2002	Tri-Delta	300 Express Commuter Service Brentwood/Pittsburg BART	4:15 AM - 9:07 PM		
	Over-The-Road	1M8PDMPA63P055688	11/8/2002	Tri-Delta	300 Express Commuter Service Brentwood/Pittsburg BART	4:15 AM - 9:07 PM		
	Over-The-Road	1M8PDMPA63P055689	11/8/2002	Tri-Delta	300 Express Commuter Service Brentwood/Pittsburg BART	4:15 AM - 9:07 PM		
Vallejo	Over-The-Road	1M8PDMPA13P055627	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	Over-The-Road	1M8PDMPA33P055628	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	Over-The-Road	1M8PDMPA53P055629	11/14/2002	Vallejo	78 Vallejo/Benicia/Pleasant Hill BART/Walnut Creek BART	5:00 AM - 8:38 PM		
	Over-The-Road	1M8PDMPA13P055630	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	Over-The-Road	1M8PDMPA33P055631	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	Over-The-Road	1M8PDMPA53P055632	11/14/2002	Vallejo	78 Vallejo/Benicia/Pleasant Hill BART/Walnut Creek BART	5:00 AM - 8:38 PM		
	Over-The-Road	1M8PDMPA73P055633	11/14/2002	Vallejo	78 Vallejo/Benicia/Pleasant Hill BART/Walnut Creek BART	5:00 AM - 8:38 PM		
	Over-The-Road	1M8PDMPA93P055634	11/14/2002	Vallejo	78 Vallejo/Benicia/Pleasant Hill BART/Walnut Creek BART	5:00 AM - 8:38 PM		
	Over-The-Road	1M8PDMPA03P055635	11/14/2002	Vallejo	78 Vallejo/Benicia/Pleasant Hill BART/Walnut Creek BART	5:00 AM - 8:38 PM		
	Over-The-Road	1M8PDMPA23P055636	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	Over-The-Road	1M8PDMPA43P055637	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	Over-The-Road	1M8PDMPA83P055639	11/14/2002	Leased to Fairfield-Suisun <sup>5</sup>	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM		
	WestCat	Suburban	15GCD211121111974	3/7/2002	WestCat	30Z Hercules Transit Center/Martinez/BART	5:59 AM - 8:03 PM	
		Suburban	15GCD211521111975	3/7/2002	WestCat	30Z Hercules Transit Center/Martinez/BART	5:59 AM - 8:03 PM	
Suburban		15GCD211121111976	3/7/2002	WestCat	30Z Hercules Transit Center/Martinez/BART	5:59 AM - 8:03 PM		
Suburban		15GCD201X31111913	1/27/2003	WestCat - Transferred from SamTrans <sup>4</sup>	LYNX Rodeo/Hercules/San Francisco Transbay Terminal	5:00 AM - 9:45 AM & 3:30 PM - 8:33 PM		
Suburban		15GCD201131111914	1/27/2003	WestCat - Transferred from SamTrans <sup>4</sup>	LYNX Rodeo/Hercules/San Francisco Transbay Terminal	5:00 AM - 9:45 AM & 3:30 PM - 8:33 PM		
Suburban		15GCD201331111915	1/27/2003	SamTrans <sup>4</sup>	LYNX Rodeo/Hercules/San Francisco Transbay Terminal	5:00 AM - 9:45 AM & 3:30 PM - 8:33 PM		
Suburban		15GCD201331111915	1/27/2003	SamTrans <sup>4</sup>	LYNX Rodeo/Hercules/San Francisco Transbay Terminal	5:00 AM - 9:45 AM & 3:30 PM - 8:33 PM		

1. Please note: MTC does not currently have information compiled on cumulative operating hours for all of the TCRP buses. For projects where the buses have been assigned to routes receiving operating funds that are tied to required performance measures, MTC has data compiled on the annual performance of those routes.
2. Each vehicle may be deployed on any of the approved routes listed for each operator.
3. Vehicles are deployed as needed for various routes on weekdays and weekends. All transbay service does not operate on weekends, but all vehicles may be deployed on weekend transbay service.
4. SamTrans REX service was discontinued in 2007 due to low ridership; all 11 TCRP vehicles purchased for the REX service were reallocated to AC Transit, Fairfield-Suisun Transit, WestCat, and NCTPA.
5. Route 90 service was transferred from Vallejo to Fairfield-Suisun Transit in 2006.

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	SPONSOR	PROJECT NAME	AMOUNT
FY 2003-04	Alameda County	ADA Compliant Accessible Ramps	\$ 105,767
FY 2003-04	Alameda County	Tesla Road Bicycle Lanes	\$ 51,000
FY 2003-04	City of Albany	Manor Way Pedestrian Improvements	\$ 22,706
FY 2003-04	City of Berkeley	Bicycle Safety Education	\$ 30,000
FY 2003-04	City of Berkeley	Prepare plan for implementing future	\$ 31,033
FY 2003-04	City of Fremont	Bike Detectors, Bike Logo on Pavement,	\$ 128,989
FY 2003-04	City of Hayward	Installation of Wheelchair Ramps	\$ 84,198
FY 2003-04	City of Livermore	Complete Portion of S. Livermore Valley	\$ 97,301
FY 2003-04	City of Newark	Silliman Activity Center Pedestrian/	\$ 59,158
FY 2003-04	City of Oakland	Bancroft Ave. Bike Lanes (96th - Durant)	\$ 96,000
FY 2003-04	City of Oakland	Citywide Ped. Curb Ramp Program -	\$ 295,266
FY 2003-04	City of Oakland	Lake Merritt 12th St. Dam Ped/Bike	\$ 116,000
FY 2003-04	City of Oakland	Pedestrian Bulb Outs-Highland &	\$ 100,000
FY 2003-04	City of Oakland	Walk/Bike Calif. Conf. - Alameda Co.	\$ 30,000
FY 2003-04	City of Oakland	West City of Oakland Bay Trail	\$ 289,000
FY 2003-04	City of Piedmont	Sidewalk Extension and Curb Cuts	\$ 6,506
FY 2003-04	City of Pleasanton	ADA Compliant Wheelchair Accessible	\$ 38,627
FY 2003-04	City of San Leandro	Install New Curb Cuts & Upgrade	\$ 40,000
FY 2003-04	City of Brentwood	Installation of Wheelchair Ramps	\$ 30,000
FY 2003-04	City of Concord	Iron Horse Trail Rte 242 Undercrossing	\$ 36,000
FY 2003-04	City of Concord	Wren Avenue Ped. Improvements	\$ 45,000
FY 2003-04	Contra Costa County	Bicycle/Pedestrian Safety Education	\$ 21,500
FY 2003-04	Contra Costa County	Olympic Blvd. Ped. Path Phase II	\$ 115,000
FY 2003-04	City of Lafayette	Hough Avenue Sidewalk	\$ 37,000
FY 2003-04	City of Moraga	Rheem Blvd./Moraga Rd. Intersection	\$ 66,100
FY 2003-04	City of Pittsburg	Polaris Drive Bike Facility	\$ 77,500
FY 2003-04	City of San Ramon	Dougherty Road Sidewalk	\$ 25,000
FY 2003-04	Marin County	Bicycle/Pedestrian Bridge	\$ 140,000
FY 2003-04	Mill Valley	Signage Project	\$ 7,200
FY 2003-04	City of Novato	Commuter Bikeway Connection	\$ 402,286
FY 2003-04	City of Novato	Hill Road Path Connection	\$ 60,000
FY 2003-04	City of San Anselmo	Purchase & Install Bicycle Racks	\$ 15,000
FY 2003-04	Napa County	Yountville Cross Rd. Bike Lane	\$ 150,000
FY 2003-04	Yountville	Yountville Cross Rd. Bike Lane	\$ 47,000
FY 2003-04	City of Campbell	Westmont Ave. Improvement Project	\$ 43,192
FY 2003-04	City of Los Altos	Fremont Ave. Sidewalk Phase III	\$ 15,781
FY 2003-04	Los Altos Hills	Paseo Del Roble Pedestrian Bridge	\$ 9,554
FY 2003-04	City of Milpitas	Calaveras Blvd. Sidewalk & Bike Path	\$ 36,895
FY 2003-04	Mountain View	Access Ramp Installation	\$ 24,905
FY 2003-04	Mountain View	Audible Ped. Signal Installations	\$ 16,500
FY 2003-04	Mountain View	Bicycle Path Construction	\$ 13,113
FY 2003-04	Palo Alto	Baffle Replacements: Calif. Ave.	\$ 15,993
FY 2003-04	Palo Alto	Homer Ave. Ped. Bicycle Undercrossing	\$ 293,000
FY 2003-04	Palo Alto	Ped. Walkway Lighted Warning System	\$ 20,000
FY 2003-04	City of San Jose	ADA Wheel Chair Curb & Ramp Install.	\$ 100,000
FY 2003-04	City of San Jose	Certified TDA Fiscal Audit	\$ 9,000
FY 2003-04	City of San Jose	Murdock Park Bridge over San Tomas	\$ 100,000
FY 2003-04	City of San Jose	Ped & Bike Facility Signing & Striping	\$ 100,000
FY 2003-04	City of San Jose	Ped & Bike Safety Education	\$ 50,000
FY 2003-04	City of San Jose	Pedro Street Sidewalk Improvement	\$ 124,434
FY 2003-04	City of San Jose	Street Sidewalk Improvement	\$ 147,435
FY 2003-04	City of Santa Clara	Certified TDA Fiscal Audit	\$ 5,000
FY 2003-04	City of Santa Clara	Install Bike & Ped. Improvements	\$ 61,815
FY 2003-04	City of Santa Clara	Update City's Existing Bike Plan &	\$ 3,900
FY 2003-04	Santa Clara County	Bike Detector @ various Intersections	\$ 58,118

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	SPONSOR	PROJECT NAME	AMOUNT
FY 2003-04	Santa Clara County	Path along McKee Rd. bet Staples Ave.	\$ 50,000
FY 2003-04	City of Saratoga	Saratoga Avenue Walkway Project	\$ 17,254
FY 2003-04	City of Sunnyvale	Calabazas Creek Trail	\$ 50,152
FY 2003-04	San Francisco City and County	Bicycle Projects	\$ 404,000
FY 2003-04	San Francisco City and County	Pedestrian Projects	\$ 300,000
FY 2003-04	City of Half Moon Bay	Construct Rt. 92 Bicycle Lanes and	\$ 485,146
FY 2003-04	City of Pacifica	Milagra Drive Overcrossing at State	\$ 240,000
FY 2003-04	City of San Bruno	Crystal Springs Rd. Traffic Signal	\$ 20,000
FY 2003-04	City of San Mateo	Bikeway Detection Units	\$ 30,000
FY 2003-04	City of San Mateo	Regional Bayfront Trail Upgrade	\$ 150,000
FY 2003-04	South San Francisco	Construct San Francisco Bay Trail	\$ 100,000
FY 2003-04	South San Francisco	Orange Avenue Intersection Improve.	\$ 100,000
FY 2003-04	City of Benicia	Park Road Bike/Ped Improvements	\$ 160,000
FY 2003-04	Solano County	Dixon to Davis Bike Route	\$ 125,000
FY 2003-04	City of Suisun City	Central County Bikeway	\$ 25,000
FY 2003-04	City of Healdsburg	Foss Creek Northwestern Pacific Multi-	\$ 99,695
FY 2003-04	City of Petaluma	Washington Creek Multi-Use Path	\$ 175,000
FY 2003-04	City of Santa Rosa	Sonoma Ave. Bike Lanes Phase II	\$ 50,000
FY 2003-04	Sonoma County	Old Redwood Highway Class II Bike Lanes	\$ 350,000
FY 2004-05	Alameda County	Conduct a planning study & develop	\$ 38,000
FY 2004-05	Alameda County	Conduct bicycle plan study	\$ 59,650
FY 2004-05	Alameda County	Sign & stripe 0.6 miles of 6-foot wide	\$ 100,000
FY 2004-05	City of Berkeley	Contract with a qualified consultant	\$ 34,281
FY 2004-05	City of Berkeley	Educate children about bicycle safety	\$ 30,000
FY 2004-05	City of Fremont	Stripe bike lanes, modify bike lane	\$ 121,168
FY 2004-05	City of Hayward	Design & construct ADA wheel chair	\$ 88,925
FY 2004-05	City of Newark	Design & construct ADA wheel chair	\$ 27,009
FY 2004-05	City of Piedmont	Design & construct ADA wheel chair	\$ 6,852
FY 2004-05	City of Pleasanton	Preserve Golf Course	\$ 75,000
FY 2004-05	City of San Leandro	Install curb ramps, accessible ped.	\$ 41,438
FY 2004-05	City of San Leandro	Install curb ramps, accessible ped.	\$ 50,024
FY 2004-05	City of San Leandro	Install curb ramps, accessible ped.	\$ 8,000
FY 2004-05	City of Antioch	Improve curbs, ramps, crosswalk, signs	\$ 80,000
FY 2004-05	City of Brentwood	Install lighted crosswalk and flashing lights	\$ 31,500
FY 2004-05	City of Concord	Construct 500 ft of 4-to 6-foot wide bike/ped path	\$ 45,000
FY 2004-05	City of El Cerrito	Conduct a planning study for bicycle/ped needs	\$ 26,500
FY 2004-05	City of Lafayette	Construct 125 feet of 5-foot wide	\$ 10,000
FY 2004-05	City of Martinez	Replace the two existing unsafe bridges	\$ 90,000
FY 2004-05	City of Orinda	Develop a Lamorinda Trail Map & install	\$ 28,500
FY 2004-05	City of Pittsburg	Construct Class II and Class III	\$ 51,000
FY 2004-05	City of Pittsburg	Sign & stripe 3600 feet of 13-foot wide	\$ 52,000
FY 2004-05	City of San Pablo	Install bike/ped friendly lighting	\$ 45,100
FY 2004-05	City of Walnut Creek	Construct 2040 feet of asphalt walkway	\$ 95,000
FY 2004-05	Contra Costa County	Construct 344 feet of 4.5-foot wide bike/ped path	\$ 201,000
FY 2004-05	Contra Costa County	Construct 402 feet of 5-foot wide bike/ped path	\$ 158,928
FY 2004-05	Contra Costa County	Provide bicycle & pedestrian safety	\$ 20,000
FY 2004-05	City of San Rafael	Construct 6' wide sidewalk & stripe	\$ 207,710
FY 2004-05	City of Sausalito	Construct 6' wide sidewalk & stripe	\$ 186,290
FY 2004-05	City of Calistoga	Construct 1.0 miles of Class I bike-ped path	\$ 270,881
FY 2004-05	City of Napa	Construct 2.0 miles of Class I bikeway	\$ 149,727
FY 2004-05	City of Campbell	Construct Class II bike lockers at J.D.	\$ 24,308
FY 2004-05	City of Campbell	Widen & regrade bicycle/Pedestrian	\$ 515,600
FY 2004-05	City of Cupertino	Construct 1030' bike path	\$ 107,622
FY 2004-05	City of Gilroy	Complete 881' of Uvas Creek Class I	\$ 50,000
FY 2004-05	City of Gilroy	Refurbish & replace bikeway signs, etc	\$ 10,611

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	SPONSOR	PROJECT NAME	AMOUNT
FY 2004-05	City of Gilroy	Rehabilitate, resurface & stripe 2.5 mile path	\$ 60,666
FY 2004-05	City of Los Altos	Construct approx. 300' of concrete bike path	\$ 27,354
FY 2004-05	City of Los Altos	Replace approx. 2,800 lineal feet of bike path	\$ 17,580
FY 2004-05	City of Los Gatos	Design & construct solution to restore path	\$ 35,000
FY 2004-05	City of Morgan Hill	Install bicycle sensitive detector	\$ 36,000
FY 2004-05	City of Mountain View	Install countdown pedestrian signals	\$ 30,000
FY 2004-05	City of Mountain View	Install curb access ramps at Showers	\$ 2,381
FY 2004-05	City of Mountain View	Install curb access ramps at various	\$ 15,696
FY 2004-05	City of Mountain View	Purchase & install 14 bicycle lockers	\$ 14,506
FY 2004-05	City of Palo Alto	Construct raised pavement pedestrian path	\$ 50,000
FY 2004-05	City of San Jose	Construct 0.66 miles of Class I paved path	\$ 712,131
FY 2004-05	City of San Jose	Design & construct ADA wheel chair improvement	\$ 176,068
FY 2004-05	City of San Jose	Design & construct sidewalk for school	\$ 36,000
FY 2004-05	City of San Jose	Design & install 12' wide asphalt path	\$ 136,821
FY 2004-05	City of San Jose	Install median island ped. Refuge	\$ 185,000
FY 2004-05	City of San Jose	Install sidewalk, ADA curb ramps	\$ 90,000
FY 2004-05	City of San Jose	Provide bicycle & pedestrian safety	\$ 50,000
FY 2004-05	City of San Jose	Stripe crosswalks, paint pavements	\$ 100,000
FY 2004-05	City of Santa Clara	Perform an annual transportation	\$ 5,000
FY 2004-05	City of Santa Clara	Stripe crosswalks & paint pavements	\$ 62,148
FY 2004-05	City of Saratoga	Install continuous curb & gutter	\$ 19,357
FY 2004-05	City of Sunnyvale	Provide gates, signs, fencing and ramps	\$ 27,550
FY 2004-05	Santa Clara County	Construct a 3,300' by 5' walkway	\$ 63,403
FY 2004-05	Santa Clara County	Sign & restripe 8" stripe on shoulders	\$ 121,105
FY 2004-05	SF City/County	Bicycle safety brochures, maps, public education	\$ 31,500
FY 2004-05	SF City/County	Prelim. engineering (plan & design) of bike path	\$ 200,000
FY 2004-05	SF City/County	Purchase & install bicycle racks	\$ 95,000
FY 2004-05	SF City/County	Repair public sidewalks at various locations	\$ 115,000
FY 2004-05	SF City/County	Stripe & sign Class II bike lanes	\$ 188,500
FY 2004-05	City of Benicia	Final design plans, specs & estimate	\$ 124,573
FY 2004-05	City of Suisun City	Constr. 10' wide concrete bike path	\$ 86,000
FY 2004-05	City of Vacaville, Transit	Construct 3400 feet of Class I bike/Ped path	\$ 148,738
FY 2004-05	Solano Transportation Authority (STA)	Build bridge adjacent to existing path	\$ 76,000
FY 2004-05	City of Petaluma	Construction of pedestrian & bicycle path	\$ 54,876
FY 2004-05	City of Rohnert Park	Install 80' long bicycle & pedestrian path	\$ 160,000
FY 2004-05	City of Santa Rosa	Install directional signage & ADA signs	\$ 18,900
FY 2004-05	County of Sonoma	Construct 1.5 miles of Class I Bikeway	\$ 160,000
FY 2004-05	County of Sonoma	Conduct bicycle safety education workshop	\$ 10,000
FY 2004-05	County of Sonoma	Install 27 "Share Road" bicycle sign	\$ 15,000
FY 2004-05	County of Sonoma	Purchase 37 front loading bicycle	\$ 5,000
FY 2005-06	San Carlos	Class II bike lanes on Alameda de Las Pulgas and on Brittan Avenue; Class III bike lanes on Old County Road	\$ 20,000
FY 2005-06	San Mateo	Design of a pedestrian and bicycle bridge in the vicinity of the Hillsdale interchange of highway U.S. 101	\$ 100,000
FY 2005-06	South San Francisco	Bicycle and pedestrian crosswalk and signals at intersection of Spruce Ave. and South San Francisco Linear Park	\$ 150,000
FY 2005-06	Half Moon Bay	Construct 6600 foot Class I trail in the right of way of Highway 1 between Highway 92 and Higgins Purisima Rd.	\$ 220,000
FY 2005-06	Brisbane	Install 45 feet by 8 feet asphalt cement path adjacent to Shoreline Court; sign and restripe existing Class II bikeway	\$ 25,739

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	SPONSOR	PROJECT NAME	AMOUNT
FY 2005-06	South San Francisco	Construct 363 feet by 12 feet asphalt bicycle and pedestrian trail near the Oyster Point Marina	\$ 36,000
FY 2005-06	San Bruno	Construct a Class II bike lane in both directions of Sneath Lane from El Camino Real to Skyline Boulevard	\$ 60,000
FY 2005-06	Daly City	Install bike lanes on Callan Blvd from King Dr to Serramonte Blvd and along Serramonte Boulevard	\$ 82,000
FY 2005-06	Burlingame	Install bike lane directional signs at 52 locations along north-south bicycle routes throughout the city	\$ 17,400
FY 2005-06	Burlingame	Install an in-pavement lighted crosswalk system across Carolan Avenue at Morrell Avenue, including new push buttons	\$ 30,000
FY 2005-06	Menlo Park	Install video detection for bikes at 3 intersections: Willow at Middlefield, Marsh at Bohannon, Marsh at Bay	\$ 44,000
FY 2005-06	San Mateo	Install bridge railing fencing on the north side of the Nineteenth Avenue Bridge over highway U.S. 101	\$ 50,000
FY 2005-06	Menlo Park	Create bicycle lanes on Bay Road between Berkeley Avenue and Willow Road, plus signage	\$ 13,600
FY 2005-06	San Mateo	Install bike detection loops at: 3rd + Claremont, 3rd + Delaware, 4th + Claremont, 4th + Delaware	\$ 40,000
FY 2005-06	Daly City	Install in-pavement lights and warning signs: Park Plaza Dr. north of Belmar, and Mission St. at Evergreen Ave.	\$ 120,000
FY 2005-06	San Mateo	Install pedestrian countdown signal heads at 27 existing signalized intersections throughout the city	\$ 50,000
FY 2005-06	Daly City	Install pedestrian countdown signal heads at 15 signalized intersections; and audible warnings at 11 of them	\$ 20,000
FY 2005-06	Burlingame	Install pedestrian countdown signal heads with audible pedestrian warnings at 8 signalized intersections	\$ 30,900
FY 2005-06	Menlo Park	Create bicycle lanes on Middlefield Road between Willow Road and San Francisquito Creek	\$ 2,400
FY 2005-06	San Mateo	Install in-pavement lighted crosswalks: 5th Ave. at Central Park; Bovet Rd. betw. Borel Ave. and El Camino Real	\$ 110,000
FY 2005-06	South San Francisco	Install pedestrian countdown signal heads at 12 existing signalized intersections throughout the city	\$ 22,000
FY 2005-06	County of San Mateo	Bike detection loops, countdown signal heads with audible warnings, upgrade pedestrian signal actuators	\$ 80,509
FY 2005-06	Sebastopol	Construct .5 mile Class I trail between Joe Rodota trail and Sebastopol Avenue and Morris Street intersection	\$ 51,356
FY 2005-06	Santa Rosa	Construct connector ramp between Joe Rodota trail and Pierson Reach of Prince Memorial Greenway trail	\$ 350,000
FY 2005-06	Windsor	Construct a 950 foot Class I trail within Keiser Park, including bridge crossing a tributary of Starr Creek	\$ 112,000

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	<b>SPONSOR</b>	<b>PROJECT NAME</b>	<b>AMOUNT</b>
FY 2005-06	Contra Costa County, Health Services	Provide bicycle and pedestrian safety education to low-income county residents, particularly children	\$ 20,000
FY 2005-06	Concord	Constr't 500 foot Class I trail adjacent to Galindo Crk. + Ygnacio Valley Rd betw. Alberta Way + Pebble Glen Dr	\$ 60,000
FY 2005-06	Lafayette	1030 feet x 5 feet sidewalk Sweet Dr. betw Walnut + Woodview; Woodview Dr. betw. St Mary's + Sweet Drive	\$ 110,000
FY 2005-06	Antioch	Construct curb ramps and sidewalks at Hillcrest Avenue, Somersville Road, "G" Street, and Dallas Ranch Road	\$ 110,000
FY 2005-06	Brentwood	Install pedestrian countdown signal heads + large diameter pedestrian push buttons at 12 signalized intersections	\$ 66,000
FY 2005-06	Contra Costa County, Public Works	Construct 240 feet x 5 feet sidewalk and curb ramps on Camino Tassajara and on Hansen Lane	\$ 20,000
FY 2005-06	Orinda	Replace 12 existing non-compliant curb ramps in downtown Orinda with ADA compliant ramps	\$ 45,000
FY 2005-06	San Pablo	Install in-pavement lighted crosswalks: Market Avenue at 21st St.; 23rd St. at Wilcox Ave.; 23rd St. at Stanford Ave.	\$ 180,000
FY 2005-06	Brentwood	Restripe Minnesota Ave. bike lane; install lighted crosswalk; construct 1300 feet of sidewalk, curb and gutter	\$ 31,000
FY 2005-06	San Francisco	Public sidewalk repair and reconstruction	\$ 180,000
FY 2005-06	San Francisco	Preliminary engineering of curb ramps	\$ 270,000
FY 2005-06	San Francisco	Safety brochures, maps, public outreach concerning bicycle pavement arrows, hotline, and bicycle safety advertising	\$ 45,000
FY 2005-06	San Francisco	Purchase and install bicycle racks at various locations in San Francisco as requested by the public	\$ 100,000
FY 2005-06	San Francisco	Stripe and sign bike lanes: Conservatory Drive East, San Jose Avenue ramps, Townsend Street, and elsewhere	\$ 305,000
FY 2005-06	Berkeley	Bicycle & Pedestrian Injury Prevention Program	\$ 30,000
FY 2005-06	Berkeley	Ninth Street Bicycle Boulevard extension (Project from FY01/02)	\$ 135,000
FY 2005-06	Oakland	ADA Compliant Wheelchair Accessible Ramps (Project Completed FY01/02)	\$ 294,548
FY 2005-06	Oakland	Laurel Pedestrian Project, Phase I (Project Completed FY01/02)	\$ 200,000
FY 2005-06	Oakland	MacArthur Blvd. Bicycle Lane Design (Project Completed FY01/02)	\$ 55,000
FY 2005-06	Oakland	Grand Avenue Transit and Pedestrian Improvements (Project from FY 04/05)	\$ 245,847
FY 2005-06	Oakland	ADA Compliant Wheelchair Accessible Ramps Program	\$ 121,144
FY 2005-06	Oakland	Market Street Bikeway	\$ 165,000
FY 2005-06	Oakland	Bancroft Bikeway Gap Closures	\$ 25,000
FY 2005-06	Piedmont	ADA Wheelchair Accessible Ramps and Pedestrian enhancements at Rose/Arroyo & Grand Ave	\$ 8,353
FY 2005-06	Hayward	ADA Wheelchair Accessible Ramps	\$ 109,309



**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	SPONSOR	PROJECT NAME	AMOUNT
FY 2005-06	San Leandro	Pedestrian Accessibility Improvements & Sidewalk Gap Closures	\$ 74,177
FY 2005-06	Fremont	Citywide ADA Compliant Wheelchair Accessible Ramps	\$ 158,067
FY 2005-06	Newark	History Center Complex Sidewalks and ADA Wheelchair Accessible Ramps	\$ 33,072
FY 2005-06	Union City	San Francisco Bay Trail Specific Plan (Project Completed FY01/02)	\$ 63,585
FY 2005-06	Dublin	Bicycle Master Plan	\$ 45,144
FY 2005-06	Livermore	Chestnut and N. P Street Bicycle Lanes	\$ 113,044
FY 2005-06	Alameda Co. Congestion Management Agency	Alameda Countywide Bicycle Master Plan	\$ 20,000
FY 2005-06	County of Alameda	Pedestrian Safety Improvements in the vicinity of Schools	\$ 75,775
FY 2005-06	County of Alameda	Pedestrian Safety Improvement Projects - Sidewalk Improvements	\$ 75,600
FY 2005-06	County of Alameda	Restriping Bicycle Lanes Along Various Roadways	\$ 30,000
FY 2005-06	Benicia	Stripe and sign bike lanes: Military East between East 5th Street and Park Road	\$ 25,000
FY 2005-06	Fairfield	Design McGary Road segment of Solano Bikeway Extension and complete extension feasibility study	\$ 100,000
FY 2005-06	Suisun City	Construct curb ramps and sidewalks at Whispering Bay Lane and Francisco Dr.	\$ 5,400
FY 2005-06	Suisun City	Replace existing non-compliant curb ramps in downtown Suisun City with ADA compliant ramps	\$ 11,856
FY 2005-06	Solano County	Reconstruct deck and railings, seismic retrofit, lighting and pathways to railroad trestle bridge over Putah Creek	\$ 180,000
FY 2005-06	Campbell	Implement bike lanes on Harriet Ave and Union Ave, Replace Los Gatos creek bridge, and widen Campbell Ave bridge	\$ 27,859
FY 2005-06	Campbell	Design and construct sidewalk and bike lanes and edge striping, curb and gutter along Westmont Avenue	\$ 39,992
FY 2005-06	Campbell	Widen Campbell Ave. bridge over Los Gatos Creek for bike lane and sidewalk; and reconstruct sidewalk under SR 17	\$ 240,000
FY 2005-06	Cupertino	Construct pedestrian and bicycle bridge across Interstate 280 along Mary Avenue between Homestead Rd and Meteor Dr	\$ 38,361
FY 2005-06	Los Altos Hills	Replace pedestrian bridge adjacent to the Foothill College entrance road connecting to El Monte Road	\$ 11,310
FY 2005-06	Los Gatos	Replace existing College Avenue sidewalk and fencing; and repair Los Gatos Creek Trail footbridge decking	\$ 20,000
FY 2005-06	Milpitas	Install ADA pedestrian ramps with truncated dome landings along suggested routes to schools	\$ 47,112
FY 2005-06	Morgan Hill	Identify where additional bicycle and pedestrian trails can be established adjacent to creeks and streams	\$ 32,000
FY 2005-06	Mountain View	Bicycle boulevard from Mayfield Mall area to Stevens Creek Trail, including signs, markings and signal modifications	\$ 25,000

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	SPONSOR	PROJECT NAME	AMOUNT
FY 2005-06	Mountain View	ADA Compliant Wheelchair Accessible Ramps Program	\$ 17,000
FY 2005-06	Mountain View	Produce bicycle and pedestrian education and awareness materials, and a new bike map and multilingual flyers	\$ 5,000
FY 2005-06	Mountain View	Install "bikes wrong way" signs on existing poles along California Street and adjacent streets	\$ 5,217
FY 2005-06	Palo Alto	Bicycle boulevard along Maybell Ave and Donald Dr.: signs, markings, speed tables, & median refuge islands	\$ 75,000
FY 2005-06	San Jose	Install sidewalk, curb and gutter to improve access to Lynhaven Elementary School	\$ 90,000
FY 2005-06	San Jose	Install sidewalk, curb and gutter to fill gap on Borina Ave. at Saratoga Ave.	\$ 70,000
FY 2005-06	San Jose	Install sidewalk, curb and gutter to improve access on both sides of Yerba Buena Road at Thompson Creek	\$ 47,000
FY 2005-06	San Jose	Install sidewalk, curb, gutter and ADA ramps on Carola Avenue at Clarita Avenue	\$ 110,000
FY 2005-06	San Jose	Install sidewalk, curb, gutter, pedestrian crossing and median island to provide access to Penitencia Creek County Park	\$ 62,000
FY 2005-06	San Jose	Install sidewalk, curb and gutter on Senter Road at Burke Street	\$ 58,000
FY 2005-06	San Jose	Install sidewalk, curb and gutter to improve access to Toyon Elementary School	\$ 45,000
FY 2005-06	San Jose	Citywide ADA Compliant Wheelchair Accessible Ramps	\$ 100,000
FY 2005-06	San Jose	Sign and stripe bicycle and pedestrian facilities, including bike lanes, bike routes, crosswalks, and bike paths	\$ 58,397
FY 2005-06	San Jose	Provide bicycle and pedestrian safety education to elementary school children and adults, purchase educational material	\$ 35,000
FY 2005-06	Santa Clara	Install and maintain bicycle and pedestrian facilities, including bike lanes, bike routes, crosswalks, and bike paths	\$ 78,180
FY 2005-06	Saratoga	Acquire right-of-way to upgrade UPRR railroad crossing in a bulb configuration to allow bicycles to cross at 90 degrees	\$ 95,000
FY 2005-06	Sunnyvale	Improve Calabazas Creek Trail with additional gates, signs, fences, ramp modifications, and a bridge across creek	\$ 182,048
FY 2005-06	County of Santa Clara	Restripe four co. expressways' shoulders with 8 inch stripes and sign to allow functioning as bicycle shoulder	\$ 50,000
FY 2005-06	Brentwood	Crosswalk and sidewalk improvements on Minnesota Avenue between Deer Creek and Sand Creek	\$ 31,000
FY 2005-06	Union City	Construct 1750 feet by 15 feet textured decorative concrete sidewalks plus 5 foot bike lanes on both sides of 11th Street	\$ 53,142
FY 2005-06	TAM	Update and complete bicycle and pedestrian master plans countywide and for cities and towns in Marin County	\$ 160,000

**TCM B: Bicycle/Pedestrian Program**  
**TDA ARTICLE 3 [Transportation Development Act Funds for Bicycle and Pedestrian Projects]**

	<b>SPONSOR</b>	<b>PROJECT NAME</b>	<b>AMOUNT</b>
FY 2005-06	Campbell	Construct bike lanes on Harriet Avenue north of Westmont Avenue and on Union Avenue south of Campbell Avenue	\$ 24,308
FY 2005-06	Larkspur	Design + construct 13 ft wide Class I bike/pedestrian path and modify signals on Magnolia Ave. + Doherty Dr	\$ 136,668
FY 2005-06	County of San Mateo	Develop bike route data for GIS, integrate into countywide GIS files, and maintain bike route GIS data	\$ 40,000
FY 2005-06	City of Napa	Class I path along Napa Valley Wine Train right of way between Redwood Rd/SR 29 and Vallejo St/Soscol Av	\$ 85,271
FY 2005-06	American Canyon	Construct bike lanes and Class I trail adjacent to Commerce Boulevard	\$ 34,729
		<b>Total</b>	<b>\$ 21,785,915</b>

**TCM C: Transportation for Livable Communities**

**FY 2004-05 MTC TLC Planning Program**

<b>Project Sponsor</b>	<b>Project Title</b>	<b>TLC Grant</b>
Alameda County		
City of Oakland	Revitalizing Foothill / Seminary: A Model for Oakland's Regional Transit Streets	\$ 75,000
City of Berkeley	Downtown Berkeley BART Plaza and Transit Area	\$ 75,000
Contra Costa County		
City of Lafayette	BART-Downtown Lafayette Pedestrian Linkages Project	\$ 20,000
San Francisco County		
San Jose/Guerrero Coalition to Save Our Streets	The San Jose/Guerrero Neighborhood Plan	\$ 75,000
San Mateo County		
Redwood City	Transit Station Sub-area Precise Plan	\$ 71,760
SamTrans	Transforming the El Camino Real to Link Caltrain Stations with Vibrant Downtowns in Redwood City, San Carlos and Belmont	\$ 63,840
Santa Clara County		
City of Sunnyvale	Murphy Avenue Streetscape Revitalization	\$ 75,000
Sonoma County		
City of Santa Rosa	Downtown Pedestrian Linkages Study	\$ 44,400
	<b>Total</b>	<b>\$ 500,000</b>

**FY 2004-05 MTC TLC Capital Program**

<b>Project Sponsor</b>	<b>Project Title</b>	<b>TLC Grant</b>
City of Oakland, CEDA	Revive Chinatown – Phase 1	\$ 2,200,000
City of Union City Public Works Dept.	Union City Intermodal Station –Pedestrian connections and New East Plaza	\$ 1,124,000
Richmond Redevelopment Agency	Richmond Transit Village: Intermodal Transit Station	\$ 1,581,000
County of Marin	Cal-Park Hill Tunnel Rehab and Class I Bikeway	\$ 1,500,000
City of Gilroy	Monterey Streetscape Improvements – Fourth Street to Sixth Street	\$ 2,500,000
City of Morgan Hill	Morgan Hill – Depot Street Capital Improvements	\$ 2,627,000
Bay Area Rapid Transit District	Daly City BART- St. Charles Pedestrian & Bike Project	\$ 501,000
City & Co. of San Francisco Dept. of Public Works	Broadway Streetscape Improvements Project – Phase II	\$ 2,000,000
City of South San Francisco	BART Linear Park-Huntington Avenue to Orange Avenue	\$ 1,933,000
City of Vallejo	Vallejo Station Pedestrian Links	\$ 2,071,000
City of Petaluma/Eden Housing Inc.	Downtown River Apts Riverwalk and Streetscape Improvements	\$ 358,000
	<b>Total</b>	<b>\$ 18,394,000</b>

**Contingency Projects**

City of Union City Public Works Dept.	Union City Intermodal Station – West Plaza Enhancements	\$ 1,713,500
City of Oakland, CEDA	MacArthur Transit Hub Streetscape Improvement Project	\$ 1,918,000
Town of Los Gatos Parks & Public Works Dept.	Streetscape & Gateway	\$ 2,400,000
City of San Leandro Community Dev. Dept.	East 14 <sup>th</sup> Street South Area Revitalization Project – La Palma District	\$ 1,600,000
County of Contra Costa Redevelopment Agency	North Richmond Third Street Upgrades	\$ 1,966,000

**TCM C: Transportation for Livable Communities**

**FY 2005-06 Marin County TLC Capital Program**

<b>Project Sponsor</b>	<b>Project Title</b>	<b>TLC Grant</b>
Town of Fairfax	Center Boulevard Streetscape Redesign Project	\$ 500,000
County of Marin	Fireside Pedestrian and Traffic Safety Project	\$ 198,906
Town of Corte Madera	Bayside Trail Improvement Project	\$ 371,826
<b>Total</b>		<b>\$ 1,070,732</b>

**FY 2005-06 Alameda County TLC Capital Program**

<b>Project Sponsor</b>	<b>Project Title</b>	<b>TLC Grant</b>
City of Oakland	Coliseum BART Streetscape	\$ 500,000
City of Oakland	Oakland Coliseum Pedestrian Walkway	\$ 885,000
City of Oakland	W. Oakland Transit Village Streetscape Project	\$ 1,300,000
City of Oakland	MacArthur Entry Plaza & 40th Streetscape Project	\$ 1,147,000
City of Berkeley	Ashby/Ed Roberts Bicycle/Pedestrian Improvements	\$ 1,200,000
City of Union City	Pedestrian/Bicycle Improvements	\$ 2,000,000
<b>Total</b>		<b>\$ 7,032,000</b>

**FY 2005-06 Sonoma County TLC Capital Program**

<b>Project Sponsor</b>	<b>Project Title</b>	<b>TLC Grant</b>
City of Petaluma	Petaluma Blvd. Pedestrian Enhancements	\$ 485,000
City of Rohnert Park	Rohnert Park City Center Drive Improvements	\$ 1,150,000
Town of Windsor	Windsor Pedestrian Enhancements & Traffic Calming	\$ 235,000
Sonoma County Reg'l Parks	Sonoma County Santa Rosa Creek Trail	\$ 550,000
Town of Windsor	Windsor Old Redwood Hwy Pedestrian Linkages	\$ 338,000
Sonoma County Reg'l Parks	Sonoma County Bodega Bay Bicycle & Pedestrian Trail	\$ 535,000
City of Santa Rosa	Santa Rosa Courthouse Square Off-Site Improvements & Gateway Street	\$ 1,000,000
<b>Total</b>		<b>\$ 4,293,000</b>

<b>Grand Total</b>	<b>\$ 31,289,732</b>
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## **TCM D: Additional Freeway Service Patrol**

The Bay Area FSP is a joint project of the Metropolitan Transportation Commission Service Authority for Freeways and Expressways (MTC SAFE), the California Highway Patrol (CHP) and the California Department of Transportation (Caltrans). The service is provided by private tow truck companies, selected through a competitive bid process, under contract to MTC SAFE. During the hours of operation, the vehicles and drivers are exclusively dedicated to patrolling their freeway beat. The program is intended to augment the MTC SAFE network of motorist-aid call boxes in the nine Bay Area counties.

### **Current Profile** (as of February 2009)

A fleet of 83 trucks patrols some 550 miles of the Bay Area's freeways. Patrol routes are selected based on several factors, including a high rate of traffic and congestion, frequent accidents or stalls, and lack of shoulder space for disabled vehicles.

The FSP tow trucks operate primarily during morning and afternoon commute hours, generally from 6 a.m. to 9 a.m. or 10 a.m. and from 3 p.m. to 6 p.m. or 7 p.m., Monday through Friday. Weekend service is provided in Napa, as well as seasonally along Highway 17, and in some other locations on Sunday.

FSP tow trucks are equipped for nearly any contingency. In addition to the standard auto repair and towing equipment, they carry 5 gallons of diesel fuel, 5 gallons of unleaded gasoline, and 5 gallons of water, as well as an external speaker and public address system.

### **Funding**

The tow trucks are financed with federal, state and local moneys. Local funds come from the MTC SAFE, which is financed by a \$1 annual vehicle registration fee in participating counties. The service costs approximately \$7 million a year to operate. Another \$2 million is invested in sophisticated communications equipment, including an automatic vehicle location system that enables CHP and Caltrans to monitor the location of the trucks and improve dispatching efficiency.

### **Implementation Plan**

See the attached Implementation Plan, which is also available at:  
[http://www.fsp-bayarea.org/implementation\\_plan/lplan.pdf](http://www.fsp-bayarea.org/implementation_plan/lplan.pdf)

**BAY AREA FREEWAY SERVICE PATROL PROGRAM  
IMPLEMENTATION PLAN**

BEAT ID	CONTRACTOR	LOCATION		BEAT LIMITS	CALTRANS ONE WAY LENGTH (IN MILES)	START DATE	ENDING DATE	WEEKDAYS			SUNDAY PM SHIFT	# OF TOW TRUCKS	# OF PICKUP TRUCKS	# OF FLATBED TRUCKS	# OF BACKUP TRUCK	NOTES	TOTAL CONTRACT HOURS	BEAT ID
		COUNTY	ROUTE					AM SHIFT	MIDDAY SHIFT	PM SHIFT								
1	Redhill Towing	ALA	980	Interstate 580 to Interstate 880	2.03	07/01/07	07/26/09	6:00-10:00		15:00-18:30	13:00-19:00	2	1			b	12,395	1
		ALA	880	7th Street to Jackson Street	2.04													
		ALA	24	Interstate 580 to Contra Costa County Line	4.39													
		CC	24	Contra Costa County Line to Oak Hill Road	6.25													
		CC/ALA	13	State Route 24 to Redwood Avenue	(4.23)													
2	A-One Towing Service	ALA	80	Powell Street to Contra Costa County Line	4.25	07/01/07	07/26/09	6:00-10:00	10:00-15:00	15:00-19:00	13:00 - 19:00	2	1		1	a, b, c	15,755	2
		CC	80	Alameda County Line to San Pablo Dam Road	4.34													
		ALA/CC	580	Interstate 80 to Western Drive/Pt. Molate	6.01													
3	Palace Garage	ALA	880	Alvarado-Niles Road to State Route 238	7.66	06/25/07	06/26/11	06:00-10:00		15:00-19:00	13:00-19:00	2				b,c	17,132	3
		ALA	92	Interstate 880 to Clawiter Road	1.91													
4	Palace Garage	ALA	880	Broadway to State Route 238	10.55	07/01/07	07/26/09	6:00-10:00		15:00-19:00	13:00-19:00	2	1			b	13,170	4
		ALA	238	Interstate 880 to Interstate 580	2.11													
5	K&S Tow	CC	680	Stone Valley Road to Marina Vista Road	13.89	07/02/07	07/04/11	06:00-09:00		14:00-18:30		2	1	1		b	22,523	5
		CC	24	Oak Hill Road U/C to Interstate 680	2.87													
6	B&A Body Works & Towing	SM	101	State Route 92 to SF City Limit/101 to Foster City Boulevard	14.23	07/01/07	07/05/09	6:00-10:00	10:00-15:00	15:00-19:00		2	2			a, b	18,754	6
		SM	92	Interstate 101 to Foster City Boulevard	1.47													
7	Redhill Towing	MRN	101	Alexander to 3rd Street/Irwin Street (Central San Rafael Exit)	10.28	07/03/05	07/06/08	6:00-10:00		15:00-19:00	13:00 - 19:00	2			1	b, c	13,090	7
		MRN	580	Highway 101 to Interstate 580 San Quentin	1.60													
8	Campbell's Towing	SCL	101	Blossom Hill Road to Ellis Street	18.40	07/01/07	07/05/09	6:00-10:00		15:00-19:00	13:00 - 19:00	2	2		1	b, c	16,808	8
		SCL	237	Highway 101 to Lawrence Expressway	2.12													
9	Campbell's Towing	SCL	280	Interstate 680/Highway 101 to Foothill Exp.	11.45	06/11/07	06/10/11	6:00-10:00		15:00-19:00		3	1	1		b	32,032	9
		SCL	85	Junction Route 280 to El Camino Real	3.3													
		SCL	87	State Route 85 to Hwy. 101	9.22													
10	Sunrise Enterprise 87	SCL-SM	101	Ellis Street to State Route 92	17.44	06/11/07	06/10/11	6:00-10:00		15:00-19:00		2	1			a, b	24,024	10
		SCL	92	Junction Route 101 to El Camino Real	0.93													
11	B&A Body Works & Towing	SF	101	Cesar Chavez to San Mateo Co. Line	2.92	06/11/07	06/12/11	6:00-10:00	10:00-15:00	15:00-19:00	10:00-16:00	2				a, b, c	22,473	11
		SF	280	San Mateo Co. Line to Highway 101	4.34													
		SM	101	Harvey Way to San Francisco Co. Line	0.41													
		SM	280	Geneva/Ocean Avenue to San Francisco Co. Line	1.77													
		SF	280	Highway 101/Interstate 280 Interchange to Sixth Street	(3.2)													
		SF	80	Cesar Chavez to Interstate 80/Fourth Street	(1.5)													
		SF	80	San Pablo Dam Road to Cummings Skyway	8.39	07/09/07	07/10/11	6:00-10:00	10:00-15:00	15:00-19:00	13:00-19:00	2			a, b, c	22,473	12	
CC	80	San Pablo Dam Road to Cummings Skyway	8.39															
13	Bill's Towing	MRN	101	Interstate 580 to Junction Route 37	9.13	06/25/07	06/26/11	6:00-10:00		14:30-18:30	13:30-18:30	2				b, c	17,282	13
14	All Ways Tow & Transport	ALA	880	Mowry Avenue to Alvarado Niles Road	5.84	07/01/07	07/24/09	6:00-10:00		15:00-19:00		2				b	8,272	14
		ALA	84	Thornton Avenue to Interstate 880	2.26													
15	Yarbrough Bros. Towing	SON	101	Wilfred Avenue to River Road	10.8	07/02/07	07/01/11	6:30-9:30		15:30-18:30		1					6,006	15
16	Lima Tow	SCL	17	Junction Route 9 to Summit Road	7.07	07/09/07	07/10/11	6:30-9:30		15:30-18:30	See separate beat 16/SC schedule	1				b, c, f	7,974	16
17	Sierra Hart	SOL	12	Interstate 80 to Napa Co. Line	2.95	07/23/07	07/24/11	6:00-10:00		15:00 - 19:00	8:00-16:30 Sat. & Sun.	1 wkdy, 2 wknd			1 wkdy	e	15,573	17
		NAP	12	Napa Co. Line to Sonoma Co. Line	11.60													
		NAP	29	State Route 37 to Oakville Cross Road	24.0													
		SON	12	Sonoma Co. Line to Junction 116	4.90													
		NAP	29	Oakville Cross Road to State Route 128	(1.8)													
18	All Ways Tow & Transport	SCL	880	Junction Route 237 to Alameda County Line	2.08	07/01/07	07/10/09	6:00-10:00		15:00-19:00		2				b	8,112	18
		ALA	880	SCL County Line to Mowry Avenue	7.18													
19	Lima Tow	SCL	880	Junction Route 237 to Junction Route 17	8.42	07/01/07	07/10/09	6:00-9:00		15:00-19:00		2	1			b	10,647	19
		SCL	17	Junction Interstate 880 to Junction Route 9	6.88													
		SCL	237	Junction Interstate 880 to Lawrence Expressway	4.70													
20	Nelson's Tow	SM	280	Geneva/Ocean Avenue to Interstate 380	8.18	07/01/07	07/10/09	6:30-9:30		15:00-18:00		2				b	6,084	20
		SM	380	Interstate 280 to Highway 101	1.67													
21	Matos Towing & Transport	ALA	680	Scott Creek to Alcosta Boulevard	21.35	07/01/07	07/10/09	5:30-9:30		15:00-19:00		1	1	1	1	b	12,168	21
22	Palace Garage	ALA	580	Vasco Road to Santa Rita	8.25	07/23/07	07/24/11	5:30-9:30		15:30-19:00	13:00-19:00	2	1			b, c, d	25,685	22
		ALA	580	Grant Line Road to Vasco Road	8.23													
23	Campbell's Towing	SCL/ALA	680	Highway 101 to Scott Creek Road	10.17	07/01/07	07/10/09	5:30-9:30		15:00-19:00		2				b	8,112	23
24	Roadrunner Tow	SOL	680	Interstate 80 to Junction 780	14.30	07/23/07	07/22/11	6:00-9:00		15:30-18:30		1				g	6,036	24
		SOL	780	Junction 680 to Junction 80	6.42													
25	B&D Towing	CC	4	Hillcrest Avenue to Pacheco Blvd.	20.39	07/01/07	07/17/09	5:30-9:30		15:30-19:00		2	1			b	11,520	25
		CC	242	State Route 4 to Interstate 680	3.4													
26	A-One Tow Service	ALA	580	Harrison Street/Oakland Avenue to Junction Route 238	13.47	07/01/07	07/17/09	6:30-9:30		15:30-18:30		1	1		1	b	6,144	26
		ALA	13	Redwood Avenue to Interstate 380	(0.0)													
27	Palace Garage	ALA	580	Santa Rita Road to Junction 238	12.86	06/25/07	06/26/11	6:00-9:30		15:30-18:30	13:00-19:00	2	1			b,c	21,020	27
28	Bill's Towing	MRN/SON	101	State Route 37 to East Washington Boulevard	13.1	07/01/07	07/17/09	5:30-9:30		15:30-18:30		1				b	3,584	28
29	Roadrunner Tow	SOL	80	Magazine Street to Abernathy Road	14.04	07/09/07	07/10/11	6:00-9:00		15:30-18:30	13:00-19:00	2				b, c, h	15,020	29
30	Nelson's Tow	SM	92	State Route 1 to Highway 280	8.03	07/23/07	07/22/11	6:00-9:30		15:30-18:30		2				b	13,013	30
		SM	280	Interstate 380 to State Route 92	10.20													
		SM	92	Interstate 280 to Highway 101	4.83													
31	Campbell's Towing	SCL	101	Blossom Hill Road to East Dunne Avenue	12.6	07/01/07	07/19/09	6:00-9:00		16:00-19:00	13:00 - 19:00	2				b, c	6,900	31
32	Dick's Automotive Transport	SCL	85	Interstate 280 to Cottle Road	16.48	07/01/07	07/17/09	6:00-9:00		16:00-19:00		2				b	6,144	32
33	Yarbrough Bros. Towing	SON	101	East Washington Boulevard to Wilfred Avenue	10.26	07/24/05	07/20/08	6:00-9:00		15:30-18:30		1				b	4,482	33
34	Vacaville Tow	SOL	80	Abernathy Road to I-505 Vaca Valley Road	12.54	07/09/07	07/10/11	6:00-9:00		15:30-18:30	13:00-19:00	2				b, c, h	15,020	34
35	Palace Garage	CC	680	Alcosta Boulevard to Stone Valley Road	10.36	07/09/07	07/08/11	6:00-9:00		15:00-18:30		1				b	6,507	35
36	Ken Betts Towing	CC	4	Interstate 80 to Pacheco Blvd.	11.8	07/23/07	07/22/11	6:00-9:30		15:30-19:00		1					7,007	36
37	Vacaville Tow	SOL	80	Junction I-505 to Richards Blvd.	16.4	07/23/07	07/24/11	6:00-9:00		15:30-18:30	13:00-19:00	2				b, c, h	15,032	37
					<b>539.67</b>							<b>65 wkdy, 66 wknd</b>	<b>15</b>	<b>2</b>	<b>8 wkdy, 7 wknd</b>	<b>493,973</b>		

## **TCM E: Transit Access to Airports**

### **BART to San Francisco International Airport:**

S. San Francisco: From Colma BART station to the new SFO station; Extend BART system to the San Francisco International Airport.

