

**TRANSPORTATION-AIR QUALITY CONFORMITY ANALYSIS
FOR THE
TRANSPORTATION 2035 PLAN &
2011 TRANSPORTATION IMPROVEMENT PROGRAM**

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I. INTRODUCTION

The Metropolitan Transportation Commission (MTC) prepares a transportation air quality conformity analysis when MTC amends or updates its long-range regional transportation plan (RTP), or adds or deletes regionally significant, non-exempt projects into the Transportation Improvement Program (TIP).

The purpose of this conformity analysis is to conform the Transportation 2035 Plan and 2011 Transportation Improvement Program 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 national 8-hour ozone standard, national carbon monoxide standard, and for the first-time, the national 24-hour fine particulate matter (PM_{2.5}) standard.

This report explains the basis for the conformity analysis and provides the results used by MTC to make a positive conformity finding on the Transportation 2035 Plan and 2011 TIP.

Purpose of Conformity Analysis

The 1990 Clean Air Act Amendments (CAAA) outlines requirements for ensuring that federal transportation plans, programs and projects are consistent with (“conform to”) the purpose of the State Implementation Plan (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 RTP or 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 nonattainment and maintenance areas for transportation-related criteria pollutants and precursor pollutants for which the area is designated nonattainment or maintenance area. For the Bay Area, the criteria pollutant to be addressed is ground-level ozone, carbon monoxide, and PM_{2.5} and the precursor pollutants to be addressed include volatile organic compounds (VOC) and oxides of nitrogen (NO_x) for ozone and NO_x for PM_{2.5}. The latest EPA published transportation conformity regulations to implement the 1990 California Clean Air Act section 175A is dated March 2010¹.

Metropolitan Planning Organizations such as MTC are required to adopt and follow these regulations. In the Bay Area, the 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

¹ See EPA Transportation Conformity Regulations (Updated March 2010) at <http://www.epa.gov/otaq/stateresources/transconf/regs/420b10006.pdf>

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 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 (officially titled the State Implementation Plan, or SIP). "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 and program.

Status of Regional Transportation Plan

A Regional Transportation Plan, or RTP, is a long-range plan which includes both long-range and short-range strategies/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. By federal law, 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. The RTP is financially constrained to the projected transportation revenues that will be reasonably available to the region over the planning period. Once adopted, the RTP guides the development of the TIP for the region.

The latest conforming RTP is the *Transportation 2035 Plan: Change in Motion*. The Transportation 2035 Plan represents a strategic investment plan to improve asset condition and system performance for Bay Area travelers over the next 25 years and includes a set of highway, transit, local roadway, bicycle, and pedestrian projects identified through regional and local transportation planning processes. As required by federal and state planning regulations, the long-range plan is financially constrained, identifying investments that are funded within the \$218 billion 25-year revenue estimate.

The Commission adopted the Transportation 2035 Plan in April 2009 (MTC Resolution 3893). The FHWA and FTA approved MTC's conformity determination for the Transportation 2035 Plan and 2009 Transportation Improvement Program/Amendment #09-06 on May 29, 2009. The Transportation 2035 Plan was subsequently amended on May 25, 2010 via an administrative modification. This administrative modification did not trigger a

new conformity determination because there are no changes to project scopes for projects previously identified in the plan and no additions of regionally significant, non-exempt projects to the plan.

This conformity analysis serves to re-conform the Transportation 2035 Plan, particularly with regards to its conformance with the national PM_{2.5} standard.

Refer to **Appendix A** for detailed project listing of projects/programs included in the proposed Transportation 2035 Plan. See MTC's Transportation 2035 Plan (April 2009) for full details about the plan².

Status of Transportation Improvement Program

The federally required Transportation Improvement Program, or TIP, is a comprehensive listing of Bay Area surface transportation projects that receive federal funds or are subject to a federally required action, or are considered regionally significant for air quality conformity purposes. MTC prepares and adopts the TIP every two years. The TIP must cover at least a four-year period and contain a priority list of projects grouped by year. The TIP is also financially constrained – meaning that the amount of funding programmed does not exceed the amount of funding reasonably expected to be available. Adoption of the TIP must be accompanied by an air quality conformity analysis and finding, and all projects included in the TIP must be derived from and/or be consistent with the RTP. Whenever a new RTP is adopted, a new air quality conformity analysis must be prepared for the TIP, to ensure consistency between the current Plan (RTP) and Program (TIP).

The latest conforming TIP is the 2009 TIP adopted by the Commission on May 28, 2008 (MTC Resolution No. 3875), and approved by the FHWA and FTA on November 17, 2008. The current 2009 TIP covers the four-year period from FY 2008-09 through FY 2011-12, and contains approximately 1,100 projects totaling about \$13 billion dollars. The 2009 TIP has undergone a number of administrative modifications and amendments. The last amendment that triggered a conformity analysis was TIP Amendment #09-06. This amendment added new sales tax projects, reconciled State Transportation Improvement Program (STIP) projects, and added or deleted other exempt and non-exempt projects consistent with the new Transportation 2035 Plan. The FHWA and FTA approved MTC's conformity determination for the Transportation 2035 Plan and 2009 Transportation Improvement Program/ Amendment #09-06 on May 29, 2009.

MTC has prepared the 2011 TIP, which covers FY 2010-11 through FY 2013-14. The 2011 TIP does not include any new regionally significant projects beyond those included in the Transportation 2035 Plan. This conformity analysis serves to conform the 2011 TIP.

² See MTC's *Transportation 2035 Plan: Change in Motion* (April 2009) at: http://www.mtc.ca.gov/planning/2035_plan/index.htm

Refer to **Appendix B** for detailed project listing of projects/programs in the 2011 TIP. Note that specific funding sources are identified in the TIP itself. See MTC's 2011 TIP for full details about the TIP.

II. BAY AREA AIR POLLUTANT DESIGNATIONS

National 1-Hour Ozone Standard

On November 6, 1991, the U.S. Environmental Protection Agency (EPA) designated the Bay Area as a moderate ozone non-attainment area. Based on "clean" air monitoring data from 1990 to 1993, the co-lead agencies—BAAQMD, MTC, and ABAG—determined that no ozone violations had occurred and requested the California Air Resources Board (ARB) to forward a redesignation request and an ozone maintenance plan to U.S. EPA.

On May 25, 1995, the Bay Area was classified as an ozone maintenance area, having attained the 1-hour national ozone standard for five years (1990-1994). However, on July 10, 1998 the U.S. EPA published a Notice of Final Rulemaking redesignating the Bay Area back to an ozone non-attainment (unclassified) area. This action was due to violations of the 1-hour standard that occurred during the summers of 1995 and 1996, and became final on August 10, 1998.

On October 31, 2003, U.S. EPA proposed a finding of attainment of the national 1-hour ozone standard for the Bay Area. The proposed finding was based on air quality monitoring data from the 2001, 2002, and 2003 ozone seasons. In April 2004, U.S. EPA made a final finding that the Bay Area had attained the national 1-hour ozone standard. Because of this finding, some of the elements of the 2001 Ozone Attainment Plan, submitted to EPA to demonstrate attainment of the 1-hour standard, were suspended. The finding of attainment did not mean the Bay Area had been reclassified as an attainment area for the 1-hour standard. To be reclassified, the region would have had to submit a formal redesignation request to EPA, along with a maintenance plan showing how the region would continue to attain the standard for ten years. However, this redesignation request was no longer necessary upon the establishment of the new national 8-hour ozone standard.

On April 15, 2004, EPA issued the first phase of the final implementation rule designating and classifying areas not meeting the federal 8-hour ozone standard. This phase of the implementation rule explained how EPA was classifying areas not meeting the national air quality standard for 8-hour ozone. It also established a process for transitioning from implementing the 1-hour standard for ozone to implementing the more protective 8-hour ozone standard. The rule also established attainment dates for the 8-hour standard and the timing of emissions reductions needed for attainment. The 8-hour designations and classifications took effect on June 15, 2004; and one year following this effective date, EPA revoked the 1-hour standard.

National 8-Hour Ozone Standard

In July 1997, U.S. EPA revised the ozone standard, setting it to 0.08 parts per million in concentration-based form, specifically 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. The Bay Area monitoring stations recorded concentrations that exceeded the national 8-hour ozone standard for 2001, 2002 and 2003. 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. Marginal, non-attainment areas must attain the national 8-hour ozone standard by June 15, 2007.

On July 1, 2004, EPA published a final rule amending the transportation conformity rule to address the new national 8-hour ozone standard. The amended rule stated that Plans and TIPs in nonattainment areas must be found to conform against the new standard by one year after the effective date of designation – by June 15, 2005 for 8-hour ozone areas. Conformity for the 1-hour ozone standard will no longer apply in existing 1-hour ozone nonattainment and maintenance areas once the 1-hour ozone standard is revoked; this occurred on June 15, 2005. Furthermore, prior to 8-hour budgets being established, all areas with adequate or approved 1-hour motor vehicle emission budgets must use them to demonstrate conformity with the 8-hour ozone standard, unless it is determined through interagency consultation that using the interim emissions tests is more appropriate. The conformity finding in this report is based on the approved 1-hour motor vehicle emissions budget.

In March 2008, EPA lowered the national 8-hour ozone standard from 0.80 parts per million to 0.75 parts per million. On March 12, 2009, ARB 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 ARB recommended that the Bay Area be designated as nonattainment 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 were to issue final designations by March 12, 2010 based on more recent monitoring data.

On January 6, 2010, the EPA extended the deadline for designating areas for the March 2008 national ambient air quality standards (NAAQS) for ground-level ozone. This was in light of EPA’s decision to reconsider the ground-level ozone standards set in 2008 because the Clean Air Scientific Advisory Committee, EPA’s panel of science advisors, found the ozone standards not as protective to the health and welfare of the public as recommended. Based on the scientific studies, EPA proposed to set different primary and secondary 8-hour ozone standards to protect public health. EPA intends to complete this reconsideration of the 2008 ozone NAAQS by August 31, 2010. To date, the deadline to complete designations is set for March 12, 2011 to allow EPA to conclude its reconsideration of the 2008 national 8-hour ozone standard before determining whether designations for those standards are necessary.

National 8-Hour Carbon Monoxide Standard

In April 1998, the Bay Area was redesignated 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.

National PM_{2.5} 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, which 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_{2.5}) and particulate matter 10 (PM₁₀).

In 2006 the EPA revised the air quality standards for particle pollution. Regulations for PM_{2.5} were tightened for the 24-hour fine particle standard, which lowered the level from 65 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to 35 $\mu\text{g}/\text{m}^3$. The annual fine particle standard at 15 $\mu\text{g}/\text{m}^3$ remained the same. In that same year, the EPA published a final ruling which established transportation conformity criteria and procedures to determine transportation projects that required analysis for local air quality impacts for PM_{2.5} in non-attainment and maintenance areas. From the 2006 revision, EPA had to complete designations of nonattainment areas by December 2009 for national standard for PM_{2.5}. The newly established criteria and procedures require those area designated as nonattainment areas must undergo a regional conformity analysis for PM_{2.5}. Furthermore, the procedures also mandates areas designated as nonattainment must complete an additional project-level PM_{2.5} hot-spot analysis of localized impacts for transportation projects of air quality concern.

On December 14, 2009, EPA designated the Bay Area as nonattainment for the national 24-hour PM_{2.5} 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 is subject to the following requirements:

- Beginning on December 14, 2010, MTC must demonstrate that the RTP and Transportation Improvement Program TIP conform to the SIP.
- Beginning on December 14, 2010, certain roadway and transit projects that involve significant levels of diesel vehicle traffic must prepare PM_{2.5} hot-spot analyses.
- By December 14, 2012, the BAAQMD, in partnership with MTC and ABAG, must prepare a SIP outlining how the region will attain and maintain the standard by reducing air pollutant emissions contributing to fine particle concentrations.

Approved Motor Vehicle Emissions Budgets

The Bay Area has conformity requirements for national ozone, CO, and PM_{2.5} standards. Under these requirements, the Bay Area has to meet a motor vehicle emission “budget” test. To make a positive conformity finding, MTC must demonstrate that the calculated motor vehicle emissions in the region are lower than the approved budgets.

For the ozone precursor emissions Volatile Organic Compounds (VOC), Nitrogen Oxides (NOX), the applicable motor vehicle emissions budget was developed for the 2006 attainment year as part of the 2001 Ozone Attainment Plan and was subsequently approved by EPA. Note that under EPA’s conformity rule for the national 8-hour ozone standard, the existing 1-hour motor vehicle emission budget is to be used for conformity analyses until it is replaced by another budget.

For CO, the applicable 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 motor vehicle emission budgets are listed below:

VOC:	164 tons per day (2006 and beyond)
NOx:	270.3 tons per day (2006 and beyond)
CO:	1,850 tons per day (2003 and beyond)

For PM_{2.5}, the Bay Area is required to prepare a SIP by December 2012. Since an approved motor vehicle emissions budget for PM_{2.5} is not yet available for use in a budget test, MTC must complete one of the two interim emissions tests: (1) the build-no-greater-than-no-build test (“build/no build test”) or (2) the no-greater-than-baseline-year emissions test (“baseline year test”). Per the interagency consultation via the Air Quality Conformity Task Force meeting dated January 28, 2010, MTC elects to use the build/no build test. In this test, conformity would be demonstrated if in each analysis year, the transportation emissions reflected the RTP or TIP (the “build” scenario) were less than or equal to emissions from the transportation system that would result from current programs (the “baseline scenario” or “no build” scenario).

The analysis years for the budget and build/no build tests are to be a year within five years of the date the analysis is being done, the last year of the RTP, and intermediate years as necessary so that analysis years are not more than 10 years apart. For this conformity analysis, the analysis years are 2015, 2025, and 2035 for ozone and PM_{2.5}. For CO, the analysis years are 2015, 2018, 2025, and 2035. Travel forecast data for year 2018 were interpolated between 2015 and 2025. MTC has prepared separate travel forecasts for the Bay Area for each of these years. These travel forecasts are then used to calculate motor vehicle emissions.

III. CONFORMITY ANALYSIS & RESULTS

Approach to Conformity Analysis

MTC has used the latest planning assumptions for the purpose of preparing this conformity analysis. Regional on-road motor vehicle emissions for future years are estimated using MTC's travel demand forecast model (BAYCAST-90), which estimates vehicle activity in the Bay Area, in conjunction with the ARB's latest model for determining motor vehicle emissions (EMFAC2007, Version 2.3).

The MTC travel demand model requires various inputs – demographic assumptions, pricing assumptions, travel behavior assumptions and highway and transit network assumptions. This conformity analysis uses the latest socio-economic/land use forecast series *Projections 2009* developed and adopted by ABAG in March 2009 and the latest validated version of the MTC travel demand model (BAYCAST-90).

In addition, pricing assumptions 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. Highway and transit networks were updated for each analysis year to reflect investments in the proposed Transportation 2035 Plan (see Appendix A) and 2011 TIP (see Appendix B).

Regional VMT and engine starts (which are needed for emission calculations) are forecasted using a combination of output from MTC's travel demand forecasting model and base year (2000) VMT information provided by the ARB. For conformity purposes, MTC agreed to follow ARB's protocol for estimating VMT.

Refer to **Appendix C** for detailed travel and air quality modeling assumptions used in this conformity analysis.

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 U.S. EPA, ARB, FHWA, FTA, Caltrans, MTC, BAAQMD, ABAG, the nine county Congestion Management Agencies, and Bay Area transit operators. The Conformity Task Force reviews the assumptions going into the analysis, consults on TCM implementation issues, and reviews the results of the conformity analysis. The task force meetings are open to the public and are regularly attended by interested members of the public. Topics covered in past meetings of the Air Quality Conformity Task Force include the following:

January 2010

- Draft Bay Area Interagency Consultation Procedures for Fine Particulate Matter (PM_{2.5}) Hot-Spot Analyses
- Proposed Approach to Conformity Analysis for the 2011 Transportation Improvement Program, including PM_{2.5} Conformity
- Air Quality Updates

July 2010

- Review of Administrative Draft Conformity Analysis for the Transportation 2035 Plan and 2011 Transportation Improvement Program
- Air Quality Updates

Comparison of Motor Vehicle Emissions To Budgets

As explained earlier, motor vehicle emissions budgets are established in the SIP for VOCs, NO_x and carbon monoxide (CO). To make a positive conformity finding, the regional motor vehicle emissions must be equal to or less than these budgets. The results of the vehicle activity forecasts and motor vehicle emission calculations are shown below for each separate analysis year. For VOC and NO_x, the 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_x 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	<u>(0.5)</u>
2006 Emissions Budget	164.0
NO_x	
2006 On Road Motor Vehicle Emissions	271.0
2006 TCM Benefits	<u>(0.7)</u>
2006 Emissions Budget	270.3

**TABLE 2
 VEHICLE ACTIVITY FORECASTS**

	2015	2025	2035
VEHICLES IN USE	5,188,500	5,843,400	6,323,000
Daily VMT (1000s)	165,000	183,600	198,200
Engine Starts	34,401,600	38,428,400	41,477,100

Carbon Monoxide Maintenance Plan Budget

The budget for carbon monoxide 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 Motor Vehicle Emissions to the Budget

The motor vehicle activity forecasts for the Transportation 2035 Plan and 2011 TIP for the various horizon years are converted to motor vehicle emission estimates by MTC using EMFAC2007.

Table 3A and 3B compares the results of the various analyses with the applicable budgets. The analyses indicate that the motor vehicle emissions are substantially below the budget, due in large part to recent improvements in ARB’s latest EMFAC model which reflect the effects of cleaner vehicles in the California fleet and the enhanced Smog Check program now in effect in the Bay Area. With respect to the new Maintenance Plan motor vehicle emission budget for CO, Table 3B shows that calculated motor vehicle emissions will be well below the new budget of 1,850 tons per day in 2018 as well.

The estimated effectiveness of the various Transportation Control Measures, given their current implementation status is shown in Table 4. 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_x by 2006.