### **BART Fares and Schedules**

The latest BART fares and schedules (as of January 2008) can be found at:  
<http://www.bart.gov/guide/brochures.aspx>

### **Service Adjustments**

See attached document for service adjustments overtime since June 2003 through December 2006.



# SFO Service Changes Over Time

Below is a list and description of service changes that have been implemented since the San Francisco Extension opening on June 22, 2003 through December 31, 2006. Some of these changes are major system changes. Other changes are more minor involving train sizing.

## June 22, 2003 - SFO Initial Service

Bay Point trains provide service to Millbrae during all hours of operation, all week. Dublin trains provide service to the San Francisco Airport (SFO) during all hours of operation, all week. These routes operate on 15 minute headways during the weekday, and on 20 minute headways during evenings and on weekends. A shuttle train provides service between Millbrae and SFO on 20 minute headways during all hours of operation, all week. In addition to the base 15 minute service, three AM peak period rush trains provide service from Bay Point to Daly City, then operate express from Daly City to SFO. These three trains return during the evening peak period and operate express from SFO to Daly City, then on to Bay Point.

1. Direct service to/from Millbrae and direct service to/from SFO
2. Peak rush trains provide Bay Point line passengers direct service to/from SFO during the peak periods
3. 20 minute shuttle does not synch with the 15 minute base service during the day

## February 9, 2004

Bay Point trains provide direct service to SFO, then continue to Millbrae. On the return trip these trains follow the same route back to Bay Point. This service route has been called the "Reverse L" service because the shape of the service on the SFO extension resembles a backward or reverse "L" shape. During the 3-1/2 hour AM and PM peak period on weekdays, Richmond trains provide direct service to Millbrae, then continue to SFO. On the return trip these trains follow the same route back to Richmond. This service route is referred to as the "L" service. The Richmond trains do not operate on the weekend. When the Richmond trains are operating on the extension during the week the Bay Point trains terminate at SFO and do not continue to Millbrae. At all other times (off-peak, evenings and weekends) the Bay Point trains complete the "Reverse L" service pattern. There are no other direct peak period rush trains. Service during the day (and during the peak rush) is 15 minutes, while evenings and weekends operate at 20 minute headways.

1. Provides for direct service on all extension routes to Millbrae and SFO, no need to transfer
2. 20 minute shuttle (during normal 15 minute service) replaced by 15 minute direct trains
3. During off-peak, evenings and weekends, direct service to Millbrae is through the SFO station

## March 8, 2004

Train sizing adjustments: Train 361 increased from 4 to 5-car train off-peak. Train 441 changed to 10-car peak size for all PM trips instead of breaking to 5-car train on last trip. Other minor adjustments were made to the 200s and 500s.

## September 13, 2004

Bay Point trains provide direct service to SFO, then continue to Millbrae. This service provides "Reverse L" service and operates during all hours of operation, all week. During the 3 hour AM and PM peak period on weekdays, Richmond trains provide direct service to SFO, then continue to Millbrae in a "Reverse L" service configuration. During the 3 hour AM and PM peak period (weekdays only) the Richmond and Bay Point trains both provide service directly to and from Millbrae/SFO. The Richmond trains do not operate on the weekend. Service during the day on each route (and during the peak rush) is 15 minutes, while evenings and weekends operate at 20-minute headways.

1. Provides for direct service on all extension routes to Millbrae and SFO, no need to transfer

2. During all hours, direct service to Millbrae is through the SFO station (but is effectively every 7.5 minutes during the 3 hour AM and PM peak periods)

#### December 13, 2004

Train sizing adjustments were made to better match capacity with demand, generally to shorter trains.

#### April 23, 2005

Train sizing adjustments: The 300 series trains on Saturday were increased from 8 to 9-car trains.

#### June 13, 2005

Train lengths were generally shortened to an 8-car plan in two phases, in June and August, 2005, with peak size trains running all day on the Bay Point line.

#### August 15, 2005

Second phase of implementing the "8-car" plan.

#### September 12, 2005

Dublin trains provide direct service to SFO, then continue to Millbrae in a "Reverse L" service configuration. Only the Dublin trains will provide service to the extension on weekdays and weekends. Richmond and Bay Point trains will truncate at Daly City. Service during the day (and during the peak rush) is 15 minutes, while evenings and weekends operate at 20-minute headways. Although direct service from Bay Point has been replaced with this new service, the transfer time from a Bay Point base train to SFO train (from Dublin) is only 3-4 minutes in each direction.

#### September 22, 2005

Extend service from Richmond and lengthen trains. Up to six consists will be lengthened from 4 to 8-car trains. Richmond trains to Daly City will be extended to Colma for two hours in the morning and two hours in the evening.

#### October 10, 2005

The following adjustments were made:

##### Weekday

100s - three trains lengthened

200s - one train lengthened, Make/Break timing changed

300s - several trains lengthened with a few trains reduced in size

400s - one train lengthened

500s - No change since September 22, 2005 (Make/Break timing)

##### Saturday

300s - some trains lengthened

##### Sunday

300s - some trains lengthened

#### December 5, 2005

The following adjustments were made:

##### Weekday

100s – 115 becomes the last AM Break train

300s – Train 323 and 363 increased from 8-car to 9-car trains

##### Saturday

200s – All trains are now 6-car trains during the day

January 30/31, 2006e

The following adjustments were made:

Weekday

100 Series Trains (net +1)

Train 101 +1 (9 to 10 cars) peak increase

Train 115 off peak increase 4 to 5 cars

200 Series Trains (net 0)

No change

300 Series Trains (net -2)

Train 365 off peak decrease only on dispatches of 20:58, 22:19, and 23:38

Train 367 +1 (9 to 10 cars) off peak decrease only on dispatches of 21:18, 22:39, and 24:00

Train 371 -1 (10 to 9 cars)

Train 377 -1 (10 to 9 cars)

Train 381 -1 (10 to 9 cars)

Train 331 -2 (10 to 8 cars)

Train 335 +2 (8 to 10 cars)

400 Series Trains (net +2)

Train 443 -1 (9 to 8 cars) for AM peak period only

Train 445 +1 (8 to 9 cars)

Train 453 -1 (9 to 8 cars) for PM peak period only

Train 455 +2 (8 to 10 cars) and off peak increase 4 to 5 cars

500 Series Trains (net +10)

Train 501 +1 (8 to 9 cars) peak increase and off peak increase 4 to 5 cars

Train 503 +1 (8 to 9 cars) peak increase and off peak increase 4 to 5 cars

Train 505 +1 (8 to 9 cars) peak increase

Train 507 +1 (8 to 9 cars) peak increase

Train 509 +1 (8 to 9 cars) peak increase

Train 511 +1 (8 to 9 cars) peak increase

Train 513 +1 (8 to 9 cars) peak increase and off peak decrease 8 to 5 cars

Train 519 +1 (8 to 9 cars) peak increase

Train 521 +1 (8 to 9 cars) peak increase and off peak increase 4 to 5 cars

Train 523 +1 (8 to 9 cars) peak increase

Saturday

100s - no change

200s - no change

300s - All 8-car trains are now 9-car trains

400s - no change

500s - Four trains increased from 4 to 5-cars (501, 505, 511, and 515)

Sunday

200s - no change

300s - no change

500s - All trains 9-car midday and some offpeak increased from 4 to 5-cars (503, 505, and 515)

**Appendix E**  
**Methodology for Bay Area Conformity Determinations**





Winston H. Hickox  
Agency Secretary

# Air Resources Board

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Alan C. Lloyd, Ph.D.  
Chairman

1001 I Street • P.O. Box 2815 • Sacramento, California 95812 • [www.arb.ca.gov](http://www.arb.ca.gov)



Gray Davis  
Governor

November 30, 2001

Mr. Wayne Nastri  
Regional Administrator  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

Dear Mr. Nastri:

The Air Resources Board (ARB/Board) hereby transmits the Bay Area emission factor model (SF Bay Area-EMFAC 2000) to the U.S. Environmental Protection Agency (U.S. EPA) for approval and use in the 2001 San Francisco Bay Area State Implementation Plan (Bay Area SIP) and subsequent Bay Area conformity determinations.

SF Bay Area-EMFAC 2000 is tailored specifically to the San Francisco Bay Area. The emission factors contained in SF Bay Area-EMFAC 2000, along with updated activity data from the Metropolitan Transportation Commission (MTC), provide the basis for the mobile source emissions budgets in the 2001 Bay Area SIP. SF Bay Area-EMFAC 2000 will be used for subsequent Bay Area conformity determinations. At a public meeting on November 1, 2001 the ARB Board approved SF Bay Area-EMFAC 2000 for these purposes following a 30-day public notice. At the time the Bay Area SIP was being developed, this model was the most current emission factor model available. SF Bay Area-EMFAC 2000 was based on EMFAC2000. The documentation for EMFAC2000 was publicly available beginning in May 2000 and made available for use by the Bay Area Air Quality Management District when it began developing the 2001 Bay Area SIP in November 2000.

The three Bay Area co-lead agencies responsible for developing the Bay Area SIP have committed to do a mid-course review of the Bay Area SIP by December 31, 2003 and revise the 2001 SIP by March 2004. ARB has committed to submit the revised Bay Area SIP to U.S. EPA by April 15, 2004. The mid-course review will use the most current emission factor model available at that time to develop the mobile source emissions budgets. This model will be EMFAC2001 or its successor.

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.*

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California Environmental Protection Agency

This transmittal provides documentation of the emission factors and activity data used in SF Bay Area-EMFAC 2000 to develop the 2001 Bay Area SIP. In addition, it includes the methodology ARB will be using to conduct Bay Area conformity determinations.

## **SF Bay Area-EMFAC 2000 Emission Factor Model Documentation**

### *Comparison between MVEI7F/7G and SF Bay Area-EMFAC 2000*

The emission factors used in the SF Bay Area-EMFAC 2000 emission factor model represent a major improvement over emission factors used in older models such as MVEI7F and MVEI7G. SF Bay Area-EMFAC 2000 exhaust hydrocarbon emission rates are significantly higher than the emission rates included in the older models. The increase in exhaust hydrocarbon rates is mainly a result of the following changes:

- More accurately reflecting real-world driving by using the Unified Cycle (UC) driving cycle rather than the Federal Test Procedure (FTP);
- Using new speed adjustment factors to better reflect how emissions change as average driving speeds change;
- Representing 45 model years, rather than only 35; and
- Incorporating new vehicle test data.

Evaporative hydrocarbon emission rates in SF Bay Area-EMFAC 2000 are also significantly higher than the older models' emission rates. The most important changes causing the increase in evaporative hydrocarbon emission rates include:

- Higher hot soak emission rates, especially for older catalyst-equipped vehicles;
- Higher running loss emission rates, based on new data; and
- Including emissions for vehicles with liquid fuel leaks.

Emission rates for oxides of nitrogen (NO<sub>x</sub>) are also significantly higher in SF Bay Area-EMFAC 2000 than in the older models. The increased estimates of NO<sub>x</sub> emission rates are primarily due to the following changes:

- Inclusion of "off-cycle NO<sub>x</sub>" (i.e., NO<sub>x</sub> emissions that were not represented in the certification driving cycle); and
- Incorporation of new vehicle test data for catalyst equipped passenger cars and light trucks.

### *Incorporation of Latest Standards*

SF Bay Area-EMFAC 2000 also includes the effects of recently adopted standards on the emissions of the on-road fleet. The future year emission rates in SF Bay Area-EMFAC 2000 reflect the adopted standards described below.

### Supplemental Federal Test Procedure

Two supplemental test procedures to the FTP were adopted by the Board in July of 1997. These new standards are applicable to passenger cars, light-duty trucks, and medium-duty vehicles weighing 8,500 pounds or less. These standards require the

control of excess emission of hydrocarbon and oxides of nitrogen during “off-cycle” operations (high speed and hard acceleration), and excess emissions associated with the use of air conditioning. The new standards are to be phased-in between 2001 and 2005.

#### Low Emission Vehicles (LEVII)

The second phase of Low Emission Vehicle Standards (LEVII) was adopted by the Board in November of 1998. This action imposed more stringent hydrocarbon, carbon monoxide, NO<sub>x</sub> and exhaust particulate matter emissions standards for passenger cars, light-duty trucks and medium-duty vehicles up to 14,000 pounds sold in California beginning in 2003.

#### Near Zero Evaporative Standards

Also in November 1998, the Board adopted new standards for the emissions of evaporative hydrocarbons (diurnal, hot soak and resting loss). The standards were reduced from 2 grams per test (hot soak plus diurnal) for passenger cars, to 0.5 grams per test.

#### New On-Road Motorcycle Standards

In December of 1998, the Board adopted lower exhaust emission standards for on-road motorcycles. These standards, which may require future motorcycles to utilize catalytic converters, are applicable to new motorcycles sold in California beginning in 2004.

#### Off-Cycle NO<sub>x</sub> Mitigation

In a settlement reached between the federal government, the Air Resources Board and heavy-duty engine manufacturers, several mitigation measures were agreed to regarding off-cycle NO<sub>x</sub> emissions. In addition to ending the practice of defaulting to an advanced timing condition during extended cruise operation, several manufacturers have agreed to perform “low emission” rebuilds for in-use engines. These rebuilds will lower the emissions of the in-use fleet.

#### New Exhaust Emissions Standards for Urban Transit Buses

In February of 2000, the Board adopted a regulation that allows transit agencies the choice between either a diesel or alternative fuel “path” to lower emissions. Beginning in 2002, over the course of 10 years, this regulation requires increased introduction of



cleaner engine buses in transit agencies' fleets, use of cleaner diesel fuel, retrofits to reduce exhaust particulate matter (PM) emissions from older diesel buses, and use of zero-emission buses (ZEBs).

### *Public Review*

The emission factors used in SF Bay Area-EMFAC 2000 were developed in a 3-year process and were subject to public review and comment during three workshops held in 1998, 1999, and 2000. Throughout the comment period, ARB received a number of written and verbal comments, which were addressed in the development of the emission factor model.

Further detail regarding the development of the SF Bay Area-EMFAC 2000 emission factor model may be found in the attached Technical Support Documentation. The Technical Support Documentation refers to broader work on the statewide EMFAC2000 emission factor model, but also applies to the region specific SF Bay Area-EMFAC2000.

### **Activity Data Documentation**

The Bay Area vehicle miles traveled (VMT), VMT growth rates, and VMT-speed distributions incorporated into SF Bay Area-EMFAC 2000 represent the best current activity data estimates available. The derivation of these estimates are explained below.

#### *Vehicle Miles of Travel*

Bay Area VMT estimates for calendar year 2000 are based on the ARB VMT estimation methodology using mileage accrual rates derived from Smog Check odometer data and Department of Motor Vehicle vehicle populations (see Section 7 of the attached Technical Support Documentation for further detail on the ARB VMT estimation methodology).

The decision to use ARB's VMT estimate instead of the VMT estimate from MTC's BAYCAST-90 travel demand model for calendar year 2000 was made in an agreement between MTC and ARB. As Table 1 illustrates, MTC's 2000 VMT estimate for the region is about 22 percent lower than both ARB and Caltrans' estimates. The ARB and Caltrans<sup>1</sup> methods for estimating VMT were developed independently of each other, yet fall within 1 percent of each other.

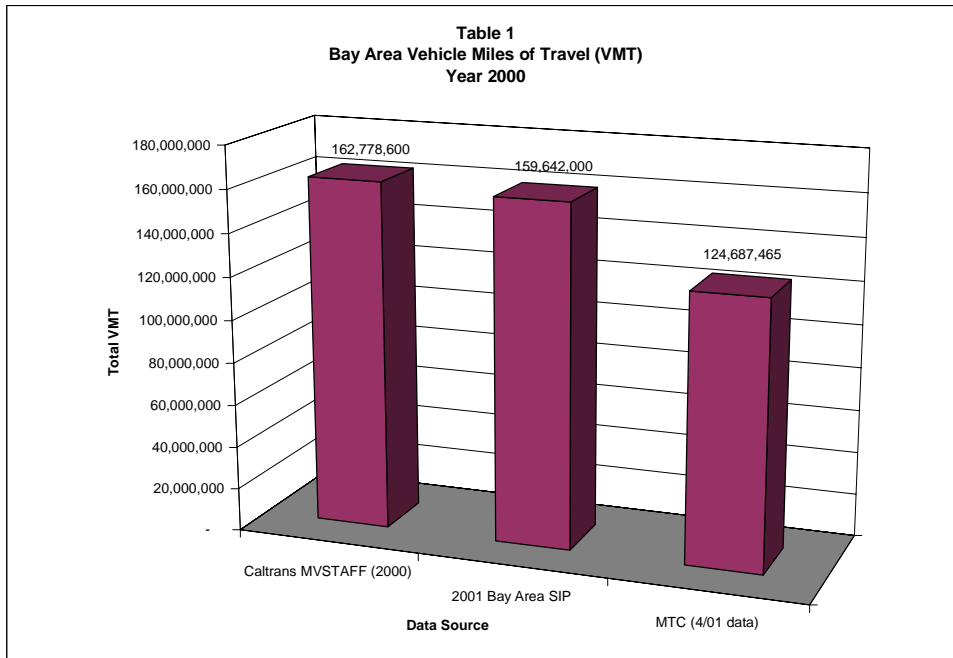
Additional justification for using the ARB VMT estimation methodology is found in the estimate of the number of miles driven by each vehicle per day (i.e., the mileage accrual

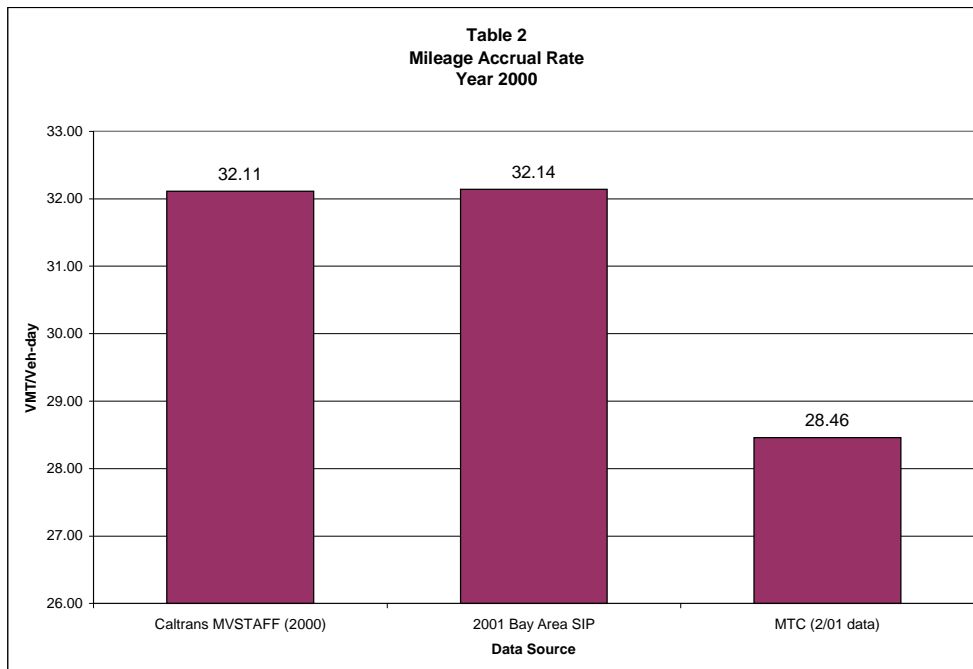
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<sup>1</sup> Caltrans' VMT estimate was taken from the annual "Motor Vehicle Stock, Travel, and Fuel Forecast" (MVSTAFF) report. The MVSTAFF report forecasts statewide VMT based on statewide vehicle population data from the DMV, fuel consumption estimates from the Board of Equalization, and fuel economy estimates derived from the national fuel economy standards. Statewide VMT estimates are then disaggregated to the county level using county auto registration and road system mileage ratios.

rate). Table 2 compares mileage accrual rates from various data sources. MTC's estimates appear too low to be consistent with odometer readings collected in the Smog Check program. MTC's mileage accrual estimates are 11 percent lower than both Caltrans' ARB's estimates for the Bay Area.

For the purposes of the 2001 Bay Area SIP, MTC agreed to use ARB's 2000 VMT estimate. It was also agreed that the difference in VMT between ARB's and MTC's calendar year 2000 VMT estimates would be used as a "correction" for all future analysis years.





### *VMT Growth Rates*

In the agreement between ARB and MTC, ARB agreed to use MTC's VMT growth rate as implied by the VMT estimates produced by BAYCAST-90. The rationale for this is that while ARB questions the level of travel in calendar year (CY) 2000 as estimated by MTC's travel demand model, ARB is not questioning future year growth projections included in the travel demand model.

### *VMT-Speed Distributions*

The final pieces of activity data provided by MTC and incorporated into SF Bay Area-EMFAC 2000 are the VMT-speed distributions for two calendar years (2000 and 2005). Based on consultation between MTC and ARB staff, ARB incorporated the VMT-speed distributions into SF Bay Area-EMFAC 2000 by applying CY2000 speed distributions to CYs 2000-2003, and CY2005 speed distributions to CYs 2004+.

## Methodology for Bay Area Conformity Determinations

For all Bay Area conformity determinations based on the mobile source emissions budgets set in the Bay Area SIP (using SF Bay Area-EMFAC 2000), the following step-wise methodology will be followed:

1. MTC will submit to ARB updated VMT-speed distributions and updated VMT estimates by county for all relevant analysis years. ARB will follow the procedures below for analysis years for which MTC does not submit new activity data (i.e. for which activity data does not change from MTC's original SIP submittal):
  - ARB will use the speed distributions submitted by MTC for the most recent calendar year prior to the analysis year of interest. For example, if MTC submits new VMT-speed distributions for 2005 and 2010, but not for the 2006 analysis year, the 2006 analysis year will use the speed distributions submitted for 2005. VMT-speed distributions will not be interpolated.
  - The VMT estimate for each county will be interpolated using county-specific compounded growth rates.<sup>2</sup> The interpolated VMT will then be used for the following steps.
2. ARB will calculate VMT for the portions of Sonoma and Solano Counties that fall in the San Francisco (S.F.) Air Basin. This is necessary since the SIP budgets are based on the S.F. Air Basin (which covers only the southern portions of Solano and Sonoma Counties), while the MTC VMT estimates include the full nine Bay Area counties. The county portions will be calculated by multiplying the full county VMT submitted by MTC by the VMT ratio (partial county/county) derived from SF Bay Area-EMFAC 2000.<sup>3</sup> In year 2000, about 71 percent of Solano County, and 77 percent of Sonoma County VMT occurred in the S.F. Basin.
3. ARB will calculate the year 2000 difference in VMT between the VMT estimate included in the SF Bay Area-EMFAC 2000 runs<sup>4</sup> and the VMT estimate submitted by MTC for conformity.<sup>5</sup> The resulting differences by county represent the VMT "correction" between ARB and MTC's VMT estimates.
4. The VMT correction will be added by county to the submitted VMT for all analysis years, resulting in the "target" VMT estimate that will be used for the conformity modeling runs.<sup>6</sup>

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<sup>2</sup> For example, 2006 VMT is interpolated from 2005 and 2010 VMT estimates submitted by MTC by the following equation:  $VMT_{2006} = (VMT_{2010} / VMT_{2005})^{0.2} * VMT_{2005}$

<sup>3</sup> For the S.F. Basin portions of Solano and Sonoma County VMT:

S.F. Basin County Portion  $VMT_{MTC} = [S.F. \text{ Basin County Portion } VMT_{SF\text{BayArea-EMFAC}2000} / \text{Total County } VMT_{SF\text{BayArea-EMFAC}2000}] * \text{Total County } VMT_{MTC}$

<sup>4</sup> SF Bay Area-EMFAC 2000 calculates VMT based on Smog Check odometer readings and DMV vehicle registration data for light duty vehicle classes, and instrumented truck data for the truck classes.

<sup>5</sup>  $VMT \text{ correction}_{\text{county a}} = SIP \text{ VMT}_{CY2000} - MTC \text{ VMT}_{CY2000}$

<sup>6</sup>  $\text{Target } VMT_{\text{county a}} = MTC \text{ VMT}_{\text{county a}} + VMT \text{ correction}_{\text{county a}}$

5. The county-specific target VMT in the conformity modeling runs will be achieved in SF Bay Area-EMFAC 2000 by modifying the county-specific vehicle populations in SF Bay Area-EMFAC 2000 using the What-if-Scenario (WIS) option. Since vehicle population and VMT are linearly related in SF Bay Area-EMFAC 2000, to obtain the “target” vehicle population, ARB staff will take the ratio between the SIP VMT estimates and the target VMT for each analysis year and apply them to the SIP vehicle population estimates for each respective analysis year.<sup>7</sup>
6. Once the target vehicle populations have been calculated, ARB staff will run SF Bay Area-EMFAC 2000 using the WIS option to adjust vehicle populations by county, and incorporate any updated speed distributions.
7. ARB staff will then apply control factors to the model output to adjust for emission reduction measures not included in the SF Bay Area-EMFAC 2000 emission factor model or changed since the model was developed.
8. Finally, ARB staff will compare the results to the SIP budgets for the conformity demonstration.

If you have questions regarding this submittal, you may contact me at (916) 445-4383, or have your staff contact Ms. Cynthia Marvin, Chief of the Air Quality and Transportation Planning Branch, at (916) 322-7236.

Sincerely,

/s/

Michael P. Kenny  
Executive Officer

Enclosures

cc: See next page.

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<sup>7</sup> Target Veh Pop = [((Target VMT – SIP VMT) / SIP VMT) \* SIP Veh Pop] + SIP Veh Pop

cc: (w/o Enclosures)  
Mr. Jack Broadbent, Director  
Air Division  
U.S. Environmental Protection Agency  
Region IX  
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San Francisco, California 94105

Ms. Ellen Garvey, Executive Officer  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, California 94109

Mr. Steve Heminger, Executive Director  
Metropolitan Transportation Commission  
101 Eighth Street  
Oakland, California 94607

Mr. Eugene Leong, Executive Officer  
Association of Bay Area Governments  
101 Eighth Street  
Oakland, California 94607

Ms. Cynthia Marvin  
Air Resources Board



## **Recommended Methods for Use of EMFAC2002 To Develop Motor Vehicle Emissions Budgets and Assess Conformity**

As the agency charged with estimating motor vehicle emissions for air quality plans, the Air Resources Board (ARB) has improved the EMFAC modeling tool for use in combination with estimates of vehicle population and activity to develop motor vehicle emissions budgets and assess transportation conformity. The most recent version of this tool, EMFAC2002, has been transmitted to the U.S. Environmental Protection Agency (U.S. EPA) for approval for use in State Implementation Plans (SIPs) and conformity assessments. This paper describes the recommended practices for ARB, air districts, metropolitan planning agencies (MPOs) and regional transportation planning agencies (RTPAs) to use vehicle activity in conjunction with EMFAC2002 emission rates to calculate emissions budgets and conduct conformity assessments.

The vehicle activity indicators commonly used to develop emissions inventories are vehicle trips and vehicle miles of travel (VMT) by speed, vehicle class and time of day. Though not a direct measure of travel activity, vehicle population may also be a variable for these purposes, as described below.

**Vehicle trips.** In California, MPOs and RTPAs use demographic forecasts and travel demand models to develop estimates of current and future daily VMT, daily vehicle trips and average travel speeds for links in the transportation network. ARB separately estimates daily vehicle trips, but defines trips as the number of times a vehicle is started, rather than a number of specific daily destinations. This distinction is important; ARB and U.S. EPA studies find that vehicles are started five to six times per day, while trips associated with destinations as reported through travel surveys and predicted in travel demand models occur three to four times per day. Because start emissions and the duration of time between starts are crucial to emissions estimation, ARB equates vehicle trips with vehicle starts. Though EMFAC2002 permits model users to alter estimates of vehicle trips used to estimate emissions, ARB recommends that the model's default estimates of vehicle trips (starts), developed from instrumented vehicle studies, be used for air quality planning and conformity purposes.<sup>1</sup> Alternatively, for vehicle classes where appropriate local data are made available for review through the interagency consultation process, use of trip factoring or other methods to fully account for vehicle starts may be employed. Such alternative approaches should be discussed in the interagency consultation process.

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<sup>1</sup> An exception would occur when a user chooses to factor these start-based trips to account for trip reduction programs. EMFAC2002 start-based trips rather than destination-based trips should serve as the baseline for this adjustment. The adjustment would be made through the What-If Scenario (WIS) function of EMFAC2002 as follows, where TRS denotes the trip reduction scenario:

$$\text{WIS Input TRS Trips} = \text{EMFAC Default Trips} * (\text{RTPA TRS Trips} / \text{RTPA Baseline Trips})$$



**Vehicle speeds.** Most travel demand models provide output of estimated average speed by time period and link that may be summarized for use in EMFAC2002. For each major vehicle class and up to 24 hourly time periods, total VMT is divided into 13 different speed “bins” (5 mph through 65 mph) and used as input to EMFAC2002. ARB recommends continuation of this current practice to develop emissions budgets and assess conformity. Travel from intrazonal trips should be assigned to the appropriate speed bin based on the speed assigned to that travel in the travel demand model. VMT for each speed bin and time period can be used as input through the WIS function of EMFAC2002. It is also possible to input this data specific to vehicle class if adequate and defensible local data are available.

**Vehicle population.** Vehicle trips (starts) in EMFAC2002 are estimated as a function of the number of vehicles, or vehicle population, by county. The population of each class of motor vehicle is estimated and forecast from Department of Motor Vehicles (DMV) registration data. EMFAC2002 assumes there is a relationship between vehicle population and VMT, carried through mileage accrual rates.<sup>2</sup> In the default case, the model assumes *vehicle population \* mileage accrual = VMT*. ARB-preferred practice is to maintain this internal consistency, for reasons explained below.

**Vehicle miles of travel.** Daily VMT is both an emissions model input usually provided by MPOs/RTPAs and a model output used to estimate exhaust emissions. ARB staff reviews MPO/RTPA estimates of VMT and vehicle speeds, and supports these estimates for use in air quality plans whenever we agree they are reasonable and defensible. Use of the latest estimates of MPO/RTPA VMT and speeds in plan development facilitates the subsequent federal transportation conformity process. This is particularly important for any year for which the plan creates emissions budgets, as conformity rules allow no emissions budget exceedance, regardless of how small. As there may be some variance between default EMFAC2002 VMT and more recent MPO/RTPA estimates to be used for SIP development, we are recommending a procedure to more exactly incorporate into emissions budgets revised VMT estimates for emissions budget analysis years.

Although it is possible to directly input VMT into EMFAC2002 through the model’s WIS function, it is generally not recommended to do this independent of vehicle population because of the desire to properly estimate start and evaporative emissions tied to the size of the vehicle fleet. A change in total forecasted miles of travel implies a change either in the number of vehicles traveling those miles or in mileage accrual rates. For future years, we generally recommend making vehicle population the variable, rather than mileage accrual. Thus, VMT adjustment would usually occur through vehicle population adjustment in the model’s WIS function, according to this formula:

$$\text{WIS Input Population} = \text{EMFAC Default Population} * (\text{RTPA VMT} / \text{EMFAC Default VMT})$$

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<sup>2</sup> Accrual rates are miles traveled per year as a function of vehicle age, derived from the Bureau of Automotive Repair Smog Check database as described in Section 7.1 of the EMFAC2000 Technical Support Document, found via [http://www.arb.ca.gov/msei/on-road/latest\\_revisions.htm#pcaccrual](http://www.arb.ca.gov/msei/on-road/latest_revisions.htm#pcaccrual).

The result of this modification is that emissions estimates more precisely incorporate the daily VMT provided by each MPO/RTPA to calculate exhaust emissions, and vehicle population is adjusted for consistency with this assumption of higher or lower VMT, providing similarly modified start and evaporative emissions.<sup>3</sup> Though the emissions impact of using this approach will often be small, we believe the approach is appropriate given the desire to fully reflect the impacts of changes in travel activity on all emissions processes. Use of consistent methods in air quality plans and conformity assessments will both reduce potential conformity problems and preserve the integrity of the SIP and conformity processes.

Alternatively, local data may indicate that changes in VMT are tied more closely to changes in household or business rates of travel than to changes in vehicle ownership. Or, improved travel demand modeling may project auto ownership rates with a high degree of confidence. In such cases it may be appropriate to adjust total mileage accrual rather than vehicle population. It is also possible to derive a modified VMT forecast from adjustments to both variables in EMFAC2002. Planning agencies are encouraged to present alternative approaches for consideration in the interagency consultation process.

## **Recommendations**

1. ARB recommends that the EMFAC2002 default estimates of vehicle trips, based on starts per day, be used for SIP development and conformity purposes. Model defaults for trips may be factored to account for trip reduction scenarios, but should not be replaced with estimates that do not account for all vehicle starts. Alternative approaches, such as the factoring of travel demand model trip outputs for appropriate classes to account for additional starts, may be considered through interagency consultation.
2. We recommend continuation of current practices for input of latest speed distributions for SIPs and conformity assessments. Travel from intrazonal trips should be assigned to the appropriate speed bin based on the speed assigned to that travel in the travel demand model.
3. To fully reflect the impacts of modified VMT forecasts on all emissions processes, in the calculation of SIP emissions budgets, and in the assessment of conformity with those budgets, vehicle population should be adjusted in EMFAC2002 proportional to the estimated VMT change. Local circumstances may alternatively support adjustment of mileage accrual rates, subject to interagency consultation.

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<sup>3</sup> After adjusting VMT through use of the population variable in the WIS function of EMFAC, a user who desires to match VMT even more exactly (to the mile instead of the tens of miles) can then adjust VMT in the WIS without disturbing the population adjustment. This is unlikely to have a discernible impact on emissions, however.



Date: March 28, 2018  
W.I.: 1412  
Referred by: Planning

ABSTRACT

Resolution No. 4325

This resolution finds that the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28, are in conformance with the State Implementation Plan to achieve National Ambient Air Quality Standards.

Further discussion of this subject is contained in the Executive Director's memorandum to the Planning Committee dated March 2, 2018.

Date: March 28, 2018  
W.I.: 1412  
Referred by: Planning

Re: Approval of the Transportation-Air Quality Conformity Analysis of the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28, to the State Implementation Plan for Achieving and Maintaining National Ambient Air Quality Standards

METROPOLITAN TRANSPORTATION COMMISSION

RESOLUTION NO. 4320

WHEREAS, the Metropolitan Transportation Commission (MTC) is the regional transportation planning agency for the San Francisco Bay Area pursuant to California Government Code Section 66500 et seq.; and

WHEREAS, MTC is the federally designated Metropolitan Planning Organization (MPO), pursuant to Section 134(d) of Title 23 of the United States Code (USC) for the nine-county San Francisco Bay Area region (the region); and

WHEREAS, Part 450 of Title 23 of the Code of Federal Regulations (CFR), require MTC as the MPO to prepare and update a long-range Regional Transportation Plan (RTP) every four years; and

WHEREAS, California Government Code § 65080 *et seq.* (Senate Bill 375) requires MTC to prepare and update a long-range RTP, including a Sustainable Communities Strategy (SCS) prepared in conjunction with the Association of Bay Area Governments (ABAG), every four years; and

WHEREAS, MTC and ABAG jointly adopted the Final Plan Bay Area 2040 (Plan) (MTC Resolution 4300 and ABAG Resolution No. 10-17) on July 26, 2017; and

WHEREAS, MTC and ABAG have prepared an Amendment to the Plan (Amended Plan) to modify the scope and projected cost of the U.S. Highway 101 Managed Lanes Project to accommodate an Express Lane in each direction (RTPID 17-06-0007); and

WHEREAS, MTC has prepared an Amendment to the 2017 Transportation Improvement Program, Revision Number 2017-28, (Amended TIP) to maintain consistency with the programs and policies in the Plan; and

WHEREAS, the Amended Plan and the Amended TIP must conform to the federal air quality plan, which is also referred to as the State Implementation Plan (SIP); and

WHEREAS, the San Francisco Bay Area air basin was designated by U.S. Environmental Protection Agency (U.S. EPA) as nonattainment for the fine particulate matter (PM<sub>2.5</sub>) standard in December 2009, and so MTC must demonstrate conformance to this standard through an interim emission test until a PM<sub>2.5</sub> SIP is approved by U.S. EPA:

WHEREAS, MTC has conducted a transportation-air quality conformity analysis for the Amended Plan and the Amended TIP in accordance with U.S. EPA conformity regulations and the Bay Area Air Quality Conformity Protocol (MTC Resolution No. 3757); and

WHEREAS, MTC conducted a transportation-air quality conformity analysis for the Amended Plan and the Amended TIP utilizing the latest planning assumptions, emissions model, and consultation provisions, including a quantitative regional emissions analysis that meets emissions budget requirements of the U. S. Environmental Protection Agency transportation conformity rule, and the Plan contributes to all required emissions reductions; and

WHEREAS, said conformity analysis is included as Attachment A of this resolution, and is incorporated herein as though set forth at length; and

WHEREAS, the conformity analysis has been circulated for 30-day public review period from January 22, 2018, through February 21, 2018; now, therefore be it

RESOLVED, that MTC makes the following conformity findings for the Amended Plan and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28:

- (A) Conforms to the applicable provisions of the State Implementation Plan and the applicable transportation conformity budgets in the State Implementation Plan

- approved for the national 8-hour ozone standard and carbon monoxide standard, and to the interim emissions test for the national fine particulate matter standard; and
- (B) Provides for the timely implementation of transportation control measures (TCMs) pursuant to the applicable State Implementation Plan;

RESOLVED, that Executive Director shall forward a copy of this Resolution to the U.S. Department of Transportation for its approval of MTC's conformity findings, along with a copy of the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28, and to such other agencies as appropriate.

METROPOLITAN TRANSPORTATION COMMISSION

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Jake Mackenzie, Chair

This resolution was entered into by the Metropolitan Transportation Commission at a meeting of the Commission held in San Francisco, California on March 28, 2018.

Date: March 28, 2018  
W.I.: 1412  
Referred by: Planning

Attachment A  
Resolution No. 4325  
Page 1 of 1

**Transportation-Air Quality Conformity Analysis  
for the Amendment to Plan Bay Area 2040 and the  
2017 Transportation Improvement Program, as Amended by Revision Number 2017-28**

The Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040  
and the  
2017 Transportation Improvement Program, as Amended by Revision Number 2017-28  
is on file in the offices  
of the Metropolitan Transportation Commission, Bay Area Metro Center,  
375 Beale Street, Suite 800, San Francisco, CA 94105.



# 1 INTRODUCTION

The Metropolitan Transportation Commission (“MTC”) and Association of Bay Area Governments (“ABAG”), acting as Lead Agencies under the California Environmental Quality Act (“CEQA”), prepared an addendum to the Final Environmental Impact Report (“EIR”) for Plan Bay Area 2040 (“the Plan”) pursuant to CEQA Guidelines Section 15164 (“Addendum”). The Final EIR for the Plan (State Clearinghouse No. 2016052041) was certified by MTC (MTC Resolution No. 4299) and ABAG (ABAG Resolution No. 09-17) on July 26, 2017.

Since the certification of the Final EIR, the City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority, in cooperation with the California Department of Transportation (“Caltrans”) District 4, released their Draft Environmental Impact Report/Environmental Assessment for the U.S. Highway 101 Managed Lanes Project in San Mateo County. The project was included in the Plan’s financially constrained transportation investment strategy (RTPID 17-06-0007) and consequently assessed in the Final EIR for the Plan. The City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority propose an amendment to the Plan to update the cost and description of the U.S. Highway 101 Managed Lanes Project (“Amendment”). The Amendment to the Plan proposed by the City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority would clarify the project description and change lane configuration assumptions along the U.S. Highway Managed Lanes Project corridor to accommodate an Express Lane in each direction. The Amendment would align the U.S. Highway 101 Managed Lanes Project assumptions included in the Plan to those of the preferred alternative in the project’s Draft EIR/Environmental Assessment.

Accordingly, this Addendum evaluates whether the Amendment to the Plan could result in additional significant effects on the environment relative to the conclusions reached in the Final EIR for the Plan. This Addendum has been prepared to conform to the requirements of CEQA and CEQA Guidelines §15164.

## 1.1 PURPOSE OF AN ADDENDUM

CEQA Guidelines § 15164(a) provides that the lead agency or a responsible agency shall prepare an addendum to a previously certified EIR or Negative Declaration (“ND”) if some changes or additions are necessary but none of the conditions described in CEQA Guidelines § 15162 calling for preparation of a subsequent EIR or ND have occurred (CEQA Guidelines, § 15164(a)).

An addendum need not be circulated for public review but can be included in or attached to the Final EIR or ND (CEQA Guidelines § 15164(c)). The decision-making body shall consider the addendum with the Final EIR prior to making a decision on the project (CEQA Guidelines § 15164(d)). An agency must also include a brief explanation of the decision not to prepare a subsequent EIR or ND pursuant to § 15162 (CEQA Guidelines § 15164(e)).

Once an EIR or ND has been certified for a project, no subsequent EIR or ND is required under CEQA unless, based on substantial evidence:<sup>1</sup>

1. substantial changes are proposed in the project which will require major revisions of the previous EIR or ND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
2. substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or ND due to the involvement of new significant

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<sup>1</sup> (CEQA Guidelines, § 15162, subd. (a); see also Pub. Resources Code, Section 21166).

environmental effects or a substantial increase in the severity of previously identified significant effects; or

3. new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the ND was adopted, shows any of the following:
  - a. the project will have one or more significant effects not discussed in the previous EIR or ND;
  - b. significant effects previously examined will be substantially more severe than shown in the previous EIR;
  - c. mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
  - d. mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

As will be shown herein, the Amendment results in only minor changes to the Plan and Final EIR.

## 1.2 INTENDED USES OF THIS ADDENDUM

An addendum to a EIR is an informational document used in the planning and decision-making process. The intent of this Addendum to the Final EIR for the Plan is to provide MTC and ABAG with additional information regarding the potential environmental impacts of the Amendment to the Plan. As will be shown herein, the Amendment results in only minor changes to the Plan and Final EIR.

MTC and ABAG may approve the Amendment based on the analysis provided in this Addendum, which shows that the impacts of the Plan (as amended) remain within the impacts previously analyzed in the Final EIR (CEQA Guidelines § 15061(b)(3)). The Amendment does not require any revisions to the Final EIR. No new significant information or significant changes in circumstances surrounding the Plan (“the project”) have occurred since the certification of the Final EIR. The previous analysis included in the Final EIR therefore remains adequate under CEQA. However, MTC and ABAG remain obligated to comply with all applicable mitigation measures and conditions of approval contained within the Final EIR.

## 1.3 INCORPORATING BY REFERENCE

In compliance with CEQA Guidelines § 15150, this Addendum has incorporated by reference:

- ▲ The Draft and Final EIR for the Plan (SCH No. 2016052041) and all technical studies, analyses, and technical reports that were prepared as part of the Draft and Final EIR or for this Addendum.

Relevant information from documents incorporated by reference into this Addendum have been briefly summarized in the following section, and the relationship between the incorporated part of the referenced document and this Addendum has been described.

## 2 PROJECT DESCRIPTION

This section provides a description of the Plan that was evaluated in the Final EIR and the Amendment to the Plan proposed by the City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority.

### 2.1 OVERVIEW OF PLAN BAY AREA 2040

The Plan (“Plan Bay Area 2040”) is the updated long-range Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS) for the nine-county San Francisco Bay Area. The Plan is the Bay Area’s roadmap for forecasting transportation needs through the year 2040, preserving the character of our diverse communities, and adapting to the challenges of future population growth. The Plan discusses how the Bay Area will grow over the next two decades and identifies transportation and land use strategies to enable a more sustainable, equitable and economically vibrant future. Starting with the current state of the region, the Plan describes Plan Bay Area 2040 and its goals, a proposed growth pattern and supporting transportation investment strategy, and key actions needed to address ongoing and long-term regional challenges. The Plan also includes supplemental reports for additional details. These documents and the adopted Final Plan can be found at <http://2040.planbayarea.org/reports>.

As a program-level EIR, the Final EIR for the Plan addresses the entire nine-county, 101-city region, impacts of individual land use and transportation projects are not addressed in detail. Instead the focus of the analysis is on addressing the impacts of implementation of the Plan as a whole and includes mitigation measures to offset its potentially significant effects. The potential impacts of individual projects have been or will be evaluated in future environmental review, as relevant, by the appropriate implementing agency as required under CEQA and/or NEPA prior to each project being considered for approval, as applicable.

### 2.2 U.S. HIGHWAY 101 MANAGED LANES PROJECT (SAN MATEO COUNTY)

The U.S. Highway 101 Managed Lanes Project (RTPID 17-06-0007) in San Mateo County is described in the Plan as:

*“Modify existing lanes to accommodate an HOV lane from Whipple to San Francisco County Line and/or an Express Lane from approximately 2 miles south of the Santa Clara County Line to San Francisco County Line. Work may include shoulder modification, ramp modifications and interchange modifications to accommodate an extra lane. Work will be phased.”*

The Amendment to the Plan proposed by the City/County Association of Governments of San Mateo County and the San Mateo County Transportation Authority clarifies the project description and changes lane configuration assumptions along the U.S. Highway 101 project corridor to accommodate an Express Lane in each direction. The Amendment aligns the U.S. Highway 101 Managed Lanes Project assumptions included in the Plan to those of the preferred alternative in the project’s Draft EIR/Environmental Assessment.

The U.S. Highway 101 Managed Lanes Project was included in the Plan’s adopted financially constrained transportation investment strategy with a cost estimate of \$365 million. The Amendment increases this cost to \$534 million to reflect the updated description and lane configuration assumptions.

Funds for the cost increase are derived from the Plan’s set aside for project cost overruns via the Cost Contingency and Financing programmatic project (RTPID 17-10-0016). Because the project funding is

redirected from one adopted project to another within the Plan's financially constrained transportation investment strategy, and no new funds are added to the Plan as part of the Amendment, the Plan remains financially constrained as required by federal and state planning laws.

The Amendment to the Plan updates the following:

1. Changes the description, cost, and schedule of the U.S. Highway 101 Managed Lanes Project in San Mateo County (RTPID 17-06-0007):
  - a. **Basic Information** >> *What would this project/program do?*  
“Modify ~~existing lanes~~ US 101 to accommodate an HOV lane from Whipple to San Francisco County Line and/or an Express Lane from approximately 2 miles south of the Santa Clara County Line to San Francisco County Line Grand Avenue interchange near the I-380 interchange. Work may include shoulder modification, ramp modifications and interchange modifications to accommodate an extra lane. Work will be phased.”
  - b. **Cost and Funding** >> *How much does this project/program cost?*  
~~\$365~~ \$534 (millions)
  - c. **Schedule** >> *By when is the project/program anticipated to open?*  
~~2020~~ 2021
2. Changes the cost of the Cost Contingency and Financing Project (RTPID 17-10-0016):
  - a. **Cost and Funding** >> *How much does this project/program cost?*  
~~\$621~~ \$452 (millions)

No other changes are proposed in the Amendment.

## 3 CEQA CHECKLIST AND IMPACT ANALYSIS

### 3.1 SCOPE OF ANALYSIS

This Addendum evaluates whether the Amendment to the Plan could result in additional significant effects on the environment relative to the conclusions reached in the Final EIR for the Plan.

This Addendum relies on the significance criteria for each issue area and the corresponding analysis methodology described in the Final EIR to assess the potential impacts of the Amendment.

The following environmental categories were specifically examined to determine whether the Amendment would have an effect on the analysis in the Final EIR:

- ▲ Transportation
- ▲ Air Quality
- ▲ Land Use and Physical Development
- ▲ Energy
- ▲ Climate Change and GHGs
- ▲ Noise
- ▲ Geology and Seismicity
- ▲ Water Resources
- ▲ Biological Resources
- ▲ Visual Resources
- ▲ Cultural Resources
- ▲ Public Utilities and Facilities
- ▲ Hazards
- ▲ Public Services and Recreation

### 3.2 ANALYSIS

Additional analysis has been conducted for the environmental categories listed above and the results are discussed below in Table 1. As evidenced herein, the Amendment results in no substantial changes to the Plan (“the project”) nor does the Amendment result in substantial changes with respect to the circumstances under which the Plan is undertaken. The Amendment does not require major revisions of the Final EIR, or preparation of a new, subsequent or supplemental EIR or ND, due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects. As evidenced herein, the Plan (as amended) would not result in any new impacts that were not previously disclosed, nor has the environmental baseline in the Bay Area changed since the Final EIR, such that new impacts would be created. This conclusion for each environmental topic is explained in the column labeled “Substantial Increase in the Severity of Previously Disclosed Significant Effects.” No new or revised mitigation measures are necessary as a result of the Amendment. All mitigation measures adopted in the Final EIR continue to remain in effect and are incorporated by reference in this Addendum.

**Table 1 Summary of Impacts and Mitigation Measures**

Environmental Impact in Draft/Final EIR	Conclusion in the Draft/Final EIR	Substantial Increase in the Severity of the Previously Disclosed Significant Effects?	Draft/Final EIR Mitigation Measures	New or Revised Mitigation Measures	Conclusion with the Amendment
<b>2.1 TRANSPORTATION</b>					
<p><b>Impact 2.1-1:</b> Implementation of the proposed Plan could result in a significant increase in per-trip travel time for commute travel by any mode over existing conditions. A significant increase in per-trip travel time is defined as greater than 5 percent.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a significant increase (greater than 5 percent) in per-trip travel time for commute travel by any mode over existing conditions (see <b>Table 5</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.1-2:</b> Implementation of the proposed Plan could result in a significant increase in per-trip travel time for non-commute travel by any mode over existing conditions. A significant increase in per-trip travel time is defined as greater than 5 percent.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a significant increase (greater than 5 percent) in per-trip travel time for non-commute travel by any mode over existing conditions. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.1-3:</b> Implementation of the proposed Plan could result in a significant increase in per capita VMT on facilities experiencing level of service (LOS) F compared to existing conditions during AM peak periods, PM peak periods, or during the day as a whole (LOS F defines a condition on roads where traffic volumes exceed capacity, resulting in stop-and-go conditions for extended periods of time). A significant increase in LOS F-impacted per capita VMT is defined as greater than 5 percent.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a significant increase (greater than 5 percent) in per capita VMT on facilities experiencing level of service (LOS) F compared to existing conditions during AM peak periods, PM peak periods, or during the day as a whole (LOS F defines a condition on roads where traffic volumes exceed capacity, resulting in stop-and-go conditions for extended periods of time) (see <b>Table 6</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the</p>	<p>Implementing agencies and/or project sponsors shall implement the following measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to: <b>Mitigation Measure 2.1-3-3(a)</b> MTC, in its role as a funding agency, and implementing agencies shall support the advancement of corridor-level plans and implementation of projects located on severely congested (LOS F) facilities. <b>Mitigation Measure 2.1-3-3(b)</b> Transportation demand management (TDM) strategies shall be incorporated into individual land use and transportation projects and plans, as part of the planning process. Local agencies shall incorporate strategies identified in the Federal Highway Administration’s publication: Integrating Demand Management into the Transportation Planning Process: A Desk</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

		mitigation measures identified in the Draft/Final EIR as applicable.	<p>Reference (August 2012) into the planning process (FHWA 2012). For example, the following strategies may be included to encourage use of transit and non-motorized modes of transportation and reduce vehicle miles traveled on the region's roadways:</p> <ul style="list-style-type: none"> <li>▲ include TDM mitigation requirements for new developments;</li> <li>▲ incorporate supporting infrastructure for non-motorized modes, such as, bike lanes, secure bike parking, sidewalks, and crosswalks;</li> <li>▲ provide incentives to use alternative modes and reduce driving, such as, universal transit passes, road and parking pricing;</li> <li>▲ implement parking management programs, such as parking cash-out, priority parking for carpools and vanpools;</li> <li>▲ develop TDM-specific performance measures to evaluate project-specific and system-wide performance;</li> <li>▲ incorporate TDM performance measures in the decision-making process for identifying transportation investments;</li> <li>▲ implement data collection programs for TDM to determine the effectiveness of certain strategies and to measure success over time; and</li> <li>▲ set aside funding for TDM initiatives.</li> </ul> <p>The increase in per capita VMT on facilities experiencing LOS F represents a significant impact compared to existing conditions. To assess whether implementation of these specific mitigation strategies would result in measurable traffic congestion reductions, implementing actions may need to be further refined within the overall parameters of the proposed Plan and matched to local conditions in any subsequent project-level environmental analysis.</p>		
<b>Impact 2.1-4:</b> Implementation of the proposed Plan could result in a significant increase in per capita VMT compared to existing conditions. A significant increase in per capita VMT is defined as greater than 5 percent.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in a significant increase (greater than 5 percent) in per capita VMT compared to existing conditions (see <b>Table 7</b> ). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.1-5:</b> Implementation of the proposed Plan could result in increased percent utilization of regional transit supply resulting in an exceedance of	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in increased percent utilization of regional transit supply resulting in an exceedance (greater than	No mitigation is required.	No	Less than Significant

<p>transit capacity during the AM peak period, PM peak period, or on a daily basis. An exceedance is defined as passenger seat-mile demand for any transit technology being greater than 80 percent of passenger seat-miles supplied by transit operators.</p>		<p>80 percent) of transit capacity during the AM peak period, PM peak period, or on a daily basis. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>			
<p><b>Impact 2.1-6:</b> Implementation of the proposed Plan could cause a disruption to goods movement into or through the Bay Area region.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not cause a disruption to goods movement into or through the Bay Area region. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.1-7:</b> Implementation of the proposed Plan could cause a disruption to the ongoing operations of the applicable regional or local area transportation system because of construction activities.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not cause a disruption to the ongoing operations of the applicable regional or local area transportation system because of construction activities. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.1-7:</b> Implementing agencies and/or project sponsors shall implement the following measure, where feasible and necessary based on project- and site-specific considerations that include:  Implementing agencies shall require implementation of best practice strategies regarding construction activities on the transportation system and apply recommended applicable mitigation measures as defined by state and federal agencies. Examples of mitigation measures include, but are not limited to, the following:</p> <ul style="list-style-type: none"> <li>▲ prepare a transportation construction plan for all phases of construction;</li> <li>▲ establish construction phasing/staging schedule and sequence that minimizes impacts of a work zone on traffic by using operationally-sensitive phasing and staging throughout the life of the project;</li> <li>▲ identify arrival/departure times for trucks and construction workers to avoid peak periods of adjacent street traffic and minimize traffic affects;</li> <li>▲ identify optimal delivery and haul routes to and from the site to minimize impacts to traffic, transit, pedestrians, and bicyclists;</li> <li>▲ identify appropriate detour routes for bicycles and pedestrians in areas affected by construction;</li> <li>▲ coordinate with local transit agencies and provide for relocation of bus stops and ensure adequate wayfinding and signage to notify transit users;</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>



			<ul style="list-style-type: none"> <li>▲ preserve emergency vehicle access;</li> <li>▲ implement public awareness strategies to educate and reach out to the public, businesses, and the community concerning the project and work zone (e.g., brochures and mailers, press releases/media alerts);</li> <li>▲ provide a point of contact for residents, employees, property owners, and visitors to obtain construction information, and provide comments and questions;</li> <li>▲ provide current and/or real-time information to road users regarding the project work zone (e.g., changeable message sign to notify road users of lane and road closures and work activities, temporary conventional signs to guide motorists through the work zone); and</li> <li>▲ encourage construction workers to use transit, carpool, and other sustainable transportation modes when commuting to and from the site.</li> </ul>		
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**2.2 AIR QUALITY**

<p><b>Impact 2.2-1:</b> Implementation of the proposed Plan could conflict with or obstruct implementation of an applicable air quality plan, including: the primary goals, applicable control measures, or implementation of any control measures.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not conflict with or obstruct implementation of an applicable air quality plan, including: the primary goals, applicable control measures, or implementation of any control measures. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.2-2:</b> Implementation of the proposed Plan could result in a substantial net increase in construction-related emissions.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a substantial net increase in construction-related emissions. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.2-2:</b> When screening levels are exceeded (see Table 2.2-8 or those most currently updated by BAAQMD), implementing agencies and/or project sponsors shall implement measures, where applicable, feasible, and necessary based on project- and site-specific considerations, that include, but are not limited to the following: Construction Best Practices for Exhaust</p> <ul style="list-style-type: none"> <li>▲ The applicant/general contractor for the project shall submit a list of all off-road equipment greater than 25 horsepower (hp) that would be operated for more than 20 hours over the entire duration of project construction, including equipment from subcontractors, to BAAQMD for review and certification. The list shall include all</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<p>information necessary to ensure the equipment meets the following requirement:</p> <ul style="list-style-type: none"> <li>▲ 1) Be zero emissions OR 2) have engines that meet or exceed either EPA or ARB Tier 2 off-road emission standards; and 3) have engines that are retrofitted with an ARB Level 3 Verified Diesel Emissions Control Strategy (VDECS), if one is available for the equipment being used. Equipment with engines that meet Tier 4 Interim or Tier 4 Final emission standards automatically meet this requirement; therefore, a VDECS would not be required.</li> <li>▲ Idling time of diesel powered construction equipment and trucks shall be limited to no more than two minutes. Clear signage of this idling restriction shall be provided for construction workers at all access points.</li> <li>▲ All construction equipment shall be maintained and properly tuned in accordance with the manufacturers' specifications.</li> <li>▲ Portable diesel generators shall be prohibited. Grid power electricity should be used to provide power at construction sites; or propane and natural gas generators may be used when grid power electricity is not feasible.</li> </ul> <p>Construction Best Practices for Dust</p> <ul style="list-style-type: none"> <li>▲ All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day. For projects over five acres in size, soil moisture should be maintained at a minimum of 12 percent. Moisture content can be verified by lab samples or a moisture probe.</li> <li>▲ All haul trucks transporting soil, sand, or other loose material off-site shall be covered.</li> <li>▲ All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. Dry power sweeping should only be performed in conjunction with thorough watering of the subject roads.</li> <li>▲ All vehicle speeds on unpaved roads and surfaces shall be limited to 15 mph.</li> <li>▲ All roadway, driveway, and sidewalk paving shall be completed as soon as possible. Building pads shall be paved as soon as possible after grading.</li> <li>▲ All construction sites shall provide a posted sign visible to the public with the telephone number and person to contact at the Lead Agency regarding dust complaints. The recommended response time for corrective action shall be within 48 hours. BAAQMD's Complaint Line (1-800-334-6367) shall also be</li> </ul>		
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			<p>included on posted signs to ensure compliance with applicable regulations.</p> <ul style="list-style-type: none"> <li>▲ All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.</li> <li>▲ Wind breaks (e.g., trees, fences) shall be installed on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.</li> <li>▲ Vegetative ground cover (e.g., fast-germinating native grass seed) shall be planted in disturbed areas as soon as possible and watered appropriately until vegetation is established.</li> <li>▲ The simultaneous occurrence of excavation, grading, and ground-disturbing construction activities on the same area at any one time shall be limited. Activities shall be phased to reduce the amount of disturbed surfaces at any one time.</li> <li>▲ All trucks and equipment, including their tires, shall be washed off before leaving the site.</li> <li>▲ Site accesses to a distance of 100 feet from the paved road shall be treated with a 6- to 12-inch compacted layer of wood chips, mulch, or gravel.</li> <li>▲ Sandbags or other erosion control measures shall be installed to prevent silt runoff to public roadways from sites with a slope greater than one percent.</li> </ul> <p>These BMPs are consistent with recommendations in BAAQMD’s CEQA guidelines and Planning Healthy Places (BAAQMD 2010b, BAAQMD 2016). Applicable mitigation measures shall be required at the time grading permits are issued.</p>		
<p><b>Impact 2.2-3:</b> Implementation of the proposed Plan could result in a net increase of emissions of criteria pollutants from on-road mobile and land use sources compared to existing conditions, including emissions of ROG, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>, as the SFBAAB is in non-attainment for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub> standards.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a net increase of emissions of criteria pollutants from on-road mobile and land use sources compared to existing conditions, including emissions of ROG, NO<sub>x</sub>, CO, PM<sub>10</sub>, and PM<sub>2.5</sub>, as the SFBAAB is in non-attainment for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub> standards (see <b>Table 9</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.2-3(a):</b> MTC and ABAG, in partnership with BAAQMD, and implementing agencies, shall use existing air quality and transportation funds and seek additional funds to continue to implement BAAQMD and ARB programs (e.g., Carl Moyer) aimed at retrofits and replacements of trucks and locomotives.</p> <p><b>Mitigation Measure 2.2-3(b):</b> MTC and ABAG, in partnership with BAAQMD and the Port of Oakland, and other agency partners, shall work together to secure incentive funding to reduce mobile PM emissions from mobile exhaust and entrained PM sources such as tire wear, break wear, and roadway dust.</p> <p><b>Mitigation Measure 2.2-3(c):</b> MTC and ABAG, in partnership with local air districts, and implementing agencies shall implement Mitigation Measures 2.1-3 (a) and 2.1-3 (b).</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<b>Mitigation Measure 2.2-3(d):</b> When screening levels are exceeded (see Table 2.2-8 or those most currently updated by BAAQMD), implementing agencies and/or project sponsors shall implement measures, where applicable, feasible, and necessary based on project- and site-specific considerations, that include, but are not limited to the following or are updated by BAAQMD or within CalEEMod.		
<b>Impact 2.2-4:</b> Implementation of the proposed Plan could cause a cumulative net increase in emissions of toxic air contaminants, including diesel PM, 1,3-butadiene, and benzene, from on-road mobile sources compared to existing conditions.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not cause a cumulative net increase in emissions of toxic air contaminants, including diesel PM, 1,3-butadiene, and benzene, from on-road mobile sources compared to existing conditions. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.2-5:</b> Implementation of the proposed Plan could result in a net increase in sensitive receptors located in Transit Priority Areas (TPA) where: (a) TACs or PM <sub>2.5</sub> concentrations result in cancer risk levels greater than 100 in a million or a concentration of PM <sub>2.5</sub> greater than 0.8 µg/m <sup>3</sup> ; or (b) TACs or PM <sub>2.5</sub> concentrations result in noncompliance with an adopted Community Risk Reduction Plan.	Significant and Unavoidable *Less than Significant with Mitigation	No. Implementation of the proposed amendment to the Plan would not result in a net increase in sensitive receptors located in Transit Priority Areas (TPA) where: (a) TACs or PM <sub>2.5</sub> concentrations result in cancer risk levels greater than 100 in a million or a concentration of PM <sub>2.5</sub> greater than 0.8 µg/m <sup>3</sup> ; or (b) TACs or PM <sub>2.5</sub> concentrations result in noncompliance with an adopted Community Risk Reduction Plan. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.	<b>Mitigation Measure 2.2-5(a):</b> When locating sensitive receptors in TAC risk areas, as identified in Figures 2.2-3 to 2.2-13, implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to the following: <ul style="list-style-type: none"> <li>▲ Install, operate and maintain in good working order a central heating, ventilation and air conditioning (HVAC) system or other air intake system in the building, or in each individual unit, that meets or exceeds a minimum efficiency reporting value (MERV) of 13 (MERV-16 for projects located in the West Oakland Specific Plan area) or higher. The HVAC system shall include the following features: Installation of a high efficiency filter and/or carbon filter to filter particulates and other chemical matter from entering the building. Either high efficiency particulate air (HEPA) filters or American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) certified 85% supply filters shall be used.</li> <li>▲ Maintain, repair and/or replace HVAC system on an ongoing and as needed basis or shall prepare an operation and maintenance manual for the HVAC system and the filter. The manual shall include the operating instructions and the maintenance and replacement schedule. This manual shall be included in the Covenants, Conditions and Restrictions (CC&amp;Rs) for residential projects and/or distributed to the building maintenance staff. In addition, the applicant shall prepare a separate homeowners manual. The manual shall contain the operating instructions and</li> </ul>	No	Significant and Unavoidable *Less than Significant with Mitigation

			<p>the maintenance and replacement schedule for the HVAC system and the filters.</p> <ul style="list-style-type: none"> <li>▲ Install passive electrostatic filtering systems with low air velocities (i.e., less than 1 mph).</li> <li>▲ Individual and common exterior open space and outdoor activity areas proposed as part of individual projects shall be located as far away as possible within the project site boundary, face away major freeways, and shall be shielded from the source (i.e., the roadway) of air pollution by buildings or otherwise buffered to further reduce air pollution for project occupants.</li> <li>▲ Locate air intakes and design windows to reduce PM exposure (e.g., windows nearest to the roadway do not open).</li> <li>▲ If sensitive receptors are located near a distribution center, residents shall not be located immediately adjacent to a loading dock or where trucks concentrate to deliver goods.</li> <li>▲ Sensitive receptors within buildings shall be located in areas upwind of major roadway traffic to reduce exposure to reduce cancer risk levels and exposure to PM<sub>2.5</sub>.</li> <li>▲ Planting trees and/or vegetation between sensitive receptors and pollution source. Trees that are best suited to trapping PM shall be planted, including one or more of the following species: Pine (<i>Pinus nigra</i> var. <i>maritima</i>), Cypress (<i>X Cupressocyparis leylandii</i>), Hybrid poplar (<i>Populus deltoids X trichocarpa</i>), California pepper tree (<i>Schinus molle</i>) and Redwoods (<i>Sequoia sempervirens</i>).</li> <li>▲ Loading docks shall be required to include electric hookups for visiting trucks.</li> <li>▲ Idling of heavy duty diesel trucks at these locations shall be prohibited or limited to no more than 2 minutes.</li> <li>▲ If within the project site, existing and new diesel generators shall meet ARB's Tier 4 emission standards.</li> <li>▲ Emissions from diesel trucks shall be reduced through establishing truck routes to avoid residential neighborhoods or other land uses serving sensitive populations, such as hospitals, schools, and child care centers. A truck route program, along with truck calming, parking and delivery restrictions, shall be implemented to direct traffic activity at non-permitted sources and large construction projects.</li> </ul> <p>These BMPs are consistent with recommendations in BAAQMD's CEQA guidelines and Planning Healthy Places (BAAQMD 2011, BAAQMD 2016).</p>		
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<p><b>Impact 2.2-6:</b> Implementation of the proposed Plan could result in changes in TAC and or PM<sub>2.5</sub> exposure levels that disproportionately impact minority and low-income populations.</p>	<p>Significant and Unavoidable</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in changes in TAC and or PM<sub>2.5</sub> exposure levels that disproportionately impact minority and low-income populations (see <b>Table 10</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.2-6(a):</b> MTC/ABAG shall partner with BAAQMD and local lead agencies to develop a program to install air filtration devices in existing residential buildings, and other buildings with sensitive receptors, located near freeways or sources of TACs and PM<sub>2.5</sub>.</p> <p><b>Mitigation Measure 2.2-6(b):</b> MTC/ABAG shall partner with BAAQMD to develop a program to provide incentives to replace older locomotives and trucks in the region to reduce TACs and PM<sub>2.5</sub>.</p> <p><b>Mitigation Measure 2.2-6(c):</b> MTC and ABAG, in partnership with local air districts, and implementing agencies shall implement Mitigation Measures 2.1-3 (a) and 2.1-3 (b).</p> <p><b>Mitigation Measure 2.2-6 (d):</b> Implement measure 2.2-5(a).</p>	<p>No</p>	<p>Significant and Unavoidable</p>
<p><b>Impact 2.2-7:</b> Implementation of the proposed Plan could result in a substantial emission of objectionable odors.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a substantial emission of objectionable odors. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>

**2.3 LAND USE AND PHYSICAL DEVELOPMENT**

<p><b>Impact 2.3-1:</b> Implementation of the proposed Plan could increase the risk of displacement for a substantial number of existing residents, necessitating the construction and preservation of additional affordable housing elsewhere within the region.</p>	<p>Potentially Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not increase the risk of displacement for a substantial number of existing residents, necessitating the construction and preservation of additional affordable housing elsewhere within the region. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.3-1:</b> Implementing agencies and/or project sponsors shall implement, where feasible and necessary, the mitigation measures described throughout this EIR to address the effects of displacement that could result in the construction of replacement housing, including Mitigation Measures 2.2-2 (air quality); 2.3-2, 2.3-4, and 2.3-5 (land use); 2.5-4 (sea level rise); 2.6-1, 2.6-5, and 2.6-6 (noise); 2.9-1 through 2.9-5 (biological resources); 2.10-1 and 2.10-3 through 2.10-5 (visual resources); 2.11-1 through 2.11-5 (cultural resources); and 2.13-4 (hazards).</p>	<p>No</p>	<p>Potentially Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>Impact 2.3-2:</b> Implementation of the proposed Plan could physically divide an established community.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not physically divide an established community. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.3-2:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project-and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ New transportation projects within urban areas shall be required to incorporate design features such as sidewalks, bike lanes, and bike/pedestrian bridges or tunnels that maintain or improve access and connections within existing communities and to public transit.</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<ul style="list-style-type: none"> <li>▲ Through regional programs such as the One Bay Area Grants (OBAG), MTC/ABAG shall continue to support planning efforts for locally sponsored traffic calming and alternative transportation initiatives, such as paths, trails, overcrossings, bicycle plans, that foster improved neighborhoods and community connections.</li> </ul>		
<p><b>Impact 2.3-3:</b> Implementation of the proposed Plan could conflict with applicable land use plans, policies, or regulations of an agency with jurisdiction over the project (including, but not limited to the general plans, specific plans, local coastal programs) adopted for the purpose of avoiding or mitigating an environmental effect.</p>	Less than Significant	No. Implementation of the proposed amendment to the Plan would not conflict with applicable land use plans, policies, or regulations of an agency with jurisdiction over the project (including, but not limited to the general plans, specific plans, local coastal programs) adopted for the purpose of avoiding or mitigating an environmental effect. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<p><b>Impact 2.3-4:</b> Implementation of the proposed Plan could directly or indirectly convert substantial amounts of important agricultural lands and open space (Prime Farmland, Unique Farmland, or Farmland of Statewide Importance) or lands under Williamson Act contract to non-agricultural use.</p>	Significant and Unavoidable *Less than Significant with Mitigation	No. Implementation of the proposed amendment to the Plan would not directly or indirectly convert substantial amounts of important agricultural lands and open space (Prime Farmland, Unique Farmland, or Farmland of Statewide Importance) or lands under Williamson Act contract to non-agricultural use. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.	<p><b>Mitigation Measure 2.3-4:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project-and site-specific considerations that include but are not limited to those identified below.</p> <ul style="list-style-type: none"> <li>▲ require project relocation or corridor realignment, where feasible, to avoid agricultural land, especially Prime Farmland;</li> <li>▲ maintain and expand agricultural land protections such as urban growth boundaries;</li> <li>▲ compensatory mitigation may be achieved in advance of impacts through the purchase or creation of mitigation credits or the implementation of mitigation projects through Regional Advance Mitigation Planning (RAMP), as deemed appropriate by the permitting agencies;</li> <li>▲ require acquisition of conservation easements on land at least equal in quality and size as mitigation for the loss of agricultural land; and/or</li> <li>▲ institute new protection of farmland in the project area or elsewhere through the use of long-term restrictions on use, such as 20-year Farmland Security Zone contracts (Government Code Section 51296 et seq.) or 10-year Williamson Act contracts (Government Code Section 51200 et seq.).</li> </ul>	No	Significant and Unavoidable *Less than Significant with Mitigation

<p><b>Impact 2.3-5:</b> Implementation of the proposed Plan could directly or indirectly result in the loss of forest land, conversion of forest land to non-forest use, or conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not directly or indirectly result in the loss of forest land, conversion of forest land to non-forest use, or conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.3-5:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project-and site-specific considerations including but not limited to those identified below.</p> <ul style="list-style-type: none"> <li>▲ require project relocation or corridor realignment, where feasible, to avoid forest land;</li> <li>▲ maintain and expand forest land protections such as urban growth boundaries;</li> <li>▲ compensatory mitigation may be achieved in advance of impacts through the purchase or creation of mitigation credits or the implementation of mitigation projects through Regional Advance Mitigation Planning (RAMP), as deemed appropriate by the permitting agencies; and/or</li> </ul> <p>require acquisition of conservation easements on land at least equal in quality and size as mitigation for the loss of forest land.</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
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**2.4 ENERGY**

<p><b>Impact 2.4-1:</b> Implementation of the proposed Plan could result in wasteful, inefficient, or unnecessary consumption of energy, during project construction or operation, as evidenced by a failure to decrease overall per capita energy consumption or decrease reliance on fossil fuels such as coal, natural gas, and oil.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in wasteful, inefficient, or unnecessary consumption of energy, during project construction or operation, as evidenced by a failure to decrease overall per capita energy consumption or decrease reliance on fossil fuels such as coal, natural gas, and oil. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.4-2:</b> Implementation of the proposed Plan could fail to incorporate feasible renewable energy or energy efficiency measures into building design, equipment uses, transportation, or other project features, or otherwise fail to increase reliance on renewable energy sources.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not fail to incorporate feasible renewable energy or energy efficiency measures into building design, equipment uses, transportation, or other project features, or otherwise fail to increase reliance on renewable energy sources. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>



**2.5 CLIMATE CHANGE AND GREENHOUSE GASES**

<p><b>Impact 2.5-1:</b> Implementation of the proposed Plan could fail to reduce per capita passenger vehicle and light duty truck CO<sub>2</sub> emissions by seven percent by 2020 and by 15 percent by 2035 as compared to the 2005 baseline, per SB 375.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not fail to reduce per capita passenger vehicle and light duty truck CO<sub>2</sub> emissions by seven percent by 2020 and by 15 percent by 2035 as compared to the 2005 baseline, per SB 375 (see <b>Table 12</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.5-2:</b> Implementation of the proposed Plan could result in a net increase in direct and indirect GHG emissions in 2040 when compared to existing conditions.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a net increase in direct and indirect GHG emissions in 2040 when compared to existing conditions (see <b>Table 13/14</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.5-3:</b> Implementation of the proposed Plan could substantially conflict with the goal of SB 32 to reduce statewide GHG emissions to 40 percent below 1990 levels by 2030.</p>	<p>Significant and Unavoidable</p>	<p>No. Implementation of the proposed amendment to the Plan would not substantially conflict with the goal of SB 32 to reduce statewide GHG emissions to 40 percent below 1990 levels by 2030 (see <b>Table 15</b>). The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.5-3:</b> Consistent with the recommendations in the Draft 2017 Scoping Plan, implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ MTC and ABAG, in partnership with the BAAQMD, shall work with the counties and cities in the Bay Area to adopt qualified GHG reduction plans (e.g., CAPs). The CAPs can be regional or adopted by individual jurisdictions, so long as they meet the standards of a GHG reduction program as described in CEQA Guidelines Section 15183.5. At the regional level, the cumulative emissions reduction of individual CAPs within the region or a regional CAP should demonstrate an additional Bay Area-wide reduction of 24 MMTCO<sub>2</sub>e from land uses and on-road transportation compared with projected 2040 emissions levels already expected to be achieved by the Plan. (This is based on the 2015 Bay Area land use and on-road transportation emissions of 52 MMTCO<sub>2</sub>e, an interpolated statewide GHG reduction target of 60 percent below 1990 levels by 2040, and a two percent increase in statewide emissions between 1990 and 2015). The CAP(s) should also show a commitment to achieving a downward trajectory in emissions</li> </ul>	<p>No</p>	<p>Significant and Unavoidable</p>

			<p>post-2040 to meet statewide goals of reducing GHG emissions by 80 percent below 1990 levels by 2050, per S-03-05.</p> <p>These reductions can be achieved through a combination of programs, including ZNE in new construction, retrofits of existing buildings, incentivizing and development of renewable energy sources that serve both new and existing land uses, and other measures so long as the overall 32 MMTCO<sub>2e</sub> reduction (by 2040) can be demonstrated. This target can be adjusted if statewide legislation or regulations would reduce GHG emissions, so long as a trajectory to achieve this target in the Bay Area is maintained.</p> <p>Implementation of CAPs in the region would help to reduce both GHG and area source emissions from the land use projects that would be constructed under the Plan, as well as reducing GHG emissions from existing uses. However, this may require installation of renewable energy facilities on houses and businesses, construction of community-serving facilities such as small-scale solar farms, or other actions. These additional facilities, if needed, could require in additional land conversion, resulting in similar environmental impacts associated with land use development described throughout this EIR.</p>		
<p><b>Impact 2.5-4:</b> Implementation of the proposed Plan could substantially conflict with local plans or policies adopted to reduce emissions of GHGs.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not substantially conflict with local plans or policies adopted to reduce emissions of GHGs. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.5-5:</b> Implementation of the proposed Plan could result in a net increase in transportation projects within areas projected to be regularly inundated by sea level rise by midcentury.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a net increase in transportation projects within areas projected to be regularly inundated by sea level rise by midcentury. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p>Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to: <b>Mitigation Measure 2.5-4(a):</b> MTC and ABAG shall continue coordinating with BCDC, in partnership with the Bay Area Regional Collaborative and regional agencies and other partners, to conduct vulnerability and risk assessments for the region's transportation infrastructure. These assessments will build upon MTC and BCDC's Adapting to Rising Tides Program projects. Evaluation of regional and project-level vulnerability and risk assessments will assist in the identification of the appropriate adaptation strategies to protect transportation infrastructure and resources, as well as land use development projects, that are likely to be impacted. The Adaptation Strategies (see Appendix F of this Draft EIR) includes a list of potential</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<p>adaptation strategies that can mitigate the impacts of sea level rise. In most cases, more than one adaptation strategy will be required to protect a given transportation project or land use development project, and the implementation of the adaptation strategy will require coordination with other agencies and stakeholders. As MTC and BCDC conduct vulnerability and risk assessments for the region's transportation infrastructure, the Adaptation Strategies should serve as a guide for selecting adaptation strategies and should be expanded as additional strategies are identified.</p> <p><b>Mitigation Measure 2.5-4(b):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to, coordination with BCDC, Caltrans, local jurisdictions (cities and counties), Park Districts, and other transportation agencies to develop Transportation Asset Management Plans that consider the potential impacts of sea level rise over the life cycle of threatened assets.</p> <p><b>Mitigation Measure 2.5-4(c):</b> Implementing agencies shall require project sponsors to incorporate the appropriate adaptation strategy or strategies to reduce the impacts of sea level rise, changes in precipitation and storm events on specific local transportation and land use development projects, where feasible, based on project- and site-specific considerations. Potential adaptation strategies are included in the Adaptation Strategies (see Appendix F of this Draft EIR).</p>		
<p><b>Impact 2.5-6:</b> Implementation of the proposed Plan could result in an increase in land use development within areas regularly inundated by sea level rise by midcentury.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in an increase in land use development within areas regularly inundated by sea level rise by midcentury. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p>Implement <b>Mitigation Measures 2.5-4(a) and 2.5-4(b)</b> under Impact 2.5-4.</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>2.6 NOISE</b></p>					
<p><b>Impact 2.6-1:</b> Implementation of the proposed Plan could result in exposure of persons to or generation of temporary construction noise levels and/or ground vibration levels in excess of standards established by local jurisdictions or other applicable regulatory agencies.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in exposure of persons to or generation of temporary construction noise levels and/or ground vibration levels in excess of standards established by local jurisdictions or other applicable regulatory agencies. The potential impacts of the proposed amendment to the Plan</p>	<p><b>Mitigation Measure 2.6-1(a):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:  To reduce construction noise levels, implementing agencies and/or project sponsors shall:</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

		<p>are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<ul style="list-style-type: none"> <li>▲ comply with local construction-related noise standards, including restricting construction activities to permitted hours as defined under local jurisdiction regulations (e.g.; Alameda County Code restricts construction noise to between 7:00 am and 7:00 pm on weekdays and between 8:00 am and 5:00 pm on weekend);</li> <li>▲ properly maintain construction equipment and outfit construction equipment with the best available noise suppression devices (e.g. mufflers, silencers, wraps);</li> <li>▲ prohibit idling of construction equipment for extended periods of time in the vicinity of sensitive receptors;</li> <li>▲ locate stationary equipment such as generators, compressors, rock crushers, and cement mixers a minimum of 50 feet from sensitive receptors, but further if possible;</li> <li>▲ erect temporary construction-noise barriers around the construction site when adjacent occupied sensitive land uses are present within 75 feet;</li> <li>▲ use noise control blankets on building structures as buildings are erected to reduce noise emission from the site; and</li> <li>▲ use cushion blocks to dampen impact noise from pile driving.</li> </ul> <p>Mitigation Measure 2.6-1(b): To reduce construction vibration levels, implementing agencies and/or project sponsors shall comply with the following:</p> <ul style="list-style-type: none"> <li>▲ to minimize disturbance of receptors within 550 feet of pile-driving activities, implement "quiet" pile-driving technology (such as pre-drilling of piles and the use of more than one pile driver to shorten the total pile driving duration), where feasible, in consideration of geotechnical and structural requirements and conditions; and</li> <li>▲ to reduce structural damage, where pile driving is proposed within 50 feet of an older or historic building, engage a qualified geotechnical engineer and qualified historic preservation professional (for designated historic buildings only) and/or structural engineer to conduct a pre-construction assessment of existing subsurface conditions and the structural integrity of nearby (i.e., within 50 feet) historic structures that would be exposed to pile-driving activity. If recommended by the pre-construction assessment, for structures or facilities within 50 feet of pile-driving activities, the project sponsors shall require ground vibration monitoring of nearby historic structures. Such methods and technologies shall be based on the specific conditions at the construction site such as, but not limited to, the pre-construction surveying of potentially affected historic structures and</li> </ul>		
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			<p>underpinning of foundations of potentially affected structures, as necessary. The pre-construction assessment shall include a monitoring program to detect ground settlement or lateral movement of structures in the vicinity of pile-driving activities and identify corrective measures to be taken should monitored vibration levels indicate the potential for building damage. In the event of unacceptable ground movement with the potential to cause structural damage, all impact work shall cease and corrective measures shall be implemented to minimize the risk to the subject, or adjacent, historic structure.</p>		
<p><b>Impact 2.6-2:</b> Implementation of the proposed Plan could result in long-term permanent increases in traffic-noise levels that exceed applicable thresholds.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in long-term permanent increases in traffic-noise levels that exceed applicable thresholds. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.6-2:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <p>For all new development that could be located within the 70 dBA CNEL noise contour of a roadway (within 270 feet of the roadway's centerline based on freeways with the greatest volumes in the region), a site-specific noise study shall be conducted by a qualified acoustical engineer or noise specialist, to evaluate noise exposure at new receptors and recommend appropriate measures to reduce noise exposure. To reduce exposure from traffic-noise, lead agencies and/or project sponsors shall consider mitigation measures including, but not limited to those identified below:</p> <ul style="list-style-type: none"> <li>▲ design adjustments to proposed roadway or transit alignments to reduce noise levels in noise sensitive areas (e.g., below-grade roadway alignments can effectively reduce noise levels in nearby areas);</li> <li>▲ use techniques such as landscaped berms, dense plantings, reduced-noise paving materials, and traffic calming measures in the design of their transportation improvements;</li> <li>▲ contribute to the insulation of buildings or construction of noise barriers around sensitive receptor properties adjacent to the transportation improvement;</li> <li>▲ use land use planning measures, such as zoning, restrictions on development, site design, and buffers to ensure that future development is noise compatible with adjacent transportation facilities and land uses;</li> <li>▲ construct roadways so that they are depressed below-grade of the existing sensitive land uses to create an effective barrier between new roadway lanes, roadways, rail lines, transit centers, park- n-ride lots, and other new noise generating facilities; and</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<ul style="list-style-type: none"> <li>▲ maximize the distance between noise-sensitive land uses and new noise-generating facilities and transportation systems.</li> </ul>		
<p><b>Impact 2.6-3:</b> Implementation of the proposed Plan could result in long-term permanent increases in rail transit noise levels that exceed applicable thresholds.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in long-term permanent increases in rail transit noise levels that exceed applicable thresholds. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.6-3(a):</b> To reduce transit-related noise exposure to existing or proposed development within 50 feet of a rail transit line, implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <p>When finalizing development project site plans, noise-sensitive outdoor use areas shall be sited as far away from adjacent noise sources as possible and site plans shall be designed to shield noise-sensitive spaces with buildings or noise barriers whenever possible.</p> <p><b>Mitigation Measure 2.6-3(b):</b> When finalizing development project site plans or transportation project design, sufficient setback between occupied structures and the railroad tracks shall be provided to minimize noise exposure to the extent feasible.</p> <p><b>Mitigation Measure 2.6-3(c):</b> Prior to project approval, the implementing agency for a transportation project shall ensure that the transportation project sponsor applies the following mitigation measures (or other technologically feasible measures) to achieve a site-specific exterior noise level of 70 dBA CNEL (or other applicable local noise standard) and interior noise level of 45 dBA CNEL at sensitive land uses, as applicable for transit projects:</p> <ul style="list-style-type: none"> <li>▲ use of sound reduction barriers such as landscaped berms and dense plantings,</li> <li>▲ locate rail extension below grade as feasible,</li> <li>▲ use of damped wheels on railway cars,</li> <li>▲ use of vehicle skirts,</li> <li>▲ use under car acoustically absorptive material, and</li> <li>▲ install sound insulation treatments for impacted structures.</li> </ul>	No	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>Impact 2.6-4:</b> Implementation of the proposed Plan could result in long-term permanent increase in transit-vibration levels that exceed applicable thresholds.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in long-term permanent increase in transit-vibration levels that exceed applicable thresholds. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.6-4(a):</b> To reduce vibration effects from rail operations, implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <p>When finalizing site plans for a development or transportation project, implementing agencies shall conduct a project-level noise and vibration assessments for new residential or other sensitive land uses to be located within 200 feet of an existing rail line. These studies shall be conducted by a qualified acoustical engineer or noise specialist to determine vibration levels at these projects and recommend feasible mitigation measures (e.g., insulated windows and walls, sound walls or</p>	No	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<p>barriers, distance setbacks, or other construction or design measures) that would reduce vibration-noise to an acceptable level.</p> <p><b>Mitigation Measure 2.6-4(b):</b> Prior to project approval, the implementing agencies shall ensure that project sponsors apply the following mitigation measures to achieve FTA recommended vibration levels of 72 VdB at residential land uses, or other applicable standard, for rail extension projects:</p> <ul style="list-style-type: none"> <li>▲ use of high resilience (soft) direct fixation fasteners for embedded track;</li> <li>▲ install ballast mat, or other approved technology for the purpose of reducing vibration, for ballast and tie track; and</li> <li>▲ conduct regular rail maintenance including rail grinding, wheel truing to re-contour wheels, providing smooth running surfaces.</li> </ul>		
<p><b>Impact 2.6-5:</b> Implementation of the proposed Plan could result in general increases in ambient noise and associated exposure of sensitive receptors to new or additional stationary noise sources in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in general increases in ambient noise and associated exposure of sensitive receptors to new or additional stationary noise sources in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.6-5:</b> To reduce exposure to new and existing sensitive receptors from non-transportation noise associated with projected development, implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Local agencies approving land use projects shall require that routine testing and preventive maintenance of emergency electrical generators be conducted during the less sensitive daytime hours (per the applicable local municipal code). Electrical generators or other mechanical equipment shall be equipped with noise control (e.g., muffler) devices in accordance with manufacturers' specifications.</li> <li>▲ Local agencies approving land use projects shall require that external mechanical equipment, including HVAC units, associated with buildings incorporate features designed to reduce noise to below 70 dBA CNEL or the local applicable noise standard. These features may include, but are not limited to, locating equipment within equipment rooms or enclosures that incorporate noise reduction features, such as acoustical louvers, and exhaust and intake silencers. Equipment enclosures shall be oriented so that major openings (i.e., intake louvers, exhaust) are directed away from nearby noise-sensitive receptors.</li> </ul>	No	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>Impact 2.6-6:</b> Implementation of the proposed Plan could result in exposure of people residing or working in the planning area to excessive noise levels where an airport land use plan is adopted or, where</p>	<p>Significant and Unavoidable</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in exposure of people residing or working in the planning area to excessive noise levels where an airport land use plan is adopted or, where such</p>	<p><b>Mitigation Measure 2.6-6:</b> To reduce exposure from airport-related noise, implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p>	No	<p>Significant and Unavoidable</p>

<p>such a plan has not been adopted, within two miles of a public airport, public use airport, or private airstrip.</p>	<p>*Less than Significant with Mitigation</p>	<p>a plan has not been adopted, within two miles of a public airport, public use airport, or private airstrip. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p>Local lead agencies for all new development proposed to be located within an existing airport influence zone, as defined by the locally adopted airport land use compatibility plan or local general plan, shall require a site-specific noise compatibility. The study shall consider and evaluate existing aircraft noise, based on specific aircraft activity data for the airport in question, and shall include recommendations for site design and building construction to ensure compliance with interior noise levels of 45 dBA CNEL, such that the potential for sleep disturbance is minimized.</p>		<p>*Less than Significant with Mitigation</p>
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**2.7 GEOLOGY AND SEISMICITY**

<p><b>Impact 2.7-1:</b> Implementation of the proposed Plan could increase the exposure of people or structures to the risk of property loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area, or based on other substantial evidence of a known fault.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not increase the exposure of people or structures to the risk of property loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.7-2:</b> Implementation of the proposed Plan could increase exposure of people or structures to the risk of property loss, injury, or death involving strong seismic ground shaking.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not increase exposure of people or structures to the risk of property loss, injury, or death involving strong seismic ground shaking. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.7-3:</b> Implementation of the proposed Plan could increase exposure of people or structures to the risk of property loss, injury, or death involving seismic-related ground failure, including liquefaction.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not increase exposure of people or structures to the risk of property loss, injury, or death involving seismic-related ground failure, including liquefaction. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>



		severity of the previously disclosed impacts would not substantially increase.			
<b>Impact 2.7-4:</b> Implementation of the proposed Plan could increase exposure of people or structures to the risk of property loss, injury, or death involving landslides.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not increase exposure of people or structures to the risk of property loss, injury, or death involving landslides. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.7-5:</b> Implementation of the proposed Plan could result in substantial soil erosion or topsoil loss.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in substantial soil erosion or topsoil loss. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.7-6:</b> Implementation of the proposed Plan could result in locating development on a geologic unit or soil that is unstable, contains expansive properties, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in locating development on a geologic unit or soil that is unstable, contains expansive properties, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.7-7:</b> Implementation of the proposed Plan could result in the loss of availability of a known mineral resource that would be of value to the region or the residents of the State or a locally-important mineral resources recovery site delineated on a local land use plan.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in the loss of availability of a known mineral resource that would be of value to the region or the residents of the State or a locally-important mineral resources recovery site delineated on a local land use plan. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and	No mitigation is required.	No	Less than Significant

		the severity of the previously disclosed impacts would not substantially increase.			
<b>2.8 WATER RESOURCES</b>					
<b>Impact 2.8-1:</b> Implementation of the proposed Plan could result in violation of water quality standards or waste or stormwater discharge requirements.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in violation of water quality standards or waste or stormwater discharge requirements. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.8-2:</b> Implementation of the proposed Plan could substantially interfere with or reduce rates of groundwater recharge because of the increased amount of impervious surfaces, such that there could be a net deficit in aquifer volume or a lowering of the groundwater table.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not substantially interfere with or reduce rates of groundwater recharge because of the increased amount of impervious surfaces, such that there could be a net deficit in aquifer volume or a lowering of the groundwater table. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.8-3:</b> Implementation of the proposed Plan could increase erosion by altering the existing drainage patterns of a site, contributing to sediment loads of streams and drainage facilities, and thereby affecting water quality.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not increase erosion by altering the existing drainage patterns of a site, contributing to sediment loads of streams and drainage facilities, and thereby affecting water quality. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.8-4:</b> Implementation of the proposed Plan could increase non-point pollution of stormwater runoff because of litter, fallout from airborne particulate emissions, or discharges of vehicle residues, including petroleum hydrocarbons and metals, that would impact the quality of receiving waters.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not increase non-point pollution of stormwater runoff because of litter, fallout from airborne particulate emissions, or discharges of vehicle residues, including petroleum hydrocarbons and metals, that would impact the quality of receiving waters. The potential impacts of the proposed amendment	No mitigation is required.	No	Less than Significant

		to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.			
<b>Impact 2.8-5:</b> Implementation of the proposed Plan could increase non-point-source pollution of stormwater runoff from construction sites because of discharges of sediment, chemicals, and wastes to nearby storm drains and creeks.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not increase non-point-source pollution of stormwater runoff from construction sites because of discharges of sediment, chemicals, and wastes to nearby storm drains and creeks. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.8-6:</b> Implementation of the proposed Plan could increase rates and amounts of runoff because of additional impervious surfaces, cut-and-fill slopes, or result in alterations to drainage systems that could cause potential flood hazards and effects on water quality.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not increase rates and amounts of runoff because of additional impervious surfaces, cut-and-fill slopes, or result in alterations to drainage systems that could cause potential flood hazards and effects on water quality. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.8-7:</b> Implementation of the proposed Plan could place structures that would impede or redirect flows within a 100-year flood hazard area.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not place structures that would impede or redirect flows within a 100-year flood hazard area. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.8-8:</b> Implementation of the proposed Plan could expose people to a significant risk of loss, injury, or death involving flooding (including flooding as a result of the failure of a levee or dam), seiche, tsunami, or mudflow.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not expose people to a significant risk of loss, injury, or death involving flooding (including flooding as a result of the failure of a levee or dam), seiche, tsunami, or mudflow. The potential impacts of	No mitigation is required.	No	Less than Significant

		the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.			
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**2.9 BIOLOGICAL RESOURCES**

<p><b>Impact 2.9-1a:</b> Implementation of the proposed Plan could have a substantial adverse effect, either directly or through habitat modifications, on species identified as candidate, sensitive, or special-status in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not have a substantial adverse effect, either directly or through habitat modifications, on species identified as candidate, sensitive, or special-status in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.9-1(a):</b> Implementing agencies shall require project sponsors to prepare biological resource assessments for specific projects proposed in areas containing, or likely to contain, habitat for special-status plants and wildlife. The assessment shall be conducted by qualified professionals pursuant to adopted protocols and agency guidelines. Where the biological resource assessments establish that mitigation is required to avoid direct and indirect adverse effects on special-status plant and wildlife species, or compensate for unavoidable effects, mitigation shall be developed consistent with the requirements of CEQA, USFWS, CDFW, and local regulations and guidelines, in addition to requirements of any applicable and adopted HCP/NCCP or other applicable plans developed to protect species or habitat. Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ In support of CEQA, NEPA, CDFW, and USFWS review and permitting processes for individual proposed Plan projects, pre-project biological surveys shall be conducted as part of the environmental review process to determine the presence and extent of sensitive habitats and/or species in the project vicinity. Surveys shall follow established methods and shall be conducted at times when the subject species is most likely to be identified. In cases where impacts to state- or federally-listed plant or wildlife species are possible, formal protocol-level surveys may be required on a species-by-species basis to determine the local distribution of these species. Coordination with the USFWS and/or CDFW shall be conducted early in the planning process at an informal level for projects that could adversely affect federal or state candidate, proposed, threatened, or endangered species to determine the need for consultation or permitting actions. Projects shall obtain incidental take authorization from the permitting agencies as required before project implementation.</li> <li>▲ Project designs shall be reconfigured, whenever practicable, to avoid special-status species and sensitive habitats. Projects shall minimize ground disturbances and transportation project footprints near sensitive areas to the extent practicable.</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
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			<ul style="list-style-type: none"> <li>▲ Project activities in the vicinity of sensitive resources shall be completed during the period that best avoids disturbance to plant and wildlife species present to the extent feasible.</li> <li>▲ Individual projects shall minimize the use of in-water construction methods in areas that support sensitive aquatic species, especially when listed species could be present.</li> <li>▲ In the event that equipment needs to operate in any watercourse with flowing or standing water where special-status species may be affected, a qualified biological resource monitor shall be present to alert construction crews to the possible presence of such special-status species.</li> <li>▲ If project activities involve pile driving or vibratory hammering in or near water, interim hydroacoustic threshold criteria for protected fish species shall be adopted as set forth by the Interagency Fisheries Hydroacoustic Working Group, as well as other avoidance methods to reduce the adverse effects of construction to sensitive fish, piscivorous birds, and marine mammal species.</li> <li>▲ Construction shall not occur during the breeding season near riparian habitat, freshwater marshlands, and salt marsh habitats that support nesting bird species protected under the Endangered Species Act, Migratory Bird Treaty Act, or California Fish and Game Code (e.g., yellow warbler, tricolored blackbird, Ridgway's rail, etc.).</li> <li>▲ A qualified biologist shall locate and fence off sensitive resources before construction activities begin and, where required, shall inspect areas to ensure that barrier fencing, stakes, and setback buffers are maintained during construction.</li> <li>▲ For work sites located adjacent to special-status plant or wildlife populations, a biological resource education program shall be provided for construction crews and contractors (primarily crew and construction foremen) before construction activities begin.</li> <li>▲ Biological monitoring shall be considered for areas near identified habitat for federal- and state-listed species, and a "no take" approach shall be taken whenever feasible during construction near special-status plant and wildlife species.</li> <li>▲ Efforts shall be made to minimize the adverse effects of light and noise on listed and sensitive wildlife.</li> <li>▲ Project activities shall comply with existing local regulations and policies, including applicable HCP/NCCPs, that exceed or reasonably replace any of the above measures protective of special-status species.</li> </ul>		
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			<ul style="list-style-type: none"> <li>▲ Compensatory mitigation for unavoidable loss of habitat or other impacts to special-status species may be achieved in advance of impacts through the purchase or creation of mitigation credits or the implementation of mitigation projects through Regional Advance Mitigation Planning (RAMP), as deemed appropriate by the permitting agencies.</li> </ul>		
<p><b>Impact 2.9-1b:</b> Implementation of the proposed Plan could have substantial adverse impacts on designated critical habitat for federally listed plant and wildlife species.</p>	Less than Significant	No. Implementation of the proposed amendment to the Plan would not have substantial adverse impacts on designated critical habitat for federally listed plant and wildlife species. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.	<p><b>Mitigation Measure 2.9-1(b):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Coordination with the USFWS and/or NMFS shall be conducted early in the environmental review process to determine the need for further mitigation, consultation, or permitting actions. Formal consultation is required for any project with a federal nexus when a species is likely to be adversely affected.</li> <li>▲ Reconfigure project designs to avoid or minimize adverse effects on protected species within designated critical habitats.</li> <li>▲ Compliance with existing local regulations and policies, including applicable HCP/NCCPs.</li> <li>▲ Additionally, implementation of Mitigation Measure 2.9-1(a), above, which includes an initial biological resource assessment and, if necessary, compensatory mitigation for unavoidable loss of habitat or other impacts to special-status species. Compensatory mitigation may be achieved in advance of impacts through the purchase or creation of mitigation credits or the implementation of mitigation projects through Regional Advance Mitigation Planning (RAMP), as deemed appropriate by the permitting agencies.</li> </ul>	No	Less than Significant
<p><b>Impact 2.9-2:</b> Implementation of the proposed Plan could have a substantial adverse effect on riparian habitat, federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal), or other sensitive natural communities identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service, through direct removal, filling, hydrological interruption, or other means.</p>	Significant and Unavoidable *Less than Significant with Mitigation	No. Implementation of the proposed amendment to the Plan would not have a substantial adverse effect on riparian habitat, federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal), or other sensitive natural communities identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service, through direct removal, filling, hydrological interruption, or other means. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would	<p><b>Mitigation Measure 2.9-2:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <p>Mitigation measures that shall be considered by implementing agencies and/or project sponsors based on project-and site-specific considerations include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Implementing agencies shall require project sponsors to prepare biological resource assessments for specific projects proposed in areas containing, or likely to contain, jurisdictional waters and/or other sensitive or special-status communities. These assessments shall be conducted by qualified professionals in accordance with agency guidelines and standards.</li> </ul>	No	Significant and Unavoidable *Less than Significant with Mitigation