**TABLE 3A
 EMISSIONS BUDGET COMPARISONS FOR OZONE PRECUSORS
 (TONS/DAY)***

Year	VOC Budget**	On-Road Motor Vehicles VOC	TCMs***	Net Emissions
2015	164.0	69.08	(0.3)	68.78
2025	164.0	46.98	(0.3)	46.68
2035	164.0	35.19	(0.3)	34.89

Year	NO_x Budget*	On-Road Motor Vehicles NO_x	TCMs**	Net Emissions
2015	270.3	103.07	(0.5)	102.57
2025	270.3	59.96	(0.5)	59.46
2035	270.3	40.80	(0.5)	40.30

*Emissions for summertime and wintertime

**2001 Ozone Attainment Plan

***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_x emission inventories for 2006 and beyond.

**TABLE 3B
 EMISSIONS BUDGET COMPARISONS FOR CARBON MONOXIDE
 (TONS/DAY)***

Year	2004 CO Budget**	Estimated CO
2015	1,850	581.84
2018	1,850	506.63***
2025	1,850	331.15
2035	1,850	252.99

*Emissions for summertime and wintertime

**2004 Revision to the California State Implementation Plan for Carbon Monoxide, Updated Maintenance Plan for 10 Federal Planning Areas

***Estimated CO emissions for 2018 is extrapolated from the 2015 and 2025 analysis years.

**TABLE 4
 EMISSIONS REDUCTIONS FOR TRANSPORTATION CONTROL MEASURES (TCMS) A – E IN
 STATE IMPLEMENTATION PLAN THROUGH DECEMBER 2006 (TONS PER DAY)**

TCM	VOC Emission Reductions through December 2006	NO _x 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
Total Reductions	0.5	0.7

Build/No Build Emissions Test for PM_{2.5}

In the Build/No Build test, the motor vehicle emissions from the RTP and TIP (Build scenario) must be less than or equal to emissions from the transportation system based on current programs (No Build scenario) to demonstrate conformity.

The motor vehicle activity forecasts for the Transportation 2035 Plan and 2011 TIP for the No Build and Build scenarios across the various horizon years are shown in Table 5. These forecasts are converted to motor vehicle emission estimates by MTC using EMFAC2007.

Table 6 presents the results of the Build No/Build test for the PM_{2.5} emissions and the NO_x precursor. The analyses indicate that the motor vehicle emissions are lower under the Build scenario when compared to the No Build scenario. This is due in large part to the transportation investments included in the Build scenario (such as transit services, express lanes, freeway operational improvements, roadway improvements, etc.) and its responsiveness to growth in population and associated travel demand over the next 25 years.

**TABLE 5
 VEHICLE ACTIVITY FORECASTS FOR PM_{2.5} BUILD/NO BUILD TEST**

	2015		2025		2035	
	No Build	Build	No Build	Build	No Build	Build
Vehicles In Use	5,322,900	5,188,500	5,856,400	5,843,400	6,363,800	6,323,000
Daily VMT (1000s)	169,200	165,000	184,000	183,600	199,400	198,200
Engine Starts	35,295,600	34,401,600	38,515,800	38,428,400	41,747,800	41,477,100

**TABLE 6
 EMISSIONS COMPARISON FOR THE BUILD/NO BUILD TEST FOR PM_{2.5}***

	2015		2025		2035	
	No Build	Build	No Build	Build	No Build	Build
PM_{2.5}	5.92	5.66	5.87	5.78	6.36	6.14
NO_x	112.63	109.55	60.36	60.16	42.87	42.85

*Emissions for wintertime only

IV. TRANSPORTATION CONTROL MEASURES

History of Transportation Control Measures

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 new TCMs (A-E) have been fully implemented. The TCMs were added over successive revisions to the SIP (see Table 7). 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 U.S. 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 Transportation Control Measures were adopted as part of the new 2001 1-Hour Ozone Attainment Plan and are fully funded in the TIP and 2001 Regional Transportation Plan.

With respect to TCM 2 from the 1982 SIP, there has been 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, 9th Cir.(Cal.), Apr 06, 2004)). Thus TCM 2 has been resolved, and there are no further implementation issues to address in this TCM.

**TABLE 7
 Transportation Control Measures (TCMs) in the State Implementation Plan**

<i>TCM</i>	<i>Description</i>
<i>Original TCMs from 1982 Bay Area Air Quality Plan</i>	
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*	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**	Gasoline Conservation Awareness Program (GasCAP)
TCM 12**	Santa Clara County Commuter Transportation Program
<i>Contingency Plan TCMs Adopted by MTC in February 1990 (MTC Resolution 2131)</i>	
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*	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
<i>New TCMs in 2001 Ozone Attainment Plan</i>	
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

*Deleted by EPA action from ozone plan

**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 8). TCMs A-E are now fully implemented.

**TABLE 8
 IMPLEMENTATION STATUS OF FEDERAL TRANSPORTATION CONTROL MEASURES FOR OZONE (TCMS 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 ARB 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.

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#	TCM	Description	Ozone Attainment Plan Implementation Schedule	Implementation Status
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 reductions will be based on the projects funded.	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 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 ARB 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

MTC's Programming and Allocations Committee released the Draft Conformity Analysis for a 30-day public review period from August 6, 2010 to September 10, 2010. A public hearing on the 2011 TIP and draft conformity analysis was held on September 8, 2010. The comment period was subsequently extended to September 30, 2010 to allow for more time for public comment on the 2011 TIP; and a second public hearing was held on September 22, 2010.

MTC received the following comments on the draft conformity analysis. MTC staff responses to those comments are as follows:

Commenter: Charlie Cameron (Postcard)

Comment #1:

The fares for 1990 as cited in the fares table used in Appendix C are incorrect. Further, the sources stated in the table were not correct and that the 2007 TIP conformity analysis had different information.

Response #1:

The fare table included in Appendix C includes the Spring 2010 fares expressed in year 2010 dollars as well as year 1990 dollars (which MTC inputs into the travel model) -- prices are expressed in this manner throughout the appendix. Previous versions of Appendix C presented the transit fares in 1990 in year 1990 dollars (as well as 1985 fares in year 1985 dollars, etc); the two numbers would only match if transit fares increased exactly with inflation, which they do not.

Commenter: Hilda Lafebre, Caltrain (Letter dated September 24, 2010)

Comment #1:

The JPB agrees with the Metropolitan Transportation Commission (MTC) conformity findings.

Response #1:

MTC staff appreciates Caltrain staff's review of the conformity analysis and letter of support.

Commenter: David Schonbrunn, TransDef (Letter Dated September 30, 2010)

Comment #1:

What level of transit service was assumed in the air quality conformity analysis? Does it correspond to current levels, to the recent service cut levels, or to some other level? The assumed transit service level must be based on reasonably available funding for operations, which has declined significantly in recent years.

Response #1:

As documented in Appendix C and discussed with the Air Quality Conformity Task Force, MTC staff notes that the economic downturn that began in earnest in 2008 has had a significant impact on the Bay Area's transit providers. So for the 2015 analysis year, the transit network reflected in the MTC travel model is the transit service in place as of Spring 2010 plus added/replaced transit projects in the TIP and RTP. In contrast, for the 2025 and 2035 analysis years, the transit network in the model is that of transit service in place as of 2006 and added/replaced transit projects in the TIP and RTP. Because more service was in place in 2006 than in 2010, MTC is assuming the current reduction in transit service is temporary and that service will increase as the economy recovers. The transit fares for the 2015 analysis year are the transit fares in place as of Spring 2010 while the transit fares for the 2025 and 2035 analysis years are the transit fares in place as of Spring 2008.

VI. CONFORMITY FINDINGS

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

- This conformity assessment was conducted consistent with U.S. EPA's transportation conformity regulations and with the Bay Area Air Quality Conformity Protocol adopted by MTC as Resolution No. 3757.
- The Transportation 2035 Plan and 2011 Transportation Improvement Program 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 carbon monoxide, motor vehicle emissions in the Transportation 2035 Plan and 2011 Transportation Improvement Program are lower than the transportation conformity budget in the SIP.
- For the two ground-level ozone precursors (VOC and NO_x), motor vehicle emissions in the Transportation 2035 Plan and 2011 Transportation Improvement Program are lower than the applicable motor vehicle emission budgets for the national 8-hour ozone standard.

- For PM_{2.5} and NO_x, the Build/No Build test shows that the motor vehicle emissions are lower under the Build scenario when compared to the No Build scenario.

Appendix A
List of Projects in the Transportation 2035 Plan

Appendix A: Transportation 2035 Projects (sorted by County, then by Reference Number) - DRAFT

Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Bay Area Region/Multi-County							
21002	Committed	Implement Freeway Service Patrol, Call Box, and Incident Management Programs (includes incident detection equipment and incident management systems)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21005	Committed	Fund and implement TransLink®	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21006	Committed	Fund and implement Regional Transportation Marketing program	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21008	Committed	Fund and implement 511 Traveler Information	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21011	New Commitment	Transportation for Livable Communities (TLC): provide planning and capital funds to improve pedestrian, bicycle and transit access; and support station development areas and FOCUS Priority Development Areas (PDAs)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21012	New Commitment	Golden Gate Bridge seismic retrofit (completes Phase 3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21013	Committed	Rehabilitate state-owned toll bridges in the Bay Area	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21015	Committed	Fund Toll Bridge Seismic Retrofit Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21017	New Commitment	Small transit operators in Alameda, Contra Costa, Marin, Napa, Solano and Sonoma counties – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21154	New Commitment	Procure buses for AC Transit transbay, express and local services	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21320	Committed	Construct Golden Gate Bridge moveable median barrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21342	Committed	Extend Caltrain to Transbay Terminal and replace Transbay Terminal, including the construction of the new Transbay Transit Center Building and rail foundation (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21618	Committed	Implement commuter rail service on the Dumbarton Bridge (environmental, design and right-of-way phases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21619	Committed	Expand Caltrain Express service: design and implement safety elements related to signal communication and positive train control (Phase 2a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21627	Committed	Electrify Caltrain from Tamien to San Francisco (includes installation of power substations and other infrastructure)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22001	Committed	Implement Sonoma Marin Area Rail Transit District (SMART) commuter rail project (includes environmental, engineering, right-of-way, construction, vehicle procurement and operations)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22003	Committed	Capitol Corridor: Phase 2 enhancements (includes grade separations at High Street, Davis Street and Hesperian Street)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

* "Committed" projects are those projects that are fully funded via funds reserved by law for specific uses, or allocated by MTC action prior to the development of the Transportation 2035 Plan

"New Commitment" projects are those projects funded in part or in full with "discretionary funds" which are flexible funds available to MTC (and not already programmed to "Committed" projects) for assignment via the Transportation 2035 Plan planning process.

Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Bay Area Region/Multi-County							
22006	Committed	Improve ferry facilities/equipment including the Downtown Ferry Terminal and procuring additional spare ferry vessels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22008	Committed	Extend Caltrain to Transbay Terminal and replace Transbay Terminal, including preliminary engineering; environmental; planning, specifications, and estimate (PS&E); and right-of-way phases of downtown extension (Phase 2a)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22009	Committed	Implement Capitol Corridor intercity rail service (includes increased track capacity, rolling stock and frequency improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22240	Committed	Fund Regional Measure 2 Express Bus South improvements (includes park-and-ride lots, HOV access improvements and rolling stock)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22241	Committed	Fund Regional Measure 2 studies (Water Emergency Transportation Authority environmental studies, I-680/Pleasant Hill BART Connector Study)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22243	Committed	Fund Regional Measure 2 Express Bus North improvements (includes park-and-ride lots and rolling stock)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22244	Committed	Fund City CarShare	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22245	Committed	Fund Safe Routes to Transit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22247	New Commitment	Regional Bicycle Program: provide capital funds to fully build out the Regional Bikeway Network as defined in MTC's Regional Bicycle Plan for the San Francisco Bay Area, 2009 Update	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22423	New Commitment	Lifeline Transportation Program: fund programs and services that address transportation gaps specific to low-income communities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22425	New Commitment	Planning funds for the Metropolitan Transportation Commission, Association of Bay Area Governments, Bay Conservation and Development Commission, and nine county congestion management agencies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22481	New Commitment	Caltrain – transit operating and capital improvement program (including replacement, rehabilitation and system enhancements for rolling stock, equipment, fixed facilities and other capital assets); station improvements (e.g., platforms) are included	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22520	Committed	Implement BART earthquake safety program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22636	Committed	Implement BART transbay tube earthquake safety improvements (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22676	New Commitment	Improve passenger capacity at 43 BART stations, including platform modifications and faregate, stair, elevator and escalator additions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22765	New Commitment	Improve the connection between I-580 and I-680 via HOV direct connectors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

* "Committed" projects are those projects that are fully funded via funds reserved by law for specific uses, or allocated by MTC action prior to the development of the Transportation 2035 Plan

"New Commitment" projects are those projects funded in part or in full with "discretionary funds" which are flexible funds available to MTC (and not already programmed to "Committed" projects) for assignment via the Transportation 2035 Plan planning process.

Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Bay Area Region/Multi-County							
22991	Committed	Widen I-680 southbound in Santa Clara and Alameda counties from Route 237 to Route 84 including an express lane, ramp metering, auxiliary lanes and pavement rehabilitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94089	New Commitment	Reconstruct south access to the Golden Gate Bridge, from Doyle Drive to Broderick Street (design and construction phases)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94152	Committed	Widen Route 12 (Jamieson Canyon) from 2 lanes to 4 lanes from I-80 in Solano County to Route 29 in Napa County (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94525	New Commitment	BART– transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements, equipment, fixed facilities and other capital assets)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94526	New Commitment	AC Transit – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94527	Committed	Livermore Amador Valley Transit Authority (LAVTA) – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94541	Committed	Reconstruct existing Benicia-Martinez Bridge for southbound traffic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
94558	Committed	Central Contra Costa Transit Authority (CCCTA) – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94572	New Commitment	Golden Gate Transit – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94610	New Commitment	Valley Transportation Authority (VTA) – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94636	New Commitment	San Francisco Municipal Transportation Agency (Muni) – transit operating and capital improvement program (including replacement, rehabilitation and other minor enhancements for rolling stock, equipment, fixed facilities and other capital assets, does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94666	New Commitment	SamTrans – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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"New Commitment" projects are those projects funded in part or in full with "discretionary funds" which are flexible funds available to MTC (and not already programmed to "Committed" projects) for assignment via the Transportation 2035 Plan planning process.

Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Bay Area Region/Multi-County							
94683	Committed	Vallejo Transit – transit operating and capital improvement program (including replacement, rehabilitation and minor enhancements for rolling stock, equipment, fixed facilities and other capital assets; does not include system expansion)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98102	Committed	Reconstruct the South Access to the Golden Gate Bridge: Doyle Drive (environmental study)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230221	Committed	Implement I-80 Integrated Corridor Mobility (ICM) project operations and management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230222	Committed	Implement San Pablo Avenue SMART Corridors operations and management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230257	New Commitment	Convert HOV direct connectors between I-880 and Route 237 to express lane direct connectors	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230287	New Commitment	Implement the Bay Area Air Quality Management District's Goods Movement Emission Reduction Project (includes replacement or retrofitting of up to 800 port and general goods movement trucks in the region)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230290	Committed	Extend Caltrain to Transbay Terminal and replace Transbay Terminal, including construction phase (Phase 2b)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230336	Committed	Implement recommendations from MTC's Transit Connectivity Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230419	New Commitment	Freeway Performance Initiative (FPI): maximize freeway performance and reliability using primarily technology and limited expansions at essential locations; includes Traffic Operations System (TOS) infrastructure, TOS maintenance and replacement, arterial coordination and management, and performance monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230550	New Commitment	Transportation Climate Action Campaign: implement a five-year campaign to reduce greenhouse gas emissions; includes funding for a comprehensive outreach and education campaign, Safe Routes to School, Safe Routes to Transit, and Transit Priority Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230649	Committed	High-Speed Rail: fund supporting infrastructure for ACE, BART, Caltrain, MUNI and VTA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230654	New Commitment	Route 4 in Contra Costa County from Route 160 to Port Chicago Highway – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230656	New Commitment	I-80 in Alameda County from Alameda-Contra Costa County line to Bay Bridge – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230657	New Commitment	I-80 in Contra Costa County from Carquinez Bridge to Alameda-Contra Costa County line – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230658	New Commitment	I-80 in Solano County from Route 37 to Carquinez Bridge – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Bay Area Region/Multi-County							
230659	New Commitment	I-80 in Solano County from Yolo County line to Route 37 – widen to add an express lane in each direction from Yolo County line to Air Base Parkway and from Red Top Road to Route 37	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230660	New Commitment	I-80 in Solano County from Red Top Road to Air Base Parkway – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230661	New Commitment	U.S. 101 in Santa Clara County from Cochrane Road to Route 25 – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230662	New Commitment	U.S. 101 in Santa Clara County from San Mateo/Santa Clara County line to Cochrane Road – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230663	New Commitment	U.S. 101 in San Mateo County from San Mateo/Santa Clara County line to Whipple Avenue – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230664	New Commitment	U.S. 101 in San Mateo County from Whipple Avenue to Millbrae – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230665	New Commitment	I-580 westbound in Alameda County from Foothill Road to San Joaquin County line – widen to add an express lane and convert HOV lane to express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230666	New Commitment	I-580 eastbound in Alameda County from Foothill Road to San Joaquin County line – widen to add an express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230667	New Commitment	I-580 eastbound in Alameda County from Foothill Road to Greenville Road – convert HOV lane to express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230668	New Commitment	I-880 in Santa Clara County from Alameda-Santa Clara County line to U.S. 101 – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230669	New Commitment	I-880 in Alameda County from Alameda-Santa Clara County line to Marina Boulevard/Lewelling Boulevard – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230670	New Commitment	I-880 in Alameda County from Marina Boulevard/Lewelling Boulevard to Hegenberger Road – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230671	New Commitment	I-880 northbound in Alameda County from 16th Avenue to Bay Bridge Toll Plaza – convert HOV lane to express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230672	New Commitment	Route 92 westbound in Alameda County from Clawiter Road through San Mateo-Hayward Bridge toll plaza – convert HOV lane to express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230673	New Commitment	Route 84 westbound in Alameda County from I-880 through Dumbarton Bridge toll plaza – convert HOV lane to express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230674	New Commitment	Route 85 in Santa Clara County from U.S. 101 in Mountain View to U.S. 101 in South San Jose – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230675	New Commitment	Route 87 in Santa Clara County from Route 85 to U.S. 101 – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Bay Area Region/Multi-County							
230676	New Commitment	Route 237 in Santa Clara County from I-880 to Mathilda Avenue – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230677	New Commitment	Route 237 in Santa Clara County from Mathilda Avenue to Route 85 – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230678	New Commitment	I-280 in Santa Clara County from Magdalena Avenue to Leland Avenue – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230679	New Commitment	I-280 in Santa Clara County from Leland Avenue to U.S. 101 – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230680	New Commitment	I-680 in Santa Clara County from Calaveras Road to U.S. 101 – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230681	New Commitment	I-680 northbound in Santa Clara County from Calaveras Boulevard to Alameda County line – widen to add an express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230682	New Commitment	I-680 northbound in Alameda County from Santa Clara County line to Route 84 – widen to add an express lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230683	New Commitment	I-680 in Alameda County from Route 84 to Alcosta Boulevard – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230684	New Commitment	I-680/I-580 interchange in Alameda County – widen to add an express lane direct connector and an express lane on I-580 eastbound to Tassajara Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230685	New Commitment	I-680 in Contra Costa County from Alcosta Road to Benicia-Martinez Bridge – widen to add an express lane in each direction through Walnut Creek and convert HOV lanes to express lanes on the remaining segment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230686	New Commitment	I-680 in Solano County from Benicia-Martinez Bridge to I-80 – widen to add an express lane in each direction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230687	New Commitment	I-680/I-80 interchange in Solano County – widen to add an express lane direct connector	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230688	New Commitment	U.S. 101 in Marin County from Corte Madera to Route 37 – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230689	New Commitment	U.S. 101 in Sonoma County from Windsor River Road to Old Redwood Highway – widen to add an express lane in each direction and convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230690	New Commitment	I-680/Route 4 interchange in Contra Costa County – widen to add express lane direct connectors at interchange	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230701	New Commitment	Widen U.S. 101 (adding an HOV lane in each direction) from Route 37 to Marin/Sonoma County line (Marin County portion) and from Marin/Sonoma County line to Old Redwood Highway in Petaluma	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230702	New Commitment	U.S. 101 in Marin and Sonoma counties from Route 37 to Old Redwood Highway – convert HOV lanes to express lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Bay Area Region/Multi-County							
230703	New Commitment	With net toll revenue, fund corridor improvements including transit operating and capital needs, freeway operations, interchanges, roadway maintenance and local access	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230710	Committed	Funding reserve to implement High-Speed Rail and related corridor improvements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230712	Committed	Install suicide barrier on Golden Gate Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Alameda							
21093	Committed	Upgrade Route 92/Clawiter Road interchange, add ramps and overcrossing for Whitesell Street extension, and signalize ramp intersections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21100	New Commitment	Construct auxiliary lanes on I-580 between Vasco Road and First Street and modify I-580/Vasco Road interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21101	Committed	Reconstruct Stargell Avenue from Webster Street to 5th Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21103	New Commitment	Construct grade separation structure on Central Avenue at Union Pacific Railroad crossing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21105	Committed	Construct interchange at the extension of Isabel Avenue (Route 84) to I-580	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21112	New Commitment	Improve Crow Canyon Road by widening shoulders, realigning curves and constructing retaining walls	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21114	Committed	Construct grade separations on Washington Boulevard/Paseo Padre Parkway at the Union Pacific railroad tracks and proposed BART extension	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21116	Committed	Widen I-580 from Foothill Road to Greenville Road in both directions for HOV lanes (includes auxiliary lanes)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21123	New Commitment	Expand Union City BART station to create intermodal rail station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21125	Committed	Extend HOV lane westbound on Route 84 between Newark Avenue undercrossing and west of the I-880 interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21126	Committed	Construct westbound Route 84 HOV on-ramp at Newark Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21131	Committed	Build a BART Oakland Airport Connector between Coliseum BART station and Oakland International Airport	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21132	Committed	Extend BART from Fremont to Warm Springs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21133	Committed	Construct new West Dublin/Pleasanton BART station along the I-580 median	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21139	New Commitment	Improve Vasco Road with safety features including realignment, widening and installation of median barriers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21144	New Commitment	Reconstruct I-80/Gilman Avenue interchange into a roundabout	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21151	Committed	Construct a new satellite operations and maintenance facility for operations, dispatch, maintenance, fueling, bus wash and parking for LAVTA fixed route services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21159	New Commitment	Expand/enhance AC Transit facilities in northern Alameda County, including new operating facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21451	New Commitment	Construct additional turn- and bus-loading lanes on Hesperian Boulevard and East 14th Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Alameda							
21455	Committed	Widen I-238 to 6 lanes between I-580 and I-880, including auxiliary lanes on I-880 between I-238 and A Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21456	Committed	Construct auxiliary lanes on I-580 between Santa Rita Road/Tassajara Road and Airway Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21460	Committed	Construct bicycle/pedestrian roadway in existing Alameda County and Southern Pacific right-of-way between the Dublin/Pleasanton BART station and Dougherty Road; construct bus lane on Dougherty Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21464	Committed	Provide paratransit service for AC Transit, BART and non-mandated city programs to coordinate and close paratransit service gaps	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21465	Committed	Enhance transit throughout the county using transit center development funds	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21466	Committed	Improve Washington Avenue/Beatrice Street interchange at I-880 through reconstruction and widening of on/off ramps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21472	Committed	Improve I-680/Bernal Avenue interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21473	Committed	Construct a 4-lane arterial connecting Dublin Boulevard and North Canyons Parkway in Livermore	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21475	New Commitment	Improve I-580/First Street interchange in Livermore	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21477	New Commitment	Reconstruct I-580/Greenville Road interchange in Livermore	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21482	Committed	Extend Fremont Boulevard to connect with Dixon Landing Road in Milpitas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21484	Committed	Widen Kato Road from Warren Avenue to Milmont Drive and include bicycle lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21489	Committed	Improve I-580/San Ramon Road/Foothill Road interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21992	New Commitment	Implement AC Transit transit priority measures (TPM) and corridor improvements (Element 1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22002	Committed	Extend I-880 northbound HOV lane from Maritime Street to the Bay Bridge toll plaza	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22007	Committed	Implement bicycle and pedestrian projects/programs in Alameda County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22013	Committed	Construct I-580 eastbound truck climbing lane at the Altamont Summit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22021	New Commitment	Expand AC Transit transfer centers and park-and-ride facilities in central Alameda County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22056	Committed	Improve Ashby BART station to support Ed Roberts Campus and future transit-oriented development	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Alameda							
22062	Committed	Construct infrastructure to support future Irvington BART station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22063	Committed	Improve Route 238 corridor near Foothill Boulevard/I-580 by removing parking during peak periods and spot widening	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22082	Committed	Correct grade separation at 7th Street/Union Pacific Railroad entry at Port of Oakland intermodal yards and improve connecting roadways through former Oakland Army Base	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22084	New Commitment	Improve access to Oakland International Airport's North Field, connecting Route 61 (Doolittle Drive) with Earhart Road and extending infield area at North Field	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22087	Committed	Reconstruct I-880/Oak Street on-ramp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22089	Committed	Improve Martinez Subdivision for freight and passenger rail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22100	Committed	Replace overcrossing structure at I-880/Davis Street interchange and add additional travel lanes on Davis Street (includes ramp, intersection and signal improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22106	Committed	Construct street extensions in Hayward near Clawiter and Whitesell streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22455	Committed	Implement Bus Rapid Transit service on the Telegraph Avenue/International Boulevard/E. 14th Street corridor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22509	Committed	Provide ferry service between Alameda/Oakland and San Francisco and between Harbor Bay and San Francisco	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22511	Committed	Provide ferry service between Berkeley/Albany and San Francisco	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22670	Committed	Construct HOV lane for southbound I-880 from Hegenberger Road to Marina Boulevard (includes reconstructing bridges at Davis Street and Marina Boulevard)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22760	Committed	Relocate the Outer Harbor Intermodal Terminal (OHIT) to the former Oakland Army Base (includes rail yard, storage tracks, lead tracks, truck gates and administrative/operations and maintenance buildings)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22766	New Commitment	Assess Fruitvale Avenue rail bridge for seismic retrofit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22768	New Commitment	Retrofit and repair three Oakland-Alameda Estuary bridges for seismic safety	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22769	New Commitment	Improve northbound I-880 ramp geometries at 23rd and 29th avenues (includes modifications to local streets, landscaping and soundwall construction)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22770	Committed	Install traffic signal on Grand Avenue at Rose Avenue/Arroyo Avenue in Piedmont	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22776	New Commitment	Widen Route 84 from 2 to 4 lanes from north of Pigeon Pass to Stanley Boulevard and from 2 to 6 lanes from Stanley Boulevard to Jack London Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Alameda							
22777	Committed	Reconstruct on/off-ramps on I-580 in Castro Valley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22779	Committed	Reconstruct Route 262/I-880 interchange and widen I-880, including grade separation at Warren Avenue and the Union Pacific Railroad (Phase 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22780	Committed	Implement Bus Rapid Transit on the Grand-MacArthur corridor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22783	New Commitment	Assess Fruitvale Avenue roadway bridge for seismic retrofit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94012	Committed	Implement the Union City BART station transit-oriented development project, including construction of pedestrian grade separations under the BART and Union Pacific Railroad tracks and reconfiguring existing station to provide multimodal loop road (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94030	Committed	Reconstruct I-880/Route 262 interchange and widen I-880 from 8 lanes to 10 lanes (8 mixed-flow and 2 HOV lanes) from Route 262 (Mission Boulevard) to the Santa Clara County line (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94506	New Commitment	Construct an improved east-west connection between I-880 and Route 238 (Mission Boulevard) from North Fremont to Union City	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94514	Committed	Reconstruct I-880/Route 92 interchange with direct connectors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98139	Committed	Acquire right-of-way for ACE rail service between Stockton and Niles Junction, complete track improvements between San Joaquin County and Alameda County, and expand Alameda County station platforms	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98207	New Commitment	Improve I-880/Broadway-Jackson interchange in Oakland (includes new on- and off-ramps and new signals)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98208	New Commitment	Construct soundwalls in various locations in Alameda County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230047	New Commitment	Reconstruct I-880/West A Street interchange in Hayward (includes new sidewalks)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230052	Committed	Construct auxiliary lanes on I-880 near Winton in Hayward	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230053	New Commitment	Reconstruct I-880 Industrial Parkway interchange (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230054	Committed	Construct auxiliary lanes on I-880 at Industrial Parkway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230057	Committed	Reconstruct I-880/Industrial Parkway interchange, including construction of new northbound I-880 on-ramp and modifications to southbound on-ramp to include an HOV lane (Phase 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230066	Committed	Improve I-880/Marina Boulevard interchange (includes on- and off-ramp improvements, overcrossing modification, and street improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230083	Committed	Tri-Valley Transit Access: acquire right-of-way along I-580 from Hacienda Drive to the Greenville Road interchange to accommodate rail transit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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			2015	2025	2035		
Alameda							
230086	New Commitment	Reconstruct I-580/Fallon Road interchange and I-580/Hacienda Drive interchange in Dublin	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230088	Committed	Extend existing northbound I-880 HOV lane from north of Hacienda Avenue to Hegenberger Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230091	Committed	Install traffic monitoring systems, signal priority and coordination, ramp metering, and HOV bypass lanes in the I-880, I-238 and I-580 corridors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230094	Committed	Construct soundwalls in central Alameda County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230099	New Commitment	Construct northbound I-680 to westbound I-580 connector	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230108	New Commitment	Widen I-80 eastbound Powell Street off-ramp in Emeryville	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230110	New Commitment	Construct a grade separation at Route 262/Warm Springs Drive/Mission Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230114	New Commitment	Widen Auto Mall Parkway from 4 to 6 lanes between I-680 and I-880, including intersection improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230116	New Commitment	Improve rail crossings in Berkeley, including grade separation at Gilman Street, road closures and at-grade crossing improvements (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230120	New Commitment	Construct truck parking facilities in northern Alameda County (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230122	New Commitment	Implement a Value-Pricing Parking and Transportation Demand Management program in Berkeley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230125	New Commitment	Improve Ashby/I-80 interchange/Aquatic Park access, including streetscaping, bicycle/pedestrian improvements and minor interchange improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230132	New Commitment	Improve I-580/Isabel Avenue interchange, including streetscaping and bicycle/pedestrian improvements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230156	Committed	Extend West Jack London Boulevard from west of Isabel/Route 84 to El Charro Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230157	Committed	Construct a two-lane gap closure on Las Positas Road from Arroyo Vista to west of Vasco Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230160	Committed	Tri-Valley Transit Access: implement enhanced rapid bus service in Livermore, Dublin and Pleasanton (includes higher frequencies, new stops and improved stop amenities)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230169	New Commitment	Provide Intelligent Transportation System (ITS) elements for arterial management in Oakland (includes new controllers, signal coordination, transit priority, automatic vehicle locators, speed and level of service monitoring through radar detection, and real time arrival information)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Alameda							
230170	New Commitment	Improve access to I-880 from 42nd Avenue and High Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230171	New Commitment	Improve Route 24/Caldecott Tunnel including bicycle and transit access and soundwall improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230198	New Commitment	Upgrade traffic signal systems with Intelligent Transportation System (ITS) elements (includes new controllers, improved system communication, facilities upgrades and relocations, emergency vehicle pre-emption, and improved speed and level of service monitoring)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230244	New Commitment	Prepare supplemental project study report for Route 84 widening from Pigeon Pass to I-680	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230396	New Commitment	Implement recommendations from the Community-Based Transportation Plan to improve the mobility of low-income residents	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230412	New Commitment	Additional AC Transit and BART transit capital replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230608	New Commitment	Construct a westbound auxiliary lane on I-580 between First Avenue and Isabel Avenue in the Tri-Valley area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230630	Committed	Tri-Valley Transit Access: construct westbound off-ramp to connect I-580 to Dublin/Pleasanton BART station, or make other transit access improvements at the BART station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230692	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Contra Costa							
21205	New Commitment	Improve the I-680/Route 4 interchange with direct connectors and widen Route 4 from 2 lanes to 3 lanes in each direction between Route 242 and Morello Avenue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21206	Committed	Construct a fourth bore at the Caldecott Tunnel complex north of the three existing bores	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21207	Committed	Construct Martinez Intermodal Station, including site acquisition, demolition and construction of 200 interim parking spaces (Phase 3 initial segment)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21208	Committed	Construct Richmond Parkway Transit Center, including signal timing and reconfiguration, parking facility and security improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21209	Committed	Relocate and expand Hercules Transit Center, including relocation of park-and-ride facility and construction of express bus facilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21210	Committed	Construct Capitol Corridor train station in Hercules	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21211	Committed	Extend BART/East Contra Costa Rail (eBART) eastward from the Pittsburg/Bay Point BART station into eastern Contra Costa County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21214	Committed	Widen Wilbur Avenue over Burlington Northern Santa Fe Railroad from 2 lanes to 4 lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21225	Committed	Improve regional and local pedestrian and bicycle system, including construction overcrossings, and expanding sidewalks and facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22122	Committed	Implement ferry service from Richmond to San Francisco	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22352	New Commitment	Improve I-680/Norris Canyon Road, including reconstruction of overcrossing, widening of median, construction of new HOV ramps and modifications to the local street network in San Ramon	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22353	Committed	Construct HOV lane on I-680 southbound between North Main Street and Livorna Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22354	New Commitment	Relocate the western half of the Marina Vista interchange off southbound I-680	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22355	New Commitment	Modify I-80/Central Avenue interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22360	New Commitment	Reconstruct I-80/San Pablo Dam Road interchange and modify adjacent interchanges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22365	Committed	Improve Martinez Ferry landside facilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22388	New Commitment	Construct Route 242 on-ramp and off-ramp at Clayton Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22390	New Commitment	Reconstruct Route 4/Willow Pass Road ramps in Concord to support new infill development at the Concord Naval Weapons Station	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22402	Committed	Implement the San Ramon School Bus Program, and continue the Lamorinda School Bus Program	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Contra Costa							