		<p>incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<ul style="list-style-type: none"> <li>▲ In keeping with the “no net loss” policy for wetlands and other waters, project designs shall be configured, whenever possible, to avoid wetlands and other waters and avoid disturbances to wetlands and riparian corridors to preserve both the habitat and the overall ecological functions of these areas. Projects shall minimize ground disturbances and transportation project footprints near such areas to the extent practicable.</li> <li>▲ Where avoidance of jurisdictional waters is not feasible, project sponsors shall minimize fill and the use of in-water construction methods, and place fill only with express permit approval from the appropriate resources agencies (e.g., USACE, RWQCB, CDFW, BCDC, and CCC) and in accordance with applicable existing regulations, such as the Clean Water Act or local stream protection ordinances.</li> <li>▲ Project sponsors shall arrange for compensatory mitigation in the form of mitigation bank credits, on-site or off-site enhancement of existing waters or wetland creation in accordance with applicable existing regulations and subject to approval by the USACE, RWQCB, CDFW, BCDC, and CCC. If compensatory mitigation is required by the implementing agency, the project sponsor shall develop a restoration and monitoring plan that describes how compensatory mitigation will be achieved, implemented, maintained, and monitored. At a minimum, the restoration and monitoring plan shall include clear goals and objectives, success criteria, specifics on restoration/creation/enhancement (plant palette, soils, irrigation, etc.), specific monitoring periods and reporting guidelines, and a maintenance plan. The following minimum performance standards (or other standards as required by the permitting agencies) shall apply to any wetland compensatory mitigation:             <ul style="list-style-type: none"> <li>▶ Compensation shall be provided at a minimum 1:1 ratio for restoration and preservation but shall in all cases be consistent with mitigation ratios set forth in locally applicable plans (e.g., general plans, HCP/NCCPs, etc.), or in project-specific permitting documentation. Compensatory mitigation may be a combination of onsite restoration/creation/enhancement or offsite restoration, preservation, and/or enhancement. Compensatory mitigation may be achieved in advance of impacts through the purchase or creation of mitigation credits or the implementation of mitigation projects through Regional Advance Mitigation Planning (RAMP), as deemed appropriate by the permitting agencies.</li> </ul> </li> </ul>		
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			<ul style="list-style-type: none"> <li> <p> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; vertical-align: middle; margin-right: 0.5em;"></span>                     In general, any compensatory mitigation shall be monitored for a minimum of five years and will be considered successful when at least 75 percent cover (or other percent cover considered appropriate for the vegetation type) of installed vegetation has become successfully established.                 </p> </li> <li> <p> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; vertical-align: middle; margin-right: 0.5em;"></span>                     In accordance with CDFW guidelines and other instruments protective of sensitive or special-status natural communities, project sponsors shall avoid and minimize impacts on sensitive natural communities when designing and permitting projects. Where applicable, projects shall conform to the provisions of special area management or restoration plans, such as the Suisun Marsh Protection Plan or the East Contra Costa County HCP, which outline specific measures to protect sensitive vegetation communities.                 </p> </li> <li> <p> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; vertical-align: middle; margin-right: 0.5em;"></span>                     If any portion of a special-status natural community is permanently removed or temporarily disturbed, the project sponsor shall compensate for the loss. If such mitigation is required by the implementing agency, the project sponsor shall develop a restoration and monitoring plan that describes how compensatory mitigation will be achieved, implemented, maintained, and monitored. At a minimum, the restoration and monitoring plan shall include clear goals and objectives, success criteria, specifics on restoration/creation/ enhancement (plant palette, soils, irrigation, etc.), specific monitoring periods and reporting guidelines, and a maintenance plan. The following minimum performance standards (or other standards as required by the permitting agencies) shall apply to any compensatory mitigation for special-status natural communities:                 </p> <ul style="list-style-type: none"> <li> <p> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; vertical-align: middle; margin-right: 0.5em;"></span>                             Compensation shall be provided at a minimum 1:1 ratio for restoration and preservation but shall in all cases be consistent with mitigation ratios set forth in locally applicable plans (e.g., general plans, HCP/NCCPs, etc.) or in project-specific permitting documentation. Compensatory mitigation may be a combination of onsite restoration/creation/enhancement or offsite restoration, preservation, and/or enhancement. Compensatory mitigation may be achieved in advance of impacts through the purchase or creation of mitigation credits or the implementation of mitigation projects through Regional Advance Mitigation Planning (RAMP), as deemed appropriate by the permitting agencies.                         </p> </li> <li> <p> <span style="display: inline-block; width: 1em; height: 1em; background-color: black; vertical-align: middle; margin-right: 0.5em;"></span>                             In general, any compensatory mitigation shall be monitored for a minimum of five years and will be considered                         </p> </li> </ul> </li> </ul>		
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			<p>successful when at least 75 percent cover (or other percent cover considered appropriate for the vegetation type) of installed vegetation has become successfully established.</p> <ul style="list-style-type: none"> <li>▲ Compliance with existing local regulations and policies, including applicable HCP/NCCPs, that exceed or reasonably replace any of the above measures protective of jurisdictional wetlands or special-status natural communities.</li> </ul>		
<p><b>Impact 2.9-3:</b> Implementation of the proposed Plan could interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridor or impede the use of native wildlife nursery sites.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridor or impede the use of native wildlife nursery sites. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.9-3:</b> Implementing agencies shall require project sponsors to prepare detailed analyses for specific projects affecting ECA lands to determine what wildlife species may use these areas and what habitats those species require. Projects that would not affect ECA lands but that are located within or adjacent to open lands, including wildlands and agricultural lands, shall also assess whether or not significant wildlife corridors are present, what wildlife species may use them, and what habitat those species require. The assessment shall be conducted by qualified professionals and according to applicable agency standards.</p> <p>Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ constructing wildlife friendly overpasses and culverts;</li> <li>▲ fencing major transportation corridors in the vicinity of identified wildlife corridors;</li> <li>▲ using wildlife-friendly fences that allow larger wildlife such as deer to get over, and smaller wildlife to go under;</li> <li>▲ limiting wildland conversions in identified wildlife corridors;</li> <li>▲ retaining wildlife-friendly vegetation in and around developments; and</li> <li>▲ complying with existing local regulations and policies, including applicable HCP/NCCPs, that exceed or reasonably replace any of the above measures to protect wildlife corridors.</li> </ul>	No	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>Impact 2.9-4:</b> Implementation of the proposed Plan could conflict with adopted local conservation policies, such as a tree protection ordinance, or resource protection and conservation plans, such as a Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other adopted local, regional, or state habitat conservation plans.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not conflict with adopted local conservation policies, such as a tree protection ordinance, or resource protection and conservation plans, such as a Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other adopted local, regional, or state habitat conservation plans. The potential impacts of the proposed</p>	<p>No mitigation is required.</p>	No	<p>Less than Significant</p>

		amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.			
<b>Impact 2.9-5:</b> Implementation of the proposed Plan could have the potential to substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; or substantially reduce the number or restrict the range of an endangered, rare, or threatened species.	Significant and Unavoidable *Less than Significant with Mitigation	No. Implementation of the proposed amendment to the Plan would not have the potential to substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; or substantially reduce the number or restrict the range of an endangered, rare, or threatened species. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.	<b>Mitigation Measure 2.9-5:</b> Implementing agencies and/or project sponsors shall implement mitigation measures, where feasible and necessary based on project-specific and site-specific considerations that include but are not limited to: Implement Mitigation Measures 2.9-1(a), 2.9-1(b), 2.9-2, and 2.9-3.	No	Significant and Unavoidable *Less than Significant with Mitigation

**2.10 VISUAL RESOURCES**

<b>Impact 2.10-1:</b> Implementation of the proposed Plan could have a substantial adverse effect on a scenic vista.	Significant and Unavoidable	No. Implementation of the proposed amendment to the Plan would not have a substantial adverse effect on a scenic vista. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.	<b>Mitigation Measure 2.10-1:</b> Implementing agencies and/or project sponsors shall implement measures where feasible and necessary based on project- and site-specific considerations that include, but are not limited to: <ul style="list-style-type: none"> <li>▲ reduce the visibility of construction staging areas by fencing and screening these areas with low contrast materials consistent with the surrounding environment, and by revegetating graded slopes and exposed earth surfaces at the earliest opportunity;</li> <li>▲ site or design projects to minimize their intrusion into important viewsheds;</li> <li>▲ use see-through safety barrier designs (e.g. railings rather than walls);</li> <li>▲ develop interchanges and transit lines at the grade of the surrounding land to limit view blockage;</li> <li>▲ design landscaping along highway corridors in rural and open space areas to add natural elements and visual interest to soften the hard edged, linear travel experience that would otherwise occur; and</li> <li>▲ identify, preserve, and enhance scenic vistas to and from hillside areas and other visual resources.</li> </ul>	No	Significant and Unavoidable
<b>Impact 2.10-2:</b> Implementation of the proposed Plan could substantially	Less than Significant	No. Implementation of the proposed amendment to the Plan would not substantially	No mitigation is required.	No	Less than Significant

<p>damage scenic resources, including but not limited to trees, rock outcroppings, and historical buildings within a state scenic highway.</p>		<p>damage scenic resources, including but not limited to trees, rock outcroppings, and historical buildings within a state scenic highway. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>			
<p><b>Impact 2.10-3:</b> Implementation of the proposed Plan could substantially degrade the existing visual character or quality of the site and its surroundings.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not substantially degrade the existing visual character or quality of the site and its surroundings. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.10-3:</b> Implementing agencies and/or project sponsors shall implement measures where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ minimize impacts of design through compliance with MTC's Station Area Planning Manual;</li> <li>▲ require that the scale, massing, and design of new development provide appropriate transitions in building height, bulk, and architectural style that are sensitive to the physical and visual character of surrounding areas;</li> <li>▲ contour the edges of major cut and fill slopes to provide a finished profile that is appropriate to the surrounding context, using shapes, textures, colors, and scale to minimize contrasts between the project and surrounding areas; and</li> <li>▲ implementing agencies shall require project sponsors to conduct shadow studies for four-story high (and higher) buildings and roadway facilities to identify and implement development strategies for reducing the impact of shadows on public open space, where feasible. Study considerations shall include, but are not limited to, the placement, massing, and height of structures, surrounding land uses, time of day and seasonal variation, and reflectivity of materials. Study recommendations for reducing shadow impacts shall be incorporated into the project design as feasible based on project- and site-specific considerations.</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>Impact 2.10-4:</b> Implementation of the proposed Plan could add a visual element of urban character to an existing rural or open space area or add a modern element to a historic area.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not add a visual element of urban character to an existing rural or open space area or add a modern element to a historic area. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.10-4:</b> In addition to Mitigation Measure 2.10-3, the following measure would apply to impacts on visual resources in rural or historic areas.</p> <p>Implementing agencies and/or project sponsors shall implement measures where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Conduct project-specific review of new development in rural or historic areas to ensure that new development is compatible in scale and character with the surrounding area by:</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<ul style="list-style-type: none"> <li>➤ promoting a transition in scale and architecture character between new buildings and established neighborhoods; and</li> <li>➤ requiring pedestrian circulation and vehicular routes to be well integrated.</li> <li>▲ Where sound walls are proposed, require sound wall construction and design methods that account for visual impacts as follows:             <ul style="list-style-type: none"> <li>➤ use transparent panels to preserve views where sound walls would block views from residences;</li> <li>➤ use landscaped earth berm or a combination wall and berm to minimize the apparent sound wall height;</li> <li>➤ construct sound walls of materials whose color and texture complements the surrounding landscape and development;</li> <li>➤ design sound walls to increase visual interest, reduce apparent height, and be visually compatible with the surrounding area; and</li> <li>➤ landscape the sound walls with plants that screen the sound wall, preferably with either native vegetation or landscaping that complements the dominant landscaping of surrounding areas.</li> </ul> </li> </ul>		
<p><b>Impact 2.10-5:</b> Implementation of the proposed Plan could create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.10-5:</b> Implementing agencies and/or project sponsors shall implement measures where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Design projects to minimize light and glare from lights, buildings, and roadways facilities.</li> <li>▲ Minimize and control glare from transportation projects through the adoption of project design features that reduce glare. These features include:             <ul style="list-style-type: none"> <li>➤ planting trees along transportation corridors to reduce glare from the sun;</li> <li>➤ landscaping off-street parking areas, loading areas, and service areas; and</li> <li>➤ shielding transportation lighting fixtures to minimize off-site light trespass.</li> </ul> </li> <li>▲ Minimize and control glare from land use and transportation projects through the adoption of project design features that reduce glare. These features include:</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<ul style="list-style-type: none"> <li>➤ limiting the use of reflective materials, such as metal;</li> <li>➤ using non-reflective material, such as paint, vegetative screening, matte finish coatings, and masonry;</li> <li>➤ screening parking areas by using vegetation or trees; and</li> <li>➤ using low-reflective glass.</li> </ul> <p>▲ Impose lighting standards that ensure that minimum safety and security needs are addressed and minimize light trespass and glare associated with land use development. These standards include the following:</p> <ul style="list-style-type: none"> <li>➤ minimizing incidental spillover of light onto adjacent private properties and undeveloped open space;</li> <li>➤ directing luminaries away from habitat and open space areas adjacent to the project site;</li> <li>➤ installing luminaries that provide good color rendering and natural light qualities; and</li> <li>➤ minimizing the potential for back scatter into the nighttime sky and for incidental spillover of light onto adjacent private properties and undeveloped open space.</li> </ul>		
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**2.11 CULTURAL RESOURCES**

<p><b>Impact 2.11-1:</b> The proposed Plan could cause a substantial adverse change in the significance of a historic resource as defined in Guidelines Section 15064.5 or eliminate important examples of major periods of California history.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not cause a substantial adverse change in the significance of a historic resource as defined in Guidelines Section 15064.5 or eliminate important examples of major periods of California history. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.11-1:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Realign or redesign projects to avoid impacts on known historic resources where possible.</li> <li>▲ Require a survey and evaluation of structures greater than 45 years in age within the area of potential effect to determine their eligibility for recognition under State, federal, or local historic preservation criteria. The evaluation shall be prepared by an architectural historian, or historical architect meeting the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation, Professional Qualification Standards. The evaluation should comply with CEQA Guidelines section 15064.5(b), and, if federal funding or permits are required, with Section 106 of the National Historic Preservation Act (NHPA) of 1966 (16 U.S.C. § 470 et seq.). Study recommendations shall be implemented.</li> <li>▲ If avoidance of a significant architectural/built environment resource is not feasible, additional mitigation options include, but are not limited to, specific design plans for historic districts, or</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
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			<p>plans for alteration or adaptive re-use of a historical resource that follows the Secretary of the Interior’s Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitation, Restoring, and Reconstructing Historic Buildings.</p> <ul style="list-style-type: none"> <li>▲ Comply with existing local regulations and policies that exceed or reasonably replace any of the above measures that protect historic resources.</li> </ul>		
<p><b>Impact 2.11-2:</b> The proposed Plan could cause a substantial adverse change in the significance of a unique archaeological resource as defined in Guidelines Section 15064.5 or eliminate important examples of major periods of California history or prehistory.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not cause a substantial adverse change in the significance of a unique archaeological resource as defined in Guidelines Section 15064.5 or eliminate important examples of major periods of California history or prehistory. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.11-2:</b> Implementing agencies and/or project sponsors shall implement the following measures where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Before construction activities, project sponsors shall retain a qualified archaeologist to conduct a record search at the appropriate Information Center to determine whether the project area has been previously surveyed and whether resources were identified. When recommended by the Information Center, project sponsors shall retain a qualified archaeologist to conduct archaeological surveys before construction activities. Project sponsors shall follow recommendations identified in the survey, which may include activities such as subsurface testing, designing and implementing a Worker Environmental Awareness Program, construction monitoring by a qualified archaeologist, avoidance of sites, or preservation in place.</li> <li>▲ In the event that evidence of any prehistoric or historic-era subsurface archaeological features or deposits are discovered during construction-related earth-moving activities (e.g., ceramic shard, trash scatters, lithic scatters), all ground-disturbing activity in the area of the discovery shall be halted until a qualified archaeologist can assess the significance of the find. If the find is a prehistoric archeological site, the appropriate Native American group shall be notified. If the archaeologist determines that the find does not meet the CRHR standards of significance for cultural resources, construction may proceed. If the archaeologist determines that further information is needed to evaluate significance, a data recovery plan shall be prepared. If the find is determined to be significant by the qualified archaeologist (i.e., because the find is determined to constitute either an historical resource or a unique archaeological resource), the archaeologist shall work with the project applicant to avoid disturbance to the resources, and if complete avoidance is not feasible in light of project design, economics, logistics, and other factors, follow accepted professional standards in recording any find including</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<p>submittal of the standard DPR Primary Record forms (Form DPR 523) and location information to the appropriate California Historical Resources Information System office for the project area.</p> <ul style="list-style-type: none"> <li>▲ Project sponsors shall comply with existing local regulations and policies that exceed or reasonably replace any of the above measures that protect archaeological resources.</li> </ul>		
<p><b>Impact 2.11-3:</b> The proposed Plan could have the potential to destroy, directly or indirectly, a unique paleontological resource or site or unique geologic feature.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not have the potential to destroy, directly or indirectly, a unique paleontological resource or site or unique geologic feature. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.11-3:</b> Implementing agencies and/or project sponsors shall implement measures where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Before construction activities, project sponsors shall conduct a record search using an appropriate database, such as the UC Berkeley Museum of Paleontology to determine whether the project area has been previously surveyed and whether resources were identified.</li> <li>▲ If record searches indicate that the project is located in an area likely to contain important paleontological, and/or geological resources, such as sedimentary rocks which have yielded significant terrestrial and other fossils, project sponsors shall retain a qualified paleontologist to train all construction personnel involved with earthmoving activities about the possibility of encountering fossils. The appearance and types of fossils likely to be seen during construction will be described. Construction personnel will be trained about the proper notification procedures should fossils be encountered.</li> <li>▲ If paleontological resources are discovered during earthmoving activities, the construction crew will be directed to immediately cease work in the vicinity of the find and notify the implementing agencies and/or project sponsors. The project sponsor will retain a qualified paleontologist for identification and salvage of fossils so that construction delays can be minimized. The paleontologist will be responsible for implementing a recovery plan which could include the following:             <ul style="list-style-type: none"> <li>➤ in the event of discovery, salvage of unearthed fossil remains, typically involving simple excavation of the exposed specimen but possibly also plaster-jacketing of large and/or fragile specimens, or more elaborate quarry excavations of richly fossiliferous deposits;</li> <li>➤ recovery of stratigraphic and geologic data to provide a context for the recovered fossil remains, typically including description of lithologies of fossil-bearing strata,</li> </ul> </li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<p>measurement and description of the overall stratigraphic section, and photographic documentation of the geologic setting;</p> <ul style="list-style-type: none"> <li>➤ laboratory preparation (cleaning and repair) of collected fossil remains to a point of curation, generally involving removal of enclosing rock material, stabilization of fragile specimens (using glues and other hardeners), and repair of broken specimens;</li> <li>➤ cataloging and identification of prepared fossil remains, typically involving scientific identification of specimens, inventory of specimens, assignment of catalog numbers, and entry of data into an inventory database;</li> <li>➤ transferal, for storage, of cataloged fossil remains to an appropriate repository, with consent of property owner;</li> <li>➤ preparation of a final report summarizing the field and laboratory methods used, the stratigraphic units inspected, the types of fossils recovered, and the significance of the curated collection; and</li> <li>➤ project sponsors shall comply with existing local regulations and policies that exceed or reasonably replace any of the above measures that protect paleontological or geologic resources.</li> </ul>		
<p><b>Impact 2.11-4:</b> The proposed Plan could have the potential to disturb human remains, including those interred outside dedicated cemeteries.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not have the potential to disturb human remains, including those interred outside dedicated cemeteries. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.11-5:</b> The proposed Plan could cause a substantial adverse change in the significance of a TCR as defined in PRC Section 21074.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not cause a substantial adverse change in the significance of a TCR as defined in PRC Section 21074. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.11-5:</b> If the implementing agency determines that a project may cause a substantial adverse change to a TCR, and measures are not otherwise identified in the consultation process required under PRC Section 21080.3.2, implementing agencies and/or project sponsors shall implement the following measures where feasible and necessary to address site-specific impacts to avoid or minimize the significant adverse impacts:</p> <ul style="list-style-type: none"> <li>➤ Within 14 days of determining that a project application is complete, or to undertake a project, the lead agency must provide formal notification, in writing, to the tribes that have requested</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>



			<p>notification of proposed projects in the lead agency's jurisdiction. If it wishes to engage in consultation on the project, the tribe must respond to the lead agency within 30 days of receipt of the formal notification. The lead agency must begin the consultation process with the tribes that have requested consultation within 30 days of receiving the request for consultation. Consultation concludes when either: 1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource, or 2) a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.</p> <p>▲ Public agencies shall, when feasible, avoid damaging effects to any TCR (PRC Section 21084.3 (a)). If the lead agency determines that a project may cause a substantial adverse change to a tribal cultural resource, and measures are not otherwise identified in the consultation process, new provisions in the PRC describe mitigation measures that, if determined by the lead agency to be feasible, may avoid or minimize the significant adverse impacts (PRC Section 21084.3 (b)). Examples include:</p> <ol style="list-style-type: none"> <li>(1) Avoidance and preservation of the resources in place, including, but not limited to, planning and construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.</li> <li>(2) Treating the resource with culturally appropriate dignity taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:             <ol style="list-style-type: none"> <li>(A) Protecting the cultural character and integrity of the resource</li> <li>(B) Protecting the traditional use of the resource</li> <li>(C) Protecting the confidentiality of the resource.</li> </ol> </li> <li>(3) Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.</li> <li>(4) Protecting the resource.</li> </ol>		
<b>2.12 PUBLIC UTILITIES AND FACILITIES</b>					
<p><b>Impact 2.12-1:</b> Implementation of the proposed Plan could result in insufficient water supplies available to serve development implemented as part of the</p>	<p>Significant and Unavoidable</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in insufficient water supplies available to serve development implemented as part of the Plan</p>	<p><b>Mitigation Measure 2.12-1(a):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary</p>	<p>No</p>	<p>Significant and Unavoidable</p>

<p>Plan from existing entitlements and resources.</p>	<p>*Less than Significant with Mitigation</p>	<p>from existing entitlements and resources. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p>based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ For projects that could increase demand for water, project sponsors shall coordinate with the relevant water service provider to ensure that the provider has adequate supplies and infrastructure to accommodate the increase in demand. If the current infrastructure servicing the project site is found to be inadequate, infrastructure improvements shall be identified in each project's CEQA documentation.</li> <li>▲ Implement water conservation measures which result in reduced demand for potable water. This could include reducing the use of potable water for landscape irrigation (such as through drought-tolerant plantings, water-efficient irrigation systems, the capture and use of rainwater) and the use of water-conserving fixtures (such as dual-flush toilets, waterless urinals, reduced flow faucets).</li> <li>▲ Coordinate with the water provider to identify an appropriate water consumption budget for the size and type of project, and designing and operating the project accordingly.</li> <li>▲ For projects located in an area with existing reclaimed water conveyance infrastructure and excess reclaimed water capacity, use reclaimed water for non-potable uses, especially landscape irrigation. For projects in a location planned for future reclaimed water service, projects should install dual plumbing systems in anticipation of future use. Large developments could treat wastewater onsite to tertiary standards and use it for non-potable uses onsite.</li> </ul> <p><b>Mitigation Measure 2.12-1(b):</b> Implementing agencies and/or project sponsors shall require the construction phase of transportation projects to connect to reclaimed water distribution systems for non-potable water needs, when feasible based on project- and site-specific considerations.</p> <p><b>Mitigation Measure 2.12-1(c):</b> Implementing agencies and/or project sponsors shall require transportation projects with landscaping to use drought-resistant plantings or connect to reclaimed water distribution systems for irrigation and other non-potable water needs when available and feasible based on project- and site-specific considerations.</p>		<p>*Less than Significant with Mitigation</p>
<p><b>Impact 2.12-2:</b> Implementation of the proposed Plan could result in a determination by the wastewater treatment provider which serves or may</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a determination by the wastewater treatment provider which serves or may serve development</p>	<p><b>Mitigation Measure 2.12-2:</b> Implementing agencies and/or project sponsors shall implement mitigations measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p>	<p>No</p>	<p>Less than Significant</p>

<p>serve development implemented as part of the Plan that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments.</p>		<p>implemented as part of the Plan that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<ul style="list-style-type: none"> <li>▲ During the design and CEQA review of individual future projects, implementing agencies and project sponsors shall determine whether sufficient wastewater treatment capacity exists for a proposed project. These CEQA determinations must ensure that the proposed development can be served by its existing or planned treatment capacity. If adequate capacity does not exist, project sponsors shall coordinate with the relevant service provider to ensure that adequate public services and utilities could accommodate the increased demand, and if not, infrastructure improvements for the appropriate public service or utility shall be identified in each project's CEQA documentation. The relevant public service provider or utility shall be responsible for undertaking project-level review as necessary to provide CEQA clearance for new facilities.</li> <li>▲ Implementing agencies and/or project sponsors shall also require compliance with Mitigation Measure 2.12(a), and MTC shall require implementation of Mitigation Measures 2.12(b), and/or 2.12(c) listed under Impact 2.12-1, as feasible based on project- and site-specific considerations to reduce water usage and, subsequently, wastewater flows.</li> </ul>		
<p><b>Impact 2.12-3:</b> Implementation of the proposed Plan could require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental impacts.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental impacts. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.12-3(a):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ During the design and CEQA review of individual future projects, implementing agencies and project sponsors shall determine whether sufficient stormwater drainage facilities exist for a proposed project. These CEQA determinations must ensure that the proposed development can be served by its existing or planned drainage capacity. If adequate stormwater drainage facilities do not exist, project sponsors shall coordinate with the appropriate utility and service provider to ensure that adequate facilities could accommodate the increased demand, and if not, infrastructure and facility improvements shall be identified in each project's CEQA determination. The relevant public service provider or utility shall be responsible for undertaking project-level review as necessary to provide CEQA clearance for new facilities.</li> <li>▲ For projects of greater than 1 acre in size, reduce stormwater runoff caused by construction by implementing stormwater control best practices, based on those required for a SWPPP.</li> </ul>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			<ul style="list-style-type: none"> <li>▲ Model and implement a stormwater management plan or site design that prevents the post-development peak discharge rate and quantity from exceeding pre-development rates.</li> </ul> <p><b>Mitigation Measure 2.12-3(b):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Transportation projects shall incorporate stormwater control, retention, and infiltration features, such as detention basins, bioswales, vegetated median strips, and permeable paving, early into the design process to ensure that adequate acreage and elevation contours are planned.</li> </ul> <p><b>Mitigation Measure 2.12-3(c):</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ Transportation projects implemented by Caltrans or subject to Caltrans review shall adhere to Caltrans' Stormwater Management Plan, which includes best practices to reduce the volume of stormwater runoff and pollutants in the design, construction and maintenance of highway facilities.</li> </ul>		
<p><b>Impact 2.12-4:</b> Implementation of the proposed Plan could require or result in the construction of new or expanded water and wastewater treatment facilities, the construction of which could cause significant environmental effects.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not require or result in the construction of new or expanded water and wastewater treatment facilities, the construction of which could cause significant environmental effects. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.12-4:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ For projects that could increase demand on water and wastewater treatment facilities, project sponsors shall coordinate with the relevant service provider to ensure that the existing public services and utilities could accommodate the increase in demand. If the current infrastructure servicing the project site is found to be inadequate, infrastructure improvements for the appropriate public service or utility shall be identified in each project's CEQA documentation. The relevant public service provider or utility shall be responsible for undertaking project-level review as necessary to provide CEQA clearance for new facilities.</li> </ul> <p>Further, Mitigation Measures 2.12-1(a), 2.12-1(b), 2.12-1(c), and 2.12-2 would reduce water demand and wastewater generation, and subsequently reduce the need for new or expanded water and wastewater treatment facilities. Mitigation Measures 2.12-3(a), 2.12-3(b), and 2.12-3(c) would also mitigate the impact of additional</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>

			stormwater runoff from land use and transportation projects on existing wastewater treatment facilities.		
<b>Impact 2.12-5:</b> The proposed Plan would be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs and comply with federal, state, and local statutes and regulations related to solid waste.	Significant and Unavoidable *Less than Significant with Mitigation	No. Implementation of the proposed amendment to the Plan would not be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs and comply with federal, state, and local statutes and regulations related to solid waste. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.	<p><b>Mitigation Measure 2.12-5:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:</p> <ul style="list-style-type: none"> <li>▲ providing an easily accessible area that is dedicated to the collection and storage of non-hazardous recycling materials</li> <li>▲ maintaining or re-using existing building structures and materials during building renovations and redevelopment</li> <li>▲ using salvaged, refurbished or reused materials, to help divert such items from landfills</li> <li>▲ for transportation projects, diverting construction waste from landfills, where feasible, through means such as:                             <ul style="list-style-type: none"> <li>▼ the submission and implementation of a construction waste management plan that identifies materials to be diverted from disposal</li> <li>▼ establishing diversion targets, possibly with different targets for different types and scales of development</li> <li>▼ helping developments share information on available materials with one another, to aid in the transfer and use of salvaged materials; and</li> </ul> </li> <li>▲ applying the specifications developed by the Construction Materials Recycling Association (CMRA) to assist contractors and developers in diverting materials from construction and demolition projects, where feasible (RMC 2006).</li> </ul>	No	Significant and Unavoidable *Less than Significant with Mitigation

**2.13 HAZARDS**

<b>Impact 2.13-1:</b> Implementation of the proposed Plan could create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.13-2:</b> Implementation of the proposed Plan could create a significant	Less than Significant	No. Implementation of the proposed amendment to the Plan would not create a	No mitigation is required.	No	Less than Significant

<p>hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.</p>		<p>significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>			
<p><b>Impact 2.13-3:</b> Implementation of the proposed Plan could result in hazardous emissions or handling of hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in hazardous emissions or handling of hazardous or acutely hazardous materials, substances, or waste within 0.25 mile of an existing or proposed school. The potential impacts of proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>
<p><b>Impact 2.13-4:</b> Implementation of the proposed Plan could result in projects located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment.</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in projects located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p><b>Mitigation Measure 2.13-4:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include, but are not limited to:                   ▲ If the project is located on or near a hazardous materials and/or waste site pursuant to Government Code Section 65962.5, or has the potential for residual hazardous materials and/or waste as a result of location and/or prior uses, the project sponsor shall prepare a Phase I ESA in accordance with the American Society for Testing and Materials' E-1527-05 standard. For work requiring any demolition or renovation, the Phase I ESA shall make recommendations for any hazardous building materials survey work that shall be done. All recommendations included in a Phase I ESA prepared for a site shall be implemented. If a Phase I ESA indicates the presence or likely presence of contamination, the implementing agency shall require a Phase II ESA, and recommendations of the Phase II ESA shall be fully implemented.</p>	<p>No</p>	<p>Significant and Unavoidable *Less than Significant with Mitigation</p>
<p><b>Impact 2.13-5:</b> Implementation of the proposed Plan could result in a safety hazard for people residing or working in the planning area for projects located within an airport land use plan or, where such a plan has not been adopted, within</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in a safety hazard for people residing or working in the planning area for projects located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>

2 miles of a public airport or public use airport.		airport or public use airport. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.			
<b>Impact 2.13-6:</b> Implementation of the proposed Plan could result in a safety hazard for people residing or working in the planning area for projects within the vicinity of a private airstrip.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not result in a safety hazard for people residing or working in the planning area for projects within the vicinity of a private airstrip. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.13-7:</b> Implementation of the proposed Plan could impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not impair implementation of, or physically interfere with, an adopted emergency response plan or emergency evacuation plan. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>Impact 2.13-8:</b> Implementation of the proposed Plan could expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands.	Less than Significant	No. Implementation of the proposed amendment to the Plan would not expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.	No mitigation is required.	No	Less than Significant
<b>2.14 PUBLIC SERVICES AND RECREATION</b>					
<b>Impact 2.14-1:</b> Implementation of the proposed Plan could result in the need for new or modified facilities, the construction of which causes significant	Significant and Unavoidable	No. Implementation of the proposed amendment to the Plan would not result in the need for new or modified facilities, the construction of which causes significant	<b>Mitigation Measure 2.14-1:</b> Implementing agencies and/or project sponsors shall implement measures, where feasible and necessary based on project- and site-specific considerations that include but are not limited to:	No	Significant and Unavoidable

<p>environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools, police protection, fire protection, emergency medical, and other public facilities.</p>	<p>*Less than Significant with Mitigation</p>	<p>environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for schools, police protection, fire protection, emergency medical, and other public facilities. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR and would incorporate the mitigation measures identified in the Draft/Final EIR as applicable.</p>	<p>▲ Prior to approval of new development projects, local agencies shall ensure that adequate public services, and related infrastructure and utilities, will be available to meet or satisfy levels identified in the applicable local general plan or service master plan, through compliance with existing local policies related to minimum levels of service for schools, police protection, fire protection, medical emergency services, and other government services (e.g., libraries, prisons, social services). Compliance may include requiring projects to either provide the additional services required to meet service levels or pay fees towards the project's fair share portion of the required services pursuant to adopted fee programs and State law.</p>		<p>*Less than Significant with Mitigation</p>
<p><b>Impact 2.14-2:</b> Implementation of the proposed Plan could result in the need for new or modified facilities, the construction of which causes significant environmental impacts; or may result in significant increase in use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.</p>	<p>Less than Significant</p>	<p>No. Implementation of the proposed amendment to the Plan would not result in the need for new or modified facilities, the construction of which causes significant environmental impacts; or may result in significant increase in use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. The potential impacts of the proposed amendment to the Plan are covered within the parameters of the Draft/Final EIR, and the severity of the previously disclosed impacts would not substantially increase.</p>	<p>No mitigation is required.</p>	<p>No</p>	<p>Less than Significant</p>



## 4 TECHNICAL REVISIONS

Technical revisions have been made to key tables in the Final EIR's Transportation, Air Quality, and Climate Change and GHGs sections that reflect the incorporation of the Amendment to the Plan, as presented below. This data informed the analysis presented above in Table 1. The information presented in the tables from the Final EIR are included in the tables set forth in this Addendum in ~~strikeout~~ for comparative purposes.

### 4.1 TRANSPORTATION

Several tables included in the Transportation section (Section 2.1) of the Draft/Final EIR have been revised to reflect changes as a result of the Amendment to the Plan as well as to include Final EIR data, where applicable. Because the Amendment is limited to minor lane configuration changes in San Mateo County, the traffic impacts of the Amendment are also expected to be limited to San Mateo County and/or its adjacent counties of San Francisco and Santa Clara. As a result, the following tables reflect revisions to regional impacts and revisions to the county impacts in San Francisco, San Mateo, and Santa Clara, where applicable. The revised tables are presented below.

**Table 2 Revised EIR Table 2.1-13 Roadway Transportation System Capacity by County (2015-2040)**

Facility Type	County	Year 2015	Year 2040 Plan Amendment	Change (2015 to 2040 Plan Amendment)	
				Numerical	Percent
Freeway Lane-Miles	San Francisco	210	210	0	0%
	San Mateo	720	<del>760</del> 770	40 50	+6% +7%
	Santa Clara	1,310	1,490	180	14%
	<b>Regional Total</b>	<b>5,660</b>	<del>6,120</del> 6,130	<del>460</del> 470	<b>+8%</b>
Expressway Lane-Miles	San Francisco	10	10	0	0%
	San Mateo	70	70	0	0%
	Santa Clara	560	550	-10	-2%
	<b>Regional Total</b>	<b>1,070</b>	<b>1,130</b>	<b>60</b>	<b>+6%</b>
Major Arterial Lane-Miles	San Francisco	710	710	0	0%
	San Mateo	690	700	10	+1%
	Santa Clara	2,410	2,400	-10	0%
	<b>Regional Total</b>	<b>8,630</b>	<b>8,700</b>	<b>70</b>	<b>+1%</b>
Other Lane-Miles	San Francisco	420	420	0	0%
	San Mateo	650	650	0	0%
	Santa Clara	980	990	10	+1%
	<b>Regional Total</b>	<b>5,480</b>	<b>5,520</b>	<b>40</b>	<b>+1%</b>
<b>Total Lane-Miles</b>	San Francisco	1,350	1,350	0	0%
	San Mateo	2,130	2,180	50	+2%
	Santa Clara	5,260	5,430	170	+3%
	<b>Regional Total</b>	<b>20,840</b>	<del>21,470</del> 21,480	<del>630</del> 640	<b>+3%</b>

**Notes:**

<sup>1</sup> Daily metrics are measured for a typical weekday.

Figures may not sum because of independent rounding.

Source: Metropolitan Transportation Commission Travel Demand Forecasts 2016 and 2018

**Table 3 Revised EIR Table 2.1-14 Bay Area Travel Behavior (2015-2040)**

	2015	2040 Plan Amendment	Change (2015 to 2040 Plan Amendment)	
			Numerical	Percent
Daily <sup>1</sup> Transit Boardings	2,279,000	<del>3,208,900</del> <u>3,208,600</u>	<del>929,900</del> 929,600	+41%
Daily <sup>1</sup> Vehicle Trips <sup>2</sup>	21,227,800	<del>26,018,900</del> <u>26,018,100</u>	<del>4,791,100</del> <u>4,790,300</u>	+23%
Daily <sup>1</sup> Vehicle Miles of Travel (VMT) <sup>2</sup>	158,406,800	<del>191,528,600</del> <u>191,503,300</u>	<del>33,121,800</del> <u>33,096,500</u>	+21%
Daily <sup>1</sup> Vehicle Miles of Travel per Capita <sup>3</sup>	20.9	20.0	-0.1	-4%
Daily <sup>1</sup> Vehicle Hours of Recurring Delay	353,200	<del>531,100</del> <u>530,900</u>	<del>177,900</del> <u>177,700</u>	+50%
Daily <sup>1</sup> Vehicle Hours of Recurring Delay (Freeways)	222,800	<del>323,400</del> <u>323,200</u>	<del>100,600</del> <u>100,400</u>	+45%
Daily <sup>1</sup> Vehicle Hours of Recurring Delay (Expressways and Arterials)	99,200	<del>126,400</del> <u>126,500</u>	<del>27,200</del> <u>27,300</u>	+27% +28%
Daily <sup>1</sup> Vehicle Hours of Recurring Delay (Other Facilities)	31,300	<del>81,300</del> <u>81,200</u>	<del>50,000</del> <u>49,900</u>	+160% +159%
Daily <sup>1</sup> Vehicle Hours of Non-Recurrent Delay <sup>4</sup>	144,900	<del>188,000</del> <u>187,800</u>	<del>43,100</del> <u>42,900</u>	+30%
<b>Total Daily Vehicle Hours of Delay (Recurring + Non-Recurrent)</b>	<b>498,100</b>	<del><b>719,100</b></del> <u><b>718,700</b></u>	<del><b>221,000</b></del> <u><b>220,600</b></u>	<b>+44%</b>

Notes:

- <sup>1</sup> Daily metrics are measured for a typical weekday and rounded to the nearest 100.
- <sup>2</sup> Only reflects interzonal trips (assigned directly to the highway network); includes intraregional, interregional, and commercial vehicle trips, and trips to and from the airport and future high-speed rail stations.
- <sup>3</sup> Total daily VMT is calculated using *Travel Model One*; therefore, to calculate per-capita VMT, it is essential to use simulated population levels to ensure consistency. Simulated population may be slightly different than overall population forecasts for Plan Bay Area EIR alternatives because of slight variability in modeling tools. Further clarification on this issue is found in the Plan Bay Area EIR technical appendices.
- <sup>4</sup> Only includes non-recurrent delay on freeway facilities.

Figures may not sum because of independent rounding.

Source: Metropolitan Transportation Commission Travel Demand Forecasts 2016 and 2018

**Table 4 Revised EIR Table 2.1-15 Typical Weekday Daily Person Trips, by Mode (2015-2040)**

Purpose	2015		2040 Plan Amendment	
	Trips	% of Total	Trips	% of Total
Drive Alone	12,310,000	47.6%	<del>14,880,100</del> <u>14,877,500</u>	46.6%
Carpool	8,917,700	34.4%	<del>11,138,800</del> <u>11,140,600</u>	34.9%
Transit	1,660,900	6.4%	2,208,500	6.9%
Walk	2,695,600	10.4%	<del>3,320,700</del> <u>3,322,400</u>	10.4%
Bike	305,500	1.2%	<del>359,100</del> <u>359,400</u>	1.1%
<b>Total Trips<sup>1</sup></b>	<b>25,889,700</b>	<b>100%</b>	<b><del>31,907,200</del> <u>31,908,500</u></b>	<b>100%</b>

Note: <sup>1</sup> Excludes commercial and interregional trips.

Figures may not sum because of independent rounding.

Source: Metropolitan Transportation Commission Travel Demand Forecasts 2016 and 2018

**Table 5 Revised EIR Table 2.1-16 Per-Trip Commute Travel Time, by Mode (2015-2040)**

Mode	2015	2040 Plan Amendment	Change (2015 to 2040 Plan Amendment)	
			Numerical	Percent
Drive Alone	19.6	19.9	0.3	+2%
Carpool	21.8	22.0	0.2	+1%
Transit	38.9	<del>38.1</del> <u>38.0</u>	<del>-0.8</del> <u>-0.9</u>	-2%
Walk	21.5	21.2	-0.3	-1%
Bike	13.4	13.4	0.0	0%
<b>All Modes</b>	<b>22.3</b>	<b>22.6</b>	<b>0.3</b>	<b>+1%</b>

Note: Travel times are shown in minutes.

Source: Metropolitan Transportation Commission Travel Demand Forecasts 2016 and 2018

Tables 2 through 4 revise information presented in the EIR regarding Year 2040 conditions under the Plan that were not tied to a particular analysis of Plan impacts but provided background information that informed the assessment of potential impacts. Table 5, Revised EIR Table 2.1-16, reflects changes to per-trip commute travel times by mode as a result of the Amendment to the Plan, which was analyzed in the EIR under Impact 2.1-1. The Final EIR found that the Plan's shorter average distances between home and employment correlates with reduced walk and transit and commute travel times. This impact was considered less than significant. The Amendment results in an improvement to commute travel times due to a slight decrease in transit travel times; however, the decrease is negligible relative to baseline conditions (2015). All other modes' travel times remained constant relative to the Final EIR.

**Table 6 Revised EIR Table 2.1-19 Per-Capita Daily Vehicle Miles of Travel by Level of Service by County (2015-2040)**

LOS <sup>1</sup> (V/C Ratio)	County	2015	2040 Plan Amendment	Change (2015 to 2040 Plan Amendment)	
				Numerical	Percent
<b>AM Peak Period (6 AM to 10 AM)</b>					
A-C (< 0.75)	San Francisco	0.18	0.14	-0.04	-22%
	San Mateo	0.43	0.38	-0.05	-12%
	Santa Clara	0.88	0.87	-0.01	-1%
	<b>Regional Total</b>	<b>3.48</b>	<b>3.09</b>	<b>-0.39</b>	<b>-11%</b>
D-E (0.75-1.00)	San Francisco	0.06	<del>0.06</del> 0.07	<del>0.00</del> +0.01	<del>0%</del> +17%
	San Mateo	0.11	0.10	-0.01	-9%
	Santa Clara	0.31	0.27	-0.04	-13%
	<b>Regional Total</b>	<b>1.32</b>	<b><del>1.30</del> 1.31</b>	<b><del>-0.02</del> -0.01</b>	<b><del>-2%</del> -1%</b>
F (> 1.00)	San Francisco	0.02	0.02	0.00	0%
	San Mateo	0.01	0.01	0.00	0%
	Santa Clara	0.04	0.03	-0.01	-25%
	<b>Regional Total</b>	<b>0.23</b>	<b><del>0.22</del> 0.23</b>	<b><del>-0.01</del> 0.00</b>	<b><del>-4%</del> 0%</b>
<b>Total</b>		<b>5.01</b>	<b><del>4.60</del> 4.63</b>	<b><del>-0.41</del> -0.38</b>	<b>-8%</b>
<b>PM Peak Period (3 PM to 7 PM)</b>					
A-C (< 0.75)	San Francisco	0.21	0.14	-0.07	-33%
	San Mateo	0.46	<del>0.40</del> 0.41	<del>-0.06</del> -0.05	<del>-13%</del> -11%
	Santa Clara	0.97	0.93	-0.04	-4%
	<b>Regional Total</b>	<b>3.85</b>	<b><del>3.31</del> 3.34</b>	<b><del>-0.54</del> -0.51</b>	<b><del>-14%</del> -13%</b>
D-E (0.75-1.00)	San Francisco	0.06	0.10	+0.04	+67%
	San Mateo	0.12	0.12	0.00	0%
	Santa Clara	0.40	0.41	+0.01	+2%
	<b>Regional Total</b>	<b>1.43</b>	<b>1.65</b>	<b>+0.22</b>	<b>+15%</b>
F (> 1.00)	San Francisco	0.02	0.05	+0.03	+150%
	San Mateo	0.01	0.01	0.00	0%
	Santa Clara	0.03	0.03	0.00	0%
	<b>Regional Total</b>	<b>0.15</b>	<b>0.22</b>	<b>+0.07</b>	<b>+47%</b>
<b>Total</b>		<b>5.43</b>	<b><del>5.18</del> 5.21</b>	<b><del>-0.25</del> -0.22</b>	<b><del>-5%</del> -4%</b>
<b>Daily</b>					
A-C (< 0.75)	San Francisco	0.87	<del>0.69</del> 0.68	<del>-0.18</del> -0.19	<del>-21%</del> -22%
	San Mateo	1.74	1.59	-0.15	-9%
	Santa Clara	4.02	3.92	-0.10	-2%
	<b>Regional Total</b>	<b>15.85</b>	<b><del>14.52</del> 14.51</b>	<b><del>-1.33</del> -1.34</b>	<b>-8%</b>
D-E (0.75-1.00)	San Francisco	0.17	<del>0.27</del> 0.28	<del>+0.10</del> +0.11	<del>+59%</del> +65%
	San Mateo	0.25	0.24	-0.01	-4%
	Santa Clara	0.82	<del>0.81</del> 0.80	<del>-0.01</del> -0.02	<del>-1%</del> -2%
	<b>Regional Total</b>	<b>3.02</b>	<b><del>3.46</del> 3.45</b>	<b><del>+0.44</del> +0.43</b>	<b><del>+15%</del> 14%</b>
F (> 1.00)	San Francisco	0.04	0.07	+0.03	+75%
	San Mateo	0.01	0.02	+0.01	+100%
	Santa Clara	0.07	0.06	-0.01	-14%
	<b>Regional Total</b>	<b>0.38</b>	<b>0.44</b>	<b>0.06</b>	<b>+16%</b>
<b>Total</b>		<b>19.25</b>	<b><del>18.42</del> 18.40</b>	<b><del>-0.83</del> -0.85</b>	<b>-4%</b>

Notes: <sup>1</sup> LOS measures traffic density with a range of A to F. LOS A-C reflect free-flow conditions with minimal delay. LOS D-E reflect somewhat congested conditions with some possible delays. LOS F reflects very congested conditions with significant volumes greater than roadway capacity, leading to significant delays.

Source: Metropolitan Transportation Commission Travel Demand Forecasts 2016 and 2018

Table 6 reflects changes to the per-capita daily vehicle miles of travel (VMT) by level of service (LOS) as a result of the Amendment to the Plan. Impact 2.1-3 in the Final EIR found that per-capita VMT on severely

congested corridors (LOS F) would increase in the PM peak and decrease in the AM peak compared to existing conditions and found that the increases in per-capita VMT on severely congested corridors would be limited to a subset of Bay Area counties and time periods. The Amendment results in no changes to per-capita VMT on severely congested corridors in San Mateo, nor its adjacent counties. The Amendment results in a negligible increase in the regional per-capita VMT on severely congested corridors during the AM peak period. The Amendment does not result in any other changes to the per-capita VMT in congested corridors in the AM nor PM peak periods relative to the Final EIR.

**Table 7 Revised EIR Table 2.1-20 Daily Vehicle Miles of Travel Per-Capita (2015-2040)**

Vehicle Miles Traveled	County	2015	2040 Plan Amendment	Change (2015 to 2040 Plan Amendment)	
				Numerical	Percent
Daily <sup>1</sup> Vehicle Miles of Travel (VMT) <sup>2</sup>	San Francisco	8,734,100	<del>10,527,400</del> 10,527,900	1,793,300	+21%
	San Mateo	16,429,700	<del>19,138,100</del> 19,131,100	2,708,400	+16%
	Santa Clara	40,657,200	<del>50,081,100</del> 50,069,800	9,423,900	+23%
	<b>Regional Total</b>	<b>157,864,200</b>	<b><del>190,777,500</del> 190,751,900</b>	<b><del>32,913,200</del> 32,887,700</b>	<b>+21%</b>
Daily <sup>1</sup> Vehicle Miles of Travel <sup>2</sup> per Capita <sup>3</sup>	San Francisco	9.5	9.0	-0.5	-5%
	San Mateo	21.6	21.1	-0.5	-2%
	Santa Clara	21.4	19.9	-1.5	-7%
	<b>Regional Total</b>	<b>20.9</b>	<b>20.0</b>	<b>-0.9</b>	<b>-4%</b>

Notes: Figures may not sum because of independent rounding.

<sup>1</sup> Daily metrics are measured for a typical weekday.

<sup>2</sup> Only reflects interzonal trips (assigned directly to the highway network); includes intraregional, interregional, and commercial vehicle trips, and trips to and from the airport and future high-speed rail stations.

<sup>3</sup> Total daily VMT is calculated using *Travel Model One*; therefore, to calculate per-capita VMT, it is essential to use simulated population levels to ensure consistency. Simulated population may be slightly different than overall population forecasts for Plan Bay Area EIR alternatives because of slight variability in modeling tools. Further clarification on this issue can be found in the Plan Bay Area EIR technical appendices.

Source: Metropolitan Transportation Commission Travel Demand Forecasts 2016 and 2018

Table 7 reflects changes in daily vehicle miles of travel (VMT) per-capita by County as a result of the Amendment. Impact 2.1-4 in the Final EIR found that regional per-capita VMT would decrease as a result of the Plan and there would not be a significant increase (greater than 5 percent) in per-capita VMT at the county level, and therefore the impact would be less than significant (LS). The Amendment results in slight reductions in regional daily VMT and in San Mateo and Santa Clara counties. The Amendment results in a slight increase in daily VMT in San Francisco; however, the Amendment does not result in any changes to the conclusions regarding per-capita VMT relative to the Final EIR.

As discussed in Table 1, and shown above in Tables 2 through 7, the Amendment results in negligible differences relative to the Final EIR; however, the Amendment does not result in any changes to the significance conclusions relative to the impacts analyzed in the Final EIR. There would be no new significant impacts related to transportation from the Amendment to the Plan, nor would the severity of any previously identified significant impacts increase. Furthermore, the revised data shown above is very similar to the findings of the Final EIR. The Amendment would also incorporate the same mitigation measures identified in the Final EIR, as applicable.

## 4.2 AIR QUALITY

Several tables included in the Air Quality section (Section 2.2) of the Draft/Final EIR have been revised to reflect changes as a result of the Amendment to the Plan as well as to include Final EIR data, where applicable. The revised tables are presented below.

**Table 8 Revised EIR Table 2.2-6 Bay Area Travel Activity Data**

	2015	2040 Plan Amendment	Change (2015 to 2040 Plan Amendment)	
			Numerical	Percent
Vehicles in Use	4,651,300	<del>6,230,200</del> <u>6,226,900</u>	<del>1,578,900</del> <u>1,575,600</u>	34%
Daily VMT	161,151,800	<del>195,595,000</del> <u>195,507,300</u>	<del>34,443,300</del> <u>34,355,500</u>	21%
Engine Starts	29,080,900	<del>38,509,800</del> <u>38,355,500</u>	<del>9,429,000</del> <u>9,408,600</u>	32%
<b>Total Population</b>	<b>7,570,500</b>	<b>9,560,800</b>	<b>2,056,200</b>	<b>27%</b>
<b>Total Employment</b>	<b>4,010,100</b>	<b>4,698,400</b>	<b>688,200</b>	<b>17%</b>

Notes: VMT = vehicle miles traveled

Source: Metropolitan Transportation Commission 2017 and 2018

**Table 9 Revised EIR Table 2.2-12 Net Mobile- and Area-Source Emissions Forecasted under the Plan<sup>1</sup>**

Source	ROG	NO <sub>x</sub> <sup>2</sup>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Mobile	<del>-37</del> <u>-36</u>	<del>-76</del> <u>-75</u>	<del>-302</del> <u>-297</u>	<del>5</del> <u>6</u>	<1
Area	16	5	68	7	7
<b>Total</b>	<del>-21</del> <u>-20</u>	<del>-71</del> <u>-70</u>	<del>-234</del> <u>-229</u>	<del>12</del> <u>13</u>	7
Increase from Existing?	No	No	No	Yes	Yes

Source: Data provided by Ascent Environmental, Inc. in 2017 based on modeling using CalEEMod 2016.3.1 and land use estimates from Metropolitan Transportation Commission.

<sup>1</sup> "New land uses" are the net change in land uses between 2015 and 2040 anticipated under the proposed Plan.

<sup>2</sup> Summertime emissions.

Table 8 presents background information on travel data that informs the EIR analysis, but is not tied to a specific air quality impact analysis. Table 9 reflects the net mobile and area source emissions forecasted as a result of the Amendment to the Plan used to analyze Impact 2.2-3 in the Final EIR, which found that there would be a net increase in PM emissions. Therefore, the Final EIR concluded the Plan could cause a net increase of emissions of criteria pollutants from mobile and area-sources. The Amendment results in a slight decrease in net mobile emissions of ROG, NO<sub>x</sub>, and CO; whereas, the Amendment results in a slight increase in PM<sub>10</sub> emissions. The Amendment does not result in any changes to the significance conclusions relative to the Final EIR.

As discussed in Table 1, and shown above in Tables 8 through 9, the Amendment results in negligible differences relative to the Final EIR; however, the Amendment does not result in any changes to the significance conclusions relative to the impacts analyzed in the Final EIR. There would be no new significant impacts related to transportation from the Amendment to the Plan, nor would the severity of any previously identified significant impacts increase. Furthermore, the revised data shown above is very similar to the findings of the Final EIR. The Amendment would also incorporate the same mitigation measures identified in the Final EIR, as applicable.

## 4.3 CLIMATE CHANGE AND GREENHOUSE GASES

Several tables included in the Climate Change and Greenhouse Gases section (Section 2.5) of the Draft/Final EIR have been revised to reflect changes as a result of the Amendment to the Plan as well as to include Final EIR data, where applicable. The revised tables are presented below.

**Table 10 Revised EIR Table 2.5-7 SB 375 Target Analysis of Passenger Vehicle and Light Duty Truck CO<sub>2</sub> Emissions<sup>1</sup>**

Year	Population	VMT	Modeled GHG Emissions (tons CO <sub>2</sub> /day)	Climate Policy Initiatives Reduction relative to 2005 (tons CO <sub>2</sub> /day)	Emissions per Capita (lb CO <sub>2</sub> ) <sup>2</sup>	Percent Reduction in Per Capita CO <sub>2</sub> Emissions Relative to 2005 <sup>2</sup>	
						Plan with Climate Initiatives Program	SB 375 Target
2005	6,979,000	149,164,000	63,500	0	18.2	0	NA
2020	7,890,000	164,346,000	<del>65,200</del> <u>68,870*</u>	-3,600	<del>15.6</del> <u>16.5*</u>	<del>-14.3%</del> <u>-9.1%*</u>	-7%
2035	9,076,000	<del>185,930,000</del> <u>185,948,361</u>	<del>77,700</del> <u>77,600</u>	-7,900	15.4	<del>-15.5%</del> <u>-15.6%</u>	-15%
2040	9,561,000	<del>191,529,000</del> <u>191,503,000</u>	<del>80,200</del> <u>80,000</u>	-7,700	<del>15.2</del> <u>15.1</u>	<del>-16.7%</del> <u>-17.0%</u>	NA

Note: “—” = not applicable, lb = pound, CO<sub>2</sub> = carbon dioxide, NA = not available, SB = Senate Bill, VMT = vehicle miles travelled

<sup>1</sup> Estimates calculated using EMFAC2014, adjusted to EMFAC2007 equivalents based on ARB guidance.

<sup>2</sup> Figures may not sum because of independent rounding.

\*This change in modeled GHG emissions is a result of a correction to an error, rather than as a result of the proposed amendment to the Plan.

Source: MTC 2017 and 2018

Table 10 reflects the SB 375 target analysis of passenger vehicle and light duty truck CO<sub>2</sub> emissions as a result of the Amendment to the Plan. Impact 2.5-1 in the Final EIR found that because implementation of the Plan would reduce per-capita passenger vehicle and light duty truck CO<sub>2</sub> emissions by over seven percent by 2020 and by over 15 percent by 2035 as compared to 2005 baseline, per SB 375, the impact would be less than significant (LS). The Amendment results in negligible reductions in CO<sub>2</sub> emissions relative to the Final EIR and further reduces the per-capita reduction in passenger vehicle and light duty truck CO<sub>2</sub>.

**Table 11 Revised EIR Table 2.5-10 Existing and Forecasted Annual Transportation GHG Emissions by Vehicle Source (MTCO<sub>2</sub>e)<sup>1</sup>**

Emissions Source	2015 Baseline	2040 Plan	Change from Existing <sup>1</sup>	Percent Change from Existing <sup>2</sup>
<b>Without Pavley Regulations</b>				
Passenger Vehicles	19,358,000	<del>23,418,000</del> <u>23,408,000</u>	<del>4,060,000</del> <u>4,050,000</u>	21%
Trucks	4,484,000	<del>5,361,000</del> <u>5,360,000</u>	<del>877,000</del> <u>876,000</u>	20%
Buses	599,000	475,000	-124,000	-21%
Other Vehicles	122,000	113,000	-9,000	-7%
MTC Climate Initiatives Program	0	-2,350,000	-2,350,000	-
<b>Total (without Pavley regulations)</b>	<b>24,563,000</b>	<b><del>27,017,000</del> <u>27,006,000</u></b>	<b><del>2,454,000</del> <u>2,443,000</u></b>	<b>10%</b>
<b>With Pavley Regulations</b>				
Passenger Vehicles	18,222,000	<del>11,715,000</del> <u>11,710,000</u>	<del>-6,507,000</del> <u>-6,512,000</u>	-36%
Trucks	4,484,000	<del>5,361,000</del> <u>5,360,000</u>	<del>877,000</del> <u>876,000</u>	20%
Buses	599,000	475,000	-124,000	-21%
Other Vehicles	122,000	113,000	-9,000	-7%
MTC Climate Initiatives Program	0	-2,350,000	-2,350,000	-
<b>Total (with Pavley regulations)<sup>1</sup></b>	<b>23,427,000</b>	<b><del>15,314,000</del> <u>15,308,000</u></b>	<b><del>-8,113,000</del> <u>-8,119,000</u></b>	<b>-35%</b>

**Table 11 Revised EIR Table 2.5-10 Existing and Forecasted Annual Transportation GHG Emissions by Vehicle Source (MTCO<sub>2e</sub>)<sup>1</sup>**

Emissions Source	2015 Baseline	2040 Plan	Change from Existing <sup>1</sup>	Percent Change from Existing <sup>2</sup>
Emission Reductions because of Pavley regulations	1,136,000	<del>11,703,000</del> <u>11,698,000</u>	<del>10,567,000</del> <u>10,562,000</u>	-

Notes: MTCO<sub>2e</sub> = metric tons of carbon dioxide equivalent, MTC = Metropolitan Transportation Commission, “-” = not applicable

<sup>1</sup> Estimates calculated using EMFAC2014. MTC applied a ratio of 1.00:1.02 to all EMFAC2014 generated CO<sub>2</sub> estimates for conversion to CO<sub>2e</sub>. Emissions were annualized by multiplying by 300 to take account for the fact that there is less traffic on weekends.

<sup>2</sup> Figures may not sum because of independent rounding.

Source: MTC 2017 and 2018

**Table 12 Revised EIR Table 2.5-11 Annual GHG Emissions from Forecasted Land Use and Transportation Sources (MTCO<sub>2e</sub>/year)<sup>1</sup>**

Sources	2015	2040 Plan	Net Change in MTCO <sub>2e</sub> /year between 2015-2040	Percent Change in MTCO <sub>2e</sub> /year between 2015-2040
Land Use	28,140,000 <sup>2</sup>	29,604,400 <sup>3</sup>	1,464,400	5%
Transportation	23,427,000 <sup>4</sup>	<del>15,314,000</del> <u>15,308,000</u> <sup>4</sup>	<del>8,113,000</del> <u>-8,119,000</u>	-35%
<b>Regional Emissions Total</b>	<b>51,567,000</b>	<b><del>44,918,400</del> <u>44,912,400</u></b>	<b><del>-6,648,600</del> <u>-6,654,600</u></b>	<b>-13%</b>

Note: MTCO<sub>2e</sub> = metric tons of carbon dioxide equivalent

<sup>1</sup> Figures may not sum because of independent rounding.

<sup>2</sup> Based on emissions from electricity consumption, building energy usage (e.g., natural gas, propane), and waste management emissions from BAAQMD’s 2015 Bay Area GHG Inventory (BAAQMD 2017:Table3-2).

<sup>3</sup> Calculated by adding net change to 2015 values. Calculations assume residential and non-residential land uses built between 2015 and 2040 would be built to 2016 building energy efficiency standards.

<sup>4</sup> Calculated by MTC using EMFAC2014, 2017 and 2018.

Source: BAAQMD 2017, MTC 2017, Data compiled by Ascent Environmental 2017

Tables 11 and 12 reflect existing and forecasted annual transportation GHG emissions by vehicle source as a result of the Amendment to the Plan. Impact 2.5-2 in the Final EIR found that implementation of the Plan would result in a net reduction in GHG emissions in 2050 when compared to existing conditions, and therefore the impact was less than significant (LS). The amendment further reduces transportation emissions relative to the Final EIR; however, the reductions are negligible relative to baseline conditions.

**Table 13 Revised EIR Table 2.5-12 Calculation of GHG Reductions and Targets from Land use and Transportation relative to 1990 and 2015 levels**

Year	Bay Area Transportation and Land Use Emissions with Targets (MTCO <sub>2e</sub> /year)	Percent over 1990 Levels	Reductions needed from 1990 (MTCO <sub>2e</sub> /year)	Reductions needed from 2015 (MTCO <sub>2e</sub> /year)	Reductions from Proposed Plan (MTCO <sub>2e</sub> /year)	Additional Reductions Needed from 2015
1990	50,555,900 <sup>1</sup>	0%	NA	NA	NA	NA
2015	51,567,000 <sup>2</sup>	2%	NA	NA	NA	NA
2030	30,333,500	-40% <sup>3</sup>	20,222,400	21,233,500	NA	NA
2040	20,222,400	-60% <sup>4</sup>	30,333,500	31,344,600	6,648,600 <u>6,654,600</u>	<del>24,696,000</del> <u>24,690,000</u>
2050	10,111,200	-80% <sup>5</sup>	40,444,700	41,455,800	<del>6,648,600</del> <u>6,654,600</u>	<del>34,807,200</del> <u>34,801,200</u>



<sup>1</sup> Calculated assuming a 2% increase between 1990 and 2015, based on statewide trends

<sup>2</sup> Based on land use emissions from BAAQMD's 2017 Clean Air Plan and transportation estimates from MTC.

<sup>3</sup> Reflects the SB32 Target

<sup>4</sup> Interpolated target between 2030 and 2050.

<sup>5</sup> Reflects B-30-15 Target.

Source: Compiled by Ascent Environmental in 2017 with data from BAAQMD 2017 and MTC 2017

Table 13, Revised EIR Table 2.5-12, reflects a calculation of GHG reductions and targets from land use and transportation relative to 1990 and 2015 levels used to analyze Impact 2.5-3 in the Final EIR. The Final EIR concluded there would be a significant impact because the Plan would need to achieve additional reductions in emissions to meet statewide GHG reduction goals for 2040 and 2050. The Amendment would increase the Plan's reductions of GHG emissions so that fewer were reductions are needed to achieve the statewide GHG goals, but by only a small amount. Therefore, the impact remains significant.

As discussed in Table 1, and shown above in Tables 10 through 13, the Amendment results in negligible differences relative to the Final EIR; however, the Amendment does not result in any changes to the significance conclusions relative to the impacts analyzed in the Final EIR. There would be no new significant impacts related to transportation from the Amendment to the Plan, nor would the severity of any previously identified significant impacts increase. Furthermore, the revised data shown above is very similar to the findings of the Final EIR. The Amendment would also incorporate the same mitigation measures identified in the Final EIR, as applicable.



## 5 CONCLUSION

The addition of the Amendment to the Plan would not result in any new significant environmental effects or substantial increases in the severity of the previously identified significant effects disclosed in the Draft EIR and certified Final EIR completed for the Plan.

None of the conditions described in §15162 of the CEQA Guidelines requiring the preparation of a subsequent Final EIR have occurred. Therefore, this Addendum to the Final EIR is an appropriate level of environmental review for the Amendment to the Plan as identified in §15164 of the CEQA Guidelines.

Date: March 28, 2018  
W.I.: 1121  
Referred by: Planning

ABSTRACT

MTC Resolution No. 4326

This resolution approves the Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (which includes both the Regional Transportation Plan and Sustainable Communities Strategy for the San Francisco Bay Area) (SCH# 2016052041).

Further discussion of this subject is contained in the Executive Director's memorandum to the Planning Committee dated March 2, 2018.

Date: March 28, 2018  
W.I.: 1121  
Referred by: Planning

Re: Approval of the Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (which includes both the Regional Transportation Plan and Sustainable Communities Strategy for the San Francisco Bay Area) (SCH# 2016052041)

METROPOLITAN TRANSPORTATION COMMISSION  
RESOLUTION NO. 4326

WHEREAS, the Metropolitan Transportation Commission (MTC) is the regional transportation planning agency for the San Francisco Bay Area pursuant to California Government Code Section 66500 *et seq.*; and

WHEREAS, MTC is the federally designated Metropolitan Planning Organization (MPO), pursuant to Section 134(d) of Title 23 of the United States Code (USC) for the nine-county San Francisco Bay Area region (the region); and

WHEREAS, Part 450 of Title 23 of the Code of Federal Regulations (CFR), requires MTC as the MPO to prepare and update a long-range Regional Transportation Plan (RTP) every four years; and

WHEREAS, the Association of Bay Area Governments (ABAG), a joint exercise of powers entity created pursuant to California Government Code Sections 6500 *et seq.*, is the Council of Governments and the regional land use planning agency for the San Francisco Bay Area; and

WHEREAS, California Government Code Section 65080 requires ABAG and MTC to prepare a sustainable communities strategy (SCS) for the San Francisco Bay Area; and

WHEREAS, the Plan Bay Area 2040 (“Plan”) constitutes the RTP and SCS for the San Francisco Bay Area; and

WHEREAS, the Plan, contains an integrated set of strategies and fiscally-constrained investments to maintain, manage, and improve the transportation system in the San Francisco

Bay Area through the year 2040 and calls for development of an integrated intermodal transportation system that facilitates the efficient, economic movement of people and goods; and

WHEREAS, MTC and ABAG served as joint lead agencies in preparing a Programmatic Environmental Impact Report (Program EIR) (SCH# 2016052041) with the assistance of MTC staff and consultants pursuant to the California Environmental Quality Act (CEQA) (Public Resources Code § 21000 *et seq.*) and the State CEQA Guidelines (14 Cal. Code Regs. § 15000 *et seq.*) for the Plan; and

WHEREAS, the Program EIR provides full disclosure and programmatic analysis of the potentially significant environmental effects of the Plan; and

WHEREAS, MTC and ABAG jointly certified the Program EIR prepared for the Plan (Final EIR) on July 26, 2017 (MTC Resolution No. 4299 and ABAG Resolution No. 09-17); and

WHEREAS, MTC and ABAG jointly adopted the Final Plan on July 26, 2017 (MTC Resolution No. 4300 and ABAG Resolution No. 10-17); and

WHEREAS, MTC and ABAG staff have prepared an Amendment to the Plan (Amended Plan), which is subject to the approval of the Commission and ABAG Executive Board under separate action (MTC Resolution No. 4327 and ABAG Resolution No. 03-18); and

WHEREAS, MTC and ABAG staff have prepared an Addendum to the Final EIR (Addendum) in response to the Amendment to the Plan, pursuant to provisions of the California Environmental Quality Act (CEQA) Guidelines § 15164.

WHEREAS the Addendum rather than a subsequent EIR has been prepared because none of the conditions described in § 15162 (a) calling for preparation of a subsequent EIR have occurred and because some changes or additions are necessary; and

WHEREAS, the Addendum need not be circulated for public review but can be included in or attached to the Final Environmental Impact Report pursuant to provisions of CEQA Guidelines § 15164(c); and

WHEREAS, MTC and ABAG staff prepared the Addendum, consisting of: (1) an introduction to the Addendum; (2) a description of the Amendment to the Plan; (3) CEQA checklist and impact analysis; (4) technical revisions to the Final EIR; and (5) a conclusion of the findings; and

WHEREAS, pursuant to CEQA Guidelines § 15164(d), MTC and ABAG considered the Final Addendum together with the Final EIR prior to making a decision on the Amendment to Plan Bay Area; and

WHEREAS, all other legal prerequisites to the approval of this Resolution have occurred; and

WHEREAS, MTC and ABAG have heard, been presented with, reviewed, and considered all of the information and data in the administrative record, including the Addendum, and all oral and written evidence presented to it during all meetings; now, therefore, be it

RESOLVED, that MTC hereby certifies that the foregoing recitals are true and correct and incorporated by this reference; and be it further

RESOLVED, MTC and ABAG staff prepared the Addendum, consisting of: (1) an introduction to the Addendum; (2) a description of the Amendment to the Plan; (3) CEQA checklist and impact analysis; (4) technical revisions to the Final EIR; and (5) a conclusion of the findings; and be it further

RESOLVED, that MTC finds the Addendum satisfies all the requirements of CEQA and the State CEQA Guidelines; and be it further

RESOLVED, that MTC, as a decision-making body, certifies the Addendum (Attachment A) was presented to them and that they reviewed and considered the information in the Addendum prior to approving the Amendment to the Plan; and be it further

RESOLVED, that MTC directs staff to immediately (within five working days): (a) file a Notice of Determination documenting these decisions (CEQA Guidelines § 15094); and (b) retain a copy of the approved Addendum as a public record.

METROPOLITAN TRANSPORTATION COMMISSION

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Jake Mackenzie, Chair

This resolution was entered into by the Metropolitan Transportation Commission at a meeting of the Commission held in San Francisco, California on March 28, 2018.



Date: March 28, 2018  
W.I.: 1121  
Referred by: Planning

Attachment A  
Resolution No. 4326  
Page 1 of 1

**Addendum to the Program EIR for Plan Bay Area 2040**

The Addendum to the Program EIR for Plan Bay Area 2040 is on file in the offices of the Metropolitan Transportation Commission, Bay Area Metro Center, 375 Beale Street, Suite 800, San Francisco, CA 94105.

**ASSOCIATION OF BAY AREA GOVERNMENTS  
EXECUTIVE BOARD**

**RESOLUTION NO. 02-18**

**RE: APPROVAL OF THE ADDENDUM TO THE FINAL ENVIRONMENTAL IMPACT REPORT FOR PLAN BAY AREA 2040 (SCH# 2016052041)**

**WHEREAS**, the Association of Bay Area Governments (ABAG), a joint exercise of powers entity created pursuant to California Government Code Sections 6500 et seq., is the Council of Governments and the regional land use planning agency for the San Francisco Bay Area; and

**WHEREAS**, the Metropolitan Transportation Commission (MTC) is the regional transportation planning agency for the San Francisco Bay Area pursuant to California Government Code Section 66500 et seq.; and

**WHEREAS**, Part 450 of Title 23 of the Code of Federal Regulations (CFR), requires MTC as the MPO to prepare and update a long-range Regional Transportation Plan (RTP) every four years; and

**WHEREAS**, California Government Code Section 65080 requires ABAG and MTC to prepare a sustainable communities strategy (SCS) for the San Francisco Bay Area; and

**WHEREAS**, the Plan Bay Area 2040 ("Plan") constitutes the RTP and SCS for the San Francisco Bay Area; and

**WHEREAS**, the Plan, contains an integrated set of strategies and fiscally-constrained investments to maintain, manage, and improve the transportation system in the San Francisco Bay Area through the year 2040 and calls for development of an integrated intermodal transportation system that facilitates the efficient, economic movement of people and goods; and

**WHEREAS**, ABAG and MTC served as joint lead agencies in preparing a Programmatic Environmental Impact Report (Program EIR) (SCH# 2016052041) with the assistance of MTC staff and consultants pursuant to the California Environmental Quality Act (CEQA) (Public Resources Code § 21000 et seq.) and the State CEQA Guidelines (14 Cal. Code Regs. § 15000 et seq.) for the Plan; and

**WHEREAS**, the Program EIR provides full disclosure and programmatic analysis of the potentially significant environmental effects of the Plan; and

**WHEREAS**, ABAG and MTC jointly certified the Program EIR prepared for the Plan (Final EIR) on July 26, 2017 (ABAG Resolution No. 09-17 and MTC Resolution No. 4299); and

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 02-18**

**WHEREAS**, ABAG and MTC jointly adopted the Final Plan on July 26, 2017 (ABAG Resolution No. 10-17 and MTC Resolution No. 4300); and

**WHEREAS**, ABAG and MTC staff have prepared an Amendment to the Plan (Amended Plan), which is subject to the approval of the ABAG Executive Board and Commission under separate action (ABAG Resolution No. 03-18 and MTC Resolution No. 4327); and

**WHEREAS**, ABAG and MTC staff have prepared an Addendum to the Final EIR (Addendum) in response to the Amendment to the Plan, pursuant to provisions of the California Environmental Quality Act (CEQA) Guidelines § 15164.

**WHEREAS**, the Addendum rather than a subsequent EIR has been prepared because none of the conditions described in § 15162 (a) calling for preparation of a subsequent EIR have occurred and because some changes or additions are necessary; and

**WHEREAS**, the Addendum need not be circulated for public review but can be included in or attached to the Final Environmental Impact Report pursuant to provisions of CEQA Guidelines § 15164(c); and

**WHEREAS**, MTC prepared the Addendum, consisting of: (1) an introduction to the Addendum; (2) a description of the Amendment to the Plan; (3) CEQA checklist and impact analysis; (4) technical revisions to the Final EIR; and (5) a conclusion of the findings; and

**WHEREAS**, pursuant to CEQA Guidelines § 15164(d), ABAG and MTC considered the Final Addendum together with the Final EIR prior to making a decision on the Amendment to Plan Bay Area 2040; and

**WHEREAS**, all other legal prerequisites to the approval of this Resolution have occurred; and

**WHEREAS**, ABAG and MTC have heard, been presented with, reviewed, and considered all of the information and data in the administrative record, including the Addendum, and all oral and written evidence presented to it during all meetings; now, therefore, be it

**RESOLVED**, that ABAG hereby certifies that the foregoing recitals are true and correct and incorporated by this reference; and be it further

**RESOLVED**, ABAG and MTC staff prepared the Addendum, consisting of: (1) an introduction to the Addendum; (2) a description of the Amendment to the Plan; (3) CEQA checklist and impact analysis; (4) technical revisions to the Final EIR; and (5) a conclusion of the findings; and be it further

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 02-18**

**RESOLVED**, that ABAG finds the Addendum satisfies all the requirements of CEQA and the State CEQA Guidelines; and be it further

**RESOLVED**, that ABAG, as a decision-making body, approves the Addendum (Attachment A) was presented to them and that they reviewed and considered the information in the Addendum prior to approving the Amendment to the Plan; and be it further

**RESOLVED**, that ABAG directs staff to immediately (within five working days): (a) file a Notice of Determination documenting these decisions (CEQA Guidelines § 15094); and (b) retain a copy of the approved Addendum as a public record.

The foregoing was adopted by the Executive Board this 15<sup>th</sup> day of March, 2018.

---

David Rabbitt  
President

**Certification of Executive Board Approval**

I, the undersigned, the appointed and qualified Clerk of the Board of the Association of Bay Area Governments (Association), do hereby certify that the foregoing resolution was adopted by the Executive Board of the Association at a duly called meeting held on the 15<sup>th</sup> day of March, 2018.

---

Frederick Castro  
Clerk of the Board

**Approved as to Legal Form**

---

Adrienne Weil  
General Counsel  
Metropolitan Transportation Commission

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 02-18**

**Exhibit 1**

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Plan Bay Area 2040:  
Amendment

March 2018



METROPOLITAN  
TRANSPORTATION  
COMMISSION



Association of  
Bay Area Governments

Bay Area Metro Center  
375 Beale Street  
San Francisco, CA 94105

(415) 778-6700  
info@bayareametro.gov  
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## Project Staff

**Ken Kirkey**  
Director, Planning

**Matt Maloney**  
Assistant Director

**Adam Noelting**  
Project Manager



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# 1. Introduction

The Metropolitan Transportation Commission (MTC) and the Association of Bay Area Governments (ABAG) jointly adopted Plan Bay Area on July 26, 2017 (MTC Resolution No. 4300 and ABAG Resolution No. 10-17).

Plan Bay Area 2040 (the “Plan”) is the updated long-range Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS) for the nine-county San Francisco Bay Area. Plan Bay Area 2040 is the Bay Area’s roadmap for forecasting transportation needs through the year 2040, preserving the character of our diverse communities, and adapting to the challenges of future population growth. The Plan discusses how the Bay Area will grow over the next two decades and identifies transportation and land use strategies to enable a more sustainable, equitable and economically vibrant future. Starting with the current state of the region, the Plan describes Plan Bay Area 2040 and its goals, a proposed growth pattern and supporting transportation investment strategy, and key actions needed to address ongoing and long-term regional challenges. The Plan also includes supplemental reports for additional details. These documents and the adopted Plan can be found at <http://2040.planbayarea.org/reports>.

## 2. Amendment to Plan Bay Area 2040

An amendment is a major revision to the Plan, including adding or deleting a project, major changes in project costs and scope (e.g., changing project locations or the number of through traffic lanes). As stipulated in MTC’s Public Participation Plan (2015), a Plan amendment requires public review and comment, demonstration that the project can be completed based on expected funding, and/or a finding that the change is consistent with federal transportation conformity mandates. Amendments that require an update to the air quality conformity analysis will be subject to the conformity and interagency consultation procedures described in MTC Resolution No. 3757.

In December 2017, the City/County Association of Governments of San Mateo County (C/CAG) requested an amendment to Plan Bay Area 2040 to modify the scope and project cost of the U.S. Highway 101 Managed Lanes Project in San Mateo County (RTPID 17-06-0007). The work planned by C/CAG and the San Mateo County Transportation Authority to upgrade U.S. Highway 101 in San Mateo County was initially described in Plan Bay Area 2040 as:

*“Modify existing lanes to accommodate an HOV lane from Whipple to San Francisco County Line and/or an Express Lane from approximately 2 miles south of the Santa Clara County Line to San Francisco County Line. Work may include shoulder modification, ramp modifications and interchange modifications to accommodate an extra lane. Work will be phased.”*

The amendment to the Plan clarifies the project description and changes specific lane configuration assumptions along the project corridor to accommodate a proposed Express Lane. The amendment aligns the Plan’s assumptions to the assumptions of the preferred alternative in the project’s Draft Environmental Impact Report (EIR).

The amendment also increases the total project cost to \$534 million. The U.S. Highway 101 Managed Lanes Project was included in the adopted Plan’s fiscally constrained transportation investment strategy with a cost estimate of \$365 million. The amendment increases this cost to \$534 million to match the revised scope and the latest cost estimates of the preferred alternative in the project’s Draft EIR.

Funds for the amendment’s cost increase are derived from the Plan’s set aside for project cost overruns

via the Cost Contingency and Financing programmatic project (RTPID 17-10-0016), also included in the adopted Plan’s fiscally constrained transportation investment strategy. Because the project funding is redirected from one adopted project to another within the Plan’s fiscally constrained transportation investment strategy, and no new funds are added to the Plan as part of this amendment, the Plan remains fiscally constrained as required by federal and state planning laws.

The Amendment to Plan Bay Area 2040 consists of the following updates:

- 1) Change the description, cost, and schedule of the U.S. Highway 101 Managed Lanes Project in San Mateo County (RTPID 17-06-0007):
  - a. **Basic Information** >> *What would this project/program do?*  
 “~~Modify existing lanes US 101 to accommodate an HOV lane from Whipple to San Francisco County Line and/or an Express Lane from approximately 2 miles south of the Santa Clara County Line to San Francisco County Line Grand Avenue interchange near the I-380 interchange. Work may include shoulder modification, ramp modifications and interchange modifications to accommodate an extra lane. Work will be phased.~~”
  - b. **Cost and Funding** >> *How much does this project/program cost?*  
 \$~~365~~ 534 (millions)
  - c. **Schedule** >> *By when is the project/program anticipated to open?*  
~~2020~~ 2021
  
- 2) Change the cost of the Cost Contingency and Financing Project (RTPID 17-10-0016):
  - a. **Cost and Funding** >> *How much does this project/program cost?*  
 \$~~621~~ 452 (millions)

No other changes or revisions are proposed in this amendment.

### 3. Comments & Response to Comments

In accordance with MTC’s public participation plan, MTC and ABAG released the Draft Amendment to Plan Bay Area 2040 for a 30-day public review and comment period, beginning January 22, 2018, and closing February 21, 2018. Opportunities to comment were publicized via MTC’s website, email notifications, and a news release. The following is a list of the public comments submitted to MTC along with staff’s responses to these comments.

No.	Name	Agency/Organization	Dated	Response
1	Gladwyn d’Souza (Chair)	Loma Prieta Transportation Committee, Sierra Club	Email 2/14/2018	Response #1
2	Ben Tripousis (Regional Director) Mark A. McLoughlin (Director of Environmental Services)	California High-Speed Rail Authority, Northern California Regional Office	Mail 2/16/2018	Response #2

## RESPONSE #1

The Sierra Club submitted four comments regarding the proposed amendments, below:

***Comment 1: if the lanes are constructed, will that help to make the Sustainable Communities Strategy more successful, or less so? The simultaneously released new Transportation-Air Quality Conformity Analysis implies no.***

The Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (Addendum) discloses potential environmental impacts of implementing the Amendment to Plan Bay Area 2040. Table 10 of Section 4.3, "Climate Change and Greenhouse Gases" of the Addendum discloses the amended Plan's ability to meet the region's per-capita greenhouse gasses (GHG) emissions reductions for cars and light duty trucks set forth by Senate Bill 375. This table ("Table 10") discloses that the amended Plan meets SB 375's per-capita reduction targets for 2020 (7%) and 2035 (15%). The amended Plan does not perform as well on the 2020 reduction target as the EIR had presented (9% vs 14% reduction); however, that difference is attributed to correction of an error and not related to the amendment. It is important to note that both the amended and adopted Plans meet the region's 2020 and 2035 SB 375 per-capita GHG emissions reduction targets from cars and light duty trucks.

The Transportation-Air Quality Conformity Analysis for the Amended Plan Bay Area 2040 and Amended 2017 Transportation Improvement Program (TIP) is conducted to ensure federally funded or approved highway and transit activities are consistent with ("conform to") the purpose of the state air quality implementation plan (SIP). Conformity to the purpose of the SIP means that transportation activities will not cause or contribute to new air quality violations, worsen existing violations, or delay timely attainment of the relevant national ambient air quality standards (NAAQS). This conformity analysis is a regional emissions analysis and applies to federally designated nonattainment and maintenance area for the transportation-related NAAQS criteria pollutants: ozone, PM2.5, PM10, carbon monoxide, and nitrogen dioxide. The conformity analysis does not include GHG emission results and/or inventories and, therefore, makes no implication about the amended Plan's ability to meet GHG reduction targets.

***Comment 2: if the lanes are constructed, will regional Vehicle Miles Traveled increase, remain constant, or decrease? The EIR for the 101 expansion forecast a 1% increase in the corridor which is business as usual.***

The Addendum to the Final Environmental Impact Report for Plan Bay Area 2040 (Addendum) discloses potential environmental impacts of implementing the Amendment to Plan Bay Area 2040. As disclosed in Table 3 of Section 4.1, "Transportation" of the Addendum, the amended Plan's impact to regional traffic metrics, including Vehicle Miles Traveled (VMT) and VMT per-capita, are slightly reduced relative to the adopted Plan (191,503,300 vs 191,528,600 regional average daily miles of travel). However, the difference (0.01%) in regional VMT between the amended and adopted Plans is negligible and is in essence the same relative to baseline conditions.

Similarly, the Transportation-Air Quality Conformity Analysis also includes regional VMT estimates as a result of the amended Plan and amended TIP as inputs into the emissions model. These regional VMT estimates also show a 0.01% reduction in VMT in the 2030 analysis year and a 0.05% reduction in the 2040 analysis year relative to the adopted Plan.

***Comment 3: shouldn't the available funds be used for making the SCS a success? On CCAG the dictum is that Caltrain relieves almost 8-10% of 101 traffic. Caltrain service needs to at least be doubled to make up for the capacity increase "between 4 and 7 percent in just the next three years" forecasted for the lane expansion by Leo Scott, deputy project manager at Caltrans. And tripled to reduce***

***congestion to have a freer flowing freeway for "consistent travel time for carpools and buses". Please consider not building the lanes but instead using some or all of the funds to electrify Caltrain and extended to the Transbay Transit Center in San Francisco. The right of way of the railroad is very close to the right of way of U.S. Highway 101. Would transit ridership increase more with an electrified and extended Caltrain than with the construction of the freeway lanes?***

As previously mentioned, both the amended and adopted Plans exceed the region's per-capita GHG emissions reduction targets set forth by SB 375 as evidenced in Table 10 of Section 4.3, "Climate Change and Greenhouse Gases" of the Addendum to the Final EIR for Plan Bay Area 2040. The amended Plan demonstrates it can achieve a 15.6% per-capita GHG emissions reduction from 2005 levels, thereby meeting the reduction target of 15% in 2035.

The electrification of Caltrain has been included in the fiscally constrained transportation investment strategy of the adopted Plan as RTPID #17-10-0008. Likewise, the extension of Caltrain to the Transbay Transit Center was also included in the adopted Plan as RTPID #17-10-0038. Please explore the Final Project Database, <http://projects.planbayarea.org/explore>, for the adopted Plan to learn more.

***Comment 4: instead of freeway expansion, why didn't SCS and VMT considerations in Plan Bay Area 2040 bias the EIR in favor of alternative 3 which was the cheapest: convert an existing general purpose lane to an express lane, allowing free access for buses and carpools (of 3+ people)?***

The Transportation-Air Quality Conformity Analysis nor the Addendum to the Final EIR assessed project level build alternatives. Instead, these technical analyses relied on the assumptions provided by the lead agency(s) implementing the project. Build alternatives were assessed in the project's environmental analysis. These amendments to the Plan and to the TIP seek to reflect the preferred alternative of the project level environmental analysis, and to determine whether the preferred alternative would be consistent with ("conform to") the purpose of the state air quality implementation plan (SIP), and/or result in the identification of any new or an increase in severity to previously disclosed environmental impacts to the region.

## **RESPONSE #2**

***Comment: The Authority ("California High-Speed Rail Authority") respectfully requests that MTC and local jurisdictions recognize the proposed high-speed rail blended service and how it may interact with the proposed Highway 101 Express Lane project. It is important to note that the Millbrae Station will serve as an important multi-modal connection opportunity for high-speed rail, BART, and Caltrain. Please keep the Authority informed of any ramp modifications at this location that could afford opportunities to improve access to the Millbrae Station.***

MTC and ABAG have staff have shared with Caltrans, the City/County Association of Governments of San Mateo County, and the San Mateo County Transportation Authority the California High-Speed Rail Authority's comment letter.

## **4. Adoption of the Amendment to Plan Bay Area 2040**

Plan Bay Area 2040 and this Amendment to Plan Bay Area 2040, taken together, constitute the complete Plan Bay Area 2040 document. Refer also to the companion technical documents that accompany this Amendment: (1) Addendum to the Final Environmental Impact Report (EIR) for Plan Bay Area 2040, (2) Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040

and 2017 Transportation Improvement Program, as amended by Revision 2017-28, and (3) 2017 Transportation Improvement Program, as amended by Revision 2017-28.

This amendment is scheduled for review and approval of the governing boards of the MTC and ABAG in March 2018. These pending resolutions – MTC Resolution No. 4327 and ABAG Resolution No. 03-18 – approving the amendment will be included for reference as part of the Amendment to Plan Bay Area 2040 (see Attachment A).

Date: March 28, 2018  
W.I.: 1121  
Referred by: Planning

ABSTRACT

MTC Resolution No. 4327

This resolution approves the Amendment to Plan Bay Area 2040, which includes both the Regional Transportation Plan and Sustainable Communities Strategy for the San Francisco Bay Area.

Further discussion of this subject is contained in the Executive Director's memorandum to the MTC Planning Committee and ABAG Administrative Committee dated March 2, 2018.

Date: March 28, 2018  
W.I.: 1121  
Referred by: Planning

Re: Approval of the Amendment to Plan Bay Area 2040, which includes both the Regional Transportation Plan and Sustainable Communities Strategy for the San Francisco Bay Area

METROPOLITAN TRANSPORTATION COMMISSION  
RESOLUTION NO. 4327

WHEREAS, the Metropolitan Transportation Commission (MTC) is the regional transportation planning agency for the San Francisco Bay Area pursuant to California Government Code Section 66500 *et seq.*; and

WHEREAS, MTC is the federally designated Metropolitan Planning Organization (MPO), pursuant to Section 134(d) of Title 23 of the United States Code (USC) for the nine-county San Francisco Bay Area region (the region); and

WHEREAS, Part 450 of Title 23 of the Code of Federal Regulations (CFR), require MTC as the MPO to prepare and update a long-range Regional Transportation Plan (RTP) every four years; and

WHEREAS, California Government Code § 65080 *et seq.* requires MTC to prepare and update a long-range RTP, including a Sustainable Communities Strategy (SCS) prepared in conjunction with the Association of Bay Area Governments (ABAG), every four years; and

WHEREAS, MTC and ABAG jointly adopted the Final Plan Bay Area 2040 (Plan) (MTC Resolution No. 4300 and ABAG Resolution No. 10-17) on July 26, 2017; and

WHEREAS, MTC and ABAG staff have prepared an Amendment to the Final Plan to modify the scope and projected cost of the U.S. Highway 101 Managed Lanes Project to accommodate an Express Lane in each direction (RTPID 17-06-0007); and

WHEREAS, the modification of the projected cost of the U.S. Highway 101 Managed Lanes Project (RTPID 17-06-0007) is within the financial constraint of the Final Plan because the additional funding for the project comes from the Cost Contingency and Financing



programmatic project (RTPID 17-10-0016) that is already included in the financially constrained Final Plan; and

WHEREAS, no other changes or revisions are made as part of the Amendment to the Final Plan; and

WHEREAS, MTC and ABAG staff circulated the Draft Amendment to the Plan for a 30-day public comment period, starting January 22, 2018, and closing on February 21, 2018, in following with the requirements of the MTC 2015 Public Participation Plan (MTC Resolution No. 4174); and

WHEREAS, MTC and ABAG staff prepared the Final Amendment to the Final Plan, consisting of the Draft Amendment, including all revisions (Final Amendments); and

WHEREAS, prior to taking action on the Final Amendment, MTC and ABAG have heard, been presented with, reviewed, and considered all of the information and data in the administrative record, including the Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 (MTC Resolution No. 4325), the Addendum to the Final Environmental Impact Report prepared for Plan Bay Area (MTC Resolution No. 4326 and ABAG Resolution No. 02-18), and all oral and written evidence presented to it during all meetings; now, therefore, be it

RESOLVED, that MTC hereby certifies that the foregoing recitals are true and correct and incorporated by this reference; and be it further

RESOLVED, MTC and ABAG staff prepared the Final Amendment, consisting of the Draft Amendment, including all revisions; and be it further

RESOLVED, that prior to taking action on the Final Amendment, MTC has heard, been presented with, reviewed, and considered all of the information and data in the administrative record, including the Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the Amended 2017 Transportation Improvement Program, as amended

by Revision Number 2017-28 (MTC Resolution No. 4325), the Addendum to the Final Environmental Impact Report prepared for Plan Bay Area (MTC Resolution No. 4326 and ABAG Resolution No. 02-18), and all oral and written evidence presented to it during all meetings; and be it further

RESOLVED, that MTC finds that the Final Amendment complies with the requirements of applicable laws; and be it further

RESOLVED, that MTC, as a decision-making body, hereby approves the Final Amendment to Plan Bay Area 2040 (Attachment A) as presented; and be it further

RESOLVED, that MTC directs staff to publish a copy of Final Amendment to Plan Bay Area 2040 and place it on file at the offices of MTC and to post an electronic copy onto the MTC website at [www.mtc.ca.gov](http://www.mtc.ca.gov).

METROPOLITAN TRANSPORTATION COMMISSION

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Jake Mackenzie, Chair

This resolution was entered into by the Metropolitan Transportation Commission at a meeting of the Commission held in San Francisco, California on March 28, 2018.

Date: March 28, 2018  
W.I.: 1121  
Referred by: Planning

Attachment A  
Resolution No. 4327  
Page 1 of 1

### **Amendment to Plan Bay Area 2040**

The Amendment to Plan Bay Area 2040 is on file in the offices  
of the Metropolitan Transportation Commission, Bay Area Metro Center,  
375 Beale Street, Suite 800, San Francisco, CA 94105.

**ASSOCIATION OF BAY AREA GOVERNMENTS  
EXECUTIVE BOARD**

**RESOLUTION NO. 03-18**

**RE: APPROVAL OF THE ADDENDUM TO PLAN BAY AREA 2040  
(SCH# 2016052041)**

**WHEREAS**, the Association of Bay Area Governments (ABAG), a joint exercise of powers entity created pursuant to California Government Code Sections 6500 et seq., is the Council of Governments and the regional land use planning agency for the San Francisco Bay Area; and

**WHEREAS**, the Metropolitan Transportation Commission (MTC) is the regional transportation planning agency for the San Francisco Bay Area pursuant to California Government Code Section 66500 et seq.; and

**WHEREAS**, Part 450 of Title 23 of the Code of Federal Regulations (CFR), requires MTC as the MPO to prepare and update a long-range Regional Transportation Plan (RTP) every four years; and

**WHEREAS**, California Government Code Section 65080 requires ABAG and MTC to prepare a sustainable communities strategy (SCS) for the San Francisco Bay Area; and

**WHEREAS**, the Plan Bay Area 2040 ("Plan") constitutes the RTP and SCS for the San Francisco Bay Area; and

**WHEREAS**, the Plan, contains an integrated set of strategies and fiscally-constrained investments to maintain, manage, and improve the transportation system in the San Francisco Bay Area through the year 2040 and calls for development of an integrated intermodal transportation system that facilitates the efficient, economic movement of people and goods; and

**WHEREAS**, ABAG and MTC jointly adopted the Final Plan Bay Area 2040 (Plan) (ABAG Resolution No. 10-17 and MTC Resolution No. 4300) on July 26, 2017; and

**WHEREAS**, ABAG and MTC staff have prepared an Amendment to the Final Plan to modify the scope and projected cost of the U.S. Highway 101 Managed Lanes Project to accommodate an Express Lane in each direction (RTPID 17-06-0007); and

**WHEREAS**, the modification of the projected cost of the U.S. Highway 101 Managed Lanes Project (RTPID 17-06-0007) is within the financial constraint of the Final Plan because the additional funding for the project comes from the Cost Contingency and Financing programmatic project (RTPID 17-10-0016) that is already included in the financially constrained Final Plan; and

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 03-18**

**WHEREAS**, no other changes or revisions are made as part of the Amendment to the Final Plan; and

**WHEREAS**, ABAG and MTC circulated the Draft Amendment to the Plan for a 30-day public comment period, starting January 22, 2018, and closing on February 21, 2018, in following with the requirements of the MTC 2015 Public Participation Plan (MTC Resolution No. 4174); and

**WHEREAS**, ABAG and MTC staff prepared the Final Amendment to the Final Plan, consisting of the Draft Amendment, including all revisions (Final Amendments); and

**WHEREAS**, prior to taking action on the Final Amendment, ABAG and MTC have heard, been presented with, reviewed, and considered all of the information and data in the administrative record, including the Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 (MTC Resolution No. 4325), the Addendum to the Final Environmental Impact Report prepared for Plan Bay Area (ABAG Resolution No. 02-18 and MTC Resolution No. 4326), and all oral and written evidence presented to it during all meetings; now, therefore, be it

**RESOLVED**, that ABAG hereby certifies that the foregoing recitals are true and correct and incorporated by this reference; and be it further

**RESOLVED**, ABAG and MTC staff prepared the Final Amendment, consisting of the Draft Amendment, including all revisions; and be it further

**RESOLVED**, that prior to taking action on the Final Amendment, ABAG has heard, been presented with, reviewed, and considered all of the information and data in the administrative record, including the Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the Amended 2017 Transportation Improvement Program, as amended by Revision Number 2017-28 (MTC Resolution No. 4325), the Addendum to the Final Environmental Impact Report prepared for Plan Bay Area (ABAG Resolution No. 02-18 and MTC Resolution No. 4326), and all oral and written evidence presented to it during all meetings; and be it further

**RESOLVED**, that ABAG finds that the Final Amendment complies with the requirements of applicable laws; and be it further

**RESOLVED**, that ABAG, as a decision-making body, hereby approves the Final Amendment to Plan Bay Area 2040 (Attachment A) as presented; and be it further

**RESOLVED**, that ABAG directs staff to publish a copy of Final Amendment to Plan Bay Area 2040 and place it on file at the offices of ABAG and to post an electronic copy onto the ABAG website at [www.abag.ca.gov](http://www.abag.ca.gov).

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 03-18**

The foregoing was adopted by the Executive Board this 15<sup>th</sup> day of March, 2018.

---

David Rabbitt  
President

**Certification of Executive Board Approval**

I, the undersigned, the appointed and qualified Clerk of the Board of the Association of Bay Area Governments (Association), do hereby certify that the foregoing resolution was adopted by the Executive Board of the Association at a duly called meeting held on the 15<sup>th</sup> day of March, 2018.

---

Frederick Castro  
Clerk of the Board

**Approved as to Legal Form**

---

Adrienne Weil  
General Counsel  
Metropolitan Transportation Commission



METROPOLITAN  
TRANSPORTATION  
COMMISSION

**Attachment F**  
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San Francisco, CA 94105  
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## *Memorandum*

TO: MTC Planning Committee

DATE: March 2, 2017

FR: Executive Director, MTC

W. I. 1512

RE: Proposed Amendment to the 2017 Transportation Improvement Program (TIP) - Revision Number 2017-28. Resolution No. 4275, Revised

### **Background**

The federally required TIP is a comprehensive listing of Bay Area surface transportation projects that are to receive federal funding, are subject to a federally required action, or are considered regionally significant for air quality conformity purposes during the four-year period from fiscal year 2016-17 through fiscal year 2019-20. MTC, as the federally designated Metropolitan Planning Organization (MPO) for the nine-county San Francisco Bay Area, is required to prepare and adopt an updated TIP every two years under state statute. The 2017 TIP was adopted by the Commission on September 28, 2016, and approval by the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) was received on December 16, 2016. The 2017 TIP is valid for four years under federal regulations. The TIP may be revised to make necessary changes prior to the next update. The TIP is posted on the Internet at: <http://mtc.ca.gov/our-work/fund-invest/transportation-improvement-program>.

TIP Revision 2017-28 revises the U.S. Highway 101 Managed Lanes Project in San Mateo County to maintain consistency with the Amended Plan Bay Area 2040, including a net increase in funding of approximately \$363 million. Changes made with this revision do not conflict with the financial constraint requirements.

To meet federal planning requirements the project must be included in Plan Bay Area 2040 and the environmental impact report (EIR) for the Amended Plan Bay Area 2040 and staff must conduct a new Transportation-Air Quality Conformity Analysis demonstrating that the Amended Plan Bay Area 2040 and the Amended 2017 TIP conform to the latest applicable federal air quality plan before being included in the TIP. Staff has prepared the new Transportation-Air Quality Conformity Analysis, an addendum to the Plan Bay Area 2040 EIR, and an amendment to Plan Bay Area 2040. In accordance with MTC's public participation plan, these documents were released for public review and comment on January 22, 2018, and the review period closed on February 21, 2018. The Transportation-Air Quality Conformity Analysis, the addendum to the Plan Bay Area 2040 EIR, and the amendment to Plan Bay Area 2040 are being considered under other attachments to Item 7. A summary of comments received on TIP Amendment 2017-28 and staff's responses is included as Attachment B.