22600	Committed	Widen Somersville Road Bridge in Antioch from 2 lanes to 4 lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22602	New Commitment	Construct I-680 auxiliary lanes in both directions from Sycamore Valley Road to Crow Canyon Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22603	Committed	Construct 6-level, roughly 785-space parking garage at Richmond Intermodal Transfer Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22607	Committed	Widen and extend major streets, and improve interchanges in east Contra Costa County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22609	Committed	Widen and extend major streets, and improve interchanges in central Contra Costa County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22610	Committed	Widen and extend major streets, and improve interchanges in west Contra Costa County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22611	Committed	Implement a low-income student bus pass program in West Contra Costa County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22613	Committed	Widen and extend major streets, and improve interchanges in southwest Contra Costa County (includes widening Camino Tassajara to 4 lanes between Danville and Windemere Parkway, and to 6 lanes from Windemere Parkway to Alameda County line)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22614	New Commitment	Construct Martinez Intermodal Station, including an additional 425 parking spaces and vehicle and pedestrian bridges (Phase 3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22637	Committed	Construct BART crossover at Pleasant Hill BART station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94045	Committed	Purchase new express buses for I-80 express service to be provided by AC Transit, Vallejo Transit and WestCAT (capital costs)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94046	Committed	Improve interchanges and parallel arterials to Route 4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94048	Committed	Improve interchanges and parallel arterials to I-80	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94532	Committed	Implement the Gateway Lamorinda Traffic Program (includes carpool lot in Lafayette, structural and safety improvements on Moraga Road, intersection realignments, turn lanes, pedestrian accommodation and signal coordination)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94538	Committed	Implement the Route 4 transportation management system	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98115	Committed	Widen Ygnacio Valley/Kirker Pass roads from 4 lanes to 6 lanes from Michigan Boulevard to Cowell Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98126	Committed	Improve interchanges and arterials parallel to I-680 and Route 24	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98132	Committed	Widen and extend Bollinger Canyon Road to 6 lanes from Alcosta Boulevard to Dougherty Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98133	New Commitment	Widen Pacheco Boulevard from 2 to 4 lanes from Blum Road to Arthur Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Contra Costa							
98134	Committed	Widen Dougherty Road to 6 lanes from Red Willow to Contra Costa County line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98142	Committed	Widen Route 4 from 4 lanes to 8 lanes, with HOV lanes, from Loveridge Road to Somersville Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98157	Committed	Enhance AC Transit bus service in San Pablo corridor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98193	Committed	Extend Panoramic Drive from North Concord BART station to Willow Pass Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98194	Committed	Extend Commerce Avenue to Waterworld Parkway, including construction of vehicular bridge over Pine Creek, installation of trails and a pedestrian bridge and connecting Willow Pass Road to Concord Avenue/Route 242 interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98196	Committed	Construct auxiliary lanes on Route 24 from Gateway Boulevard to Brookwood Road/Moraga Way	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
98198	New Commitment	Improve safety and operations on Vasco Road in Contra Costa County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98211	Committed	Extend I-80 eastbound HOV lanes from Route 4 to the Crockett interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98222	New Commitment	Construct freeway-to-freeway direct connectors between Route 4 Bypass and Route 160	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98999	Committed	Widen Route 4 from Somersville Road to Route 160 and improve interchanges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230084	New Commitment	Construct a railroad grade separation at the Richmond Waterfront on the Marina Bay Parkway	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230090	New Commitment	Expand and enhance AC Transit facilities in western Contra Costa County, including environmental sustainability projects, zero emission improvements and a new operating facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230123	New Commitment	Expand existing WestCAT maintenance facility (includes land purchase)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230127	Committed	Construct new satellite WestCAT maintenance facility (includes land purchase)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230129	Committed	Expand WestCAT service, including purchase of vehicles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230185	New Commitment	Establish express bus service and eBART support network (includes park-and-ride lots and rolling stock)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230188	Committed	Purchase land in Oakley for use as a park-and-ride lot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230193	Committed	Enhance AC Transit Zero Emission Bus (ZEB) program, including fueling stations and new maintenance bays	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230194	Committed	Implement AC Transit Environmental Sustainability Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Contra Costa							
230195	Committed	Improve safety and security on AC Transit vehicles and in facilities, including installing surveillance systems and emergency operations improvements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230196	Committed	Implement AC Transit San Pablo Dam Road Transit Priority Measures (TPM), including passenger safety improvements and road improvements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230202	Committed	Widen Route 4 Bypass to 4 lanes from Laurel Road to Sand Creek Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230203	Committed	Construct Route 4 Bypass interchange at Sand Creek Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230205	Committed	Widen Route 4 Bypass to 4 lanes from Sand Creek Road to Balfour Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230206	Committed	Construct Route 4 Bypass interchange at Balfour Road (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230212	Committed	Improve Clayton Road/Treat Boulevard intersection and increase capacity (includes upgrading traffic signal and geometric improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230216	New Commitment	Construct 2-lane bridge connecting Waterworld Parkway with Meridian Park Boulevard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230225	Committed	Improve and expand arterial streets in central Hercules for express bus and rail transit facilities to support transit-oriented development at I-80/Route 4 intersection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230227	Committed	Conduct engineering, environmental and financial feasibility assessment of rail mass transit to western Contra Costa County (includes future station site acquisition)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230229	New Commitment	Widen Pinole Valley Road ramps at I-80 to provide a dedicated right-turn lane on eastbound on-ramp and bus turnout/shelter on westbound on-ramp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230232	New Commitment	Construct new interchange at Route 4/Phillips Lane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230233	Committed	Extend James Donlon Boulevard to Kirker Pass Road by constructing a new 2-lane expressway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230236	Committed	Widen Pittsburg-Antioch Highway from 2 lanes to 4 lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230237	New Commitment	Extend West Leland Road from San Marco Boulevard to Willow Pass Road (includes a raised median, bicycle lanes and sidewalks)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230238	Committed	Widen California Avenue from 2 lanes to 4 lanes with 2 left-turn lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230239	Committed	Widen and improve Buskirk Avenue between Monument Boulevard and Hookston Road to provide 2 through lanes in each direction (includes road realignment, new traffic signals and bicycle/pedestrian streetscape improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Contra Costa							
230240	New Commitment	Add additional left- or right-turn lanes at various intersections along Contra Costa Boulevard (between Monument Boulevard and 2nd Avenue)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230247	New Commitment	Widen Lone Tree Way to 6 lanes from O'Hara Avenue to Brentwood Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230249	Committed	Construct a 6-lane grade separation undercrossing along the Union Pacific Railroad line at Lone Tree Way	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230250	Committed	Widen Brentwood Boulevard from 2 lanes to 4 lanes between Marsh Creek and Delta Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230253	Committed	Replace the old 2-lane Fitzuren Road with a new, 4-lane divided arterial (includes shoulders, bicycle lanes, a park-and-ride lot and sidewalks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230274	Committed	Widen Main Street to 6 lanes from Route 160 to Big Break Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230279	New Commitment	Extend John Muir Parkway in Hercules with 4 traffic lanes, a bridge, bicycle path and landscaping	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230288	Committed	Widen Empire Avenue from 2 to 4 lanes between Lone Tree Way and Union Pacific Railroad right-of-way/Antioch city limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230289	New Commitment	Construct Main Street Downtown Bypass road between Vintage Parkway and 2nd Street	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230291	New Commitment	Add northbound truck climbing lane and a bicycle lane on Kirker Pass Road from Clearbrook Drive in Concord to just beyond the crest of Kirker Pass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230293	Committed	Add transit stops, sidewalks, and bicycle and pedestrian amenities on San Pablo Dam Road in El Sobrante	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230306	New Commitment	Add a second southbound lane on Alhambra Avenue from Walnut Avenue to the south side of Highway 4 (includes signal modifications)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230307	New Commitment	Widen Camino Tassajara Road from 2 lanes to 4 lanes from Windemere Parkway to the Alameda/Contra Costa County line	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230308	New Commitment	Straighten curves to improve safety and operation of Alhambra Valley Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230309	New Commitment	Provide rolling stock, infrastructure and information technology for Bus Rapid Transit service in the Pacheco/Contra Costa Boulevard/North Main corridor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230318	New Commitment	Extend North Richmond truck route along Soto Street from Market Avenue to Parr Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230320	Committed	Extend the I-680 southbound HOV lane northward from Livorna Road to north of Rudgear Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Contra Costa							
230321	New Commitment	Construct Phase 2 of Hercules Intermodal Station (includes station building and approximately 350 parking spaces)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230397	Committed	Construct and develop infrastructure enhancements to improve operations of transit service within the WestCAT service area, including park-and-ride lots, signal prioritization, bus-only lanes and freeway drop ramps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230401	Committed	Construct bicycle- and pedestrian-friendly improvements along San Pablo Avenue from El Cerrito to Crockett to support transit-oriented development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230402	Committed	Install new or upgraded corridor management and traveler information elements along the I-80 corridor from the Carquinez Bridge to the San Francisco-Oakland Bay Bridge Toll Plaza (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230505	Committed	Provide transportation improvements on the east side of the Richmond BART station to accommodate redevelopment for a transit village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230535	Committed	Realign curves along Marsh Creek Road to improve safety and operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230538	Committed	Widen Bailey Road lanes and shoulders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230542	Committed	Close a bicycle/pedestrian gap at San Pablo Avenue bridge in Pinole by upgrading the existing bridge or constructing a new dedicated bicycle/pedestrian bridge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230596	Committed	Construct Pacheco Boulevard Transit Hub on Blum Road at the I-680/Route 4 interchange (includes 6 bus bays and a 110-space park-and-ride lot)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230597	Committed	Install new or upgraded corridor management and real-time traveler information improvements in I-80 corridor between the Carquinez Bridge and the San Francisco-Oakland Bay Bridge Toll Plaza (Phase 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230613	Committed	Implement ferry service between Hercules and San Francisco	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230631	Committed	Double the existing rail track between Oakley and Port Chicago	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230693	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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			2015	2025	2035		
Marin							
21030	New Commitment	Improve U.S. 101/I-580 interchange and construct a freeway-to-freeway direct connector from northbound U.S. 101 to eastbound I-580 (project approval and environmental document phases only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21302	Committed	Implement Marin County's bicycle and pedestrian program	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21315	New Commitment	Signalize ramp intersections at U.S. 101/Miller Creek Road interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21325	New Commitment	Improve local access to U.S. 101 from Tamalpais Drive to just north of Sir Francis Drake Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22437	New Commitment	Construct auxiliary lanes at various locations along U.S. 101 and provide bus-on-shoulder options where feasible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22753	New Commitment	Construct park-and-ride lots to support regional express bus service	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94563	Committed	Widen U.S. 101 for HOV lanes (one in each direction) from Lucky Drive in Corte Madera to North San Pedro Road in San Rafael	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98179	New Commitment	Improve U.S. 101/Tiburon Boulevard interchange, including circulation and signal improvements to nearby intersections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230060	New Commitment	Implement Transit Priority Measures (TPM) on major transit corridors (includes signal priority, queue-jump lanes, real-time information and enhanced passenger board areas)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230095	Committed	Widen Route 1 at Pacific Way to provide a Muir Beach bus stop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230105	New Commitment	Replace Pacific Way Bridge with new two-lane bridge with a separate bicycle and pedestrian path	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230252	New Commitment	Expand Marin County local bus service	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230400	Committed	Improve access to Southern Marin parklands	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230406	Committed	Implement initial set of transportation improvements identified in the Canal Neighborhood Community-Based Transportation Plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230418	New Commitment	Rehabilitate major roads of countywide significance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230422	New Commitment	Signalize Andersen Drive/East Sir Francis Drake Boulevard intersection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230431	New Commitment	Construct intermodal transit hub in Southern Marin Priority Development Area and/or in the city of Novato	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230502	Committed	Construct westbound I-580 to northbound U.S. 101 connector	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230516	Committed	Implement Marin County's Safe Routes to Schools program	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230549	New Commitment	Implement local arterial improvements parallel to U.S. 101 and I-580 (includes signalization, signal controller upgrades, signal coordination and geometric improvements)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230694	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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			2015	2025	2035		
Marin							
230709	Committed	Implement routine maintenance of bicycle and pedestrian Class I facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230711	Committed	Implement parking improvements at Larkspur ferry terminal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Napa							
22746	New Commitment	Widen Route 29/First Street overcrossing to 4 lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
94073	Committed	Construct a flyover connecting southbound Route 221 to southbound routes 12 and 29 (environmental and design phases)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
94075	Committed	Construct grade separation improvements at Route 12/Route 29 intersection (environmental phase)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94076	New Commitment	Construct the Trancas intermodal facility adjacent to the Route 29 and Redwood Road/Trancas Street interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230371	New Commitment	Construct ADA-compliant pedestrian and bicycle path from Presidents Circle to railroad track in Yountville	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230373	New Commitment	Construct pedestrian and bicycle pathway from Madison Street to Solano Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230374	New Commitment	Construct pedestrian crosswalk at Charter Oak and Main Streets in St. Helena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230376	New Commitment	Construct pedestrian and bicycle crossing at Tunnel of Elms in St. Helena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230377	New Commitment	Construct pedestrian and bicycle crossing over Sulphur Creek at Oak Avenue in St. Helena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230378	New Commitment	Implement accessibility improvement projects in downtown St. Helena, including curb cuts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230379	New Commitment	Improve the truck route between Adams Street and Main Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230381	New Commitment	Improve signalization along Main Street in St. Helena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230387	New Commitment	Construct a roundabout or improve traffic signals to improve safety at the Deer Park/Silverado Trail intersection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230388	New Commitment	Improve the safety of the Oak Knoll/Silverado Trail intersection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230389	New Commitment	Improve the safety of the Yountville Cross/Silverado Trail intersection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230390	New Commitment	Improve the safety of the Oakville Crossroad/Route 29 intersection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230392	New Commitment	Extend Devlin Road from Fagan Creek to Green Island Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230393	New Commitment	Construct middle-turn lane on Route 29 from Galleron Lane to St. Helena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230394	New Commitment	Improve the traffic signals at Solano and Wine Country avenues (includes road widening, drainage and rail crossing improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230483	New Commitment	Prepare Project Study Report (PSR) to improve Silverado Trail/Third/Coombsville/East intersection and improve Silverado Trail south of First Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230484	New Commitment	Install traffic signals on Imola Avenue at Route 29 ramps in Napa	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Napa							
230486	New Commitment	Extend Devlin Road from Tower Road to Airpark Road in American Canyon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230498	New Commitment	Construct Class I bicycle trail from Route 29 to Silverado Trail	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230499	New Commitment	Construct bicycle/pedestrian path from Oak Circle to south Yountville town limit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230508	New Commitment	Elevate Solano Avenue from Yountville to Dry Creek	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230518	New Commitment	Construct a roundabout at Forest Road/Route 128	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230519	New Commitment	Improve the safety of the Route 29/Route 128 (Rutherford Crossroad) intersection by constructing a roundabout or improving signal operations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230599	New Commitment	Implement Phase 2 improvements to Route 12 (Jamieson Canyon), including grade realignment and full safety barrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230622	New Commitment	Construct new bicycle/pedestrian trail through American Canyon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230695	New Commitment	Local streets and roads maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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San Francisco							
21502	New Commitment	Implement pedestrian projects, including sidewalk repair, crossing signal, signage improvements and an education campaign	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21503	New Commitment	Implement a traffic calming program aimed at reducing auto traffic speeds and improving pedestrian and bicyclist safety throughout San Francisco	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21504	New Commitment	Improve roadways throughout San Francisco by installing new traffic signs and signals, providing new transit lane markings, installing new parking meters and relocating a traffic maintenance shop	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21505	New Commitment	Repair and retrofit local bridge structures and pedestrian overcrossings	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21510	Committed	Extend the Third Street Light Rail line from north of King Street to Clay Street in Chinatown via a new Central Subway, including the purchase of light-rail vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21533	New Commitment	Plant trees and maintain new and existing trees in public rights-of-way throughout San Francisco	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21535	New Commitment	Implement Travel Demand Management (TDM) program, including transit route planning, bicycle and pedestrian planning and transit-oriented development studies and planning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21549	New Commitment	Implement direct access route from Hunters Point Shipyard to U.S. 101, including repaving existing roadway and adding new curbs and curb ramps, sidewalks, street lighting, trees and route signage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22249	New Commitment	Upgrade and extend streets and other vehicular facilities throughout San Francisco	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22412	New Commitment	Purchase light-rail vehicles to expand Muni rail service	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22415	New Commitment	Provide new historic streetcar service along the Embarcadero between the Caltrain Station and Fisherman's Wharf; extend streetcar service from Fisherman's Wharf to Fort Mason	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22420	New Commitment	Implement Bus Rapid Transit (BRT) and Transit Preferential Streets (TPS) programs throughout San Francisco	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22462	New Commitment	Implement bicycling programs, including construction and rehabilitation of bicycle lanes and paths; improve signage and crossings; and implement a public awareness campaign	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22512	New Commitment	Provide capital improvements to support ferry service between Treasure Island and San Francisco	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22982	New Commitment	Enhance transit programs in San Francisco that promote system connectivity and accessibility, close service gaps and expand transit service	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22984	New Commitment	Construct new/reconstruct existing wheelchair curb ramps	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
San Francisco							
94632	Committed	Extend Third Street Light Rail from Fourth and King streets to Bayshore Caltrain Station	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98593	New Commitment	Fund the Integrated Transportation Management System (SFgo)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230161	Committed	Implement a Bus Rapid Transit (BRT) project on Van Ness Avenue (includes dedicated transit lanes, signal priority and pedestrian and urban design upgrades)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230164	New Commitment	Implement a Bus Rapid Transit (BRT) project on Geary Boulevard (includes dedicated transit lanes, signal priority and pedestrian and urban design upgrades)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230168	New Commitment	Improve the Great Highway between Lincoln Way and 48th Avenue (includes resurfacing roadway, installing drainage systems and constructing medians)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230207	New Commitment	Implement a Bus Rapid Transit (BRT) project on the Geneva Avenue/Harney Way corridor (includes new infrastructure and rolling stock)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230211	New Commitment	Extend trolley coach infrastructure into Mission Bay along 16th Street and Third Street, and implement transit signal priority along 16th Street and Fillmore Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230215	New Commitment	Extend existing trolley coach lines throughout San Francisco	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230364	Committed	Improve water access to San Francisco parks	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230490	New Commitment	Reconstruct and widen Harney Way to 8 lanes (6 mixed flow, 2 bus-only for Bus Rapid Transit service) and improve bicycle lanes and sidewalks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230517	New Commitment	Improve transit and roadway connectivity between San Francisco and San Mateo counties	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230555	Committed	Reconstruct ramps on the east side of the San Francisco-Oakland Bay Bridge's Yerba Buena Island tunnel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230581	New Commitment	Improve San Francisco ferry infrastructure, including terminals, intermodal connections, ferry berths, emergency response systems and landside improvements	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230585	New Commitment	Improve the functionality, safety and attractiveness of local streets and arterials in San Francisco	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230594	New Commitment	Improve San Francisco BART stations to enhance passenger safety, accessibility and capacity, improve signage and provide real time transit information	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230696	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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San Mateo							
21602	New Commitment	Reconstruct U.S. 101/Broadway interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21603	New Commitment	Modify U.S. 101/Woodside Road interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21604	New Commitment	Construct auxiliary lanes (one in each direction) on U.S. 101 from Sierra Point to San Francisco County line	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21606	Committed	Reconstruct U.S. 101/Willow Road interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21607	New Commitment	Modify University Avenue overcrossing of U.S. 101 to improve operational efficiency and safety (includes widening of overcrossing, constructing new southbound off-ramp and auxiliary lane, and adding bicycle lanes)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21608	Committed	Construct auxiliary lanes (one in each direction) on U.S. 101 from Marsh Road to Embarcadero Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21609	Committed	Improve local access from Sneath Lane and San Bruno Avenue to I-280/I-380 interchange (study phase only)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21610	New Commitment	Construct auxiliary lanes (one in each direction) on U.S. 101 from San Bruno Avenue to Grand Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21612	New Commitment	Improve access to/from west side of Dumbarton Bridge on Route 84 connecting to U.S. 101 (includes flyovers, interchange improvements and conversion of Willow Road between Route 84 and U.S. 101 to expressway)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21613	New Commitment	Improve Route 92 from San Mateo-Hayward Bridge to I-280 (includes widening and uphill passing lane from U.S. 101 to I-280)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21615	New Commitment	Reconstruct I-280/Route 1 interchange, including ramps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21623	New Commitment	Improve Caltrain stations (includes upgrades/relocation of platforms, new platforms, pedestrian tunnels, pedestrian crossings and parking improvements)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21624	New Commitment	Implement an incentive program to support transit-oriented developments within 1/2-mile of Caltrain stations that have a minimum density of 40 units per acre	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21626	New Commitment	Implement Caltrain grade separation program in San Mateo County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21892	New Commitment	Widen Woodside Road from 4 to 6 lanes from El Camino Real to Broadway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21893	New Commitment	Widen Route 92 from Half Moon Bay city limits and Pilarcitos Creek (includes widening shoulders and travel lanes to standard widths and straightening curves)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22120	Committed	Construct ferry terminal at Redwood City	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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San Mateo							
22226	New Commitment	Construct Bayshore Intermodal Facility for Caltrain, Muni light rail, and Muni and SamTrans buses (includes cross-platform transit transfers between Muni Third Street light-rail station and Caltrain Bayshore station)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22227	New Commitment	Extend Geneva Avenue to the U.S. 101/Candlestick Point interchange (includes Caltrain grade separation at Tunnel Avenue and other local street improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22229	New Commitment	Reconstruct U.S. 101/Sierra Point Parkway interchange (includes extension of Lagoon Way to U.S. 101)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22230	New Commitment	Construct auxiliary lanes (one in each direction) on I-280 from I-380 to Hickey Boulevard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22232	Committed	Construct streetscape improvements on Mission Street (Route 82) from John Daly Boulevard to San Pedro Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22239	New Commitment	Widen Manor Drive overcrossing at Route 1 (includes new traffic signals at intersection)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22261	New Commitment	Replace San Pedro Creek Bridge over Route 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22268	New Commitment	Provide countywide shuttle service between Caltrain stations and major activity centers (includes purchase of vehicles)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22271	New Commitment	Widen Skyline Boulevard (Route 35) from 2 to 4 lanes between I-280 and Sneath Lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22274	New Commitment	Install an Intelligent Transportation System (ITS) and a Traffic Operation System (TOS) countywide	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22279	New Commitment	Construct new U.S. 101/Produce Avenue interchange (includes replacement of Produce Avenue on- and off-ramps and South Airport Boulevard ramps to U.S. 101 at Wondercolor Lane)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22282	New Commitment	Improve U.S. 101 operations near Route 92	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22615	Committed	Improve station facilities and other rail improvements in Redwood City, Menlo Park and East Palo Alto in conjunction with the Dumbarton Rail Corridor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22726	Committed	Implement ferry service between South San Francisco and Alameda/Oakland	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22751	New Commitment	Improve operations and safety of Route 1 in Half Moon Bay (includes extending Route 1 to Half Moon Bay city limits and channelization at local intersections)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22756	New Commitment	Reconstruct U.S. 101/Candlestick Point interchange	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94643	Committed	Widen Route 92 from Half Moon Bay city limits to Route 1 (includes adding left-turn lanes, signal modifications, shoulders and bicycle lanes)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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San Mateo							
94644	New Commitment	Construct westbound slow-vehicle lane on Route 92 from Route 35 to I-280	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94656	Committed	Construct Devil's Slide Bypass between Montara and Pacifica	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94667	Committed	Provide SamTrans Americans with Disabilities Act (ADA) paratransit services (includes operating support and purchase of new paratransit vehicles)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98176	Committed	Construct auxiliary lanes on U.S. 101 from 3rd Avenue to Millbrae and reconstruct U.S. 101/Peninsula interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
98204	New Commitment	Add travel lane (one in each direction) on Route 1 (Calera Parkway) between Fassler Avenue and Westport Drive in Pacifica (includes traffic signal coordination on Fassler Avenue and Reina Del Mar Avenue)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230192	Committed	Improve SamTrans bus services (includes enhanced service levels, transit priority measures, signal timing and dedicated bus lanes)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230349	Committed	Improve local access to National Park Service (NPS) lands in San Mateo	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230417	Committed	Modify U.S. 101/Holly Street interchange (includes widening eastbound to northbound loop to 2 lanes and eliminating northbound to westbound loop)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230424	Committed	Modify Route 92/El Camino Real interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230428	Committed	Extend Blomquist Street over Redwood Creek to East Bayshore and Bair Island Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230430	Committed	Implement San Mateo's bicycle and pedestrian program	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230434	Committed	Implement local circulation improvements and the local streets traffic management program	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230592	Committed	Improve streetscape and traffic calming along Bay Road, and construct new northern access connection between Demeter Street and University Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230697	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230704	Committed	Make Route 92 operational improvements to Chess Drive on-ramps	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Santa Clara							
21702	New Commitment	Construct interchange at U.S. 101 and Buena Vista Avenue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21714	New Commitment	Widen U.S. 101 between Monterey Highway and Route 25 and construct an interchange at U.S. 101/Route 25 (includes an extension to Santa Teresa Boulevard)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21719	New Commitment	Improve I-880/I-280/Stevens Creek Boulevard interchange (includes eliminating eastbound off-ramp loop, reconfiguring the off-ramp to eastbound Stevens Creek Boulevard and improving Winchester Boulevard at I-280)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21720	New Commitment	Improve U.S. 101/Tennant Avenue interchange, including constructing a new bridge parallel to existing bridge over U.S. 101, widening Tennant Avenue from 2 lanes to 4 lanes with bicycle lanes and sidewalks, and adding a new northbound loop on-ramp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21722	New Commitment	Improve U.S. 101 southbound Trimble Road/De La Cruz Boulevard/Central Expressway interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21749	New Commitment	Extend Butterfield Boulevard from Tennant Avenue to Watsonville Road (includes new roadway segment, railroad overpass bridge, drainage channel, traffic signal upgrade, median, landscaping, bicycle lanes and sidewalks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21760	Committed	Double-track segments of the Caltrain line between San Jose and Gilroy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21785	New Commitment	Reconfigure local roadway and interchange at U.S. 101/Blossom Hill Road in San Jose (includes widening Blossom Hill Road over U.S. 101)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21787	Committed	Expand the Palo Alto Caltrain Station and Bus Transit Center	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21790	Committed	Provide VTA's share of funds for additional train sets, passenger facilities, and service upgrades for the ACE service from San Joaquin and Alameda counties	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21797	Committed	Implement Route 17 bus service improvements between downtown San Jose and downtown Santa Cruz	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21921	Committed	Extend BART from Fremont (Warm Springs) to San Jose/Santa Clara (includes environmental, preliminary engineering, property acquisition and construction phases)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21922	Committed	Implement the Mineta San Jose International Airport automated people-mover service	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21923	Committed	Implement Bus Rapid Transit (BRT) in the Alameda and El Camino Real corridors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22014	Committed	Implement Bus Rapid Transit (BRT) in the Santa Clara-Alum Rock Corridor with the potential to convert to light-rail in the future (Santa Clara-Alum Rock Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22019	Committed	Convert Bus Rapid Transit (BRT) to light-rail transit in the Santa Clara-Alum Rock corridor (Santa Clara-Alum Rock Phase 2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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Santa Clara							
22118	New Commitment	Extend Hill Road from East Main Avenue to Peet Avenue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22134	Committed	Construct a lane on southbound U.S. 101 using the existing median from south of Story Road to Yerba Buena Road; modify the U.S. 101/Tully road interchange to a partial cloverleaf	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22142	New Commitment	Improve U.S. 101/Capitol Expressway interchange (includes new northbound on-ramp from Yerba Buena Road)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22145	New Commitment	Widen westbound Route 237 on-ramp from Route 237 to northbound U.S. 101 to 2 lanes and add auxiliary lane on northbound U.S. 101 from Route 237 on-ramp to Ellis Street interchange (includes Traffic Operation System/TOS elements)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22153	New Commitment	Extend Mary Avenue north across Route 237 (includes reconfiguring the Mathilda Avenue/U.S. 101 interchange)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22156	New Commitment	Improve Route 85 northbound to Route 237 eastbound connector ramp and construct auxiliary lane on eastbound Route 237 between Route 85 and Middlefield Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22162	New Commitment	Improve Route 237 westbound to Route 85 southbound connector ramp (includes widening off-ramp to Route 85 to 2 lanes and adding a southbound auxiliary lane between Route 237 and El Camino Real interchange on Route 85)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22175	New Commitment	Widen Almaden Expressway to 8 lanes between Coleman Road and Blossom Hill Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22179	New Commitment	Widen Central Expressway from 4 to 6 lanes between Lawrence Expressway and San Tomas Expressway	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22180	New Commitment	Widen Central Expressway between Lawrence Expressway and Mary Avenue to provide auxiliary lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22186	New Commitment	Widen San Tomas Expressway to 8 lanes between El Camino Real (Route 82) and Williams Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22246	Committed	Implement bicycle and pedestrian improvements on Blossom Hill Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22808	Committed	Implement Caltrain grade separation program in Santa Clara County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22809	New Commitment	Realign DeWitt Avenue/Sunnyside Avenue intersection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22814	New Commitment	Extend Foothill Expressway westbound deceleration lane at San Antonio Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22815	New Commitment	Upgrade Miramonte Avenue bikeway to Class II between Mountain View and Foothill Expressway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22822	New Commitment	Provide real-time expressway traffic information in Santa Clara County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Santa Clara							
22839	Committed	Convert the HOV lane on Central Expressway between San Tomas and De La Cruz to a general purpose lane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22842	New Commitment	Improve Route 152/Ferguson Road intersection, includes lighting and widening	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22843	New Commitment	Widen Lawrence Expressway from 6 to 8 lanes between Moorpark Avenue/Bollinger Road and south of Calvert Court	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22854	New Commitment	Improve bicycle/pedestrian safety at I-280/Oregon-Page Mill interchange	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22873	New Commitment	Widen Loyola Bridge over Foothill Expressway to add a third lane for left turns and improve bicycle/pedestrian access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22878	New Commitment	Realign Wildwood Avenue to connect with Lawrence Expressway (includes new traffic signal)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22883	New Commitment	Modify medians on Lawrence Expressway (including those at Lochinvar Avenue, De Sota Avenue, Golden State Drive, Granada Avenue, Buckley Street and St. Lawrence Drive/Lawrence Station Road) for limited access	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22895	New Commitment	Improve the operations of San Tomas Expressway/Route 17 interchange (includes restriping the eastbound through lane on White Oaks Road and adding a second right-turn lane on the southbound off-ramp)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22909	Committed	Fund the operating and capital needs of Measure A transit services	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22910	New Commitment	Add Traffic Operations System (TOS) infrastructure on Santa Teresa Boulevard between Day Road and Mesa Road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22925	New Commitment	Realign existing curve on DeWitt Avenue between Edmundson Avenue and Spring Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22944	Committed	Widen I-880 for HOV lanes in both directions from Route 237 in Milpitas to U.S. 101 in San Jose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22956	Committed	Extend the Capitol Avenue light-rail line from the Alum Rock Transit Center to a rebuilt Eastridge Transit Center	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22965	New Commitment	Construct U.S. 101/Mabury Road/Taylor Street interchange	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22978	Committed	Extend the Capitol Expressway light-rail transit (LRT) from Eastridge Transit Center to Nieman Boulevard	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22979	Committed	Construct local roadway improvements over-crossing U.S. 101 (includes local circulation improvements to Zanker Road, Old Bayshore Highway, N. 4th Street and Skyport Drive)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
98119	Committed	Extend light-rail transit from Winchester Station to Route 85 (Vasona Junction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Santa Clara							
230174	New Commitment	Construct a 4-lane bridge across Uvas Creek connecting the east and west sides of Tenth Street, including 4 travel lanes, bicycle lanes, sidewalks and a new traffic signal at the intersection of Tenth Street and Uvas Park Drive	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230175	New Commitment	Construct a new 2-lane overcrossing on Las Animas Avenue at U.S. 101 (includes shoulders, bicycle lanes and sidewalks)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230200	New Commitment	Extend Autumn Street from Union Pacific Railroad crossing to Park Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230201	New Commitment	Widen Coleman Avenue from 4 to 6 lanes from I-880 to Taylor Street	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230210	New Commitment	Rebuild box culvert under San Tomas Expressway	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230242	New Commitment	Add Capitol Expressway Traffic Operations System (TOS) between U.S. 101 and Almaden Expressway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230246	New Commitment	Improve intersection at Lawrence Expressway and Prospect Road by adding a second left-turn lane and modifying the existing traffic signals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230251	New Commitment	Improve expressway traffic operations system (TOS) in Santa Clara county (includes automated traffic count collection system, wireless controller communication system, wireless vehicular detection system, and signal and video infrastructure upgrades)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230262	New Commitment	Construct a new interchange at U.S. 101 and Montague Expressway	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230265	New Commitment	Improve the operations of the intersection of Montague Expressway and Mission College Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230267	Committed	Widen Montague Expressway to 8 lanes for HOV lanes between Lick Mill and Trade Zone boulevards and on Guadalupe River Bridge and Penitencia Creek Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230269	Committed	Construct a new interchange at Trimble Road and Montague Expressway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230273	New Commitment	Widen Montague Expressway to 8 lanes between Trade Zone Boulevard and I-680 and to 6 lanes between I-680 and Park Victoria Drive for HOV lanes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230292	New Commitment	Implement signal coordination between expressway and major cross-street signals in Santa Clara county	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230294	Committed	Conduct environmental and design studies to widen and create new alignment for Route 152 (from Route 156 to U.S. 101)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230298	New Commitment	Replace Calaveras Boulevard 4-lane bridge over the Union Pacific Railroad tracks with new 6-lane structure with bicycle and pedestrian facilities and circulation improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230302	New Commitment	Improve the intersection of Dixon Landing Road and North Milpitas Boulevard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Santa Clara							
230304	Committed	Widen Dixon Landing Road from 4 to 6 lanes between North Milpitas Boulevard and I-880	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230339	Committed	Convert HOV queue-jump lanes along Central Expressway at Bowers Avenue to general purpose lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230347	New Commitment	Improve U.S. 101 southbound ramps at 10th Street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230350	New Commitment	Widen southbound U.S. 101 off-ramp at Cochrane Road from 2 to 3 lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230356	Committed	Construct interchange at Lawrence Expressway and Arques Avenue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230363	Committed	Construct interchange at I-880 and Montague Expressway (includes improvements to Montague Expressway)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230385	New Commitment	Purchase and install emergency vehicle pre-emption detectors and video detection cameras at signalized intersections in downtown Palo Alto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230407	New Commitment	Widen Route 17 off-ramp southbound at Hamilton Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230445	New Commitment	Improve Great America Parkway and Mission College Boulevard intersection (includes adding triple left-turn lanes in two directions and traffic signal upgrades)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230449	New Commitment	Extend Charcot Avenue over I-880 as a new 2-lane roadway with bicycle and pedestrian improvements to connect to North San Jose employment center	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230451	New Commitment	Rehabilitate Fatjo Place, Thompson Place, Arguello Place, Bray Avenue and Graham Lane	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230452	New Commitment	Convert downtown one-way couplets to two-way streets along 10th/11th Streets, Almaden Boulevard/Vine Street and 2nd/3rd Streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230456	Committed	Widen Zanker Road from 4 to 6 lanes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230457	New Commitment	Improve Oakland Road from U.S. 101 to Montague Expressway by providing landscaping and operational improvements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230458	New Commitment	Widen Berryessa Road from U.S. 101 to I-680 to provide access to planned Berryessa BART station	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230459	New Commitment	Extend Chynoweth Avenue from Almaden Expressway to Winfield Road	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230460	New Commitment	Widen Snell Avenue from Branham Lane to Chynoweth Avenue	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230461	New Commitment	Widen Branham Lane from Vista Park Drive to Snell Avenue (includes bicycle and pedestrian facilities)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230469	Committed	Make local circulation improvements on Santa Teresa Boulevard (includes medians, landscaping, sidewalks and bicycle lanes)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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Santa Clara							
230471	Committed	Widen intersections and improve sidewalks throughout the city of Sunnyvale	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230492	Committed	Implement local roadway improvements to Old Oakland Road over U.S. 101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230531	Committed	Construct auxiliary lanes on U.S. 101 in Mountain View and Palo Alto, from Route 85 to Embarcadero Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230532	Committed	Improve interchange at Route 237/North 1st Street	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230534	Committed	Electrify Caltrain line from Tamien Station to Gilroy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230547	Committed	Implement Bus Rapid Transit (BRT) on Monterey Highway	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230551	Committed	Implement the Zero Emissions Bus (ZEB) program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230552	Committed	Install and modify VTA facilities to support the Zero Emissions Bus (ZEB) program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230554	Committed	Implement Bus Rapid Transit (BRT) between Sunnyvale and Cupertino	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230573	New Commitment	Improve ramps and intersections on Fremont and Bernardo avenues at Route 85	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230574	Committed	Improve the Route 85/Cottle Road interchange	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230577	New Commitment	Improve ramp and intersection on Route 152 eastbound at Bloomfield Avenue	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230579	New Commitment	Improve ramp/intersection on Route 152 eastbound at Frazier Lake Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230584	New Commitment	Improve ramp/intersection at Route 152 westbound at Watsonville Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230595	Committed	Implement Bus Rapid Transit (BRT) on Stevens Creek Boulevard from Diridon Station to DeAnza College	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230641	Committed	Implement bicycle and pedestrian improvements in North San Jose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230644	Committed	Implement miscellaneous intersection improvements in North San Jose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230645	Committed	Implement improvements to the North First Street Core Area grid	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230698	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230705	Committed	Improve local interchanges and auxiliary lanes	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230706	Committed	Make local streets and roads improvements (includes street channelization, overcrossings, bicycle and pedestrian access, and safety improvements)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Solano							
21341	New Commitment	Construct new Fairfield/Vacaville multimodal train station for Capitol Corridor intercity rail service (Phases 1, 2 and 3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22629	New Commitment	Construct new Vallejo Baylink Ferry Terminal (includes additional parking, upgrade of bus transfer facilities and pedestrian access improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22630	Committed	Improve Parkway Boulevard overcrossing over Union Pacific Railroad tracks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22631	Committed	Construct Route 12 westbound truck climbing lane at Red Top Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22632	Committed	Widen American Canyon Road overpass at I-80	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22633	Committed	Widen Azuar Drive/Cedar Avenue from 2 to 4 lanes between P Street and Residential Parkway (includes bicycle lanes, railroad signals and rehabilitation improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22634	Committed	Construct an adjacent 200-space, at-grade parking lot at the Vacaville Intermodal Station (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22700	New Commitment	Construct parallel corridor north of I-80 from Red Top Road to Abernathy Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94151	New Commitment	Construct 4-lane Jepson Parkway from Route 12 to Leisure Town Road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230311	Committed	Widen and improve Peterson Road with the addition of a truck-stacking lane (includes drainage improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230322	Committed	Rebuild and relocate eastbound Cordelia Truck Scales Facility (includes a new 4-lane bridge across Suisun Creek and new ramps at eastbound Route 12 and eastbound I-80)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230326	New Commitment	Improve I-80/I-680/Route 12 interchange, including connecting I-680 northbound to Route 12 westbound (Jamieson Canyon), adding connectors and reconstructing local interchanges (Phase 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230468	New Commitment	Provide auxiliary lanes on I-80 in eastbound and westbound directions from I-680 to Air Base Parkway (includes a new eastbound mixed flow lane from Route 12 east to Air Base Parkway)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230635	New Commitment	Construct new 400-space parking garage at the Vacaville Intermodal Station (Phase 2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230650	Committed	Widen I-80 from Red Top Road to Air Base Parkway to add HOV lanes in both directions (includes pavement rehabilitation and ramp metering)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
230699	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230708	Committed	Improve local interchanges and auxiliary lanes and make local streets and roads improvements (includes street channelization, overcrossings, bicycle and pedestrian access, and safety improvements)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Sonoma							
21070	Committed	Realign and widen Route 116 (Stage Gulch Road) along Champlin Creek to improve safety, adding shoulders to accommodate pedestrians and bicyclists	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21884	Committed	Construct Petaluma crosstown connector/interchange	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21902	Committed	Widen U.S. 101 for HOV lanes from Pepper Road to Rohnert Park Expressway (Central Phase A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
21908	Committed	Study the environmental impacts of a future Port Sonoma ferry service and facility	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22190	New Commitment	Improve channelization and traffic signalization at Route 116/Route 121 intersection (includes Arnold Drive improvements)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22191	New Commitment	Improve U.S. 101 North/Airport Boulevard interchange (includes widening Airport Boulevard to 2 lanes in each direction and adding turn lanes)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22193	New Commitment	Construct new bypass on Route 116 in Forestville	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22194	New Commitment	Improve safety on Mark West Springs Road/Porter Creek Road (includes adding standard shoulders and turn pockets)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22195	New Commitment	Improve U.S. 101/Old Redwood Highway interchange (includes modifying/replacing existing 2-lane interchange to at least a 5-lane interchange and improving ramps)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22197	New Commitment	Improve local circulation at various locations in Town of Penngrove (includes improvements to Main Street, Petaluma Hill Road, Adobe Road, Old Redwood Highway and U.S. 101/Railroad Avenue)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22203	New Commitment	Improve channelization and traffic signalization on River Road from Fulton Road to the town of Guerneville	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22204	New Commitment	Widen Fulton Road from 2 to 4 lanes from Guerneville Road to U.S. 101 and construct Route 12/Fulton Road interchange	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22205	New Commitment	Improve U.S. 101/Hearn Avenue interchange (includes widening overcrossing and ramps)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22207	New Commitment	Extend Farmers Lane from Bellevue Avenue to Bennett Valley Road as a 3-lane or 4-lane arterial (includes a bicycle lane and sidewalk)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
22438	New Commitment	Improve Bodega Highway west of Sebastopol (includes straightening curves near Occidental and adding turn pockets)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22490	New Commitment	Convert bridges in Sonoma County from 1-lane to 2-lane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22652	Committed	Rehabilitate pavement on U.S. 101 from Steele Lane to Grant Avenue overhead in Healdsburg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22655	Committed	Widen U.S. 101 for HOV lanes (one in each direction) from Rohnert Park Expressway to Santa Rosa Avenue (includes interchange improvements and ramp metering)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