The TIP Revision Summary is attached and is also available in the MTC/ABAG offices in San Francisco, CA, and is posted on the Internet at: <http://mtc.ca.gov/our-work/fund-invest/transportation-improvement-program>.

This amendment will be transmitted to Caltrans after the Commission's approval; after its review, Caltrans will forward the amendment to FHWA as required for final federal agency review and final approval.

### **Issues**

This revision to the 2017 TIP contains programming changes that are contingent upon:

- the Commission's approval of Item 7 Attachment C (Transportation-Air Quality Conformity Analysis for the Amendment to Plan Bay Area 2040 and the 2017 Transportation Improvement Program, as amended by Revision Number 2017-28, MTC Resolution No. 4325);
- the Commission's and ABAG Executive Board's approval of Item 7 Attachment D (Addendum to the Final EIR for Plan Bay Area 2040, MTC Resolution No. 4326/ABAG Resolution No. 02-18); and
- the Commission's and ABAG Executive Board's approval of Item 7 Attachment E (Amendment to Plan Bay Area 2040, MTC Resolution No. 4327/ABAG Resolution No. 03-18).

### **Committee Actions**

Staff recommends that the MTC Planning Committee refer Resolution No. 4275, Revised to the Commission for approval.

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Steve Heminger

**Attachment F-1:** TIP Revision Summary for TIP Amendment 2017-28  
MTC Resolution No. 4275, Revised



**TIP Revision Summary  
2017-28**

TIP ID	Sponsor	Project Name	Description of Change	Funding Change (\$)	Funding Change (%)
<b>System: State Highway</b>					
SM-150017	San Mateo CCAG	US101 Managed Lanes: Santa Clara Co-S of Grand Ave	Update funding plan to reprogram funds to reflect obligation/allocation, add \$22M FY19 SalesTax, \$5M FY20 Local and \$336M FY22 RTP-LRP to various phases; update description to reflect that aux lanes will be converted to through lanes or added where needed	\$362,998,000	212.2%
<b>Total Funding Change:</b>				\$362,998,000	

**TIP Revision Summary**

	Federal	State	Regional	Local	Total	2017 TIP Only
<b>Current:</b>	\$9,547,699	\$0	\$0	\$161,500,000	\$171,047,699	\$21,047,699
<b>Proposed:</b>	\$9,547,699	\$0	\$0	\$524,498,000	\$534,045,699	\$48,047,699
<b>Delta:</b>	\$0	\$0	\$0	\$362,998,000	\$362,998,000	\$27,000,000

Date: September 28, 2016  
W.I.: 1512  
Referred by: PAC  
Revised: 12/21/16-C 02/22/17-C 03/22/17-C  
04/26/17-C 06/28/17-C 07/26/17-C  
09/27/17-C 11/15/17-C 01/24/18-C  
02/28/18-C 03/28/18-C

ABSTRACT

Resolution No. 4275, Revised

This resolution adopts the 2017 Transportation Improvement Program (TIP) for the San Francisco Bay Area.

Further discussion of the 2017 TIP adoption is contained in the Programming & Allocations Committee summary sheets dated September 14, 2016, December 14, 2016, February 8, 2017, March 8, 2017, April 12, 2017, June 14, 2017, and July 12, 2017, the Planning Committee summary sheet dated July 14, 2017 and the Programming & Allocations Committee summary sheets dated September 13, 2017, November 8, 2017, January 10, 2018, and February 14, 2018, the Planning Committee summary sheet dated March 9, 2018 and the Programming & Allocations Committee summary sheet dated March 14, 2018. This resolution was revised as outlined below. Additional information on each revision is included in attachment B: ‘Revisions to the 2017 TIP’.

2017 TIP Revisions

Revision #	Revision Type	# of Projects	Net Funding Change (\$)	MTC Approval Date	Final Approval Date
2017-01	Admin. Mod.	61	-\$3,823,767	12/21/2016	12/21/2016
2017-02	Admin. Mod.	6	\$544,852	1/31/2017	1/31/2017
2017-03	Amendment	69	\$819,826,956	12/21/2016	2/8/2017
2017-04	Admin. Mod.	15	-\$111,504	3/6/2017	3/6/2017
2017-05	Admin. Mod.	12	\$22,741,790	4/5/2017	4/5/2017
2017-06	Amendment	11	\$68,189,237	2/22/2017	3/14/2017
2017-07	Admin. Mod.	15	-\$8,341,530	4/28/2017	4/28/2017
2017-08	Amendment	73	\$840,375,166	3/22/2017	4/14/2017
2017-09	Admin. Mod.	24	\$17,810,414	6/9/2017	6/9/2017
2017-10	Amendment	14	\$101,213,635	4/26/2017	6/8/2017
2017-11	Admin. Mod.	4	-\$1,360,312	7/6/2017	7/6/2017

ABSTRACT

MTC Resolution No. 4275, Revised

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Revision #	Revision Type	# of Projects	Net Funding Change (\$)	MTC Approval Date	Final Approval Date
2017-12	Admin. Mod.	20	-\$6,802,149	8/2/2017	8/2/2017
2017-13	Amendment	48	\$221,344,142	6/28/2017	8/3/2017
2017-14	Amendment	61	\$3,846,016,088	7/26/2017	8/23/2017
2017-15	Admin. Mod.	16	\$12,222,653	9/20/2017	9/20/2017
2017-16	Amendment	13	\$19,557,138	7/26/2017	9/5/2017
2017-17	Admin. Mod.	20	-\$336,931	10/12/2017	10/12/2017
2017-18	Admin. Mod.	5	-\$466,894	11/6/2017	11/6/2017
2017-19	Amendment	31	\$4,412,223,691	9/27/2017	10/25/2017
2017-20	Admin. Mod.	18	\$4,097,482	11/21/2017	11/21/2017
2017-21	Admin. Mod.	14	\$30,249,023	12/21/2017	12/21/2017
2017-22	Amendment	19	\$66,639,566	11/15/2017	2/8/2018
2017-23	Admin. Mod.	45	\$74,465,507	2/14/2018	2/14/2018
2017-24	Admin. Mod.	Pending	Pending	Pending	Pending
2017-25	Amendment	134	\$581,480,200	1/24/2018	Pending
2017-26	Admin. Mod.	Pending	Pending	Pending	Pending
2017-27	Amendment	93	\$3,540,181,459	2/28/2018	Pending
2017-28	Amendment	1	\$362,998,000	3/28/2018	Pending
2017-29	Admin. Mod.	Pending	Pending	Pending	Pending
2017-30	Amendment	50	\$48,202,359	3/28/2018	Pending
Net Funding Change		892	\$15,069,136,271		
Absolute Funding Change			\$15,111,622,445		

Date: September 28, 2016  
W.I.: 1512  
Referred by: PAC

Re: Adoption of the 2017 Transportation Improvement Program (TIP)

METROPOLITAN TRANSPORTATION COMMISSION  
RESOLUTION NO. 4275

WHEREAS, the Metropolitan Transportation Commission (MTC) is the regional transportation planning agency for the San Francisco Bay Area pursuant to California Government Code Section 66500 et seq.; and

WHEREAS, MTC is the federally designated Metropolitan Planning Organization (MPO), pursuant to Section 134(d) of Title 23 of the United States Code (USC) for the nine-county San Francisco Bay Area region (the region); and

WHEREAS, Title 23 Code of Federal Regulations Part 450 (23 CFR §450) requires the region to carry out a continuing, cooperative and comprehensive transportation planning process as a condition to the receipt of federal assistance to develop and update at least every four years, a Transportation Improvement Program (TIP) consisting of a comprehensive listing of transportation projects that receive federal funds or that are subject to a federally required action, or that are regionally significant; and

WHEREAS, the TIP must be consistent with the Regional Transportation Plan (RTP) adopted pursuant to Government Code Section 66508, the State Implementation Plan (SIP) as required by the federal Clean Air Act (42 U.S.C. Section 7401 et seq.); and the San Francisco Bay Area Transportation Air Quality Conformity Protocol (MTC Resolution 3757), which establish the Air Quality Conformity Procedures for MTC's TIP and RTP; and

WHEREAS, federal regulations (23 CFR §450.324(i)) require that the TIP be financially constrained, by year, to reasonable estimates of available federal and state transportation funds; and

WHEREAS, federal regulations (23 CFR §450.316) require that the MPO develop and use a documented public participation plan that defines a process for providing citizens, affected public agencies and interested parties with reasonable opportunities to be involved in the metropolitan transportation planning process; and

WHEREAS, federal regulations (23 CFR §450.330(a)) allow MTC to move projects between years in the first four years of the TIP without a TIP amendment, if Expedited Project Selection Procedures (EPSP) are adopted to ensure such shifts are consistent with the required year by year financial constraints; and

WHEREAS, MTC, the State, and public transportation operators within the region have developed and implemented EPSP for the federal TIP as required by Federal Regulations (23 CFR 450.330(a)) and Section 134 of Title 23 United States Code (USC §134), as outlined in Attachment A to this Resolution, and MTC Resolution 3606, Revised; and

WHEREAS, MTC has found in MTC Resolution No. 4274 that the 2017 TIP, as set forth in this resolution, conforms to the applicable provisions of the SIP for the San Francisco Bay Area; and

WHEREAS, the San Francisco Bay Area air basin was designated by U.S. Environmental Protection Agency as nonattainment for the fine particulate matter (PM<sub>2.5</sub>) standard in December 2009, and MTC must demonstrate conformance to this standard through an interim emissions test until a PM<sub>2.5</sub> SIP is approved by the federal Environmental Protection Agency (U.S. EPA); now, therefore be it

RESOLVED, that MTC adopts the 2017 TIP, attached hereto as Attachment A and incorporated herein as though set forth at length; and be it further

RESOLVED, that MTC has developed the 2017 TIP in cooperation with the county Congestion Management Agencies, transit operators, the Bay Area Air Quality Management District (BAAQMD), the California Department of Transportation (Caltrans), and other partner agencies and interested stakeholders, and in consultation with the Federal Highway Administration (FHWA), Federal Transit Administration (FTA) and U.S. EPA; and, be it further

RESOLVED, that the 2017 TIP was developed in accordance with the region's Public Participation Plan and consultation process (MTC Resolution No. 4174) as required by Federal Regulations (23 CFR §450.316); and, be it further

RESOLVED, that the projects and programs included in the 2017 TIP, attached hereto as Attachment A to this resolution, and incorporated herein as though set forth at length, are consistent with the RTP; and, be it further

RESOLVED, that the 2017 TIP is financially constrained, by year, to reasonable estimates of available federal, state and local transportation funds; and, be it further

RESOLVED, that MTC approves the EPSP developed by MTC, the State, and public transportation operators within the region for the federal TIP as required by federal regulations (23 CFR 450.330(a)) and Section 134 of Title 23 United States Code (USC §134), as outlined in Attachment A to this Resolution, and MTC Resolution 3606, Revised; and, be it further

RESOLVED, that MTC will support, where appropriate, efforts by project sponsors to obtain letters of no prejudice or full funding agreements from FTA for projects contained in the transit element of the TIP; and, be it further

RESOLVED, that the public hearing and public participation process conducted for the 2017 TIP satisfies the public involvement requirements of the FTA annual Program of Projects; and, be it further

RESOLVED, that the adoption of the TIP shall not constitute MTC's review or approval of those projects included in the TIP pursuant to Government Code Sections 66518 and 66520, or provisions in federal regulations (49 CFR Part 17) regarding Intergovernmental Review of Federal Programs; and, be it further

RESOLVED, that MTC's review of projects contained in the TIP was accomplished in accordance with procedures and guidelines set forth in the San Francisco Bay Area Transportation Air Quality Conformity Protocol (MTC Resolution 3757); and, be it further

RESOLVED, that MTC finds that the 2017 TIP conforms to the applicable provisions of the State Implementation Plan (SIP) and the applicable transportation conformity budgets in the SIP approved for the national 8-hour ozone standard and national carbon monoxide standard, and to the emissions test for the national fine particulate matter standard (MTC Resolution No. 4274); and, be it further

RESOLVED, that the projects and programs included in the 2017 TIP do not interfere with the timely implementation of the traffic control measures (TCMs) contained in the SIP; and, be it further

RESOLVED, that MTC finds all regionally significant capacity-increasing projects included in the 2017 TIP are consistent with Plan Bay Area (the 2040 Regional Transportation

Plan including the Sustainable Communities Strategy for the San Francisco Bay Area); and, be it further

RESOLVED, that revisions to the 2017 TIP as set forth in Attachment B to this resolution and incorporated herein as though set forth at length, shall be made in accordance with rules and procedures established in the public participation plan and in MTC Resolution No. 4275, and that MTC's review of projects revised in the TIP shall be accomplished in accordance with procedures and guidelines set forth in the San Francisco Bay Area Transportation Air Quality Conformity Protocol (MTC Resolution 3757) and as otherwise adopted by MTC; and, be it further

RESOLVED, that staff have the authority to make technical corrections, and the Executive Director and Deputy Executive Directors have signature authority to approve administrative modifications for the TIP and Federal Statewide Transportation Improvement Program (FSTIP) under delegated authority by Caltrans, and to forward all required TIP amendments once approved by MTC to the appropriate state and federal agencies for review and approval; and, be it further

RESOLVED, that a copy of this resolution shall be forwarded to FHWA, the FTA, U.S. EPA, Caltrans, the Association of Bay Area Governments (ABAG), and to such other agencies and local officials as may be appropriate.

METROPOLITAN TRANSPORTATION COMMISSION



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Dave Cortese, Chair

This resolution was entered into by the Metropolitan Transportation Commission at a regular meeting of the Commission held in San Francisco, California on September 28, 2016.

Date: September 28, 2016  
W.I.: 1512  
Referred by: PAC

Attachment A  
Resolution No. 4275  
Page 1 of 1

## **2017 Transportation Improvement Program**

The 2017 Transportation Improvement Program for the San Francisco Bay Area, adopted September 28, 2016, is comprised of the following, incorporated herein as though set forth at length:

- A Guide to the 2017 Transportation Improvement Program (TIP) for the San Francisco Bay Area
- TIP Overview
- Expedited Project Selection Process
- TIP Revision Procedures
- Financial Capacity Assessments
- County Summaries
- Project Listings
- Appendices
- The 2017 TIP Investment Analysis: Focus on Low-Income and Minority Communities



Date: September 28, 2016  
W.I.: 1512  
Referred by: PAC  
Revised: 12/21/16-C 02/22/17-C 03/22/17-C  
04/26/17-C 06/28/17-C 07/26/17-C  
09/27/17-C 11/15/17-C 01/24/18-C  
02/28/18-C 03/28/18-C

Attachment B  
Resolution No. 4275, Revised  
Page 1 of 11

## Revisions to the 2017 TIP

Revisions to the 2017 Transportation Improvement Program (TIP) are included as they are approved.

**Revision 2017-01** is an administrative modification that revises 61 projects with a net funding decrease of approximately \$3.8 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on December 21, 2016. Among other changes, this revision:

- Updates the funding plans of 32 Surface Transportation Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect planned obligations and other programming decisions, including the programming of \$110 million in CMAQ funds and \$40 million in Regional Measure 2 funds to BART's Rail Car Procurement Program to reflect the programming in the OBAG 2 funding framework;
- Updates the funding plans of five projects to reflect the repurposing of unused earmark funds;
- Updates the funding plans of eight individually-listed Highway Bridge Program funded projects to reflect the latest information from Caltrans;
- Splits the Incident Management Program project into two projects to separate the current and future phases of the program;
- Updates the funding plan of the Caltrain Electrification project to reflect recent programming decisions and funding agreements;
- Updates the funding plan of SFMTA's Van Ness Bus Rapid Transit project to reflect the latest schedule including reprogramming approximately \$60 million in Federal Transit Administration (FTA) Small Starts funding from prior years to fiscal year 2017; and
- Updates the funding plan and back-up listing of the Mandates Program within the State Highway Operations and Protection Program (SHOPP) to reflect the latest information from Caltrans including the addition of \$7.3 million in SHOPP funds.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of approximately \$60 million in FTA Small Starts funds, \$7.3M in SHOPP funds, \$17,489 in repurposed earmark funds, and \$1.9 million in Transportation Fund for Clean Air funds. MTC's 2017 TIP, as revised with Revision No. 2017-01, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-02** is an administrative modification that revises six projects with a net funding increase of \$544,852. The revision was approved into the Federal-Statewide TIP by the deputy executive director on January 31, 2017. Among other changes, this revision:

- Updates the funding plans of five federally funded projects to reflect actual and planned obligations and Federal Transit Administration grants; and
- Updates the funding plan and back-up listing of the Highway Safety Improvement Program (HSIP) funded grouped listing to reflect the latest programming information from Caltrans related to projects that had unobligated funding from federal fiscal year 2015-16, including the addition of \$399,340 in HSIP funds and \$145,512 in local funds.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$399,340 in HSIP funds. MTC's 2017 TIP, as revised with Revision No. 2017-02, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-03** is an amendment that revises 69 projects with a net funding increase of approximately \$820 million. The revision was referred by the Programming and Allocations Committee on December 14, 2016, and approved by the MTC Commission on December 21, 2016. Caltrans approval was received on January 19, 2017, and final federal approval was received on February 8, 2017. Among other changes, this revision:

- Amends four exempt and four non-exempt, not regionally significant projects into the TIP to reflect the adoption of the Bay Bridge Forward Program;
- Updates the funding plan of the Golden Gate Bridge Suicide Deterrent project to reflect additional funding commitments, including the addition of \$40 million in Highway Bridge Program (HBP) funds, \$40 million in Surface Transportation Block Grant Program funds and \$40 million in Golden Gate Bridge toll funds;
- Updates the funding plans of six additional individually-listed HBP funded projects, updates the funding plan and back-up listing of the HBP funded grouped listing, and combines one individually-listed HBP funded project with the grouped listing to reflect the latest information from Caltrans, including the addition of approximately \$109 million in HBP funds;
- Deletes two projects and updates the funding plans of two other projects to reflect the repurposing of prior year federal earmark funds;
- Adds one new State Highway Operations and Protection Program (SHOPP) funded grouped listing and updates the funding plans and back-up listings of five existing SHOPP funded grouped listings to reflect the latest information from Caltrans, including the addition of approximately \$369 million in SHOPP funds;
- Adds one new Recreational Trails Program funded grouped listing into the TIP;
- Carries forward two exempt and one non-exempt project into the 2017 TIP from the 2015 TIP as these projects were not originally included in the 2017 TIP as adopted;
- Adds one new exempt project to the TIP and updates the scope and funding for an existing project to reflect the award of Federal Transit Administration (FTA) discretionary funds through the FTA Section 5339 Discretionary Program and Transit Oriented Development Planning Pilot Program;

- Adds one new exempt Surface Transportation Block Grant Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded project and updates the funding plans of 18 other STP/CMAQ funded projects to reflect obligations, past funding decisions in the One Bay Area Grant (OBAG) Cycle 1 Transit Performance Initiative program, and the selection of projects in OBAG Cycle 2; and
- Adds one new exempt Transit Capital Priority (TCP) funded project, deletes one existing TCP funded project and updates the funding plans of seven other TCP funded projects.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-04** is an administrative modification that revises 15 projects with a net funding decrease of \$111,504. The revision was approved into the Federal-Statewide TIP by the deputy executive director on March 6, 2017. Among other changes, this revision:

- Updates the funding plans of five Surface Transportation Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect programming decisions and past and planned obligations;
- Updates the funding plans of three other federally funded projects to reflect planned obligations;
- Updates the funding plan of the Sonoma County Transportation Authority's portion of the US 101 Marin/Sonoma Narrows project to reflect the programming of \$15 million in repurposed federal earmark funds;
- Splits out the I-880 Integrated Corridor Management project from the region-wide Incident Management Program; and
- Updates the funding plan and back-up listing of the Caltrans managed Highway Maintenance Program grouped listing to reflect the latest information from Caltrans.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$2 million in High Priority Project Earmark funds, \$15 million in repurposed earmark funds, \$665,042 in Federal Highway Administration Ferry Boat Program funds, and \$3 million in Trade Corridors Improvement Fund funds. MTC's 2017 TIP, as revised with Revision No. 2017-04, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-05** is an administrative modification that revises 12 projects with a net funding increase of \$22.7 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on April 5, 2017. Among other changes, this revision:

- Updates the funding plans of seven projects to reflect the programming of funds for FY2016-17 in the Transit Capital Priorities program;
- Updates the funding plans of two Surface Transportation Block Grant Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect planned obligations;
- Updates the funding plan of the Metropolitan Transportation Commission's Clipper Fare Collection System project to reflect the programming of \$7.4 million in bridge toll funds; and

- Updates the funding plan and back-up listing of the Caltrans managed State Highway Operation and Protection Program (SHOPP) Emergency Response grouped listing to reflect the latest information from Caltrans, including the addition of \$5.3 million to the SHOPP.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$5.3 million in SHOPP funds. MTC's 2017 TIP, as revised with Revision No. 2017-05, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-06** is an amendment that revises 11 projects with a net funding increase of approximately \$68 million. The revision was approved by the MTC Commission on February 22, 2017. Caltrans approval was received on February 24, 2017, and final federal approval was received on March 14, 2017. Among other changes, this revision:

- Updates the scope and funding plan of the Central Contra Costa Transit Authority's Replace 18 30-foot Buses project to reflect the award of approximately \$2.7 million in FTA Low or No Emission Vehicle Deployment Program funds;
- Amends the City of Palo Alto's exempt Bay Area Fair Value Commuting Program into the TIP to reflect the award of approximately \$1 million in FTA Mobility on Demand Sandbox Program funds;
- Amends two additional exempt projects into the TIP; and
- Updates the funding plan of one individually listed Highway Safety Improvement Program (HSIP) funded project and updates the funding plan and back-up listing of the HSIP grouped listing to reflect the latest information from Caltrans, including the addition of approximately \$25.5 million in HSIP funds.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-07** is an administrative modification that revises 15 projects with a net funding decrease of \$8.3 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on April 28, 2017. Among other changes, this revision:

- Updates the funding plans of three projects to reflect the programming of funds for the Federal Highway Administration's 2016 Earmark Repurposing transfer requests;
- Updates the funding plan and back-up listing of the Caltrans managed Local Highway Bridge Program (HBP) grouped listing to reflect the latest information from Caltrans, including the addition of \$476,000 for two HBP projects in Santa Clara County;
- Updates the funding plan and back-up listing of the Caltrans managed State Highway Operation and Protection Program (SHOPP) Pavement Resurfacing/Rehabilitation grouped listing, including the removal of \$7.5 million from the SHOPP;
- Updates the funding plans of five Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions and obligations; and
- Reprograms \$20 million in Federal Transit Administration (FTA) Small Starts program funds for the Sonoma Marin Area Rail Transit Corridor project from prior years to fiscal year 2016/17 to reflect a planned FTA grant.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$20 million in FTA Small Starts funds, \$476,000 in HBP funds, and \$7.5 million in State STP funds. MTC's 2017 TIP, as revised with Revision No. 2017-07, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-08** is an amendment that revises 73 projects with a net funding increase of approximately \$840 million. The revision was referred by the Programming and Allocations Committee on March 8, 2017, and approved by the MTC Commission on March 22, 2017. Caltrans approval was received on March 29, 2017, and final federal approval was received on April 14, 2017. Among other changes, this revision:

- Amends 37 new exempt projects into the TIP and updates the funding plans of 35 existing projects to reflect the programming of funds for FY2016-17 in the Transit Capital Priorities program; and
- Archives one project as it has been completed.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-09** is an administrative modification that revises 24 projects with a net funding increase of \$17.8 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on June 9, 2017. Among other changes, this revision:

- Updates the funding plan of the Caltrain Electrification project to reflect the award of \$100 million in Federal Transit Administration (FTA) Capital Investment funds;
- Updates the funding plans of seven Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions and obligations;
- Updates the funding plan of the Santa Clara Valley Transportation Authority's Standard and Small Bus Replacement Project to reflect the award of \$2.5M in FTA Low or No Emissions Vehicle Deployment Program (LoNo) funds; and
- Updates the funding plan and back-up listing of MTC's Lifeline Transportation Program 5307 Job Access and Reverse Commute Set Aside Program –Cycle 4 grouped listing to reflect the latest programming decisions.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$100 million in FTA Capital Investment funds, \$2.5 million in FTA LoNo funds, \$1.4 million in High Priority Project funds, and \$3.3 million in Low Carbon Transit Operations Program funds. MTC's 2017 TIP, as revised with Revision No. 2017-09, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-10** is an amendment that revises 14 projects with a net funding increase of approximately \$101 million. The revision was referred by the Programming and Allocations Committee on April 12, 2017, and approved by the MTC Commission on April 26, 2017.

Caltrans approval was received on May 11, 2017, and final federal approval was received on June 8, 2017. Among other changes, this revision:

- Amends three new exempt Transit Performance Initiative Program funded projects into the TIP;
- Updates the funding plans of two projects to reflect the programming of funds from fiscal year 2016-17 of the Transit Capital Priorities program;
- Updates the funding plans and back-up listings of two grouped listings and adds one new grouped listing to reflect the latest information from Caltrans including the addition of \$55.8 million in State Highway Operation and Protection Program funds and \$3.8 million in Section 130 Railroad/Highway Crossing funds;
- Amends AC Transit's Five Battery-Electric Bus Purchase project into the TIP to reflect the recent award of \$1.5 million in Federal Transit Administration (FTA) Low or No Emission Vehicle Deployment Program funds;
- Amends Bay Area Rapid Transit's Integrated Carpool to Transit Access Program into the TIP to reflect the award of \$358,000 in FTA Mobility on Demand Sandbox Program funds; and
- Amends one new exempt and one previously archived project into the TIP.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-11** is an administrative modification that revises 4 projects with a net funding decrease of \$1.4 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on July 6, 2017. Among other changes, this revision:

- Updates the funding plans of two Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions; and
- Updates the funding plan and back-up listing of the Caltran's Section 130 – Railroad/Highway Crossing Projects grouped listing to reflect the latest programming decisions.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$1.4 million in Section 130 – Railroad/Highway Crossing funds. MTC's 2017 TIP, as revised with Revision No. 2017-11, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-12** is an administrative modification that revises 20 projects with a net funding decrease of \$6.8 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on August 2, 2017. Among other changes, this revision:

- Updates the funding plans of two Surface Transportation Program (STP) funded projects to reflect the latest programming decisions;
- Updates the funding plan and back-up listing of the Section 130 – Railroad/Highway Crossing Projects grouped listing to reflect the latest information from Caltrans;
- Updates the funding plan of 14 Federal Transit Administration formula funded projects to reflect changes in the fiscal year 2016/17 Transit Capital Priorities Program; and

- Updates the funding plan of one Highway Bridge Program funded project to reflect planned reimbursements for advanced construction.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$1.4 million in Section 130 funds. MTC's 2017 TIP, as revised with Revision No. 2017-12, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-13** is an amendment that revises 48 projects with a net funding increase of approximately \$221 million. The revision was referred by the Programming and Allocations Committee on June 14, 2017, and approved by the MTC Commission on June 28, 2017. Caltrans approval was received on July 17, 2017, and final federal approval was received on August 3, 2017. Among other changes, this revision:

- Amends 13 new exempt projects and one new non-exempt, not regionally significant project into the TIP and updates the funding plans of two existing projects to reflect the programming of Cycle 3 of the Active Transportation Program;
- Amends four new Surface Transportation Block Grant Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded exempt projects into the TIP, updates the funding plans of three other STP/CMAQ funded projects and deletes one STP/CMAQ funded project to reflect changes in the One Bay Area Grant programs;
- Amends three new grouped listings into the TIP to reflect the programming of Federal Transit Administration Section 5310, 5311 and 5311(f) funds. The FTA Section 5310 listing is contingent upon the California Transportation Commission approval on June 28 & 29, 2017;
- Updates the funding plan and back-up listing of the Highway Bridge Program grouped listing to reflect the latest information from Caltrans;
- Splits two projects out of the Highway Safety Improvement Program grouped listings and updates their project scopes to include road diet elements;
- Updates the scope of the City/County Association of Governments of San Mateo County's US-101 High Occupancy Vehicle/High Occupancy Toll Lane project to change the northern project limit to match the most recent cooperative agreement;
- Splits the Bay Area Rapid Transit District's Go Uptown project out of their Station Modernization Program;
- Amends one new San Francisco Municipal Transportation Agency project into the TIP to reflect the award of \$11 million in Advanced Transportation and Congestion Management Technologies Deployment Program funds;
- Amends one new exempt project into the TIP and updates the funding plan on one existing project to reflect changes in the Transit Capital Priorities program;
- Amends two additional exempt projects in the TIP; and
- Archives six projects as they have been completed.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-14** is an amendment that serves to conform the 2017 TIP to Plan Bay Area 2040 and revises 61 projects with a net funding increase of approximately \$3.8 billion. The revision

was referred by the Planning Committee on July 14, 2017, and approved by the MTC Commission on July 26, 2017. Caltrans approval was received on August 2, 2017, and final federal approval was received on August 23, 2017. Among other changes, this revision:

- Revises 41 existing projects in the 2017 TIP;
- Adds 14 new projects to the 2017 TIP;
- Archives three projects as they have been completed and are not included in Plan Bay Area 2040 as ongoing projects; and
- Deletes three projects as they will not move forward.

Changes made with this revision do not conflict with the financial constraint requirements. The Transportation-Air Quality Conformity Analysis: Plan Bay Area 2040 and Amended 2017 TIP demonstrates that the TIP and Plan are consistent with ("conform to") the federal air quality plan known as the State Implementation Plan (SIP), as required by federal conformity regulations.

**Revision 2017-15** is an administrative modification that revises 15 projects with a net funding increase of \$12.2 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on September 20, 2017. Among other changes, this revision:

- Updates the funding plans of six Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions;
- Updates the funding plan and back-up listing of one grouped listing to reflect the latest information from Caltrans regarding the State Highway Operations and Protection Program (SHOPP), including the addition of \$4.8 million in SHOPP funds;
- Updates the funding plan of one Federal Transit Administration (FTA) formula funded project to reflect changes in the fiscal year 2016-17 Transit Capital Priorities Program; and
- Splits the El Cerrito del Norte BART Station Modernization project out of BART's system-wide Station Modernization program along with \$21.5 million in Proposition 1B funds.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$4.8 million in SHOPP funds and \$21.5M in Proposition 1B funds. MTC's 2017 TIP, as revised with Revision No. 2017-15, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-16** is an amendment that revises 13 projects with a net funding increase of approximately \$20 million. The revision was referred by the Programming and Allocations Committee on July 12, 2017, and approved by the MTC Commission on July 26, 2017. Caltrans approval was received on August 7, 2017, and final federal approval was received on September 5, 2017. Among other changes, this revision:

- Adds one new exempt project, deletes one existing project and updates the funding plans of seven projects to reflect changes in the FY2016-17 Transit Capital Priorities Program;
- Updates the funding plan of the Fairfield-Suisun Intercity/Local Bus Replacement project to reflect the programming of funds available through the Transit Performance Initiative Incentive and Investment Programs; and
- Archives two projects as they have been completed.



Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-17** is an administrative modification that revises 20 projects with a net funding decrease of \$336,931. The revision was approved into the Federal-Statewide TIP by the deputy executive director on October 12, 2017. Among other changes, this revision:

- Updates the funding plans of 16 Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions;
- Updates the funding plan and back-up listing of one grouped listing to reflect the latest programming decisions regarding the FTA Section 5310 - Elderly and Persons with Disabilities Transit Program, including the addition of \$4.2 million in FTA Section 5310 funds;
- Updates the funding plan of one Federal Transit Administration (FTA) formula funded project to reflect changes in the fiscal year 2016-17 Transit Capital Priorities Program; and
- Updates the funding plan of one State Transportation Improvement Program (STIP) funded project to reflect the latest programming decisions.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$4.2 million in Section 5310 funds. MTC's 2017 TIP, as revised with Revision No. 2017-17, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-18** is an administrative modification that revises five projects with a net funding decrease of \$466,894. The revision was approved into the Federal-Statewide TIP by the deputy executive director on November 6, 2017. Among other changes, this revision:

- Updates the funding plans of four federal earmark funded projects to reflect the repurposing of earmarked funds; and
- Updates the funding plan and back-up listing of the Highway Safety Improvement Program (HSIP) grouped listing to reflect the latest information from Caltrans, including the addition of \$208,500 in HSIP funds.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$208,500 in HSIP funds and \$69,840 in repurposed federal earmarked funds. MTC's 2017 TIP, as revised with Revision No. 2017-18, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-19** is an amendment that revises 31 projects with a net funding increase of approximately \$4.4 billion. The revision was referred by the Programming and Allocations Committee on September 13, 2017, and approved by the MTC Commission on September 27, 2017. Caltrans approval was received on October 9, 2017, and final federal approval was received on October 25, 2017. Among other changes, this revision:

- Amends four new exempt, three new non-exempt, and three new non-exempt-not regionally significant Surface Transportation Block Grant Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects into the TIP and updates the funding plans of five existing STP/CMAQ funded projects to reflect changes in the One Bay Area Grant 1 (OBAG1) County Program, the OBAG2 Program, and the Transit Performance Initiative Program;
- Amends Bay Area Rapid Transit's (BART) Transbay Core Capacity Improvements project into the TIP with \$931 million in local funds and \$2.6 billion in uncommitted funds;
- Updates the funding plan of Caltrain's Positive Train Control (PTC) System project to reflect the award of approximately \$22 million in Federal Railroad Administration PTC Implementation grant funds;
- Updates the funding plans of five State Highway Operations and Protection Program (SHOPP) funded grouped listings, the Section 130 – Railroad/Highway Crossing Projects funded grouped listing, and the Highway Maintenance Program funded grouped listing to reflect the latest information from Caltrans, including the addition of \$412 million in SHOPP, \$3.8 million in Section 130 funds and \$15 million in Highway Maintenance funds; and
- Amends one new locally-funded exempt project and one new locally-funded non-exempt project into the TIP.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-20** is an administrative modification that revises 18 projects with a net funding increase of \$4 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on November 21, 2017. Among other changes, this revision:

- Updates the funding plans of 11 Surface Transportation Block Grant Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions;
- Updates the funding plan of one federal earmark funded project to reflect the latest programming decisions;
- Updates the funding plans of four individually-listed Federal Highway Bridge Program (HBP) funded projects to reflect the latest information from Caltrans; and
- Updates the funding plan and back-up listing of the HBP funded grouped listing to reflect changes to Contra Costa County's Marsh Creek Rd bridge replacement project, including the addition of \$2.2 million in HBP funds.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$2.1 million in HBP funds to reflect the net change in HBP funding over the four years of the TIP. MTC's 2017 TIP, as revised with Revision No. 2017-20, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-21** is an administrative modification that revises 14 projects with a net funding increase of \$30 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on December 21, 2017. Among other changes, this revision:

- Updates the funding plans of seven Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions;
- Updates the funding plan of one federal earmark funded project to reflect the latest programming decisions;
- Updates the funding plans of three Active Transportation Program (ATP) funded projects to reflect the latest programming decisions;
- Updates the funding plan and back-up listing of the State Highway Operations and Protection Program (SHOPP) - Safety Improvements funded grouped listing to reflect the addition of \$7.5 million in SHOPP funds;
- Updates the funding plan and back-up listing of the SHOPP Bridge Rehabilitation funded grouped listing to reflect the addition of \$9 million in SHOPP funds; and
- Updates funding plan and back-up listing of the Federal Highway Bridge Program (HBP) funded grouped listing to reflect the use of advanced construction for Contra Costa County's Marsh Creek Rd bridge replacement project.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$16.5 million in SHOPP funds to reflect the net change in SHOPP funding over the four years of the TIP. MTC's 2017 TIP, as revised with Revision No. 2017-21, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-22** is an amendment that revises 19 projects with a net funding increase of approximately \$66.6 million. The revision was referred by the Programming and Allocations Committee on November 8, 2017, and approved by the MTC Commission on November 15, 2017. Caltrans approval was received on January 9, 2018, and final federal approval was received on February 8, 2018. Among other changes, this revision:

- Adds five exempt and one non-exempt, not regionally significant Surface Transportation Block Grant Program/Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to the TIP and updates one existing STP/CMAQ funded project to reflect the latest programming decisions;
- Splits out two State Highway Operations and Protection Program (SHOPP) funded projects from the SHOPP Mobility grouped listing to the new Alameda County-Traffic Operations Systems/Mobility Program grouped listing, transfers two project segments and \$20 million in CMAQ funds from the Freeway Performance Initiative (FPI) program to the new grouped listing, and adds one new project to the new grouped listing along with \$40.4 million in SHOPP funds;
- Adds one new SHOPP funded grouped listing for the Marin County-Traffic Operations Systems/Mobility Program with \$13 million in SHOPP funds; and
- Archives eight projects as they have been completed.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-23** is an administrative modification that revises 45 projects with a net funding increase of \$74 million. The revision was approved into the Federal-Statewide TIP by the deputy executive director on February 14, 2018. Among other changes, this revision:

- Updates the funding plan of 23 Federal Transit Administration (FTA) formula funded projects to reflect changes to the Transit Capital Priorities Program;
- Updates the funding plans of 19 Surface Transportation Block Grant Program/ Congestion Mitigation and Air Quality Improvement Program (STP/CMAQ) funded projects to reflect the latest programming decisions; and
- Updates the funding plans of three Active Transportation Program (ATP) funded projects to reflect the latest programming decisions.

The administrative modification is financially constrained by year and MTC relies on the State's programming capacity in the amount of \$5.7 million in ATP funds to reflect the net change in ATP funding over the four years of the TIP. MTC's 2017 TIP, as revised with Revision No. 2017-23, remains in conformity with the applicable State Implementation Plan (SIP) for air quality and the revision does not interfere with the timely implementation of the Transportation Control Measures contained in the SIP.

**Revision 2017-24** is a pending administrative modification.

**Revision 2017-25** is an amendment that revises 134 projects with a net funding increase of approximately \$581 million. The revision was referred by the Programming and Allocations Committee on January 10, 2018, and approved by the MTC Commission on January 24, 2018. Caltrans approval was received on February 1, 2018, and final federal approval is expected in early March, 2018. Among other changes, this revision:

- Amends six new Active Transportation Program (ATP) funded projects into the TIP and revises the funding plans of six existing ATP funded projects;
- Updates the funding plans and back-up listings of three grouped listings to reflect the latest information from Caltrans;
- Amends 103 new projects into the TIP and updates the funding plans of seven existing projects to reflect the adoption of the One Bay Area Grant 2 (OBAG2) County Program;
- Amends four new projects into the TIP to reflect recent changes to the OBAG2 Regional Arterial Operations Management and Climate Initiatives Programs;
- Amends three new projects into the TIP to reflect previously approved changes to the One Bay Area Grant 1 (OBAG1) Transit Performance Initiative and Climate Change Initiative Programs; and
- Updates the funding plan of one project to reflect recent changes to the Transit Capital Priorities program.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-26** is a pending administrative modification.

**Revision 2017-27** is an amendment that revises 93 projects with a net funding increase of approximately \$3.5 billion. The revision was referred by the Programming and Allocations

Committee on February 14, 2018, and approved by the MTC Commission on February 28, 2018. Caltrans approval is expected in mid-March, 2018, and final federal approval is expected in mid-April, 2018. Among other changes, this revision:

- Amends 38 new exempt projects into the TIP and updates 50 existing projects to reflect the programming of funds for FY2017-18, FY2018-19 and FY2019-20 in the Transit Capital Priorities program including the programming of \$473 million in FTA Section 5307, \$612 million in FTA Section 5337 and \$35 million in FTA Section 5339 funds;
- Updates the funding plan of the Napa Valley Transportation Authority's Replacement Rolling Stock project to reflect the award of approximately \$1 million in FTA Low or No Emissions Bus Program discretionary funds; and
- Updates the City of Vallejo's Sonoma Blvd. Improvements project to reflect the latest information from Caltrans regarding the Highway Safety Improvement Program.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

**Revision 2017-28** is an amendment that revises the U.S. Highway 101 Managed Lanes Project in San Mateo County to maintain consistency with the Amended Plan Bay Area 2040, including a net increase in funding of approximately \$363 million. The revision was referred by the Planning Committee on March 9, 2018, and approved by the MTC Commission on March 28, 2018. Caltrans approval is expected in mid-April, 2018, and final federal approval is expected in late April, 2018. Changes made with this revision do not conflict with the financial constraint requirements. The revision of this project to the 2017 TIP requires a new Transportation-Air Quality Conformity Analysis on the Amended Plan Bay Area 2040 and the Amended 2017 TIP.

**Revision 2017-29** is a pending administrative modification.

**Revision 2017-30** is an amendment that revises 50 projects with a net funding increase of approximately \$48 million. The revision was referred by the Programming and Allocations Committee on March 7, 2018, and approved by the MTC Commission on March 28, 2018. Caltrans approval is expected in mid-April, 2018, and final federal approval is expected in mid-May, 2018. Among other changes, this revision:

- Amends 34 new projects into the TIP and updates the funding plans of three existing projects to reflect the adoption of the One Bay Area Grant Program 2 (OBAG2) County program;
- Amends two other new projects into the TIP;
- Archives two projects as they have been completed; and
- Splits the Port of Oakland's 7<sup>th</sup> St. Grade Separation and Port Arterial Improvements project into three separate projects.

Changes made with this revision do not affect the air quality conformity finding or conflict with the financial constraint requirements.

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## Meeting Agenda

### Joint MTC Legislation Committee and ABAG Legislation Committee

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Friday, March 9, 2018

10:10 AM

Board Room - 1st Floor

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#### PLEASE NOTE TIME

This meeting is scheduled to be webcast live on the Metropolitan Transportation Commission's Web site: <http://mtc.ca.gov/whats-happening/meetings> and will take place at 10:10 a.m. or immediately following the 10:05 a.m. Joint MTC Planning Committee with the ABAG Administrative Committee meeting.

#### 1. Roll Call / Confirm Quorum

*Quorum: A quorum of the ABAG Legislation Committee shall be a majority of its regular voting members (4).*

*Quorum: A quorum of the MTC Legislation Committee shall be a majority of its regular voting members (4).*

#### 2. ABAG Compensation Announcement - Clerk of the Board

#### 3 ABAG Legislation Committee Consent Calendar

- 3a. [18-0139](#) Approval of ABAG Legislation Committee Summary Minutes of January 12, 2018 Meeting

**Action:** ABAG Legislation Committee Approval

**Attachments:** [3a ABAG Legislation Minutes 20180112 Draft.pdf](#)

#### 4. MTC Legislation Committee Consent Calendar

- 4a. [18-0126](#) Approval of MTC Legislation Committee Minutes of the February 9, 2018 Meeting

**Action:** MTC Legislation Committee Approval

**Attachments:** [4a\\_MTC LEGIS Minutes\\_Feb 9 2018.pdf](#)

#### 5. Information

- 5a. [18-0127](#) Legislative History

**Action:** Information

**Presenter:** Rebecca Long

## 6. State Legislation

- 6a. [18-0167](#) AB 3124 (Bloom): Three-Position Bike Rack on 60 ft. Buses
- Allows three-position bicycle racks to be used on 60 ft. articulated buses.
- Action:** Support / MTC Commission Approval
- Presenter:** Rebecca Long
- Attachments:** [6a\\_AB 3124 Bloom\\_Support.pdf](#)
- 6b. [18-0054](#) Summary of the 2018 Housing Landscape
- Analysis of potential Bay Area impacts from housing-related bills, including, but not limited to SB 827 and SB 828, both authored by Senator Scott Wiener.
- Action:** Information
- Presenter:** Rebecca Long
- Attachments:** [6b\\_Summary of the 2018 Housing Landscape.pdf](#)

## 7. Federal Legislation

- 7a. [18-0169](#) Federal Transportation and Housing Funding Update
- Overview of the Trump Administration's proposed FY 2019 Federal Budget and the White House Infrastructure Initiative.
- Action:** Information
- Presenter:** Georgia Gann Dohrmann
- Attachments:** [7a\\_Federal Transportation and Housing Funding Update.pdf](#)
- 7b. [18-0128](#) Tom Bulger's Report
- Report from Washington D.C. advocate.
- Action:** Information
- Presenter:** Randy Rentschler
- Attachments:** [7b\\_Tom Bulger's DC Report\\_Feb 2018.pdf](#)

## 8. Public Comment / Other Business

## 9. Adjournment / Next Meeting

The next meeting of the MTC Legislation Committee will be April 13, 2018, 9:40 a.m. the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.



**Public Comment:** The public is encouraged to comment on agenda items at Committee meetings by completing a request-to-speak card (available from staff) and passing it to the Committee secretary. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

**Meeting Conduct:** If this meeting is willfully interrupted or disrupted by one or more persons rendering orderly conduct of the meeting unfeasible, the Chair may order the removal of individuals who are willfully disrupting the meeting. Such individuals may be arrested. If order cannot be restored by such removal, the members of the Committee may direct that the meeting room be cleared (except for representatives of the press or other news media not participating in the disturbance), and the session may continue.

**Record of Meeting:** Committee meetings are recorded. Copies of recordings are available at a nominal charge, or recordings may be listened to at MTC offices by appointment. Audiocasts are maintained on MTC's Web site ([mtc.ca.gov](http://mtc.ca.gov)) for public review for at least one year.

**Accessibility and Title VI:** MTC provides services/accommodations upon request to persons with disabilities and individuals who are limited-English proficient who wish to address Commission matters. For accommodations or translations assistance, please call 415.778.6757 or 415.778.6769 for TDD/TTY. We require three working days' notice to accommodate your request.

**可及性和法令第六章:** MTC 根據要求向希望來委員會討論有關事宜的殘疾人士及英語有限者提供服務/方便。需要便利設施或翻譯協助者，請致電 415.778.6757 或 415.778.6769 TDD / TTY。我們要求您在三個工作日前告知，以滿足您的要求。

**Acceso y el Título VI:** La MTC puede proveer asistencia/facilitar la comunicación a las personas discapacitadas y los individuos con conocimiento limitado del inglés quienes quieran dirigirse a la Comisión. Para solicitar asistencia, por favor llame al número 415.778.6757 o al 415.778.6769 para TDD/TTY. Requerimos que solicite asistencia con tres días hábiles de anticipación para poderle proveer asistencia.

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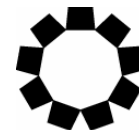
Attachments are sent to Committee members, key staff and others as appropriate. Copies will be available at the meeting.

All items on the agenda are subject to action and/or change by the Committee. Actions recommended by staff are subject to change by the Committee.

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# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



ABAG

## AGENDA

### FINANCE COMMITTEE

Thursday, March 15, 2018, 5:00 p.m.

Location:

Bay Area Metro Center  
Board Room  
375 Beale Street  
San Francisco, California

Teleconference Locations:

County Government Center, 70 W. Hedding Street, 1<sup>st</sup> floor, Room 157, San Jose, CA 95110  
San Jose McEnery Convention Center, East Entrance, 150 W San Carlos St, San Jose, CA  
95113

Committee Members:

Karen Mitchoff, Supervisor, County of Contra Costa—*Chair*  
Annie Campbell Washington, Councilmember, City of Oakland  
Cindy Chavez, Supervisor, County of Santa Clara  
Dave Cortese, Supervisor, County of Santa Clara  
Pradeep Gupta, Mayor, City of South San Francisco  
Scott Haggerty, Supervisor, County of Alameda  
Erin Hannigan, Supervisor, County of Solano—*Vice Chair*  
Julie Pierce, Councilmember, City of Clayton—*Ex officio*  
David Rabbitt, Supervisor, County of Sonoma—*Ex officio*  
Greg Scharff, Mayor, City of Palo Alto—*Ex officio*

*The ABAG Finance Committee may act on any item on this agenda.*

*Agenda and attachments available at <http://abag.ca.gov/meetings/financepersonnel.html>*

*This meeting is scheduled to be webcast live at  
<http://abag.ca.gov/meetings/financepersonnel.html>*

*For information, contact Fred Castro, Clerk of the Board, at (415) 820 7913.*

### 1. CALL TO ORDER / ROLL CALL / CONFIRM QUORUM

### 2. PUBLIC COMMENT

INFORMATION

**ABAG Finance Committee**

March 15, 2018

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**3. COMMITTEE ANNOUNCEMENTS**

INFORMATION

**4. APPROVAL OF ABAG FINANCE COMMITTEE SUMMARY MINUTES OF MEETING ON JANUARY 18, 2018**

ACTION

*Attachment: Summary Minutes of January 18, 2018*

**5. REPORT ON FINANCIAL STATEMENTS FROM JULY TO DECEMBER 2017 (UNAUDITED)**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Financial Statements; Financial Report Net Surplus Deficit*

**6. ABAG CONTRACTS AND PURCHASE REQUISITIONS BETWEEN \$20,000 AND \$50,000 FROM NOVEMBER TO DECEMBER 2017**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachment: Memo Contracts between \$20,000 and \$50,000*

**7. REPORT ON INVESTMENTS FOR JANUARY 2018**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Investment; Investment Report*

**8. RECOMMEND REAUTHORIZATION OF ABAG INVESTMENT POLICY—ABAG RESOLUTION NO. 06-17**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Investment Policy; ABAG Resolution No. 06-17*

**9. REPORT ON ABAG FINANCE AUTHORITY FOR NONPROFIT CORPORATIONS**

ACTION

Brad Paul, MTC Deputy Executive Director, Local Government Services, will give the staff report.

*Attachment: Memo ABAG FAN*

**10. AUTHORIZATION TO ENTER INTO A CONTRACT WITH PWC TO PROVIDE ANNUAL FINANCIAL AND COMPLIANCE AUDIT SERVICES FOR FIVE FISCAL YEARS IN THE AMOUNT OF \$402,000**

ACTION

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Annual Financial and Compliance Audit; Summary Approval*

**ABAG Finance Committee**

March 15, 2018

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**11. RECOMMEND EXECUTIVE BOARD ADOPTION OF ABAG RESOLUTION NO. 01-18  
ESTABLISHING BYLAWS OF THE ADVANCING CALIFORNIA FINANCE AUTHORITY  
ACTION**

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo ACFA Bylaws; ABAG Resolution No. 01-18*

**12. RECOMMEND GENERAL ASSEMBLY ADOPTION OF PROPOSED BUDGET AND  
WORK PROGRAM FOR FISCAL YEAR 2018-2019**

**ACTION**

Brian Mayhew, MTC Chief Financial Officer, will give the staff report.

*Attachments: Memo Budget Work Plan; Proposed Operating Budget; Proposed Work Program*

**13. ADJOURNMENT**

The next regular meeting of the ABAG Finance Committee is on May 17, 2018.