* "Committed" projects are those projects that are fully funded via funds reserved by law for specific uses, or allocated by MTC action prior to the development of the Transportation 2035 Plan

"New Commitment" projects are those projects funded in part or in full with "discretionary funds" which are flexible funds available to MTC (and not already programmed to "Committed" projects) for assignment via the Transportation 2035 Plan planning process.

Reference Number	Investment*	Project/Program	Complete and Operational By			2011 TIP	Reg'l Signif.
			2015	2025	2035		
Sonoma							
22656	New Commitment	Improve U.S. 101/East Washington Street interchange (includes new northbound on-ramp and improvements to southbound on-ramp)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
94689	New Commitment	Improve U.S. 101/Arata Lane interchange in Windsor, including new on- and off-ramps and realignment of Los Amigos Road north of Arata Lane (Phase 4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
94691	New Commitment	Install traffic signal system on Route 121 and improve channelization at 8th Street	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
98183	Committed	Widen U.S. 101 for HOV lanes between Steele Lane and Windsor River Road (Phase A)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
230341	New Commitment	Improve channelization and traffic signalization on Mirabel Road and Route 116	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230345	New Commitment	Rehabilitate or replace existing Healdsburg Avenue Bridge	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230437	New Commitment	Provide infrastructure for two high-frequency Bus Rapid Transit corridors in Santa Rosa (includes vehicle purchases, infrastructure such as bus stops/intermodal nodes, and technology support)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
230442	New Commitment	Implement service enhancements for Santa Rosa CityBus (includes technology enhancements such as video, automatic vehicle location and farebox upgrades, operations and maintenance facilities improvements and vehicle purchases)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
230700	New Commitment	Local streets and roads maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

* "Committed" projects are those projects that are fully funded via funds reserved by law for specific uses, or allocated by MTC action prior to the development of the Transportation 2035 Plan

"New Commitment" projects are those projects funded in part or in full with "discretionary funds" which are flexible funds available to MTC (and not already programmed to "Committed" projects) for assignment via the Transportation 2035 Plan planning process.

Appendix B
List of Projects in the 2011 Transportation Improvement Program

Appendix B: 2011 TIP Amendment: Air Quality Conformity Analysis (sorted by County, then by Sponsor, then by TIP ID)

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
ALAMEDA COUNTY							
Alameda	AC Transit	ALA090011	230703	I-680 Express Bus Service	Delay in project schedule/funding and will not be completed by FY15	2025	\$10,400,000
Alameda	ACCMA	ALA090003	230099	I-580/I-680 Improvements	Moved \$39.5M RTP-LRP out from 12/13 to 14/15.	2025	\$392,500,000
Alameda	ACCMA	ALA090005	22765	I-580/I-680 Interchange HOV direct connectors	Update scope to only show PE phase and updated funding plan to Move \$10M RTP-LRP out from 13/14 to 14/15 and clarified project description	2025	\$15,000,000
Alameda	ACCMA	ALA110002	230053	I-880/Industrial Parkway West Interchange	Adding new AQC non-exempt Interchange project to 2011 TIP. This TIP listing covers phase 1 and 2 of project. Phase 1 is RTP #230053 for \$14.7M and Phase 2 is RTP	2015	\$41,000,000
Alameda	Alameda County	ALA090023	22783	Fruitvale Avenue Roadway Bridge Seismic Retrofit	Move \$3M of RTP-LRP funding out from 12/13 to 14/15 and will not be complete by 2015	2025	\$8,000,000
Alameda	BART	ALA050015	21132	BART - Warm Springs Extension	Update project funding plan and project completion date - FY16	2025	\$890,000,000
Alameda	BART	ALA110003	21132	Hayward Shop and Yard Expansion	TIGER-II grant application has been submitted for this project.	2025	\$62,282,009
Alameda	Hayward	ALA090016	21093	Rt 92/Clawiter/Whitesell Interchange Improvements	Increasing RTP-LRP funding to \$52M and moving it out to FY16	2025	\$57,900,000
Alameda	Oakland	ALA991081	230170	42nd Ave. & High St. I-880 Access Improv.	Moving RTP-LRP funding out to FY15	2015	\$19,285,000
Alameda	Port of Oakland	ALA090027	22082	7th Street Grade Separation and Roadway Improvement	The project scope and budget have been reduced.	2015	\$220,504,000
Alameda	WETA	ALA110001	22006	Central Bay Operations and Maintenance Facility	Amend in new non-exempt project into TIP.	2015	\$25,000,000

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
CONTRA COSTA COUNTY							
Contra Costa	AC Transit	CC-090012	94045	Procure New Express Buses for I-80 HOV	Project schedule delayed beyond FY15	2025	\$10,000,000
Contra Costa	BART	CC-050025	21211	E-BART - East Contra Costa Rail Extension	Update with current funding plan	2025	\$463,250,000
Contra Costa	Brentwood	CC-090021	230251(22607)	Brentwood Boulevard North (Phases II & III)	Update project scope and funding information	2025	\$15,150,000
Contra Costa	Caltrans	CC-090032	22089	Richmond Rail Connector	Project scope and budget have been updated due to funding constraints. Sponsor agency has been corrected.	2015	\$25,820,000
Contra Costa	San Pablo	CC-110001	230693	El Portal Drive Rehabilitation / Gateway Phases II	Adding a new project to the TIP. The project could be an air quality project.	2015	\$1,920,000
Contra Costa	State Route 4 Bypass Authority	CC-070054	98222	SR4 /SR160 Interchange and Connectors	Clarify project scope and project description to have all movements. There is no scope change. Update funding plan to match the RTP estimates.	2025	\$60,000,000
Contra Costa	WETA	CC-110002	22006	Martinez Ferry Service	2011 TIP Development: Add in new non-exempt project	2015	\$812,500
Contra Costa	WETA	CC-110003	22006	Antioch Ferry Service	2011 TIP Development: Add in new non-exempt project	2015	\$812,500
MARIN COUNTY							
Marin	Larkspur	MRN110001	21013	Doherty Drive Bridge Replacement	New project entry	2015	\$3,111,100
Marin	TAM	MRN090002	21030	U.S. 101 NB to I 580 EB	Archive project - Funding redirected to other projects	2025	\$0
Marin	TAM	MRN090003	21315	U.S. 101/Miller Creek Road Signalization	Archive project - Funding redirected to other projects	2015	\$0
Marin	TAM	MRN090004	22437	U.S. 101 Auxiliary Lanes	Archive project - Funding redirected to other projects	2015	\$0
Marin	TAM	MRN090005	22753	Park and Ride Lots	Archive project - Funding redirected to other projects	2035	\$0
Marin	TAM	MRN090006	98179	U.S. 101/Tiburon Boulevard Interchange	Archive project - Funding redirected to other projects	2025	\$0
Marin	TAM	MRN090009	230431	Intermodal Transit Hubs	Archive project - Funding redirected to other projects	2015	\$0
Marin	TAM	MRN090010	230549	Local Arterial Improvements on U.S. 101	Archive project - Funding redirected to other projects	2035	\$0

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
NAPA COUNTY							
Napa	NCTPA	NAP110001	230519	Napa-SR 29/SR 128 Rutherford Safety Improvements	2011 TIP Development: Add in new non-exempt project	2015	\$4,000,000
REGIONAL							
Regional	MTC	REG110004	230550	Climate Innovative Grant Program - Showcase	2011 TIP Development: Amend in a new non-exempt project under the Climate Innovative Grant Program for showcase projects	2035	\$8,560,000
Regional	MTC	REG110007	230550	Climate Innovative Grants-- Parking Management	2011 TIP Development: Amend in a new non-exempt project under the Climate Innovative Grant Program for parking management	2035	\$9,340,000
Regional	MTC	REG110008	230550	Climate Innovative Grants-- Electric Vehicles	2011 TIP Development: Amend in a new non-exempt project under the Climate Innovative Grant Program for electric vehicle / infrastructure	2035	\$9,560,000
Regional	MTC	REG110009	230550	Climate Initiatives Innovative Grants- TDM	2011 TIP Development: Amend in a new non-exempt project under the Climate Innovative Grant Program for TDM strategies	2035	\$9,640,000
Regional	Various	REG110006	230550	Safe Routes to School Creative Grants	2011 TIP Development: Add in a new non-exempt Safe Routes to School Creative Grant Program.	2035	\$2,260,000
Regional	WETA	REG110001	22006	Maintenance Barge and Emergency Floats and Ramps	Amend in new non-exempt project with \$15,250,000 in State Prop 1B funds.	2015	\$15,250,000
SAN FRANCISCO COUNTY							
San Francisco	Caltrain	SF-010028	21627	Caltrain Electrification	There is a need to revise the funding for this project.	2025	\$785,026,000
San Francisco	SF City/County	SF-110001	22249	I-280 and Mariposa Ramp Improvements	Amend in a new AQ Non-Exempt Project into the TIP in conformance to the T-2035 plan	2015	\$6,500,000
San Francisco	SF City/County	SF-110002	22249	UCSF at Mission Bay Transportation Improvements	Amend in a new Project into the TIP in conformance to the T-2035 plan	2015	\$24,400,000
San Francisco	SF City/County	SF-110003	22249	Mission Bay Biotech Cluster East Improvements	Amend in a new into the TIP in conformance to the T-2035 plan	2015	\$30,800,000
San Francisco	SF City/County	SF-110004	22249	Mission Bay Residential Improvements Ph. II & III	Amend in a new Project into the TIP in conformance to the T-2035 plan	2015	\$51,400,000
San Francisco	SF County TA	SF-070027	230555	Yerba Buena Island (YBI) Ramp Improvements	Update project scope and funding and extends project limits to include the bridges on the west side of the Island	2025	\$128,952,813
San Francisco	SF DPW	SF-090002	21549	Arterial from Harney Way & Jamestown Ave. to Crisp	Scope change in AQ Non-Exempt project; add explanation and documentation of "other local" funds	2015	\$57,000,000
San Francisco	SF DPW	SF-090007	21549	Widen Cesar Chavez/ Evans Structure	2011 TIP Development: Delete project because the funds are being redirected	2025	\$0
San Francisco	SF DPW	SF-110005	230168	Great Highway Restoration	Amend a new AQ non-Exempt project into the TIP	2015	\$13,265,000

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
San Francisco	SF DPW	SF-110006	21549	Hunters Pt Shipyard & Candlestick Pt Proj Roadways	Amend a new AQ non-Exempt project into the TIP	2015	\$187,000,000
San Francisco	SFMTA	SF-090012	22412	Additional Light Rail Vehicles to Expand Muni Rail	Update project schedule and change the funding year for the RTP-LRP funds from FY13 to FY15.	2025	\$44,473,000

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
SAN MATEO COUNTY							
San Mateo	Brisbane	SM-090004	22756	US 101/Candlestick Interchange	Update project schedule and change the	2025	\$15,000,000
San Mateo	Caltrain	SM-070008	230710 (21619)	Caltrain Express: Phase 2	There is a need to revise the project description and add funding elements.	2025	\$368,500,000
San Mateo	Caltrans	SM-990003	94643	SR 92 Slow Vehicle Lane Improvements	Update project schedule and costs, project will be completed after 2015	2025	\$28,640,000
San Mateo	SamTrans	SM-110001	94667	Redi-Wheels Expansion Vehicles	Amend in a new non-exempt project with \$116,860 in Other Local, which is expected to be apportioned from FTA 5310,\$49,000 in FY10 Prop 1B SLPP shown as "Other	2015	\$215,000
San Mateo	San Carlos	SM-090008	230417	US101/Holly Interchange modification	Update project schedule and the project will be completed after 2015	2025	\$3,000,000
San Mateo	SMCTA	SM-090014	22282	Improve US 101 operations near Rte 92	Update program schedule and funding and the project will be completed only after 2015	2025	\$27,000,000
San Mateo	SSF	SM-110003	22279	Utah Avenue (Produce Avenue) Overcrossing	Add new non-exempt project to TIP. Utah Avenue (formerly Produce Avenue) Overcrossing will be phased with adjacent on/off ramp modifications being constructed	2025	\$15,810,000
San Mateo	WETA	SM-110002	22120	Redwood City Ferry Service	2011 TIP Development: Add in new non-exempt project	2015	\$15,000,000
SANTA CLARA COUNTY							
Santa Clara	San Jose	SCL070004	22965	US 101 / Mabury New Interchange	Update project schedule, cost and contact information	2025	\$20,750,000
Santa Clara	San Jose	SCL090003	230449	Charcot Avenue Extension over I-880	Update Schedule and contact information	2025	\$34,000,000
Santa Clara	San Jose	SCL090005	230201	Coleman Avenue Widening from I-880 to Taylor Stree	Update project schedule and funding information	2025	\$13,000,000
Santa Clara	San Jose	SCL090007	230645	North San Jose Intersection Improvements	Update Schedule and contact information	2025	\$61,000,000
Santa Clara	San Jose	SCL090008	230644	San Jose: Various Intersection Improvements	Update schedule and contact for the 2011 TIP	2025	\$29,000,000
Santa Clara	San Jose	SCL090015	230363	I-880/Montague Expressway interchange Improvements	Update schedule and sponsor	2025	\$58,000,000
Santa Clara	San Jose	SCL110001	230706	Alameda Roadway Modifications	Add new exempt project with \$5M in local funds	2015	\$5,000,000
Santa Clara	San Jose	SCL110006	230200	Autumn Street Extension	2011 TIP - Amend to include new project for air quality conformance	2015	\$35,000,000
Santa Clara	Santa Clara Co	SCL090002	230210	San Tomas Expressway Box Culvert Repair - Phase 1	Correct RTP ID number, add in all project phases, and update project information	2025	\$15,900,000
Santa Clara	Santa Clara Co	SCL090012	22843	Lawrence Expressway Widening	Archive project - Funding redirected to other projects	2035	\$0

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
Santa Clara	Santa Clara Co	SCL090013	22179	Central Expressway widening: Lawrence to San Tomas	Archive project - Funding redirected to other projects	2025	\$0
Santa Clara	Santa Clara Co	SCL090014	22175	Almaden Expressway widening: Coleman-Blossom Hill	Archive project - Funding redirected to other projects	2015	\$0
Santa Clara	Santa Clara Co	SCL090017	230273	Widen Montague Expwy bet Trade Zone & Park Victori	Fix project name and update project information including funding and delivery milestones	2025	\$24,000,000
Santa Clara	Santa Clara Co	SCL090027	230262	US 101/Montague Expressway Interchange	Clarify project description and update project information including funding and delivery milestones	2025	\$13,500,000
Santa Clara	Santa Clara Co	SCL110003	22873	Loyola Bridge Widening	Add new Air Quality Non-Exempt Project into the TIP with \$2,949,200 in Other Local funds	2015	\$2,949,200
Santa Clara	Santa Clara Co	SCL110004	22854	Page Mill Road/I-280 Interchange Reconfiguration	Add new Air Quality Non-Exempt Project into the TIP in conformance to the T-2035 plan and in anticipation of receiving a Federal earmark requested for FY 2011.	2015	\$9,500,000
Santa Clara	Santa Clara Co	SCL110007	22186	San Tomas Expressway Widening	Add new Air Quality Non-Exempt Project into the TIP in conformance to the T-2035 plan and in anticipation of receiving a Federal earmark requested for FY 2011.	2025	\$69,900,000
Santa Clara	Sunnyvale	SCL050089	22153	Mary Avenue Extension	Update description, funding information, delivery milestones.	2025	\$62,825,000
Santa Clara	Sunnyvale	SCL110011	230471	Sunnyvale Ave/Old San Francisco Rd Intersection	2011 TIP Development: Add in new project	2015	\$835,000
Santa Clara	VTA	SCL050085	22979	US101/4th St overpass & 4th /Zanker/Skyport	Update project funding plan and schedule: Move ENV to 2014, RTP-LRP funds to 2015/2017.	2025	\$7,000,000
Santa Clara	VTA	SCL070003	21714	SR 25/Santa Teresa Blvd/US 101 IC	Project schedule delay, update funding, RTP ID and contact information	2025	\$233,000,000
Santa Clara	VTA	SCL070008	21719	I-880 Corridor Improvement Project	Archive project because funds have been transferred to SCL070002.	2025	\$0
Santa Clara	VTA	SCL070018	22848	Santa Clara County HOT Lane Project	Archive project-superseded by SCL090029, SCL090030 and FMS-ID 4198.	not found	\$0
Santa Clara	VTA	SCL090020	230705	SR 87/Capitol/Narvaez Interchange Improvements	Archive project - Funding redirected to other projects	2035	\$0
Santa Clara	VTA	SCL090021	22156	SR 85 NB to SR 237 EB Connector Ramp Improvements	Archive project - Funding redirected to other projects	2015	\$0
Santa Clara	VTA	SCL090023	230532	SR 237/North 1st Street Interchange Improvements	Archive project - Funding redirected to other projects	2025	\$0
Santa Clara	VTA	SCL090024	22145	WB SR 237 on-ramp widening	Archive project - Funding redirected to other projects	2035	\$0
Santa Clara	VTA	SCL090028	230407	SR 17 SB/Hamilton Avenue off ramp Widening	2011 TIP Development: archive project because funding failed to materialize.	2025	\$0