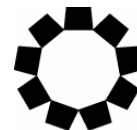
Date Submitted: March 5, 2018

Date Posted:

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# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018

To: ABAG Executive Board  
ABAG Finance Committee

From: Executive Director

Subject: **Recommend Reauthorization of ABAG Investment Policy—ABAG Resolution No. 06-17**

ABAG's Investment Policy, Resolution No. 06-17, was approved on June 9, 2017. The policy is subject to review annually. There are no proposed changes to the policy as adopted last year.

## **Recommended Action**

The Finance Committee is requested to recommend Executive Board reauthorization of the ABAG Investment Policy for calendar year 2018.

A handwritten signature in blue ink, appearing to be 'S. Heminger', is written above a horizontal black line.

Steve Heminger

## **Attachment**

Investment Policy

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**ASSOCIATION OF BAY AREA GOVERNMENTS  
ADMINISTRATIVE COMMITTEE**

**RESOLUTION NO. 06-17**

**INVESTMENT POLICY**

**WHEREAS**, the Association of Bay Area Governments (ABAG) is a joint powers entity created pursuant to Government Code §§ 6500 et seq. and serves as the Bay Area's Council of Governments; and

**WHEREAS**, ABAG has the responsibility to manage funds received in accordance with the provisions of Government Code §§ 53600 et seq. and a Statement of Investment Policy adopted pursuant to those statutory provisions; and

**WHEREAS**, pursuant to a Contract for Services (CS) between the Metropolitan Transportation Commission (MTC) and ABAG dated May 30, 2017, ABAG and MTC will be consolidating their respective staffs effective July 1, 2017; and

**WHEREAS**, pursuant to the CS, the consolidated staff will manage ABAG's finances in a manner that is compatible with ABAG's policies; and

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

**NOW, THEREFORE, BE IT RESOLVED**, that the Administrative Committee of the Association of Bay Area Governments hereby:

1. Authorizes MTC to open new and manage or close existing accounts with banks, financial institutions, and government pooled investment funds as needed in order to manage ABAG's cash and investments under MTC signatures utilizing ABAG's tax identification number.
2. Adopts the Statement of Investment Policy as set forth in Attachment A to this Resolution, attached hereto and incorporated herein as though set forth at length.
3. This Resolution shall take precedence over any prior Resolutions to the extent that they may conflict herewith or with Attachment A.

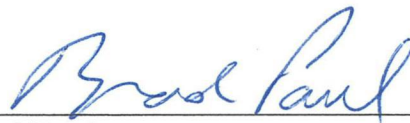
The foregoing was adopted by the Administrative Committee this 9<sup>th</sup> day of June, 2017.



\_\_\_\_\_  
Julie Pierce  
Chair

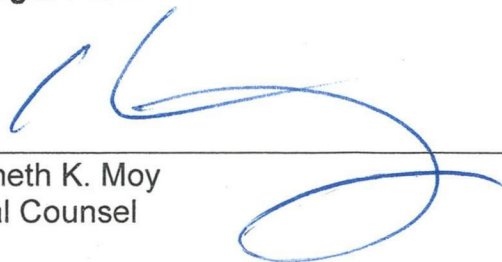
**Certification of Administrative Committee Approval**

I, the undersigned, the appointed and qualified Secretary-Treasurer of the Association of Bay Area Governments (Association), do hereby certify that the foregoing resolution was adopted by the Administrative Committee of the Association at a duly called meeting held on the 9<sup>th</sup> day of June, 2017.



\_\_\_\_\_  
Brad Paul  
Acting Secretary-Treasurer

**Approved as To Legal Form**



\_\_\_\_\_  
Kenneth K. Moy  
Legal Counsel

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

**Attachment A**

**Statement of Investment Policy**

The Treasurer of the Metropolitan Transportation Commission (MTC) shall invest all funds over which MTC is administratively responsible, including those of MTC, MTC Service Authority for Freeways and Expressways (SAFE), the Bay Area Toll Authority (BATA), the Regional Administrative Facility Corporation (RAFC), the Bay Area Headquarters Authority (BAHA) the Bay Area Infrastructure Financing Authority (BAIFA), and the Association of Bay Area Governments (ABAG) a separate joint powers authority, and its affiliated entities, for which MTC is accepting administrative responsibility for management of funds, effective July 1, 2017 pursuant to a contract for services dated May 30, 2017 in accordance with the provisions of §§ 53600 et seq. of the Government Code and the provisions of this investment policy.

I. Prudent Investor Rule:

Funds shall be managed under the “prudent investor standard” which requires all agencies investing public funds to be trustees of those funds, and therefore, fiduciaries subject to the prudent investor standard. When investing, reinvesting, purchasing, acquiring, exchanging, selling or managing public funds, a trustee shall act with care, skill, prudence and diligence under circumstances then prevailing, including, but not limited to, the general economic conditions and anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. All funds shall be invested within the following objectives, in order of priority:

1. Safety: Preservation and safeguard of capital.
2. Liquidity: Funds shall be invested in a manner consistent with operating needs of the agency.
3. Yield: Funds shall be invested to earn a secured and safe return without compromising the objectives of safety and liquidity.

II. Permitted Investments:

Investments authorized under this policy shall be limited to:

- A. United States treasury notes, bonds or bills for which the full faith and credit of the United States are pledged for the payment of principal and interest.
- B. Bonds, notes, bills, warrants or obligations issued by an agency of the United States.

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

- C. Commercial Paper of "prime" quality of the highest ranking or of the highest letter and numerical rating provided by Moody's Investor Services or Standard & Poor's Corporation.
- Eligible paper is further limited to issuing corporations organized and operating in the United States and having total assets in excess of five hundred million dollars (\$500,000,000) and having an "A" or higher rating for the issuers' debt, other than commercial paper, if any, as provided by Moody's Investor Services or Standard & Poor's Corporation or the equivalent of other nationally recognized rating services that may be allowed by statute. Purchases shall not exceed 180 days maturity, 10% of the outstanding commercial paper of a single issuing corporation and 10% of the agency's surplus money.
- D. Negotiable certificates of deposit issued by a nationally or State chartered bank, not to exceed 10% of surplus agency funds.
- E. Medium-Term notes of a maximum five years maturity issued by corporations meeting criteria in Section C, not to exceed 10% of agency's surplus funds.
- F. Mutual funds registered with the Securities and Exchange Commission, having attained the highest letter and numerical ranking by at least two Nationally recognized statistical rating organizations. Such investments shall not exceed 20% of surplus funds, with no more than 10% invested in any single mutual fund.
- G. Local Agency Investment Fund (LAIF) as authorized by Government Code §§ 16429.1.
- H. The Alameda County Treasury local agency investment fund authorized under Government Code §§ 53684.
- I. Repurchase agreements collateralized by securities of the United States Government or an agency of the United States Government.
- J. Municipal Obligations issued by State or Local agencies:
- a) Such bonds can include the obligations of the Bay Area Toll Authority and the Bay Area Infrastructure Financing Authority;
  - b) The maturity does not exceed 5 years from the date of purchase;
  - c) With regards to Municipal Obligations in the form of variable rate demand bonds, the obligations shall have mandatory investor tender rights supported by a third-party liquidity facility from a financial institution with short-term ratings of at least A-1 by S&P or P-1 by Moody's. The maturity of these bonds shall be equivalent to the investor's tender option supported by the liquidity facility.

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

- K. All other investments authorized under §§ 53600 et seq. of the California Government Code as appropriate for public fund investments and not specifically prohibited by this policy.

III. Prohibited Investments:

In addition to any prohibited investments listed in California Code §§ 53601.6 and 53631.5, the following are specifically prohibited:

- A. Reverse repurchase agreements.
- B. Financial futures.
- C. Option contracts.
- D. Mortgage interest strips.
- E. Inverse floaters.
- F. Securities lending.
- G. Repurchase agreements purchased for "yield enhancement" purposes and not required for banking and liquidity purposes.
- H. Any investment that fails to meet credit or portfolio limits at the time of investment.

IV. Sales Prior to Maturity:

- A. The primary strategy of this investment policy is to "buy and hold" securities to maturity, however, a security may be sold prior to maturity if the sale is necessary to avoid further erosion of market value or meet operational or project liquidity needs. All sales prior to maturity shall be detailed in the investment report.
- B. A security whose market or credit quality falls outside the investment policy parameters after purchase may be held to maturity without violation of this policy provided the fact is disclosed in the investment report.

V. Investment Pools:

Investment pools operated by LAIF and Alameda County as permitted investments under Section II of this policy, whose portfolios contain specific securities not permitted under this policy, but none-the-less permitted under the law or approved investment policy of the respective pool, are permitted under this policy. The make-up of such portfolios shall be submitted as part of the investment report at least quarterly.

VI. Fund and Liquidity Levels:

- A. Funds for MTC, SAFE and BATA operating requirements shall be commingled for investment purposes. The liquidity level shall be maintained in an appropriate manner but not less than:

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

			<b>Maximum</b>
<b>30</b>	<b>90</b>	<b>1</b>	<b>Weighted</b>
<u>Days</u>	<u>Days</u>	<u>Year</u>	<u>Maturity</u>
<b>10%</b>	<b>15%</b>	<b>30%</b>	<b>5 yrs</b>

The percentages within the 30 and 90 day counts are cumulative towards the one year minimum.

**B. Reserve Funds:**

Specifically designated reserve funds may have a maximum maturity of 40 years or less, provided each fund is clearly identified in the investment report.

**C. All funds under management shall be combined for the purpose of evaluating credit and portfolio limits.**

**VII. Brokerage Firms:**

Only firms meeting all of the following criteria shall be authorized to buy or sell securities:

- A. Firms licensed to conduct business as a broker-dealer under § 25004 of the Corporations Code, licensed and registered under the Securities Exchange Commission, a Federally or State chartered bank, or designated a "primary dealer" by the Federal Reserve Bank and with offices located in California.
- B. The firm must have a minimum rating of "A-" from a nationally recognized credit rating agency.
- C. Corporate assets or assets under management of at least fifty million dollars (\$50,000,000).
- D. Provided written certification that they received a copy of the approved policy.

**VIII. Investment Management Services:**

Only firms meeting all of the following criteria shall be authorized to manage investment funds.

- A. Firms licensed to conduct business as an investment advisor under § 25009 of the Corporations Code, licensed and registered under the Securities Exchange Commission.
- B. Firms licensed to conduct business as a Registered Investment Advisor under the Investment Advisors Act of 1940.
- C. C. Firms must have assets under management of at least five billion dollars (\$5,000,000,000) and the investment fund must be

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

rated at least an "A".

- D. Firms must provide certification of an annual audit or certification of internal cash controls (i.e. SAS 70 or equivalent) satisfactory to the Chief Financial Officer.
- E. Firms must have a minimum of 10 years experience of investment advisory experience in the public sector.
- F. Firms must carry errors and omission insurance of at least ten million dollars (\$10,000,000).
- G. Firms must provide written certification that they meet all of the above criteria.

**IX. Safekeeping:**

- A. All securities shall be maintained in a safekeeping account, independent from all broker accounts, with securities held in the name of the agency. Banks with independent "trust" or safekeeping departments shall qualify as independent safekeeping accounts.
- B. Safekeeping accounts shall be maintained with firms or banks with at least fifty million dollars (\$50,000,000) in trust and safekeeping accounts under management and a minimum rating in the "A" category from a nationally recognized rating service.
- C. The Treasurer or assignee designated by the MTC Executive Director is authorized to sign documents providing for the sale and purchase of securities, as well as all documents required to provide for safekeeping and trust.

**X. Internal Controls:**

The Treasurer shall be responsible for developing a system of internal controls that maintain appropriate records of all transactions as well as individual fund ownership of all investments and interest earnings and shall also be subject to the annual independent audit process.

**XI. Investment Reports:**

In accordance with § 53646 of the Government Code, at least quarterly, the Treasurer shall submit an investment report to the Executive Director who shall forward the report to all entities whose funds are subject to this policy. The report shall detail all securities, par value, market value, maturity, liquidity and credit limit thresholds, as well as any sales prior to maturity, any securities no longer meeting policy standards, and any investment policy violations. Portfolio detail for LAIF, Alameda County or other authorized Government Investment Pools, shall be included on a quarterly basis.

**XII. Financial Accounts:**

Both the Executive Director and the Treasurer are required to sign documents to open financial accounts with banks, financial institutions and government

**ASSOCIATION OF BAY AREA GOVERNMENTS  
RESOLUTION NO. 06-17**

pooled investment funds as needed in order to manage MTC's investments as described within this investment policy; provided that all such accounts meet policy standards.

*XIII. Authorized Signers*

*The following positions are authorized to sign on all accounts:*

*Executive Director*

*Deputy Executive Directors – all*

*Chief Financial Officer*

*Deputy Treasurer*

*At least two signatures are required to transfer funds out of such accounts.*

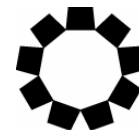
*XIV. Renewal:*

*This investment policy shall be subject to review annually.*



# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018

To: ABAG Executive Board  
ABAG Finance Committee

From: Executive Director

Subject: **Recommend Executive Board Adoption of ABAG Resolution No. 01-18  
Establishing Bylaws of the Advancing California Finance Authority**

Staff requests the ABAG Executive Board to adopt ABAG Resolution No. 01-18 establishing the Bylaws for the Advancing California Finance Authority (ACFA). The Bylaws establish rules of administration, governance, as well as admission and removal of program members. Major provisions include:

## Membership

- Founding members are ABAG and ABAG Finance Authority for Nonprofit Corporations (FAN).
- Program members may be invited by the ACFA Governing Board and must be a public agency in the nine-county Bay Area.

## Program Member Rules

- Admission is at three-fifths (3/5) vote of ACFA Governing Board.
- Program Members may not withdraw while their financing is still outstanding.
- Program Members may be expelled for default and with three-fifths (3/5) vote of ACFA Governing Board.

## Officers

- Chair of the Board: Conducts meetings.
- Vice Chair: Acts in absence of Chair.
- Executive Director
- Deputy Executive Director
- General Counsel
- Secretary: Arranges meetings, coordinates agendas, and keeps minutes and the official record.
- Treasurer/Chief Financial Officer: Keeps all financial books and records, administers funds and arranges annual audit.

## **Approval of ABAG Resolution No. 01-18**

March 8, 2018

Page 2

### Other Provisions

- Meetings must be noticed and open in accordance with Brown Act rules.
- Applicant provides general indemnification for of Board, officers and employees of ACFA.
- In the event the JPA terminates all remaining assets are distributed to ABAG.

The ABAG FAN Executive Committee and the ACFA Governing Board will also be requested to adopt resolutions establishing the Bylaws for the Advancing California Finance Authority.

### **Recommendation**

The ABAG Finance Committee is requested to recommend ABAG Executive Board adoption of ABAG Resolution No. 01-18 establishing the Bylaws of the Advancing California Finance Authority (ACFA).



---

Steve Heminger

### **Attachment**

ABAG Resolution No. 01-18

**ASSOCIATION OF BAY AREA GOVERNMENTS  
EXECUTIVE BOARD**

**RESOLUTION NO. 01-18**

**APPROVAL OF BYLAWS FOR THE ADVANCING CALIFORNIA FINANCE  
AUTHORITY**

WHEREAS, the Association of Bay Area Governments (“ABAG”), a “public agency” within the meaning of Section 6500 of the California Joint Exercise of Powers Act, consisting of Sections 6500 through 6599.3 of the California Government Code, as amended from time to time (the “Joint Powers Act”), and the ABAG Finance Authority for Nonprofit Corporations (“ABAG Finance”), a “public agency” within the meaning of Section 6500 of the Joint Powers Act, have, pursuant to the Joint Powers Act, entered into a Joint Exercise of Powers Agreement (the “Joint Powers Agreement”) which created the Advancing California Finance Authority (the “Financing Authority”); and

WHEREAS, in addition to the Joint Powers Agreement it will be beneficial for the Financing Authority to have a set of bylaws to guide its administration; and

WHEREAS, it is desirable that ABAG and ABAG Finance, as the two members of the Financing Authority, consider and approve such bylaws; and

WHEREAS, there has been prepared and presented to this meeting a proposed form of bylaws entitled Bylaws of the Advancing California Finance Authority (the “Bylaws”), attached hereto as Attachment A to this Resolution and incorporated herein as though set forth at length; and

WHEREAS, all acts, conditions and things required by the Constitution and the laws of the State of California to exist, to have happened and to have been performed in connection with the approval of the Bylaws authorized hereby do exist, have happened and have been performed in regular and due time, form and manner as required by law, and ABAG and ABAG Finance are now duly authorized and empowered, pursuant to each and every requirement of law, to approve the Bylaws and authorize the adoption of the Bylaws by the Financing Authority; now, therefore, be it

RESOLVED, that ABAG specifically finds and declares that the statements, findings and determinations of ABAG set forth in the preambles above are true and correct; and be it further

RESOLVED, that ABAG hereby approves the Bylaws and authorizes adoption of the Bylaws by the Financing Authority’s Governing Board (the “Financing Authority Board”) in substantially the form presented to this meeting, with such additions thereto or changes therein as the Financing Authority Board may require or approve, the approval of such additions or changes to be conclusively evidenced by the adoption by the Financing Authority Board of the Bylaws; and be it further

RESOLVED, that the officers and agents of ABAG are hereby authorized and directed to take all further actions necessary and convenient to the adoption of the Bylaws by the Financing Authority Board and that all actions heretofore taken by the members of ABAG, committees of ABAG, and officers and agents of ABAG with respect to the Bylaws are hereby acknowledged and affirmed; and, be it further

RESOLVED, that this Resolution shall take effect from and after its adoption.

The foregoing was adopted by the Executive Board this 15th of March, 2018.

---

David Rabbitt  
President

#### **Certification of Executive Board Approval**

I, the undersigned, the appointed and qualified Clerk of the Board of the Association of Bay Area Governments (Association), do hereby certify that the foregoing resolution was adopted by the Executive Board of the Association at a duly called meeting held on the 15<sup>th</sup> day of March, 2018.

---

Frederick Castro  
Clerk of the Board

## **Attachment A**

Advancing California Finance Authority Bylaws

BYLAWS

OF THE

ADVANCING CALIFORNIA FINANCE AUTHORITY

adopted  
March \_\_, 2018

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BYLAWS  
OF  
ADVANCING CALIFORNIA FINANCE AUTHORITY

ARTICLE I  
NAME

The name of this public entity is the Advancing California Finance Authority (the “Authority”).

ARTICLE II  
OFFICES

1. Principal Office. The principal office for the transaction of the business of the Authority is located at 375 Beale Street, Suite 800, San Francisco, California. The Authority’s Governing Board (the “Board”) may change the principal office from one location to another. Any change of this location shall be noted by the Secretary on these Bylaws opposite this section, or this section may be amended to state the new location.

2. Other Offices. The Board may at any time establish branch or subordinate offices at any place or places.

ARTICLE III  
LIMITATION ON AUTHORITY

The Authority’s exercise of its power under the Advancing California Finance Authority Joint Exercise of Powers Agreement (the “JPA Agreement”) and these Bylaws shall be restricted to the extent required under California Government Code Section 6509. The Association of Bay Area Governments (“ABAG”) is hereby designated pursuant to said Section 6509. This designation may be changed by a two-thirds (2/3) vote of the Board provided that the designated agency must be a public agency located in California.

ARTICLE IV  
MEMBER ENTITIES

In addition to the original contracting parties to the JPA Agreement consisting of ABAG and the ABAG Finance Authority for Nonprofit Corporations (“ABAG FAN” and collectively with ABAG, the “Founding Members”), any other public entity, as defined in California Government Code Section 6500, located in the Counties of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano and Sonoma may be invited by the Board to join the Authority as a Program Member (each a “Program Member” and collectively with the Founding Members, the “Member Entities”). Any Program Member who withdraws or is expelled pursuant to these Bylaws shall cease to be a Member Entity.

ARTICLE V  
DEBTS AND LIABILITIES

The debts, liabilities and obligations of the Authority shall not be the debts, liabilities or obligations of any or all of the Member Entities.

ARTICLE VI  
BOARD MEMBERS

1. Powers.

(a) General Powers. The Authority shall have all powers granted to it by the JPA Agreement and the Joint Exercise of Powers Act, Chapter 5 of Division 7 of Title 1 of the California Government Code (the "Act"). The business and affairs of the Authority shall be managed, and all powers shall be exercised, under the policy direction of the Board.

(b) Specific Powers. Without prejudice to these general powers, the Board shall also have the power to borrow money and incur indebtedness on behalf of the Authority and cause to be executed and delivered for the Authority's purposes, in the Authority's name, promissory notes, bonds, deeds of trust, mortgages, pledges, hypothecations, and other evidences of debt and securities and certificates of participation.

(c) Financing Guidelines. The Board may establish guidelines, policies and procedures ("Financing Guidelines") for the types of project financings undertaken by the Authority. Any permanent changes to the Financing Guidelines (i.e., those affecting all future transactions) shall require a majority vote of the Board. Any changes, waivers or additions to the Financing Guidelines for one or more specific transactions which are not intended as permanent changes shall require majority vote of the Board.

2. Board Members. The Board shall be comprised of the individuals (the "Board Members") designated in Section 3.B. of the JPA Agreement as modified by Section 21 of the JPA Agreement.

3. Vacancies.

(a) Events Causing Vacancy. A vacancy or vacancies in the Board shall be deemed to exist on the occurrence of the following: (i) the death of any Board Member; (ii) the removal, dismissal or resignation of a Board Member from the position he/she held with the Member Entity at the time he/she became a Board Member; (iii) the declaration by resolution of the Board of a vacancy of the office of a Board Member who has been declared of unsound mind by an order of court or convicted of a felony; or (iv) the increase in the authorized number of Board Members.

(b) Resignations. No Board Member may resign when the Authority would then be left without a Board Member in charge of its affairs.

(c) Vacancies. Any vacancy or vacancies in the Board shall be filled pursuant to Sections 3.B and 21 of the JPA Agreement.

4. Regular Meetings. Regular meetings of the Board shall be held pursuant to Section 3.C of the JPA Agreement.

5. Special Meetings. Special meetings of the Board may be called at any time by the Chair or Vice-Chair of the Board or by two (2) Board Members requesting such meeting in writing. No later than two (2) business days written notice of a special meeting shall be given to all Board Members and to such other persons who requested in writing receipt of such notices. Written notice may be dispensed with as to any Board Member who is actually present at the time the meeting convenes. The notice shall state the time and place of the meeting, and the business to be transacted; provided that, in the event of an emergency meeting, only the minimum notice requirements of the Ralph M. Brown Act must be met. Business transacted at a special meeting of the Board shall be limited to the items set forth in the notice of such meeting.

6. Quorum. A majority of the authorized number of Board Members shall constitute a quorum for the transaction of business. Every act or decision done or made by a majority of the Board Members present at a meeting duly held at which a quorum is present shall be regarded as the act of the Board, especially those provisions relating to (i) approval of contracts or transactions in which a Board Member has a direct or indirect material financial interest, (ii) appointment of committees, and (iii) indemnification of Board Members. A meeting at which a quorum is initially present may continue to transact business, notwithstanding the withdrawal of Board Members, if any action taken is approved by at least a majority of the required quorum for that meeting.

7. Rules of Order. The Board may adopt rules of order to govern the conduct and procedure of Board meetings.

8. Open Meetings. Meetings of the Board shall be open to the public as required by the provisions of the Ralph M. Brown Act and applicable case law.

9. Minutes. The Board shall keep or cause to be kept written minutes of its proceedings, except executive sessions.

10. Fees and Compensation Board Members. Board Members and members of committees may receive such reimbursement of expenses that comply with the Authority's expense reimbursement policy, as the same may be amended from time to time.

## ARTICLE VII COMMITTEES

1. Committees. The Chair may designate one or more ad hoc advisory committees, each consisting of two or more Board Members, and any other persons appointed by the Chair, to be ratified by and serve at the pleasure of the Board, and to exercise such powers as may be delegated to it by the Chair, except that no committee may:

(a) take any final action on matters which, under the JPA Agreement, requires approval of a majority or more of all the Board Members;

(b) amend or repeal Bylaws or adopt new Bylaws;

(c) amend or repeal any resolution of the Board which by its express terms is not so amendable or repealable;

(d) appoint any other committees of the Board or the members of these committees; or

(e) approve any transaction (1) to which the Authority is a party and one or more Board Members have a material financial interest as defined in the California Government Code; or (2) between the Authority and one or more of its Board Members or between the Authority or any person in which one or more of its Board Members have a material financial interest.

2. Meetings and Action of Committees. Meetings and action of committees shall be governed by, and held and taken in accordance with, the provisions of Article VI of these Bylaws, concerning meetings of the Board, with such changes in the context of those Bylaws as are necessary to substitute the committee and its members for the Board and its members, except that the time for regular meetings of committees may be determined either by resolution of the Board or by resolution of the committee. Special meetings of committees may also be called by resolution of the Board or the committee seeking to meet. Notice of special meetings of committees shall also be given to any and all Board Members, who shall have the right to attend all meetings of the committee. Minutes shall be kept of each meeting of any committee and shall be filed with the Authority records.

## ARTICLE VIII OFFICERS

1. Officers. The officers of the Authority shall be the Chair, Vice-Chair, Treasurer, Auditor, Executive Director, Deputy Executive Director, General Counsel and Secretary. The Treasurer is also designated as the Chief Financial Officer of the Authority. The holders of such offices shall be as set forth in Sections 3.D. and 21 of the JPA Agreement. The Chair and Vice-Chair shall be Board Members. Any number of offices may be held by the same person, except that neither the Secretary nor the Chief Financial Officer may serve concurrently as either the Chair or Vice-Chair of the Board.

2. Removal of Officers. An officer may be removed, with or without cause, by a fourth-fifths (4/5) vote of the Board at a regular or special meeting.

3. Vacancies. Any vacancy in any office because of death, resignation, removal, disqualification, or any other cause shall be filled for the balance of the vacated term in the manner prescribed in these Bylaws for regular appointments to that office; provided, however, that such vacancies may be filled at any regular or special meeting of the Board.

4. Resignation of Officers. In the absence of a contrary written agreement, any officer may resign at any time by giving written notice to the Chair or Vice Chair. Any resignation shall take effect at the date of the receipt of that notice or at any later time specified in that notice; and, unless otherwise specified in that notice, the acceptance of the resignation shall not be necessary to make it effective.

5. Responsibilities of Officers.

(a) Chair of the Board. The Chair of the Board shall preside at meetings of the Board and exercise and perform such other powers and duties as may be from time to time assigned to him/her by the Board or prescribed by the Bylaws.

(b) Vice-Chair of the Board. The Vice-Chair of the Board shall fulfill all the duties of the Chair in his/her absence.

(c) Secretary. The Secretary shall:

(i) Book of Minutes. Keep or cause to be kept, at the principal executive office or such other place as the Board may direct, a book of minutes of all meetings and actions of Board and committees of the Authority, with the time and place of holding, whether regular or special, and, if special, how authorized, the notice given, the names of those present at such meetings and the proceedings of such meetings.

(ii) Notices and Other Duties. Give, or cause to be given, notice of all meetings of the Board and Committees of the Authority required by the Bylaws and the Ralph M. Brown Act to be given. He or she shall have such other powers and perform such other duties as may be prescribed by the Board.

(d) Treasurer/Chief Financial Officer. In addition to the duties set forth in the Act and the JPA Agreement, the Treasurer/ Chief Financial Officer shall attend to the following:

(i) Books of Account. The Treasurer/Chief Financial Officer shall keep and maintain, or cause to be kept and maintained, adequate and correct books and records of accounts of the properties and business transactions of the Authority, including accounts of its assets, liabilities, receipts, disbursements, gains, losses, capital, retained earnings, and other matters customarily included in financial statements. The books of account shall be open to inspection by any Board Member at all reasonable times.

(ii) Deposit and Disbursement of Money and Valuables. The Treasurer/Chief Financial Officer shall deposit all money and other valuables in the name and to the credit of the Authority with such depositories as may be designated by the Board; shall disburse the funds of the Authority as may be ordered by the Board; shall render to the Board Members, whenever they request it, an account of all of his/her transactions as Treasurer/Chief Financial Officer and of the financial condition of the Authority; and shall have other powers and perform such other duties as may be prescribed by the Board or the Bylaws.

(iii) Bond. If required by the Board or the Act, the Treasurer/Chief Financial Officer shall give the Authority a bond in the amount and with the surety or sureties specified by the Board for faithful performance of the duties of his/her office and for restoration to the Authority of all its books, papers, vouchers, money, and other property of every kind in his/her possession or under his/her control on his/her death, resignation, retirement, or removal from office.

6. Fees and Compensation. The officers may receive such reimbursement of expenses that comply with the Authority's expense reimbursement policy, as the same may be amended from time to time.

ARTICLE IX  
MEMBER ENTITY INDEMNITY

Each Member Entity hereby agrees to indemnify and hold harmless all other Member Entities to the extent any liability is found or imposed against said Member Entity pursuant to California Government Code Section 895.2.

ARTICLE X  
OBLIGATIONS OF CONTRACTING PARTIES

1. Release and Indemnification. At a minimum the Authority shall require parties with whom it contracts for financings (the "Participants") to indemnify and save it, its members, and the Board Members, officers and employees of each of the foregoing harmless from and against all claims, losses and damages, including legal fees and expenses, arising out of

(a) the use, maintenance, condition or management of, or from any work or thing done on a Project by the Participant or at its direction or request,

(b) any breach or default on the part of the Participant in the performance of any of its obligations under its agreement with the Authority,

(c) any act or negligence of the Participant or of any of its agents, contractors, servants, employees or licensees with respect to the Project,

(d) any act or negligence of any assignee or sublessee of the Participant or of any agents, contractors, servants, employees or licensees of any assignee or sublessee of the Participant with respect to the Project, or

(e) the acquisition, construction and installation of the Project or the authorization of payment of the costs of acquisition by the Participant or authorization of payment of costs of repairs to the Project.

No indemnification to the Authority or its members will be required to be made by the Participant for willful misconduct or gross negligence by the Authority, its members or their officers, agents, employees, successors or assigns.

2. Advisors. The Authority shall, at its discretion, hire advisors as it deems necessary to evaluate and advise it as to Projects proposed for financing including, but not limited to, the financial position of the Participant, the appropriateness of the financing structure of the Project and the risk involved with the Project. Any and all such costs or fees shall be paid by the Participant whether or not the proposed financing is approved by the Authority or completed.

3. Payment of Costs and Expenses. Participants shall be required to pay any and all costs and expenses involved in or associated in any way with their particular financing transaction. This obligation shall survive termination of the Authority.

## ARTICLE XI MEMBERSHIP

1. Founding Members. ABAG and ABAG FAN are the Founding Members of the Authority. The Authority can operate with the Founding Members and no other members are required for the exercise by the Authority of all powers granted it under the JPA Agreement and the Act.

2. Program Members. Public agencies located within the nine (9) San Francisco Bay Area Counties of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano and Sonoma (the “Bay Area Counties”) shall be eligible to join the Authority upon invitation by the Board.

## ARTICLE XII ADMISSION, WITHDRAWAL AND EXPULSION

1. Conditions for Admission of a Program Member. Each applicant for Program Membership in the Authority shall meet the following minimum qualifications:

(a) such new Program Member shall be a public entity located in the Bay Area Counties;

(b) passed a resolution approving entry into the Authority and execution of the JPA Agreement once the Authority has approved membership;

(c) applied for and been approved by at least three-fifths (3/5) of the Board for admission to the Authority; and

(d) such new Program Member shall have (1) duly executed the JPA Agreement and (2) acknowledged these Bylaws.

2. Conditions to Permitting Withdrawal of a Member Entity. A Member Entity may withdraw provided that the following conditions are satisfied:

(a) such Member Entity shall not be in default of any of its obligations to pay any extraordinary costs or fees assessed by the Board;

(b) not later than thirty (30) days immediately preceding the effective date of such withdrawal, such Member Entity shall have provided written notice to the Authority of its intent to withdraw;

(c) such withdrawal shall be effective on the first business day after the closing of the last transaction in which said Member Entity is involved; and

(d) at least two (2) Member Entities shall remain members of the Authority after such withdrawal. In the event fewer than two (2) Member Entities would remain in the Authority, said Member Entity may not withdraw until such time as all principal of and interest on any and all revenue bonds and other evidences of indebtedness issued by the Authority have been paid in full.

Notice to withdraw shall be revocable only at the option of the Authority.

3. Conditions to Permitting Expulsion of a Member Entity. The Authority may expel a Member Entity from the Authority subject to the following conditions:

(a) the Member Entity is in default under the terms of the JPA Agreement, these Bylaws, or the duly-adopted rules and regulations of the Board; and

(b) not later than the thirty (30) days immediately preceding the effective date of such expulsion, three-fifths (3/5) of the Board shall have consented to such expulsion by written consent filed with the Authority and written notice of such expulsion shall have been given to the Member Entity to be expelled.

#### ARTICLE XIII FEES AND EXTRAORDINARY COSTS

1. Fees. All fees should be adopted by resolution of a majority of the Board.

2. Extraordinary Costs. In the event the Authority incurs any extraordinary or unanticipated costs, including but not limited to legal fees and/or litigation expenses, the Member Entities shall be assessed a fee or fees on a pro rata basis as determined by the Board necessary to pay such extraordinary or unanticipated costs. This provision shall survive termination of the Authority and/or each Member Entity's participation in it.

#### ARTICLE XIV ADMINISTRATIVE AGENCY

Effective July 1, 2017, all ABAG employees became employees of the Metropolitan Transportation Commission ("MTC"). MTC will provide necessary administrative services for the Authority.

#### ARTICLE XV PURCHASE OF INSURANCE

In conformance with the procedures and criteria developed by it, the Board may cause the Authority to purchase commercial insurance or reinsurance or terminate commercial insurance or reinsurance upon a majority vote of the Board.



ARTICLE XVI  
EVENTS OF DEFAULT AND REMEDIES

1. Events of Default Defined. The following shall be “events of default” under the JPA Agreement and these Bylaws, and the terms “events of default” and “default” shall mean, whenever they are used in the JPA Agreement and these Bylaws, with respect to a Member Entity, any one or more of the following events:

(a) failure by such Member Entity to observe and perform any covenant, condition or agreement on its part to be observed or performed under the JPA Agreement or to comply with these Bylaws, other than as referred to in clause (b) of this Section, for a period of thirty (30) days after written notice specifying such failure and requesting that it be remedied has been given to such Member Entity by the Authority; provided, however, if the failure stated in the notice cannot be corrected within the applicable period, the Authority shall not unreasonably withhold its consent to an extension of such time if corrective action is instituted by the Member Entity within the applicable period and diligently pursued until the default is corrected;

(b) non-payment of any fees assessed by the Board; or

(c) the filing by such Member Entity of a case in bankruptcy, or the subjection of any right or interest of such Member Entity under the JPA Agreement or these Bylaws to any execution, garnishment or attachment, or adjudication of such Member Entity as a bankrupt, or assignment by such Member Entity for the benefit of creditors, or the entry by such Member Entity into an agreement of composition with creditors, or the approval by a court of competent jurisdiction of a petition applicable to the Member Entity in any proceedings instituted under the provisions of the Federal Bankruptcy Code, as amended, or under any similar act which may hereafter be enacted.

2. Remedies on Default.

(a) Whenever any event of default referred to in Section 1 of this Article shall have happened and be continuing, it shall be lawful for the Authority to exercise any and all remedies available pursuant to law or granted pursuant to the JPA Agreement, the Act and these Bylaws.

(b) In the event that the Authority elects to expel any defaulting Member Entity, subject to the conditions described and in the manner provided in Section 3 of Article XI of these Bylaws, the Member Entity nevertheless agrees to pay the Authority all costs, losses or damages arising or occurring as a result of such default and termination, and administrative and legal costs incurred in noticing the default and effecting the expulsion. No such expulsion shall be or become effective by operation of law or otherwise, unless and until the Authority shall have given written notice of such expulsion to the Member Entity; no such expulsion shall be effected either by operation of law or acts of the parties hereto, except only in the manner herein expressly provided; and no such expulsion shall terminate the obligation of the expelled Member Entity to pay any fees assessed prior to such expulsion.

3. No Remedy Exclusive. No remedy conferred herein upon or reserved to the Authority is intended to be exclusive and every such remedy shall be cumulative and shall be in

addition to every other remedy given under the JPA Agreement, the Act or these Bylaws, now or hereafter existing at law or in equity. No delay or omission to exercise any right or power accruing upon any default shall impair any such right or power or shall be construed to be a waiver thereof, but any such right and power may be exercised from time to time and as often as may be deemed expedient. In order to entitle the Authority to exercise any remedy reserved to it in these Bylaws, it shall not be necessary to give any notice, other than such notice as may be required in these Bylaws or by law.

4. Agreement to Pay Attorneys' Fees and Expenses. In the event either the Authority or a Member Entity should be in default under any of the provisions of these Bylaws and the nondefaulting party should employ attorneys or incur other expenses for the collection of moneys or the enforcement of performance or observance of any obligation or agreement on the part of the defaulting party, the defaulting party agrees that it will on demand therefor pay to the nondefaulting party the reasonable fees of such attorneys and such other expenses so incurred by the nondefaulting party.

5. No Additional Waiver Implied by One Waiver. In the event any agreement contained in the JPA Agreement and these Bylaws should be breached by either party and thereafter waived by the other party, such waiver shall be limited to the particular breach so waived and shall not be deemed to waive any other breach hereunder.

## ARTICLE XVII TERMINATION

1. Time of Termination. The Authority may be terminated upon the written consent of all of the Founding Members if the effective termination date and such written consents are delivered to the Authority and the Secretary at least sixty (60) days prior to the effective termination date provided that all principal of and interest on any and all revenue bonds and other evidences of indebtedness issued by the Authority have been paid in full.

2. Continuing Obligations. After the termination date, the Authority shall continue to be obligated to pay, or cause to be paid any amounts due for winding up its affairs, including but not limited to any litigation costs and/or extraordinary costs associated with a financing transaction. After the effective termination date, each Founding Member has a continuing obligation to pay any fees assessed prior to the effective termination date.

3. Distribution of Assets. In the event any assets remain after winding up the affairs of the Authority, such sums shall be distributed to the Association of Bay Area Governments or its successor.

## ARTICLE XVIII AMENDMENTS

1. Amendment by Board. Subject to the limitations set forth below, the Board may adopt, amend or repeal Bylaws. Such power is subject to the following limitations:

(a) If any provision of these Bylaws requires the vote of a larger proportion of the Board than a simple majority, such provision may not be altered, amended or repealed except by vote of such larger number of Board Members.

(b) The Board may not delete or amend Bylaw provisions requiring compliance with the JPA Agreement.

## ARTICLE XIX RECORDS AND REPORTS

1. Maintenance of Authority Records. The Authority shall keep:

(a) Adequate and correct books and records of account;

(b) Minutes in written form of the proceedings of its Board, and committees of the Board.

All such records shall be kept at the Authority's principal executive office, or if its principal executive office is not in the State of California, at its principal business office in this state.

2. Inspection Rights.

(a) Any Member Entity may inspect the accounting books and records and minutes of the proceedings of the Board and committees of the Board, at any reasonable time, for a purpose reasonably related to such person's interest.

(b) Any inspection and copying under this section may be made in person or by an agent or attorney or the entity entitled thereto and the right of inspection includes the right to copy and make extracts.

3. Maintenance and Inspection of JPA Agreement and Bylaws. The Authority shall keep at its principal executive office the original or copy of the JPA Agreement and these Bylaws as amended to date, which shall be open to inspection by the Authority or any Member Entity at all reasonable times during office hours.

4. Inspection by Board Members. Every Board Member shall have the absolute right at any reasonable time to inspect all non-confidential books, records, and documents of every kind and the physical properties of the Authority. This inspection by a Board Member may be made in person or by an agent or attorney, and the right of inspection includes the right to copy and make extracts of documents.

5. Annual Report.

(a) Not later than the March 31<sup>st</sup> after the close of the Authority's fiscal year, the Board shall cause an annual report prepared by a Certified Public Accountant to be sent to the governing body of each Member Entity.

(b) The report required by this section shall be accompanied by any report thereon of independent accountants, or, if there is no such report, by the certificate of an authorized officer of the Authority that such statements were prepared without audit from the books and records of the Authority.

6. Fiscal Year. The Authority's fiscal year shall be from July 1 to June 30.

## ARTICLE XX CONSTRUCTION AND DEFINITIONS

Unless the context requires otherwise, the general provisions, rules of construction, and definitions in the California Civil Code shall govern the construction of these Bylaws. Without limiting the generality of the above, the term "person" includes both the Authority and a natural person and any capitalized term not defined in these Bylaws shall have the meaning ascribed to it in the JPA Agreement.

CERTIFICATE OF SECRETARY

I, the undersigned, certify that I am the presently appointed and acting secretary of the Advancing California Finance Authority and that these Bylaws were adopted by the Governing Board of the Advancing California Finance Authority at its meeting on \_\_\_\_\_, 2018.

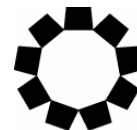
Dated: \_\_\_\_\_

\_\_\_\_\_  
[Name], Secretary

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# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018

To: ABAG Executive Board  
ABAG Finance Committee

From: Executive Director

Subject: **Recommend General Assembly adoption of Proposed Budget and Work Program for Fiscal Year 2018-2019**

Attached is the draft budget detail for the Association of Bay Area Governments (ABAG), its special revenue funds and associated entities. In addition, the draft FY 2018-19 budget and work plan for release to the General Assembly is attached. ABAG has direct approval for its administrative operations as well as Bay Area Regional Energy Network (BayREN) and the San Francisco Estuary Partnership (SFEP) which are special revenue funds to ABAG. We also present budget information on ABAG Publicly Owned Energy Resources (ABAG POWER) and ABAG Finance Authority for Nonprofit Corporations (ABAG FAN), both of which are joint powers authorities of which ABAG is a member, but they have independent boards that have discretionary approval of their respective budgets. Finally, the San Francisco Bay Restoration Authority (Restoration Authority) is also presented for information although the Restoration Authority is an independent agency with full discretionary authority over its finances including the operating budget.

## **ABAG Administration**

While we are still learning our way through the ABAG budget responsibilities, we are fairly confident with the proposed expenses for Fiscal Year 2018-19. The draft budget presented is balanced utilizing a combination of dues and transfers from ABAG FAN and SFEP operations.

### Highlights:

- Membership Dues – Dues are proposed to increase by \$124,000 under the existing per capita formula. The increase is a combination of inflation of 2.9% and 1% population growth.
- OPEB-Retirement Medical – Note that we have been able to estimate that Other Post Employment Benefits (OPEB) costs may now be completely offset by the existing OPEB assets held at PERS. Medical costs for existing retirees as well as all future benefit payments can be made entirely from the fund.
- Interfund Transfers – We have established that both ABAG FAN and SFEP program accounts have surplus balances that can be transferred to offset some administrative

## Proposed Budget and Work Program for Fiscal Year 2018-2019

March 8, 2018

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costs. A total of \$550,000 will be transferred into the ABAG Administrative budget as a result.

- PERS-Retirement Expense – We are still budgeting the full scheduled annual cost of the unfunded actuarial expense as if ABAG still had an active 70 employees. We believe once PERS calculates the ongoing liability recognizing that the 70 active employees are now under the Metropolitan Transportation Commission (MTC) payroll, that number should change.
- Consultants – The draft budget shows an increase of \$400,000 in budgeted costs. The additional consultant expense consists of four items, the first three of which actually are ongoing obligations of ABAG that were not previously budgeted or paid:

Bay Area Regional Collaborative	100,000
Bay Area Council Economic Institute	60,000
Lobbyist and Other	40,000
New Website	<u>200,000</u>
	<u>\$400,000</u>

- Audit – The other major change will be audit fees of \$250,000 versus a total cost of \$30,000 for Fiscal Year 2017-18. The increase is due in part to a new audit firm and first year costs are always higher. In fact, we expect the fees to decrease by about 20% in the second audit year. Adding to the cost increase is a change in audit standards as well as recognition that ABAG has over \$60 million in operational grants to various state and federal agencies which increases the audit scope substantially.

### Staff Costs

Staff costs are administered through MTC and the MTC payroll system. As such, you will see a budgeted transfer for all salary, benefit and overhead charges below direct expenses in each of Special Revenue, JPA and Restoration Authority budgets. These transfers are necessary to reimburse MTC for payroll charges made well in advance of grant funding.

### **San Francisco Estuary Partnership**

SFEP consists of a group of cooperating agencies and organizations that work on projects to protect, enhance and restore the San Francisco Bay—Delta Estuary. The budget consists mainly of grants administered through the State Department of Water Resources and the federal Environmental Protection Agency.

Highlights:

#### Revenue

- SFEP has \$38 million in project grant fund budgeted in Fiscal Year 2017-18 grants with \$15 million remaining to be programmed in Fiscal Year 2018-19.

#### Expenses

- Staffing costs will go down slightly in fiscal year 2018-19.



## **Proposed Budget and Work Program for Fiscal Year 2018-2019**

March 8, 2018

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- Consultant services are the largest costs in administering the project grants including \$150,000 for Estuary Blueprint Implementation.
- The SF Estuary-Self Funded Program is used primarily to put on the biennial Estuary and Bay Delta Science Conferences.
- Transfer out includes \$200,000 transfer to support ABAG administrative operations.

### **Bay Area Regional Energy Network—Energy**

BayREN—Energy program is funded by grants provided by the California Public Utilities Commission. The major programs are:

- Single Family Energy Retrofit
- Multi-Family Energy Retrofit
- Energy Efficiency Codes and Standards
- Financing for Energy Efficiency projects

BayREN programs include grants, loans and information to support other programs.

Highlights:

#### Revenue

- Grant revenue will increase by \$14 million which includes an anticipated new grant award for calendar year 2019

#### Expenses

- Salary and benefits increase by \$400,000 as some vacant staff positions are filled.
- Consulting and project incentive/loan expenses will increase by \$14 million to match the new grant revenue for Fiscal Year 2018-19.

### **ABAG POWER**

ABAG POWER is a Joint Power Agency that offers gas aggregation to 38 local governments and special districts by purchasing natural gas on behalf of its members and utilizes the Pacific Gas & Electric (PG&E) distribution system for delivery to member agencies.

Highlights:

#### Revenue

- Revenue from energy sales is expected to drop slightly with declines in energy sales.

#### Expenses

- Audit costs will increase as a result of the new auditors and added audit requirements.
- Costs of energy and PG&E costs will decline slightly mainly to lower gas use and costs.

## **Proposed Budget and Work Program for Fiscal Year 2018-2019**

March 8, 2018

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### **ABAG Finance Authority for Nonprofit Corporations (ABAG FAN)**

ABAG FAN acts as a conduit borrower for other agencies and public purpose projects. ABAG FAN currently has over 150 outstanding debt issues with over \$1.2 billion in value outstanding.

ABAG FAN also acts as the Credit Committee for the new ABAG Advancing California Finance Authority (ACFA), as ACFA launches a new financing conduit.

Highlights:

#### Revenue

- Administrative Revenue should increase for Fiscal Year 2018-19 based on a backlog of current refunding projects as well as potential new ACFA business.
- Interest on ABAG FAN funds will increase with rising interest rates.
- Other revenue is reimbursement for administration of the four special districts.

#### Expenses

- Salaries and benefits will increase by about 40% as two positions with one temporary staff support will be assigned to administer ABAG FAN and ACFA.
- Consultant fees will increase for financial and legal services approved by the ABAG FAN Executive Committee in February.
- Transfers include \$250,000 that will be transferred to support ABAG operations.

Staff is planning to run the ACFA operations through ABAG FAN until the business grows and there are sufficient assets to support an independent operation.

### **Recommendation**

The ABAG Finance Committee and the ABAG Executive Board are requested to recommend ABAG General Assembly adoption of the Proposed ABAG Budget and Work Program for Fiscal Year 2018-2019.



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Steve Heminger

### **Attachment**

Proposed Operating Budget  
Draft FY 2018-19 Budget and Work Program

## Total Revenues and Expenses by Program FY 2018-2019

Program	Total Revenue	Total Expense	Transfers (In)/Out	Surplus*
<b>ABAG Programs</b>				
ABAG Administration	2,612,000	3,140,433	(550,000)	21,567
SF Estuary Partnership/Self-Funded*	16,350,194	12,953,199	200,000	3,196,995
BayRen	32,524,129	32,524,129	-	-
<b>Subtotal</b>	51,486,323	48,617,761	(350,000)	3,218,562
<b>JPA Programs</b>				
Power	7,418,391	7,418,391	-	-
FAN	1,600,000	1,303,000	250,000	47,000
<b>Subtotal</b>	9,018,391	8,721,391	250,000	47,000
<b>SF Bay Restoration Authority</b>				
SF Bay Restoration Authority	25,250,000	24,826,945	125,000	298,055
<b>Total</b>	85,754,714	82,166,097	25,000	3,563,617

\*SF Estuary Partnership Remaining Grant \$3.19 million.