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
Santa Clara	VTA	SCL090040	98119	LRT Extension to Vasona Junction	Add ROW/CON phases to project.	2025	\$176,000,000
Santa Clara	VTA	SCL110002	230662	US 101 Express Lanes	Add new project that supercedes SCL070018.	2025	\$84,000,000
Santa Clara	VTA	SCL110005	21921	BART - Warm Springs to Berryessa Extension	Project split from the BART - Warm Springs to San Jose Extension (BRT030001) project - This is the first phases	2025	\$2,576,500,000
Santa Clara	VTA	SCL110008	230676	SR 237 Express Lanes: I-880 to Mathilda Ave	2011 TIP Development: Add in new non-exempt project	2025	\$14,900,000
Santa Clara	VTA	SCL110009	21923	El Camino Real Bus Rapid Transit	2011 TIP Development: Add in new non-exempt project	2025	\$233,400,000
Santa Clara	VTA	SCL110010	230595	Stevens Creek Bus Rapid Transit	2011 TIP Development: Add in new non-exempt project	2025	\$145,200,000
SOLANO COUNTY							
Solano	Dixon	SOL050010	230703	SR 113 / I-80 Interchange Reconstruction	Archive project - Funding redirected to other projects	2035	\$0
Solano	Dixon	SOL050011	21809	I-80 / West A Street Interchange Reconfiguration	Archive project - Funding redirected to other projects	2015	\$0
Solano	Dixon	SOL970009	230704	I-80/Pitt School Road Interchange	Archive project - Funding redirected to other projects	2015	\$0
Solano	Fairfield	SOL991068	21341	Fairfield Transportation Center - Phase 2	Project split for tracking purposes and to archive the completed phases. This phase is being archive and the last phase is listed under SOL110007	2015	\$8,492,000
Solano	Fairfield	SOL110007	21341	Fairfield Transportation Center - Phase 3	Project split for tracking purposes: This project is one of the remaining segments of Fairfield Transportation Center projects (SOL991068). All other phases have been completed	2015	\$6,273,000
Solano	MTC	SOL110001	230659	I-80 Express Lanes (Vacaville)	2011 TIP Development: Amend in a new non-exempt project	2025	\$191,200,000
Solano	MTC	SOL110002	230660	I-80 HOV conversion to Express Lanes (Fairfield)	Amend in new non-exempt project	2015	\$40,100,000
Solano	STA	SOL050030	22243	Park/Industrial Park and Ride Facility	Project scope split into SOL110008 (Benicia Indust. Park Multi-Modal Transit Area Plan) and SOL010031 (Military/Southampton & Military/First Intermodal facility) and this	2015	\$1,475,000
Solano	STA	SOL070020	230326	I-80/I-680/SR 12 Interchange Project	Update project scope to match RTP 2035 descriptions for RPT# 230326, 22700, and 230687 as one project. Updates RM2 and STIP funding.	2015	\$150,825,000
Solano	STA	SOL090007	94151	I-80 Reliever Route: Jepson Parkway	Project split into four new phases to allow for better tracking and archive	2025	\$0

County	Sponsor	TIP ID	RTP ID	Project Name	Description of Change	Analysis Year	Total Project Cost in the TIP
Solano	STA	SOL110003	94151	Jepson: Vanden Road from Peabody to Leisure Town	Project split for tracking purposes: This project is one of four remaining segments to complete for the Jepson Parkway. The Jepson Parkway project was previously listed in	2025	\$39,156,830
Solano	STA	SOL110004	94151	Jepson: Walters Rd Ext - Peabody Rd Widening	Project split for tracking purposes: This project is one of four remaining segments to complete for the Jepson Parkway. The Jepson Parkway project was previously listed in	2025	\$13,431,000
Solano	STA	SOL110005	94151	Jepson: Leisure Town Road from Vanden to Alamo	Project split for tracking purposes: This project is one of four remaining segments to complete for the Jepson Parkway. The Jepson Parkway project was previously listed in	2025	\$10,467,000
Solano	STA	SOL110006	94151	Jepson: Leisure Town Road from Alamo to Orange	Project split for tracking purposes: This project is one of four remaining segments to complete for the Jepson Parkway. The Jepson Parkway project was previously listed in	2025	\$9,194,250
Solano	Vacaville	SOL050013	22634	Vacaville Intermodal Station - Phase 1	Project split for tracking purposes: This portion of the project has been completed and the remaining scope is listed under SOL110009	2025	\$10,931,655
Solano	Vacaville	SOL110009	230635	Vacaville Intermodal Station - Phase 2	Project split for tracking purposes: This project is the remaining segments of Vacaville Intermodal Station (SOL050013) which has been completed and archived	2025	\$10,275,750
Solano	Vallejo	SOL990017	22986	Broadway Widening: Highway 37 to Mini Drive	Archive project - Funding redirected to other projects	2015	\$0
SONOMA COUNTY							
Sonoma	Caltrans	SON010001	98183	Son 101 HOV - SR 12 to Steele & Steele Lane I/C	Update project funding plan and scope (SON110001) to show the delay in project schedule	2015	\$4,966,000
Sonoma	Caltrans	SON990001	94165	Son 101 HOV - SR 12 to Steele Lane	Updated scope to split into a new project SON110001	2015	\$133,822,000
Sonoma	SMART	SON090002	22001	Sonoma Marin Area Rail Corridor	Consolidate three TIP listings for single project into one TIP listing.	2015	\$659,159,500
Sonoma	Sonoma County TA	SON010024	21902	Son 101 HOV - Redwood Hwy to Rohnert Park Expwy	Update scope to differentiate between Phase A (OA18U) and Phase B (OA184) contracts.	2015	\$138,840,000
Sonoma	Sonoma County TA	SON110001	230689	HWY 101 HOV Lane 12/Steele - Follow-up College Ave	To create listing for College Avenue Interchange Improvements, which were split from Highway 101 Mainline Improvements SON990001 and SON010001.	2015	\$8,630,000
Grand Total							\$9,545,737,107

Appendix C
Travel Forecast Assumptions

Travel Forecasting Methods Overview and Assumptions for Transportation 2035 Plan and 2011 Transportation Improvement Plan Conformity Analysis

An overview of the travel forecasting technical methods and key input assumptions used in the Metropolitan Transportation Commission's (MTC's) Transportation 2035 Plan and 2011 Transportation Improvement Plan (TIP) conformity analysis are presented below.

1. Model Version

Travel models are frequently updated and modified. As such, a bit of detail as to which version of a given travel model is used for a given analysis is required. The current analysis uses MTC's "BAYCAST-90" travel model, as updated in Spring 2008, validated for the model year 2006, and used for MTC's 2009 Regional Transportation Plan (RTP). BAYCAST-90 generates roadway-specific estimates of vehicle usage, which are then processed and passed to the California Air Resources Board's (CARB's) vehicle emission model. CARB's "EMFAC 2007" model is used in the present analysis.

2. Travel Demand Overview

A brief overview of the BAYCAST-90 travel model is provided below; complete details are available on MTC's website¹.

A. Automobile Ownership and Workers in Household Share Model

BAYCAST-90 begins by segmenting the households assigned to each travel analysis zone (TAZ) via the land use modeling performed by the Association of Bay Area Governments (ABAG) into one of nine automobile ownership/worker categories, as follows: (i) zero worker, zero automobiles; (ii) zero worker, one automobile; (iii) zero worker, two or more automobiles; (iv) one worker, zero automobiles; (v) one worker, one automobile; (vi) one worker, two or more automobiles; (vii) two or more workers, zero automobiles; (viii) two or more workers, one automobile; and, (ix) two or more workers, two or more automobiles. Segmenting the population in this manner allows for the modeling of differential behaviors among households with varying levels of automotive mobility and labor force participation.

B. Trip Generation

Linear rates are used to convert households and employment into trip ends following the classic four-step modeling approach. MTC segments travel into the following trip purposes: home-based work (further segmented by income quartiles); home-based shop/other; home-based social/recreation; home-based grade school; home-based high school; home-based college; and non-home-based.

C. Trip Distribution

Trip ends are connected via a "gravity" model – the typical approach in a four-step model. Four separate distribution models, one for each income quartile group, are used for home-based work travel; a composite travel time, weighted by "peak" and "off-peak" mode shares (see the discussion of mode choice below for details), is used as the "impedance" measure, i.e. the metric which describes the difficulty of traveling from zone A to zone B.

¹ http://www.mtc.ca.gov/maps_and_data/datamart/forecast/

The separate distribution models for home-based shop/other, home-based social/recreation, and non-home-based travel each use the same impedance matrix, which is a weighted average of the peak and off-peak single-occupant vehicle travel time. Finally, the separate distribution models for the home-based grade school, high school, and college each use the same impedance matrix, which is the peak single-occupant vehicle travel time.

D. Travel Mode Choice Models

Nested logit discrete choice models are used to separate zone-to-zone travel flows into mode-specific zone-to-zone travel flows. For home-based work, home-based shop/other, and home-based social/recreation travel, factors are first used to segment travel into “peak” and “off-peak” segments. Peak travelers make mode choice decisions based on congested highway conditions and “peak” transit service; off-peak travelers make decisions based on free-flow highway conditions and “off-peak” transit service. Next, peak- and off-peak-specific mode choice models are applied with the following choices: drive alone; car pool with two occupants; car pool with three or more occupants; transit; bicycle; and walk.

Similarly, non-home-based travel is segmented into peak and off-peak, and mode choice models with the following choices are applied: vehicle driver, vehicle passenger, transit, bicycle, and walk.

All grade school, high school and college travel is assumed to occur during the peak period and the modal choices, with the exception of vehicle driver being unavailable to grade school students, are the same as for non-home-based travel.

E. Time-of-Day Modeling and Network Assignment

The BAYCAST-90 model takes a fairly unique approach to distributing vehicular travel through the travel day. The steps in the process are as follows. First, the procedures described above generate estimates of zone-to-zone travel by purpose (e.g. home-based work) and mode (e.g. drive alone, car pool, transit, etc). Before moving to the assignment step, home-based work trips choosing a private vehicle mode are taken through a departure time choice model in which vehicles choose whether or not to depart from home during the two-hour morning peak period (from 7 am to 9 am). Travel for all other purposes and modes are factored using “diurnal” factors that allocate vehicle travel to the two-hour morning peak period. After scaling car pool travel by assumed occupancy rates, a two-hour morning peak assignment is performed.

Next, diurnal factors are used to allocate travel to five time periods covering the entire day, specifically: early morning, midnight to 6 am; four-hour morning peak, 6 am to 10 am; midday, 10 am to 3 pm; four-hour evening peak, 3 pm to 7 pm; and, evening, 7 pm to midnight. Five time period-specific assignments are performed. Importantly, the diurnal factors segmenting vehicular travel into these five time periods are adjusted per previous results of the work travel departure time choice model. Specifically, travel during the four-hour morning peak and the four-hour evening peak is reduced by 6.8 percent and re-allocated to the early morning, midday, and evening time periods. The effect of this adjustment is so-called “peak spreading”; travelers, in response to congestion, shift their travel out of the peak period.

The congested times predicted by the two-hour and four-hour morning peak assignments are then compared. The higher value, i.e. the assignment that predicts more congestion, for each link is used to represent the “peak” period congested travel time, which is then “skimmed” (i.e. the travel time for each link on the shortest path for every origin to every destination is collected in a travel time matrix) and used in the “peak” period mode choice models as described above.

Prior to assigning travel to the roadway networks, the intraregional travel (as described above) demand is combined with interregional and commercial travel demand (as described below). A total of six static user equilibrium assignments are performed: one for each of the five time periods described above and one for the two-hour morning peak period.

Static user equilibrium assignment reconciles supply and demand by loading vehicles on a network such that no single vehicle can significantly reduce their travel time by switching routes – the network is said to be at “equilibrium” in this condition. MTC uses a 0.005 “relative gap” convergence criteria; this is MTC’s standard by which a network is defined to be in equilibrium.

Other technical details related to network assignment include: (i) typical speed/capacity look-up tables that use facility type (e.g. freeway, major arterial, etc.) and area type (e.g. suburban, rural, etc.) link definitions to code free-flow speeds and vehicle capacities; (ii) volume-delay curves of the Bureau of Public Roads (so-called “BPR” curves) and Akçelik families are used compute congested travel times.

F. Commercial Vehicle Demand

BAYCAST-90 represents commercial vehicle demand 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. In combination, these methods estimate four classes of commercial travel, specifically: “very small” trucks, two-axle four-tire commercial vehicles; “small” trucks, two-axle six-tire vehicles; “medium” trucks, three-axle vehicles; and, “combination” trucks, four-or-more axle vehicles.

G. Interregional Travel Demand

Regional travel models attempt to reconcile travel demand with available transport supply. This task is particularly difficult near the boundaries of planning regions, as models must attempt to predict travel demand with no knowledge of what land use – the primary driver of demand – or transport supply exists beyond the boundary. The typical approach to representing such interregional travel is to first estimate demand at each location where a major transport facility interacts with the boundary and to then distribute this demand to locations either within the planning region (so-called “internal/external” or “IX” travel) or to other boundary locations (so-called “external/external” or “XX” travel).

MTC uses this typical approach and informs the process with Census 2000 journey-to-work flows, which are allocated via a simple method to represent flows to and from MTC’s 1,454 travel analysis zones and 21 boundary locations (as well as flows between boundary locations).

3. Pricing Assumptions

A basic function of travel models is to predict changes in behaviors motivated by changes in travel prices. In this section, prices both endogenous and exogenous to the travel model structure are described.

A. Value of Time

BAYCAST-90 includes mode choice models in which travelers determine the best travel “mode” (e.g. automobile, transit, bicycle, etc.) for each of their daily trips. One determinant 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: (a) driving, which would take 15 minutes and cost

\$10 in parking fees; or, (b) taking transit, which would take 45 minutes and cost \$2 for the bus fare. The mode choice model structure, as estimated in the 1990's, includes coefficients that dictate how different travelers in different context make decisions between saving time and saving money. These model coefficients value time in units consistent with 1990 dollars, i.e. the model itself – not an exogenous input to the model – values time relative to costs in 1990 dollars. Because re-estimating model coefficients is an “expensive” (in terms of staff time and/or consultant resources) process, it is done infrequently, which, in effect, “locks in” the dollar year in which prices are input to the travel model. In order to use the current model’s coefficients properly, all prices must be input in 1990 dollars. In the remainder of this document, prices are presented both in (close to) current year (2009 or 2010) dollars (to give the reader an intuitive sense as to the scale of the input prices) as well as 1990 dollars (the units demanded by the model structure).

B. Parking Costs

MTC’s travel model segments space into 1,454 travel analysis zones (TAZs). Travelers move between travel analysis zones and, in doing so, burden the transport 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.

MTC’s travel model uses hourly parking rates for daily (long-term) and hourly (short-term) parkers. The 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, and then scaled by 8 hours per day; the hourly rate is the advertised hourly rate – generally higher than the rate daily parkers pay – averaged for all lots in a given TAZ. For work travel, the hourly rate for daily parkers is multiplied by eight to represent the cost of parking for a full work day; carpoolers traveling to work together share the parking cost. Non-work travelers must pay either the hourly rate for daily or hourly parkers, depending on whether the travel occurs during the “peak” period (from 6 am to 10 am or from 3 pm to 7 pm) or “off-peak” period (all other times), respectively.

To give the reader a sense of the spatial distribution and scale of parking charges in the Bay Area, Figure 1 presents a zoomed-in map of the hourly parking rates for daily parkers assumed for the 2035 model year in San Francisco, Oakland, and Berkeley; note that a handful of zones (in downtown San Jose and Palo Alto specifically) outside these areas are also priced, but not shown in Figure 1.

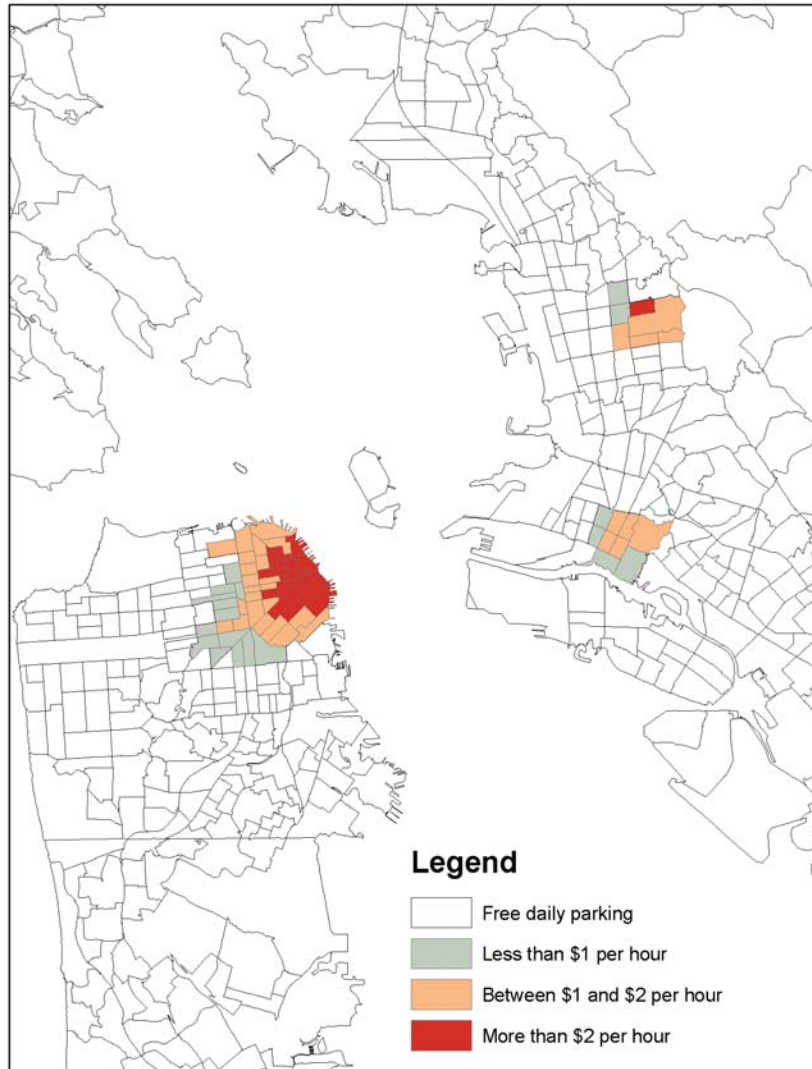


Figure 1: Model Year 2035 Hourly Parking Charge for Daily Parkers in Year 2009 Dollars by TAZ

MTC assumes that parking prices will change over time per a simple model: parking cost is assumed to increase linearly with employment density. In the current analysis, future year density estimates are based on the Association of Bay Area Government’s (ABAG’s) *Projections 2009* land use forecasts (as discussed below).