**ABAG Administration**

	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc./.(Dec.)	Change \$ Inc./.(Dec.)
<b>Revenue</b>					
Membership Dues	\$ 2,063,486	\$ 2,068,401	\$ 2,192,000	6%	\$ 123,599
Interest Revenue	13,181	-	20,000	100%	20,000
Other Revenue	9,535	-	400,000	100%	400,000
<b>Total Revenue</b>	<u>2,086,202</u>	<u>2,068,401</u>	<u>2,612,000</u>	<u>26%</u>	<u>543,599</u>
<b>Expense</b>					
Salary & Benefits	70,192	-	-	-	-
Retiree Medical (OPEB)	245,932	-	400,000	100%	400,000
PERS	902,808	1,286,000	1,441,533	12%	155,533
Travel	799	-	3,000	100%	3,000
Meals	4,533	10,702	12,000	12%	1,298
Parking	3,756	-	-	-	-
Beale Assessments	162,500	325,000	331,500	2%	6,500
Mailings	1,460	-	-	-	-
Memberships	25,890	-	44,000	100%	44,000
Subscriptions	1,599	-	1,700	100%	1,700
Consultants	12,690	-	400,000	100%	400,000
Interest Expense	2,077	-	-	-	-
Legal Fees	6,299	-	-	-	-
Board Expense	30,375	80,000	80,000	0%	-
Audit	29,350	-	250,000	100%	250,000
Bank Service Charges	15,403	-	41,000	100%	41,000
Insurance	92,815	133,690	135,000	1%	1,310
Miscellaneous	508	-	700	100%	700
Depreciation	160,165	-	-	-	-
<b>Total Expenses</b>	<u>1,769,151</u>	<u>1,835,392</u>	<u>3,140,433</u>	<u>71%</u>	<u>1,305,041</u>
<b>Transfer (In)/Out</b>	<u>-</u>	<u>233,009</u>	<u>(550,000)</u>		<u>(783,009)</u>
<b>Total Expense and Transfers</b>	<u>1,769,151</u>	<u>2,068,401</u>	<u>2,590,433</u>		<u>522,032</u>
<b>Surplus/(Deficit)</b>	<u>\$ 317,051</u>	<u>\$ -</u>	<u>\$ 21,567</u>		<u>\$ 21,567</u>

<b>SF Estuary Partnership</b>					
	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc./{(Dec.)}	Change \$ Inc./{(Dec.)}
<b>Revenue</b>					
Grant Revenue	\$ 1,068,063	\$ 38,420,562	\$ 15,642,194	-59%	\$ (22,778,368)
Other Revenue	-	588,230	-	-100%	(588,230)
<b>Total Revenue</b>	<u>1,068,063</u>	<u>39,008,792</u>	<u>15,642,194</u>	<u>-60%</u>	<u>(23,366,598)</u>
<b>Expense</b>					
Travel	7,301	32,825	13,950	-58%	(18,875)
Meals	76	800	2,000	150%	1,200
Conferences	28,919	14,500	10,000	-31%	(4,500)
Advertising	9,644	-	-	-	-
Equipment Lease	-	2,615	-	-100%	(2,615)
Office Supplies	-	214	1,000	367%	786
Mailings	27	2,000	8,000	300%	6,000
Memberships	-	1,893	4,000	111%	2,107
Subscriptions	-	1,893	4,000	111%	2,107
Consultant*	131,727	35,295,380	9,384,680	-73%	(25,910,700)
Legal Fees	-	67,936	-	-100%	(67,936)
Printing	11,279	29,350	15,000	-49%	(14,350)
Commission Expense	-	12,500	-	-100%	(12,500)
Insurance	-	5,000	-	-100%	(5,000)
Miscellaneous	549	13,500	4,500	-67%	(9,000)
<b>Total Direct Expense</b>	<u>189,522</u>	<u>35,480,406</u>	<u>9,447,130</u>	<u>-73%</u>	<u>(26,033,276)</u>
<b>Transfers</b>					
<b>MTC Staff Cost</b>	883,678	2,421,906	2,001,866	-17%	(420,040)
<b>Overhead</b>	<u>1,467</u>	<u>1,106,480</u>	<u>999,969</u>	<u>-10%</u>	<u>(106,511)</u>
<b>Total Direct and Staffing</b>	<u>1,074,667</u>	<u>39,008,792</u>	<u>12,448,965</u>	<u>-68%</u>	<u>(26,559,827)</u>
<b>Other Transfers (In)/out</b>	-	-	-		-
<b>Remaining Grant Balance</b>	<u>\$ (6,604)</u>	<u>\$ -</u>	<u>\$ 3,193,229</u>		<u>\$ 3,193,229</u>

\*Includes \$150,000 for Estuary Blueprint Implementation

**SF Estuary - Self-Funded**

	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc./Dec.	Change \$ Inc./Dec.
<b>Revenue</b>					
Grant Revenue	\$ -	\$ -	\$ 90,000	100%	\$ 90,000
Other Revenue	387,374	246,716	618,000	150%	371,284
<b>Total Revenue</b>	<u>387,374</u>	<u>246,716</u>	<u>708,000</u>	<u>187%</u>	<u>461,284</u>
<b>Expense</b>					
Travel	-	-	5,000	100%	5,000
Conferences/Catering	65,911	-	215,000	100%	215,000
Advertising	595	-	-	-	-
Office Supplies	-	-	1,000	100%	1,000
Mailings	-	-	1,000	100%	1,000
Consultant	50,621	246,716	188,000	-24%	(58,716)
Printing	-	-	15,000	100%	15,000
Miscellaneous	712	-	-	-	-
<b>Total Expense</b>	<u>117,839</u>	<u>246,716</u>	<u>425,000</u>	<u>72%</u>	<u>178,284</u>
<b>Transfers</b>					
MTC Staff Cost	27,834	-	52,840	100%	52,840
Overhead	-	-	26,394	100%	26,394
<b>Total Direct and Staffing</b>	<u>145,673</u>	<u>246,716</u>	<u>504,234</u>	<u>104%</u>	<u>257,518</u>
Other Transfers (In)/out*	-	-	200,000	100%	200,000
<b>YE Balance/Deficit</b>	<u>\$ 241,701</u>	<u>\$ -</u>	<u>\$ 3,766</u>		<u>\$ 3,766</u>

\*Transfer to ABAG Admin

**BayRen - Energy**

	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc./.(Dec.)	Change \$ Inc./.(Dec.)
<b>Revenue</b>					
Grant Revenue	\$ 10,233,675	\$ 17,536,904	\$ 32,524,129	85%	\$ 14,987,225
Interest Revenue	1,114	-	-	0%	-
<b>Total Revenue</b>	<b>10,234,789</b>	<b>17,536,904</b>	<b>32,524,129</b>	<b>85%</b>	<b>14,987,225</b>
<b>Expense</b>					
Travel	222	5,500	9,000	64%	3,500
Conferences	1,918	1,000	1,000	0%	-
Advertising	25,170	-	-	-	-
Electrical Supplies	9,766	-	-	-	-
Memberships	10,000	150	10,000	6567%	9,850
Subscriptions	102	150	-	-100%	(150)
Consultant	1,599,324	3,294,110	4,329,650	31%	1,035,540
Legal Fees	-	9,441	-	-100%	(9,441)
Printing	-	700	-	-100%	(700)
Single Family Incentive	2,159,116	5,100,000	9,679,864	90%	4,579,864
Multi Family Incentive	3,873,000	3,750,000	7,184,720	92%	3,434,720
MFCAP Revolving Loan Capital	376,614	780,000	1,513,581	94%	733,581
Public Agency Passthrough	1,913,436	3,962,886	8,610,410	117%	4,647,524
Bank Service Charges	1,131	-	-	-	-
Miscellaneous	837	76,000	11,282	-85%	(64,718)
<b>Total Expense</b>	<b>9,970,636</b>	<b>16,979,937</b>	<b>31,349,507</b>	<b>85%</b>	<b>14,369,570</b>
<b>Transfers</b>					
<b>MTC Staff Cost</b>	<b>187,682</b>	<b>382,427</b>	<b>783,258</b>	<b>105%</b>	<b>400,831</b>
<b>Overhead</b>	<b>90,613</b>	<b>174,540</b>	<b>391,364</b>	<b>124%</b>	<b>216,824</b>
<b>Total Direct and Staffing</b>	<b>10,248,931</b>	<b>17,536,904</b>	<b>32,524,129</b>	<b>85%</b>	<b>14,987,225</b>
<b>Other Transfers (In)/out</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>
<b>Surplus/Deficit</b>	<b>\$ (14,142)</b>	<b>\$ -</b>	<b>\$ -</b>		<b>\$ -</b>

<b>Power</b>					
	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc.//(Dec.)	Change \$ Inc.//(Dec.)
<b>Revenue</b>					
Interest Revenue	\$ 6,862	\$ 12,000	\$ 20,000	67%	\$ 8,000
Other Revenue	9,313	-	9,000	100%	9,000
Energy Sales	3,720,960	7,438,552	7,389,391	-1%	(49,161)
<b>Total Revenue</b>	<u>3,737,136</u>	<u>7,450,552</u>	<u>7,418,391</u>	<u>0%</u>	<u>(32,161)</u>
<b>Expense</b>					
Travel	-	1,000	1,000	0%	-
Meals	807	1,200	1,500	25%	300
Subscriptions	-	1,100	-	-100%	(1,100)
Consultant	-	18,400	-	-100%	(18,400)
Legal Fees	1,419	10,000	10,000	0%	-
Audit	7,550	-	78,000	100%	78,000
Bank Service Charges	3,697	9,500	8,100	-15%	(1,400)
Miscellaneous	-	900	1,200	33%	300
Billing Agent Fees	3,609	900	10,500	1067%	9,600
Scheduling Agent Fees	7,000	16,800	16,800	0%	-
Cost of Energy Used	839,302	2,739,186	2,612,139	-5%	(127,047)
PG&E Passthrough	1,500,494	4,355,605	4,174,867	-4%	(180,738)
<b>Total Expense</b>	<u>2,363,877</u>	<u>7,154,591</u>	<u>6,914,106</u>	<u>-3%</u>	<u>(240,485)</u>
<b>Transfers</b>					
<b>MTC Staff Cost</b>	112,381	203,019	336,298	66%	133,279
<b>Overhead</b>	53,081	92,942	167,987	81%	75,045
<b>Total Direct and Staffing</b>	<u>2,529,339</u>	<u>7,450,552</u>	<u>7,418,391</u>		<u>(32,161)</u>
<b>Other Transfers (In)/out</b>	-	-	-		-
<b>Surplus/(Deficit)</b>	<u>\$ 1,207,796</u>	<u>\$ -</u>	<u>\$ -</u>		<u>\$ -</u>



**FAN**

	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc./Dec.	Change \$ Inc./Dec.
<b>Revenue</b>					
Financial Services Revenue	\$ 676,487	\$ 1,150,160	\$ 1,300,000	13%	\$ 149,840
Interest Revenue	18,552	20,000	50,000	150%	30,000
Other Revenue	4,577	-	250,000	100%	250,000
<b>Total Revenue</b>	<b>699,616</b>	<b>1,170,160</b>	<b>1,600,000</b>	<b>37%</b>	<b>429,840</b>
<b>Expense</b>					
Travel	100	-	-	-	-
Meals	252	-	-	-	-
Memberships	1,024	-	-	-	-
Consultants	201,757	271,250	420,000	55%	148,750
Legal Fees	-	66,756	100,000	50%	33,244
Commission Expense	900	-	-	-	-
Audit	10,550	29,000	85,000	193%	56,000
Bank Service Charges	-	13,000	50,000	285%	37,000
Miscellaneous	3,720	22,000	25,000	14%	3,000
<b>Total Expense</b>	<b>218,303</b>	<b>402,006</b>	<b>680,000</b>	<b>69%</b>	<b>277,994</b>
<b>Transfers</b>					
<b>MTC Staff Cost</b>	256,427	291,270	415,000	42%	123,730
<b>Overhead</b>	100,142	133,343	208,000	56%	74,657
<b>Total Direct and Staffing</b>	<b>574,872</b>	<b>826,619</b>	<b>1,303,000</b>	<b>58%</b>	<b>476,381</b>
<b>Other Transfers (In)/out</b>	-	-	(100,000)	-100%	(100,000)
			350,000	100%	350,000
<b>Surplus/(Deficit)</b>	<b>\$ 124,744</b>	<b>\$ 343,541</b>	<b>\$ 47,000</b>	<b>-86%</b>	<b>\$ (296,541)</b>

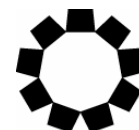
\*Transfer in from Reserve

**SF Bay Restoration Authority**

	Actuals to 12/31/2017	Approved Budget FY 2017-18	Draft Budget FY 2018-19	Change % Inc./Dec.	Change \$ Inc./Dec.
<b>Revenue</b>					
4620 Measure AA Special Tax Revenue	\$ 7,442,734	\$ -	\$ 25,000,000	100%	\$ 25,000,000
Interest Revenue	19	-	250,000	100%	250,000
Other Revenue	-	555,700	-	-100%	(555,700)
<b>Total Revenue</b>	<u>7,442,753</u>	<u>555,700</u>	<u>25,250,000</u>	<u>4444%</u>	<u>24,694,300</u>
<b>Expense</b>					
State Coastal Conservancy Staff	-	-	559,981	100%	559,981
Travel	-	9,000	2,000	-78%	(7,000)
Office Supplies	-	700	1,269	81%	569
Consultant	65,465	489,432	23,926,921	4789%	23,437,489
Audit	2,700	-	50,000	100%	50,000
Bank Service Charges	-	-	20,000	100%	20,000
Insurance	170	12,500	12,500	0%	-
Committee Member Stipend	300	5,000	5,000	0%	-
<b>Total Direct Expense</b>	<u>68,635</u>	<u>516,632</u>	<u>24,577,671</u>	<u>4657%</u>	<u>24,061,039</u>
<b>Transfers</b>					
<b>MTC Staff Cost</b>	46,752	39,068	249,274	538%	210,206
<b>Overhead</b>	-	-	-	100%	-
<b>Total Direct and Staffing</b>	<u>115,387</u>	<u>555,700</u>	<u>24,826,945</u>	<u>4368%</u>	<u>24,271,245</u>
<b>Other Transfers (In)/out</b>					
<b>MTC Administration</b>	-	-	125,000	100%	125,000
<b>MTC Overhead</b>	-	-	-	-100%	-
<b>Surplus/Deficit</b>	<u>\$ 7,327,366</u>	<u>\$ -</u>	<u>\$ 298,055</u>	<u>100%</u>	<u>\$ 298,055</u>

# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018

To: ABAG Executive Board  
ABAG Finance Committee

From: Executive Director

Subject: **Authorization to Enter into a Contract with PricewaterhouseCoopers (PwC) to Provide Annual Financial and Compliance Audit Services for Five Fiscal Years in the amount of \$402,325**

## **Executive Summary**

The ABAG Finance Committee is requested to recommend ABAG Executive Board authorization of the Executive Director of the Metropolitan Transportation Commission, or his designated representative, to negotiate and enter into a contract with PricewaterhouseCoopers in an amount not to exceed \$402,325 to provide the annual Financial and Compliance audit services as described in the attached summary approval. The annual audit engagement will be for five (5) fiscal years. Staff will return to the ABAG Finance Committee and ABAG Executive Board annually to secure funds for each annual audit, based on continuing satisfactory service. The RFQ also permits two consecutive one-year options for a total of seven years.

## **Project Description**

In November 2017, a Request for Qualifications (RFQ) to provide professional auditing services to perform annual fiscal audits for ABAG and MTC and their entities was issued.

Four firms responded to the RFQ. All the firms met minimum qualifications for experience and maintain local offices, and advanced to the interview process held on January 30, 2018:

- |                                   |                           |
|-----------------------------------|---------------------------|
| 1. Crowe Horwath                  | San Francisco, California |
| 2. KPMG                           | San Francisco, California |
| 3. Macias, Gini & O'Connell (MGO) | Walnut Creek, California  |
| 4. PricewaterhouseCoopers (PwC)   | San Francisco, California |

The interview panel consisted of MTC Commissioner Worth, Chief Financial Officer Brian Mayhew, and four Finance staff members. The panel did not include an ABAG Executive Board or Finance Committee member which is an oversight we will correct on future proposals. The evaluation criteria were as follows: 1) experience and qualification of firm and assigned staff (30%); 2) comprehensiveness and adequacy of detailed work plan (20%); 3) reasonableness of

## Authorization to Enter into a Contract with PricewaterhouseCoopers

March 8, 2018

Page 2

task hours (15%); 4) timetable for meeting deadlines (15%); 5) value-added expertise and experience (20%).

After a thorough review of the proposals and the interviews, the panel recommends the selection of PwC to perform the annual fiscal audits for ABAG, ABAG FAN, and ABAG POWER. PwC was determined to be most qualified based on a combination of the strength of the staff's qualifications and experience, the capability to provide a wide range of different types of audits, the approach to the engagement, and the labor resources available to meet the schedule. PwC is neither a small business nor a disadvantaged business enterprise and currently has no subcontractors.

The following table shows the collective final score average of the four proposers based on their proposals and interviews.

<b>Criteria</b>	<b>PwC</b>	<b>KPMG</b>	<b>Crowe Horwath</b>	<b>MGO</b>
Experience and qualification of firm and assigned staff (max 30 points)	28.2	28.2	26.7	23.3
Comprehensiveness and adequacy of detailed work plan (max 20 points)	19.7	18	15.1	12
Reasonableness of task hours (max 15 points)	12.3	12.7	11.3	8.7
Timetable for meeting deadlines (max 15 points)	14.2	13.8	11.3	8.6
Value-added expertise and experience (20 points)	17.7	18.3	18	16.5
<b>Total (Max 100 points)</b>	<b>92.1</b>	<b>91</b>	<b>82.4</b>	<b>69.1</b>

In the February 14, 2018 MTC Administration Committee meeting, PwC was recommended and selected to perform the audits for MTC and its affiliated entities. The firm has been involved in audit work with MTC since 1999.

The following are the estimated audit hours proposed by PwC to be performed for ABAG and its affiliated entities:

<b>Entities</b>	<b>2018</b>	<b>2019</b>
ABAG	1,380	1060
ABAG POWER	445	375
ABAG FAN	474	394
<b>TOTAL</b>	<b>2,299</b>	<b>1,829</b>

Neither MTC nor PwC have any direct experience auditing ABAG or its affiliated entities. We have learned through the transition that ABAG is not a low risk operation, with over \$90 million in active grants, an operational enterprise that buys and sells power, as well as an active financing conduit with over \$1.5 billion outstanding. As a result of this risk and complexity, the Committee will find the number of hours and costs significantly higher than in the past. The

## **Authorization to Enter into a Contract with PricewaterhouseCoopers**

March 8, 2018

Page 3

table above shows an estimated total audit hours of 2,299 for the first year audit, dropping by 470 hours (20%) the second year as we gain experience with the work and audit requirements. We estimate a total audit cost of \$402,325 with \$242,000 allocated to ABAG alone.

### **Recommended Action**

The ABAG Finance Committee is requested to recommend ABAG Executive Board authorization of the Executive Director of the Metropolitan Transportation Commission (MTC), or his designee, to negotiate and enter into a contract with PricewaterhouseCoopers, LLP (PwC) to perform annual fiscal audits of Association Bay Area Government (ABAG), ABAG Publicly Owned Energy Resources (ABAG POWER), and ABAG Finance Authority for Nonprofit Corporations (ABAG FAN). The contract would be for a five (5) year term beginning with fiscal years (FY) ending June 30, 2018 through June 30, 2022, with two (2) renewable one-year options through Fiscal Year 2023-2024, subject to annual budgetary approval.



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Steve Heminger

### **Attachment**

Summary Approval

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S U M M A R Y O F E X E C U T I V E B O A R D A P P R O V A L

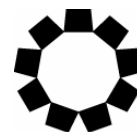
<b>Work Item No.:</b>	1750
<b>Consultant:</b>	PriceWaterhouseCoopers, LLP
<b>Work Project Title:</b>	Audit and Professional Services
<b>Purpose of Project:</b>	To obtain services of an independent auditor
<b>Brief Scope of Work:</b>	To perform a comprehensive fiscal and compliance audit of ABAG, ABAG FAN, and ABAG POWER
<b>Project Cost Not to Exceed:</b>	\$402,325
<b>Funding Source:</b>	ABAG - \$241,500/ ABAG FAN - \$77,875/ ABAG POWER - \$82,950
<b>Fiscal Impact:</b>	Funds are included in the FY 2017-18 Budget. Future fiscal year funding will be subject to budgetary approval.
<b>Motion by Committee:</b>	The ABAG Finance Committee is requested to recommend ABAG Executive Board authorization of the Executive Director, or his designated representative, to negotiate and enter into a contract with PricewaterhouseCoopers in an amount not to exceed \$402,325 to provide the annual Financial and Compliance audit services as described in the attached summary approval. The annual audit engagement will be for five (5) fiscal years. Staff will return to the ABAG Finance Committee and ABAG Executive Board annually to secure funds for each annual audit, based on continuing satisfactory service. The RFQ also permits two consecutive one-year options for a total of seven years.
<b>ABAG Executive Board Approval:</b>	David Rabbitt, ABAG President
<b>Approval Date:</b>	

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# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018  
To: ABAG Executive Board  
ABAG Finance Committee  
From: Executive Director  
Subject: **Proposed Modification of Membership Dues**

## **Executive Summary**

Staff requests that the Executive Board consider a modification of the membership dues for county membership in FY 2018-19.

## **Discussion:**

The current fee structure declines as agencies increase in population. The four tiers are:

	Population	\$/Capita
First	50,000	\$0.21
Second	50,000	\$0.20
Next	100,000	\$0.14
Above	200,000	\$0.10

The largest population agencies are the nine counties whose average rate per capita is \$0.11 and \$0.12 for fiscal 2018 and 2019, respectively. By comparison, the average city cost per capita is \$0.18 and \$0.19 for fiscal 2018 and 2019, respectively.

The Contract for Services in section 4.2 (a) states that ABAG “will make best efforts and adopt strategies to identify and secure any additional revenues” to help offset the cost Metropolitan Transportation Commission has inherited in transitioning the ABAG employees to MTC employment. As shown in the attached excerpt from MTC’s FY 2017-18 adopted budget, that extra cost amounts to approximately \$2 million on an annual basis. The additional cost consists primarily of higher salary rates for the transitioning employees and unfunded pension/OPEB liabilities. In the current budget year, MTC covered those costs with transfers from the toll program and agency reserves.

Part of the discussion on revenue enhancement during the transition was making the new ACFA financing conduit operational, which is in the works. Staff believes another and more immediate

## **Proposed Modification of Membership Dues**

March 8, 2018

Page 2

option is to modify the dues calculation for counties. Changing the calculation to a flat rate of \$0.19 will generate an additional \$525,000 in new revenue. This option is simple, direct, immediately available and also puts counties at the same average cost per capita as the current average city cost. A detailed schedule depicting the financial report by county is attached.

Any change to the current dues structure requires approval by both the Executive Board and General Assembly (GA). If the Executive Board agrees to recommend this proposed change to the GA in May, it is ABAG's prerogative as to how it wishes to dispose of the new revenue. If ABAG were to transfer the \$525,000 in new revenue to MTC, it would represent a significant "good faith" down payment on the staff consolidation costs described above. If the Executive Board recommends this course of action, it will need to direct staff to adjust ABAG's draft FY 2018-19 budget accordingly to reflect the transfer to MTC.



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Steve Heminger

### **Attachment**

Proposed Modification Membership Dues—County  
Excerpt from MTC's FY 2017-18 Adopted Budget

Attachment

Proposed Modification Membership Dues—County

	Population 2019	Current Charge 2018	Population Charge 2019	Flat Fee	Total Dues 2019	Change	County Rate	Change
				\$ 782			\$ 0.19	
Alameda	1,645,359	167,209	\$ 177,856	\$ 782	\$ 178,637	\$ 11,428	\$ 304,848	\$ 126,210
Contra Costa	1,139,513	120,271	127,715	782	128,496	8,225	211,126	82,630
Marin	263,604	39,711	40,892	782	41,673	1,962	48,840	7,166
Napa	142,408	26,132	26,619	782	27,401	1,269	26,385	(1,016)
San Francisco	874,228	95,711	101,419	782	102,200	6,489	161,975	59,774
San Mateo	770,203	86,883	91,107	782	91,889	5,006	142,701	50,812
Santa Clara	1,938,180	195,377	206,881	782	207,662	12,285	359,101	151,438
Solano	436,023	55,994	57,982	782	58,764	2,770	80,785	22,021
Sonoma	505,120	62,362	64,832	782	65,613	3,251	93,587	27,974
County Total	7,714,638	\$ 849,650	\$ 895,302	\$ 7,035	\$ 902,337	\$ 52,687	\$ 1,429,347	\$ 527,010
Cities	6,960,160	\$ 1,213,921	\$ 1,211,392	\$ 78,168	\$ 1,289,559	\$ 75,638	\$ 1,289,559	\$ -
Total	7,714,638	\$ 2,063,571	\$ 2,106,693	\$ 85,203	\$ 2,191,896	\$ 128,325	\$ 2,718,906	\$ 527,010

- 14 Finance, Technology and Administrative Services employees - \$1.8 million.

### **Other Expenses**

Other Expenses increased by \$2.9 million:

- \$1.6 million increase in general operations due to ABAG staff consolidation.
- \$200,000 increase in travel and printing due to ABAG staff consolidation.
- \$1.1 million increase in computer services. Of that, \$342,000 is related to the ABAG staff consolidation and \$758,000 is due to software licenses, hosted services and computer hardware.

### **Multi-Year Federal Grants**

Approximately \$155 million in new STP grants and \$106 million in new CMAQ grants for multiple programs will be added in FY 2017-18 bringing the total grant program under management to \$317 million. Grants are budgeted on a life-to-date basis and as such only the new funding is subject to the annual budget approval process. The life-to-date budget for the multi-year federal grants is included in Attachment B.

### **Capital Projects**

Capital projects are also budgeted on a life-to-date basis. The proposed FY 2017-18 budget includes capital expenditures of \$200,000 for improved records management. The Hub Signage capital budget will increase by \$1.1 million to reflect the work related to the Real Time Sign Enhancement.

### **Clipper<sup>®</sup>**

Clipper<sup>®</sup> is an Enterprise Fund operated by MTC. The Clipper<sup>®</sup> operating and capital budgets for FY 2017-18 are shown in Attachment C. However, as an enterprise, Clipper<sup>®</sup>'s revenues and expenses do not flow through MTC.

The Clipper<sup>®</sup> operating expenses are projected to be \$32.4 million:

- \$28.2 million for Clipper<sup>®</sup> operations
- \$1.4 million for staff costs
- \$2.8 million for customer outreach/education

Total life-to-date Clipper<sup>®</sup> capital program budget of \$267 million will increase by \$2.5 million in FY 2017-18.

### **MTC/ABAG Staff Consolidation – Financial Consequences**

As previously shared with the Commission as part of the financial due diligence, the MTC/ABAG staff consolidation is not without financial consequences for MTC. Table 3 on the following page summarizes the FY2017-18 budget impact. The financial result of the MTC budget before including the ABAG costs was a small net surplus of roughly \$225,000. After including the full ABAG consolidation staff costs, the budget shows a deficit of just under \$770,000 - a swing of nearly \$1 million. It is important to note that the deficit would have been closer to \$2.4 million if

not for two important mitigations: 1) the savings associated with management redundancies (\$0.6 million) and 2) the transfer of toll funding to cover the overhead costs for the San Francisco Estuary Program (\$1.1 million).

Table 3

	MTC	ABAG	Total
<b>Revenues</b>			
TDA (Sales tax)	\$ 11,950,000	\$ 1,300,000	\$ 13,250,000
Interest/Other	530,000	0	530,000
Planning grants	9,980,033	1,372,716	11,352,749
Transfers	17,905,925	5,854,947	23,760,872
State & Local Funding	4,980,850	0	4,980,850
<b>Total Operating Revenue</b>	<b>\$ 45,346,809</b>	<b>\$ 8,527,663</b>	<b>\$ 53,874,472</b>
<b>Expenses</b>			
Salaries/ Benefits	\$ 23,509,719	\$ 5,632,953	\$ 29,142,672
Other Expenses	5,964,531	1,817,495	7,782,026
<b>Ops Subtotal</b>	<b>29,474,250</b>	<b>7,450,448</b>	<b>36,924,698</b>
Contractual	15,647,340	2,068,166	17,715,506
<b>Total Operating Expense</b>	<b>\$ 45,121,590</b>	<b>\$ 9,518,614</b>	<b>\$ 54,640,204</b>
<b>Surplus/Deficit</b>	<b>\$ 225,219</b>	<b>\$ (990,951)</b>	<b>\$ (765,732)</b>

**Budget Uncertainties**

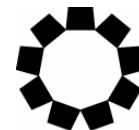
The FY 2017-18 budget makes assumptions about two issues of uncertainty that are atypical of past MTC budgets. The first has been the source of much discussion – the long-term financial effects on MTC and ABAG of the implementation of MTC Resolution 4210, which would integrate the ABAG staff within MTC. The second issue is the long-term effects of the CalPERS rate adjustments. A bit more detail is provided below on these topics.

- *MTC/ABAG Future Relationship:* With the signing of the ABAG CS, Resolution 4210 is fully established. There is still remaining longer-term uncertainty about the financial effects of the ABAG staff consolidation. As MTC begins its post consolidation operations, it will have to obtain a new actuary report, new CalPERS information for the additional new employees, and review the current and future grant and contract agreements. This could result in changes to the retirement and OPEB liability for the consolidated staff structure under MTC.
- *CALPERS Retirement Rates:* The second uncertainty lies with the future of CalPERS retirement rates. Agencies have been provided information on the impact of lowering the discount rate from 7.5% to 7.0% over a three-year period effective July 1, 2018. After the three-year ramp-up, MTC's normal costs will increase by up to 3% annually and the unfunded actuarial liability would go up 3%, 3%, and 9% during the three-year ramp-up. After three years, the unfunded actuarial liability will go up by 5% annually. There is no

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# ASSOCIATION OF BAY AREA GOVERNMENTS

Representing City and County Governments of the San Francisco Bay Area



**ABAG**

Date: March 8, 2018  
To: ABAG Executive Board  
From: Executive Director  
Subject: **CASA—The Committee to House the Bay Area**

## **Background**

Plan Bay Area 2040, the region's long-range transportation and land use plan adopted in 2017 by the MTC Commission and ABAG Executive Board, projects that the region will grow by 2.4 million more people, 820,000 new households and 1.3 million new jobs by the year 2040. The plan makes aggressive assumptions about policy interventions and strategies to help accommodate this growth, but falls short on a number of key performance measures including affordable housing, access to jobs, displacement risk, and housing and transportation affordability.

Plan Bay Area 2040 therefore includes an Action Plan that lays out strategies to address these regional challenges. One of the commitments included in the Action Plan is to convene a blue-ribbon committee that will focus on finding game-changing solutions to the region's housing crisis.

## **Overview**

CASA includes leaders from across the Bay Area who will build actionable political consensus around (1) increasing housing production at all levels of affordability, (2) preserving existing affordable housing, and (3) protecting vulnerable populations from housing instability and displacement.

CASA is being led by three Co-Chairs: Fred Blackwell (The San Francisco Foundation), Leslye Corsiglia (Silicon Valley at Home) and Michael Covarrubias (TMG Partners). It is structured around a Steering Committee and Technical Committee composed of elected officials, thought leaders and policy experts from across the region. The CASA effort is supported by the consolidated planning staff and a team of consultants.

**CASA—The Committee to House the Bay Area**

March 8, 2018

2

From summer 2017 through the end of 2018, CASA will engage a broad range of stakeholders to develop a suite of legislative, financial, policy and regulatory recommendations that together form the region's housing implementation strategy, with a final deliverable slated for release in early 2019.

**Recommended Action**

Information.



Steve Heminger

**Attachments**

Presentation





# The Committee to House the Bay Area

**ABAG Executive Board Meeting**  
March 15<sup>th</sup>, 2018

Ken Kirkey, Planning Director

# Plan Bay Area 2040

1. Performance on housing affordability and displacement indicators
2. Action Plan, adopted in 2017 w/ PBA 2040
3. Blue-ribbon committee to find “game-changing” solutions

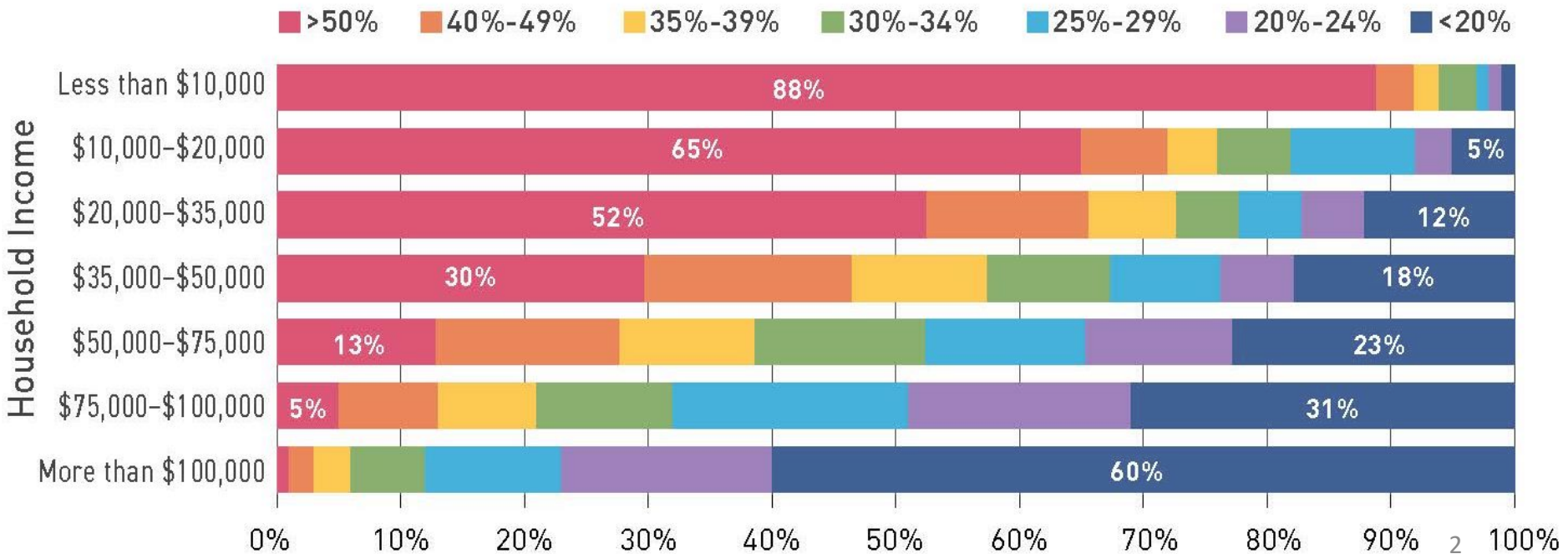


FIGURE 1.4 Share of income spent on housing by Bay Area households in 2015, segmented by income level.

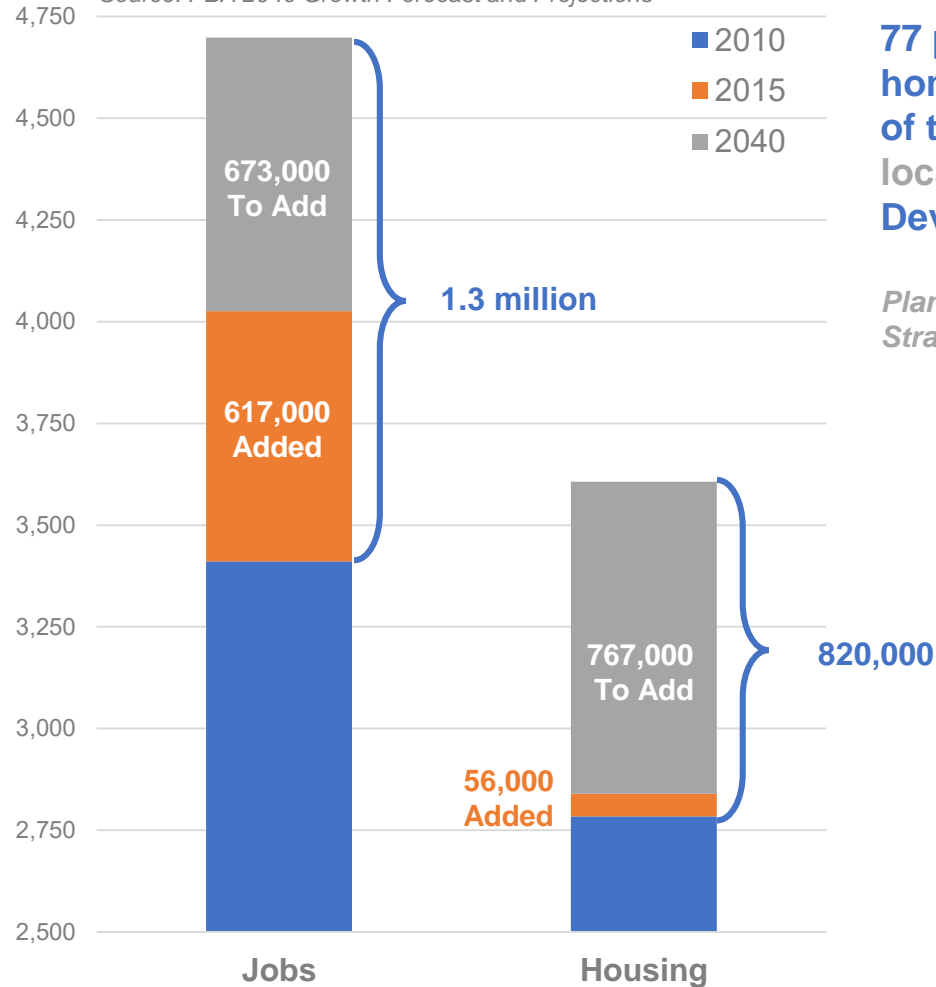
# Magnitude of the Undertaking

## Job and Housing Growth and Projections, Bay Area 2010, 2015, 2040

- A. PBA 2040 projects the region will add 1.3 million new jobs between 2010 and 2040.
- B. PBA 2040 also projects that the region will add 820,000 new homes in that time.
- C. By 2015, the region added almost half that projected job growth, or 617,000 of the 1.3 million jobs.
- D. By comparison, the region added only 56,000 new homes between 2010 and 2015, or 7 percent of the total projected for 2040.

## Jobs and Housing Growth and Projections, Bay Area, 2010-2040

Source: PBA 2040 Growth Forecast and Projections



**77 percent of the new homes and 55 percent of the new jobs will be located in Priority Development Areas.**

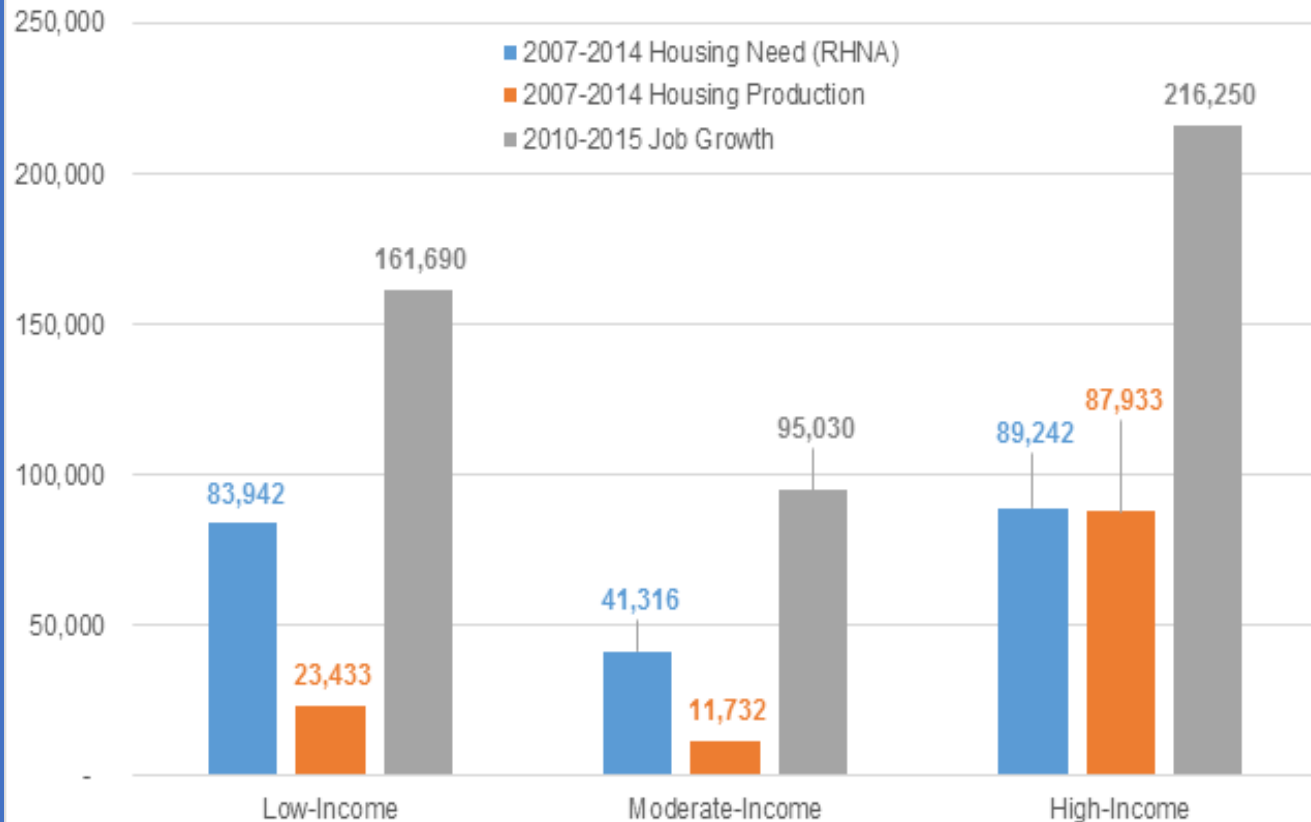
*Plan Bay Area 2040 Growth Strategy, 2010-2040*

# Magnitude of the Undertaking

## Housing and Population Growth in the Bay Area

- A. Jobs and population growth is anticipated to outpace housing production.
- B. Estimates of funding needed to build a sufficient number of deed-restricted affordable units range from \$1 billion to \$3 billion annually.

## Jobs Growth and Housing Production, Bay Area



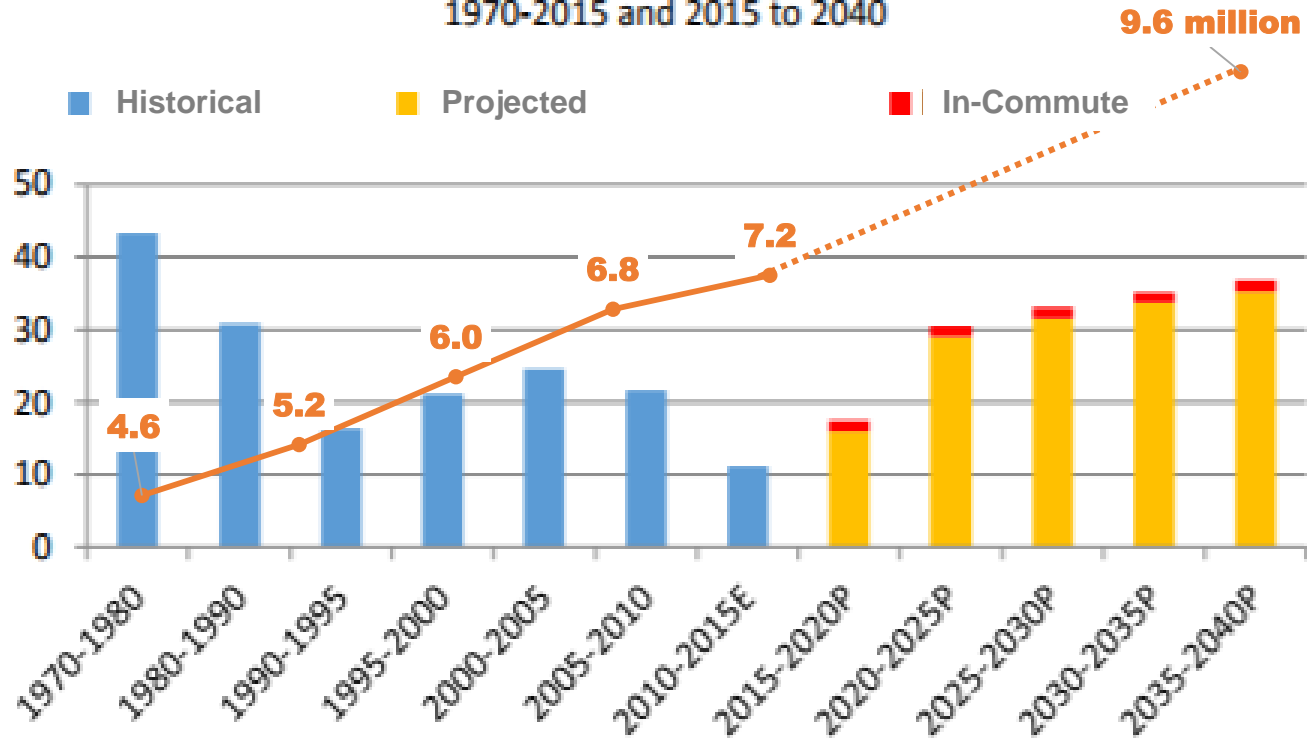
Source: MTC/ABAG compilation of data

# Magnitude of the Undertaking

## Housing and Population Growth in the Bay Area

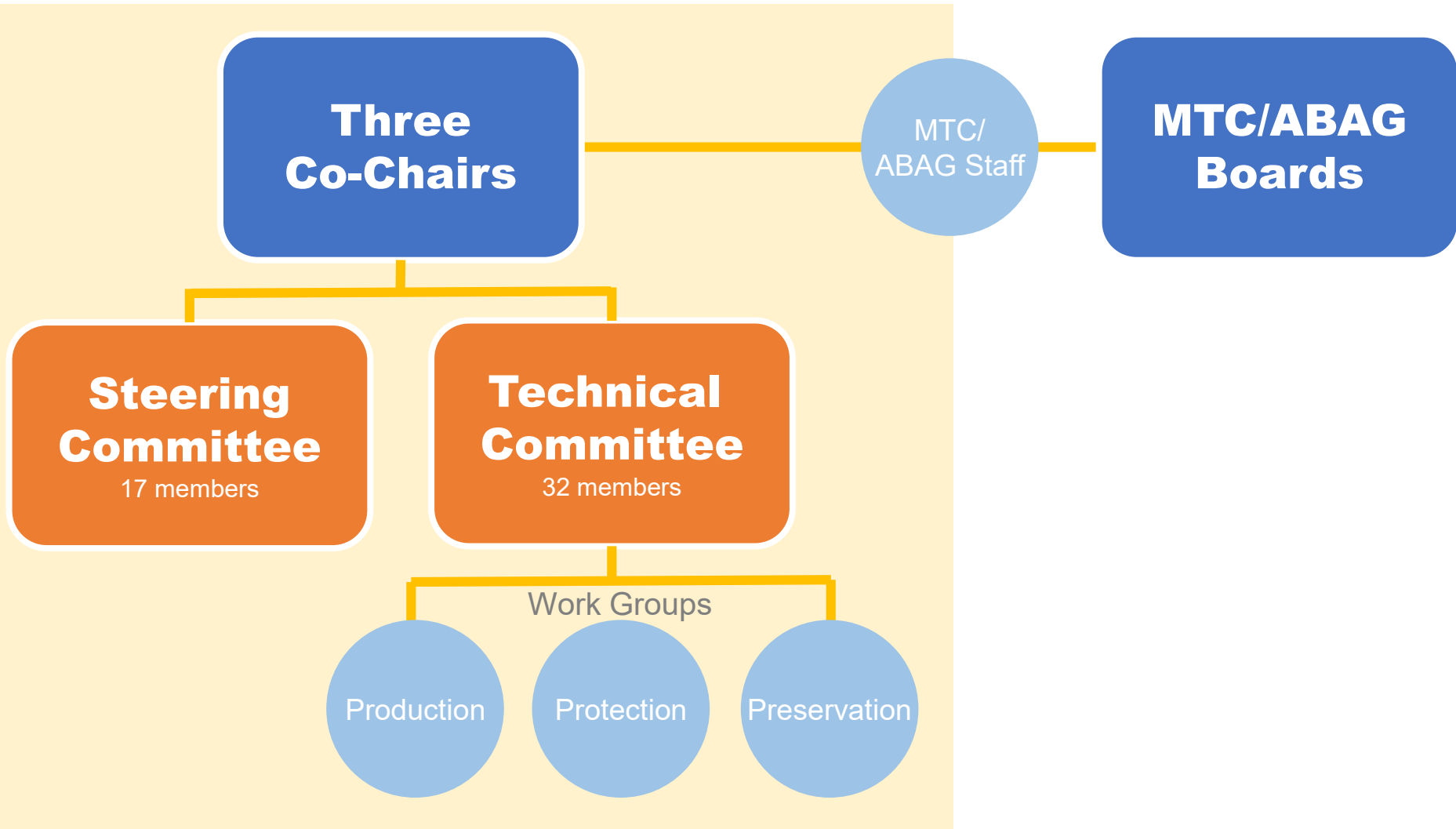
- A. The region's population was 4.6 million in 1970 and is projected to grow to 9.6 million by 2040.
- B. PBA 2040 projects the region will ramp up to building 35,000 homes per year between 2030 and 2040.
- C. Between 2000 and 2015, the region built an average of 18,000 homes annually.
- D. By comparison, the region built 42,000 new homes annually between 1970 and 1980.

### Annual Housing Production, Historic and Projected 1970-2015 and 2015 to 2040



Source: US Census Bureau, CA Department of Finance, MTC/ABAG

# CASA Organizational Structure



# CASA Compact Framework



*Regulatory Relief*



*Policy Toolkit*



*Funding /Resources*



*State Legislation*



*Outreach /Engagement*

**Production**

**Preservation**

**Protection**

# Key Elements of the CASA Compact

(from the January 2018 CASA Steering Committee Meeting Packet)

## Tenant Protection

1. Permanent anti-gouging rent cap
2. Stronger just cause requirements for evictions
3. Tenants' right to counsel
4. Address Costa-Hawkins

## Production (market-rate and affordable)

8. Housing opportunities in more neighborhoods (especially high-opportunity neighborhoods)
9. Cost reduction (from codes, fees, regulations, and review process) and offsets for fees
10. Housing production incentives for jurisdictions
11. Building permit approval time limited to 2 years max.

## Preservation

5. Notification system for expiring deed-restrictions
6. Housing preservation fund
7. One-to-one replacement of units

## Production of Affordable Housing

12. Affordable housing fund (w/ regional or local sources)
13. Policy tools for building more housing (supply-side strategies)
14. Public and surplus land for affordable housing
15. Enforcement of state surplus land laws



# Local Jurisdiction Engagement

## Survey (April)

- Input from elected officials and staff
- Local jurisdiction perspective on:
  - Barriers and challenges related to housing (i.e., funding, market strength)
  - Effectiveness of existing programs (i.e., OBAG)
  - Resources needed to accelerate compliance with state housing laws

## Advisory Group (Ongoing)

- Input from elected officials
- *Membership* – elected officials on Steering Committee and chairs of RPC and RPC-Housing Sub-Committee

## Open Houses (June)

- Listening sessions hosted by mayors in the cities of San Jose, San Francisco, Oakland and Santa Rosa

## Meetings (Ongoing)

- ABAG Executive Board (starting with March 15, 2018)
- Bi-annual BAPDA meetings
- Monthly meetings of planning directors in each county

# Key Milestones

An aerial photograph of a mountainous region, likely in the Sierra Nevada mountains. The terrain is rugged and covered in dense evergreen forests. A winding road or path is visible, leading through the mountains. A large, light-colored lake or reservoir is situated in a valley, surrounded by steep slopes. The overall scene is a mix of natural beauty and human infrastructure.

Spring 2018

**Prioritize Strategies**

Summer

**Negotiate Details**

Fall

**Broader Outreach**

Winter 2018 Onwards

**Implementation**

*For more information:*

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[www.mtc.ca.gov/casa](http://www.mtc.ca.gov/casa)