C. Perceived Automobile Operating Cost

When deciding between traveling to work 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 in determining this 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 travel models across the state, the Regional Targets Advisory Committee (formed in response to Senate Bill 375) recommended that metropolitan planning organizations (MPOs) across the state use consistent assumptions for fuel price in long range planning. Using long range estimates provided by the United States Department of Energy

(DOE), MPOs agreed to use the fuel prices and non-fuel-related prices presented in Table 1, which represents a weighted average of DOE’s low-end estimate (25 percent weight) and DOE’s high-end estimate (75 percent weight), plus a 25 cents surcharge to account for fuel generally being more expensive in California. The average fleet-wide fuel economy implied by the EMFAC 2007 software – also presented in Table 1 – is used to represent the average fleet-wide fuel economy.

Table 1: Inputs to MTC’s Perceived Automobile Operating Cost Calculations

Measure	Analysis Year		
	2015	2025	2035
Average fuel price (\$1990 per gallon)	\$2.60	\$3.32	\$3.75
Average fuel price (\$2009 per gallon)	\$3.99	\$4.91	\$5.24
EMFAC implied fuel economy (miles per gallon)	21.81	25.69	27.67
Non-fuel-related operating cost (\$1990 per mile)	\$0.04	\$0.05	\$0.06
Non-fuel-related operating cost (\$2009 per mile)	\$0.08	\$0.09	\$0.11
<i>Perceived automobile operating cost (\$1990 per mile)[†]</i>	<i>\$0.15</i>	<i>\$0.17</i>	<i>\$0.18</i>
<i>Perceived automobile operating cost (\$2009 per mile)[†]</i>	<i>\$0.26</i>	<i>\$0.28</i>	<i>\$0.30</i>

[†]This number is the sum of the fuel-related operating cost (average fuel price divided by average fuel economy) and non-fuel-related operating cost.

The above three input values are used by MTC to compute the automobile operating cost for each trip using a fairly complex method which assumes that, as speed increases, the fuel consumption rate decreases; and, as trip distance increases, the share of “cold start” fuel consumption decreases. Complete details are available in the BAYCAST-90 User’s Guide (August 2004).

D. Bridge Tolls

The bridge toll schedule as of July 1, 2010 – examples of which are shown in Table 2 below to illustrate the scale of common tolls – is used in the analysis. The bridge tolls, as expressed in 1990 dollars, do not change in the forecast years; the implication of this assumption is that MTC expects bridge fares to be as “expensive” relative to parking fees and transit fares in the forecast years as they are today.

Table 2: Common Peak Period Bridge Tolls[†]

Bridge	2-axle, Single- occupant Vehicle Toll (\$1990)	2-axle, Single- occupant Vehicle Toll (\$2010)	2-axle, Carpool* Vehicle Toll (\$1990)	2-axle, Carpool Vehicle Toll (\$2010)
San Francisco/Oakland Bay Bridge	\$3.53	\$6.00	\$1.47	\$2.50
Antioch Bridge	\$2.94	\$5.00	\$1.47	\$2.50
Benicia-Martinez Bridge	\$2.94	\$5.00	\$1.47	\$2.50
Carquinez Bridge	\$2.94	\$5.00	\$1.47	\$2.50
Dumbarton Bridge	\$2.94	\$5.00	\$1.47	\$2.50
Richmond-San Rafael Bridge	\$2.94	\$5.00	\$1.47	\$2.50
San Mateo Bridge	\$2.94	\$5.00	\$1.47	\$2.50
Golden Gate Bridge	\$3.53	\$6.00	\$1.77	\$3.00

[†] The full toll schedule includes off-peak tolls and tolls for 3- or more axle vehicles; * Car pools are defined as either two-or-more or three-or-more occupant private vehicles, depending on the bridge, and only receive a discount during the morning and evening peak periods (Source: bata.mtc.ca.gov; goldengatebridge.org)

E. Transit Fares

As noted below in the Transportation Supply section, MTC developed two sets of “base” transit networks upon which build/project and no build/no project scenarios were developed. For the year 2015 scenarios, the transit fares in place as of Spring 2010 – examples of which are shown in Table 3 below to illustrate the scale of common fares – are used in the analysis; for the year 2025 and 2035 scenarios, the transit fares in place as of Spring 2008 are used in the analysis. The differences are due simply to the timing of model updates relative to the timing of the analysis; MTC was able to update the transit networks and fares for the 2015 analysis year – no easy task given the region’s numerous transit agencies – but was not able to incorporate the new fares into the 2025 and 2035 analysis year networks.

Table 3: Common Base Transit Fares[†]

Operator	Base Fare (\$1990)	Base Fare (\$2010)
San Francisco Municipal Transportation Agency (Muni)	\$1.18	\$2.00
Bay Area Rapid Transit (BART)	\$1.03	\$1.75
Alameda County Transit (AC Transit)	\$1.18	\$2.00
Santa Clara Valley Transportation Authority (VTA) – Local buses	\$1.18	\$2.00
Santa Clara Valley Transportation Authority (VTA) – Express buses	\$2.35	\$4.00
San Mateo County Transit (SamTrans) – Local buses	\$1.18	\$2.00
Golden Gate Transit – Marin County to San Francisco service	\$1.15	\$1.95
Contra Costa County Transit Authority (CCCTA)	\$1.18	\$2.00
Vallejo Transit	\$1.03	\$1.75
Tri-Delta Transit	\$1.32	\$2.25
Livermore Amador Valley Transit Authority (WHEELS)	\$1.18	\$2.00

[†]This is a sample, rather than an exhaustive list, of common Bay Area transit providers and the fares (Source: 511.org).

F. High-Occupancy Toll Lanes

High-occupancy toll (HOT) lanes reserve highway capacity for either high-occupancy vehicles (with two-or-more or three-or-more occupants, depending on the facility) or single-occupant vehicles willing to pay a fee. An ideal travel model would explicitly represent the choice single-occupant vehicle travelers make when considering whether to use an HOT facility: is the time savings worth paying the fee? MTC is currently developing a new travel model which will directly model this choice.

BAYCAST-90 does not include models that explicitly represent this choice. As such, the HOT lanes and pricing policies need to be further abstracted for the travel model to provide insights into expected behavioral responses. In the current work, MTC first assumed the HOT lanes would operate as HOV lanes during model feedback, i.e. when “peak” period congested travel times are fed back through the model until the input speeds equal the output speeds. The resulting travel time savings offered by the facilities encouraged HOV formation, thus preserving the benefit of HOT lanes to those choosing to carpool (the conversion of an HOV lane to an HOT lane should not, per current policy thinking, significantly degrade the quality of travel for high-occupancy vehicles). Next, the HOT lanes were converted to general purpose lanes and single-occupant vehicles were charged a uniform per mile fee to use the facilities. This is done prior to performing the full day highway assignments. Single-occupant vehicles which travel in corridors with an HOT lane are charged 5.4 cents (\$1990) per mile (equivalent to 9.0 cents per mile \$2009), a value based on the following assumptions: (i) a single-occupant HOT lane fee of

54 cents per mile (\$1990); (ii) HOT lane capacity represents approximately one-fifth of facility capacity (i.e. there is one HOT lane for every three to five general purpose lanes); and, (iii) half of the HOT lane capacity is available for single-occupant vehicles – combining these assumptions gives an average cost for single-occupant vehicles traveling in the corridor of 54 cents x 0.20 x 0.50 = 5.4 cents per mile (\$1990).

4. Demographic Assumptions

The travel forecasts generated in support of the current analysis use ABAG's *Projections 2009* land use forecasts, which are the most recent set of forecasts provided by ABAG.

5. Transportation Supply Assumptions

The transportation supply details, upon which the BAYCAST-90 model attempts to reconcile travel demand, used in the current analysis are described in Appendix B. One important note: the economic downturn that began in earnest in 2008 has had a significant impact on the Bay Area's transit providers. As such, the analysis of the 2015 model year began with the transit service in place as of Spring 2010 and added/replaced projects in the TIP to construct the baseline/no project and build/project alternatives. In contrast, the analysis of the 2025 and 2035 model years began with the transit service in place as of 2006 and added/replaced projects in the TIP and RTP to construct the baseline/no project and build/project alternatives. Because more service was in place in 2006 than in 2010, MTC is assuming that the current reduction in transit service is temporary and that service will increase as the economy recovers.

6. Adjustment of Regional Vehicle Miles Traveled and Vehicle Starts Methodology

The BAYCAST-90 travel model estimates the vehicle-miles traveled (VMT) of Bay Area residents as well as those passing through or driving to the Bay Area on a typical weekday. CARB uses odometer data collected during biennial inspections by the State Bureau of Automotive Repair and vehicle registration data is obtained from the California Department of Motor Vehicles (DMV) to generate a separate estimate of VMT. For a variety of reasons, these two estimates of VMT do not match: for the year 2000, MTC estimates a typical daily VMT of 140,116,000; for the year 1999, the Bureau of Automotive Repair estimates an average VMT of 154,959,000.

For the purposes of conformity analysis, MTC factors up the travel model estimate of VMT to bring the estimate of VMT up to the level estimated by CARB – an assumed year 2000 ratio between MTC's and CARB's estimates are applied to each of MTC's forecasts.

Regional engine starts, which generate event-specific emissions, are based on CARB's estimate of approximately 6.72 to 6.75 engine starts per vehicle per day.

7. Distributing Vehicle Miles Traveled by Speed Category

CARB's EMFAC 2007 model requires vehicle travel to be segmented by county of occurrence and speed category. The steps from the BAYCAST-90 output to the EMFAC 2007 input are described here.

BAYCAST-90 assigns vehicle travel to five time-period-specific networks, as described above. These time periods are: early morning, midnight to 6 am; four-hour morning peak, 6 am to 10 am; midday, 10 am to 3 pm; four-hour evening peak, 3 pm to 7 pm; and evening, 7 pm to midnight. The result of this assignment is an estimate interzonal VMT.

Vehicles also travel within a single TAZ. This intrazonal VMT is computed by multiplying the number of intrazonal vehicle trips by an assumed intrazonal distance for each zone; intrazonal VMT accounts for approximately seven to eight percent of regional VMT.

After computing interzonal and intrazonal VMT, MTC also computes a “terminal distance” VMT, which is the extra distance a vehicle travels looking for or reaching a parking destination after entering a TAZ. The “terminal distance” VMT is computed separately for each TAZ and added to the interzonal and intrazonal VMT to get a final estimate of regional VMT. This VMT is then segmented into the 13 speed categories required by EMFAC 2007 and used as the speed distribution for passenger cars, light-duty trucks, medium-duty trucks, and motorcycles. EMFAC 2007 default distributions are used for other vehicle types.

Appendix D
List of Transportation Control Measures (TCM) Projects

TCM A: Regional Express Bus
Regional Express Bus Program
Vehicle Deployment Throughout the Bay Area¹
February 18, 2009

Transit Operator	Vehicle Type	Serial Registration ²	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 ⁴	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 ⁴	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 ⁵	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM	
	Over-The-Road	1M8PDMPA33P055628	11/14/2002	Leased to Fairfield-Suisun ⁵	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 ⁵	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM	
	Over-The-Road	1M8PDMPA33P055631	11/14/2002	Leased to Fairfield-Suisun ⁵	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 ⁵	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM	
	Over-The-Road	1M8PDMPA43P055637	11/14/2002	Leased to Fairfield-Suisun ⁵	90 Fairfield/EI Cerrito Del Norte BART	4:55 AM - 10:35 PM	
	Over-The-Road	1M8PDMPA83P055639	11/14/2002	Leased to Fairfield-Suisun ⁵	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 ⁴	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 ⁴	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 ⁴	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 ⁴	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]

	SPONSOR	PROJECT NAME	AMOUNT
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]

	SPONSOR	PROJECT NAME	AMOUNT
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
		Total	\$ 21,785,915

TCM C: Transportation for Livable Communities

FY 2004-05 MTC TLC Planning Program

Project Sponsor	Project Title	TLC Grant
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
	Total	\$ 500,000

FY 2004-05 MTC TLC Capital Program

Project Sponsor	Project Title	TLC Grant
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
	Total	\$ 18,394,000

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 th 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

Project Sponsor	Project Title	TLC Grant
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
Total		\$ 1,070,732

FY 2005-06 Alameda County TLC Capital Program

Project Sponsor	Project Title	TLC Grant
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
Total		\$ 7,032,000

FY 2005-06 Sonoma County TLC Capital Program

Project Sponsor	Project Title	TLC Grant
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
Total		\$ 4,293,000

Grand Total	\$ 31,289,732
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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

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

Revised 06/01/07

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)										e				
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			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)										e				
															e				
12	Ken Betts Towing	CC	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	
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					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		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	
					539.67							65 wkdy, 66 wknd	15	2	8 wkdy, 7 wknd	493,973			

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 F
Methodology for Bay Area Conformity Determinations



Winston H. Hickox
Agency Secretary

Air Resources Board

Alan C. Lloyd, Ph.D.
Chairman

1001 I Street • P.O. Box 2815 • Sacramento, California 95812 • 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>.

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_x) are also significantly higher in SF Bay Area-EMFAC 2000 than in the older models. The increased estimates of NO_x emission rates are primarily due to the following changes:

- Inclusion of "off-cycle NO_x" (i.e., NO_x 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_x 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_x 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_x 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).

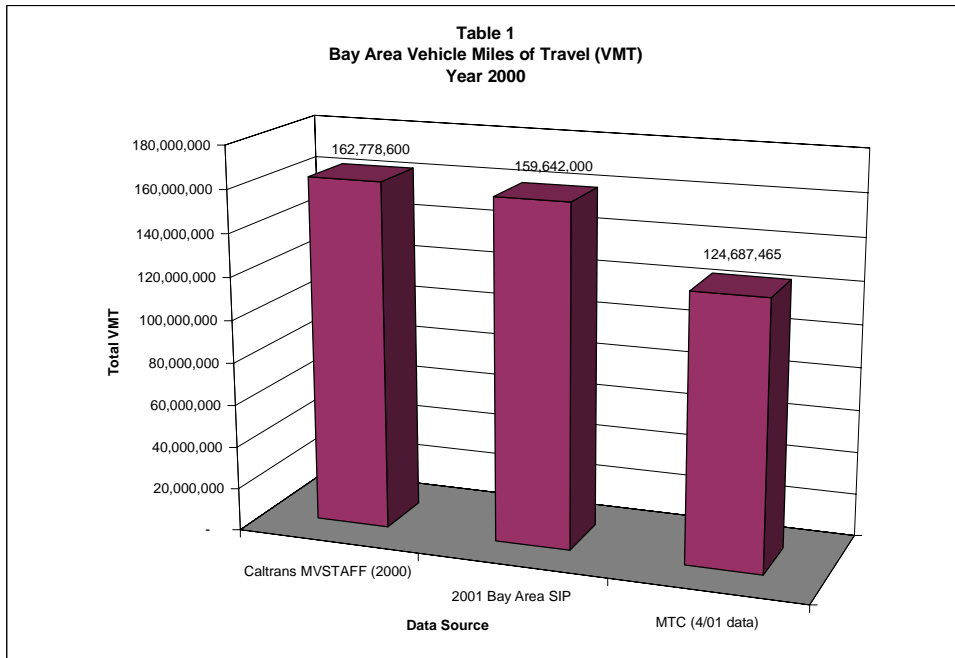
The decision to use ARB's VMT estimate instead of the VMT estimate from MTC's BAYCAST-90 travel demand model for calendar year 2000 was made in an agreement between MTC and ARB. As Table 1 illustrates, MTC's 2000 VMT estimate for the region is about 22 percent lower than both ARB and Caltrans' estimates. The ARB and Caltrans¹ methods for estimating VMT were developed independently of each other, yet fall within 1 percent of each other.

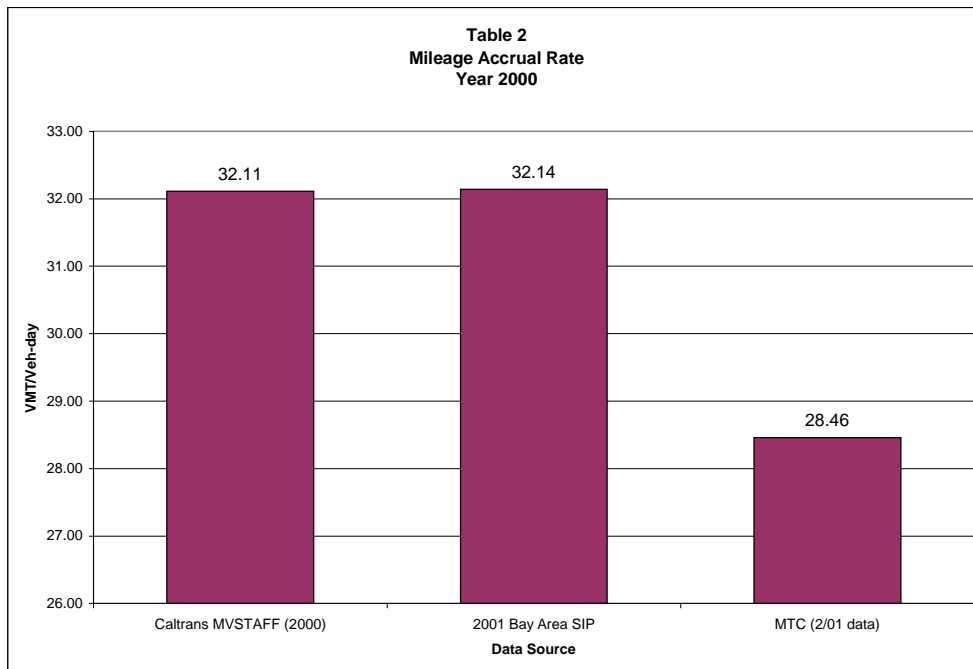
Additional justification for using the ARB VMT estimation methodology is found in the estimate of the number of miles driven by each vehicle per day (i.e., the mileage accrual

¹ 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.² 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 2000.³ 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 runs⁴ and the VMT estimate submitted by MTC for conformity.⁵ 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.⁶

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

³ For the S.F. Basin portions of Solano and Sonoma County VMT:

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

⁴ 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.

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

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

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.⁷
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.

⁷ Target Veh Pop = [((Target VMT – SIP VMT) / SIP VMT) * SIP Veh Pop] + SIP Veh Pop

cc: (w/o Enclosures)
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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.¹ 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.

¹ 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.² 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:

$$\text{WIS Input Population} = \text{EMFAC Default Population} * (\text{RTPA VMT} / \text{EMFAC Default VMT})$$

² 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.

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.³ 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.

³ 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.

