Final

West County Action Plan for Routes of Regional Significance





Sept 2017



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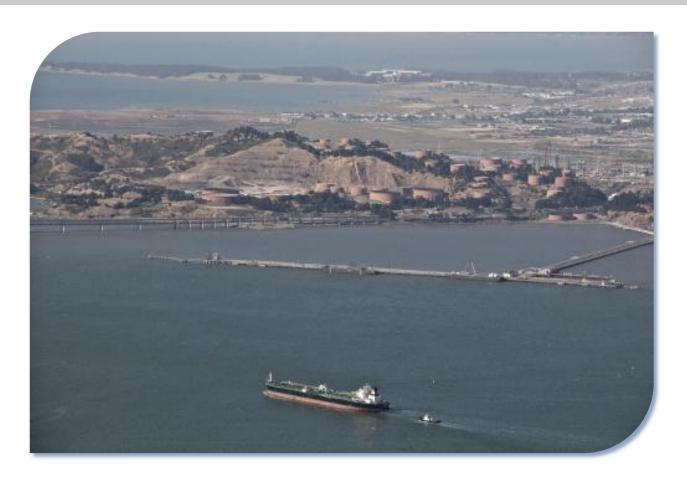
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Introduction 1



1 Introduction

1.1 The Measure J Transportation and Growth Management Program

In November 2004, Contra Costa voters renewed the original Measure C Transportation Improvement and Growth Management Program, a ½-percent sales tax to fund transportation projects and programs, with a new ballot measure called Measure J. Measure J, which started in April 2009, will generate approximately \$2 billion (in 2008 dollars) over a 25-year period.

Measure J continues Contra Costa's innovative Growth Management Program (GMP). To receive its share of local street maintenance and improvement funds and to become eligible for Transportation for Livable Communities (TLC) funds, a local jurisdiction must be found to be in compliance with the GMP, which requires each jurisdiction to

- Adopt a Growth Management Element
- Adopt a local and regional Development Mitigation Program
- Participate In an Ongoing Cooperative, Multi-Jurisdictional Planning Process
- Address Housing Options
- Develop a Five-Year Capital Improvement Program



- Adopt a Transportation Systems Management (TSM) Ordinance or Resolution
- Adopt a Voter-Approved Urban Limit Line

Among these elements, preparing action plans for routes of regional significance is included under the requirement to "Participate in an Ongoing Cooperative, Multi-Jurisdictional Planning Process". The specific requirements of this element as defined in Measure J are as follows:

Each jurisdiction shall participate in an ongoing process with other jurisdictions and agencies, the Regional Transportation Planning Committees and the Authority to create a balanced, safe and efficient transportation system and to manage the impacts of growth. Jurisdictions shall work with the Regional Transportation Planning Committees to:

- 1. Identify Routes of Regional Significance, and establish Multimodal Transportation Service Objectives for those routes and actions for achieving those objectives.
- 2. Apply the Authority's travel demand model and technical procedures to the analysis of General Plan Amendments (GPAs) and developments exceeding specified thresholds for their effect on the regional transportation system, including on Action Plan objectives.
- 3. Create a development mitigation program.
- 4. Help develop other plans, programs and studies to address other transportation and growth management issues.

In consultation with the Regional Transportation Planning Committees, each jurisdiction shall use the travel demand model to evaluate changes to local General Plans and the impacts of major development projects for their effects on the local and regional transportation system and the ability to achieve the Multimodal Transportation Service Objectives established in the Action Plans.

Jurisdictions shall also participate in the Authority's ongoing countywide comprehensive transportation planning process. As part of this process, the Authority shall support countywide and sub-regional planning efforts, including the Action Plans for Routes of Regional Significance, and shall maintain a travel demand model. Jurisdictions shall help maintain the Authority's travel demand modeling system by providing information on proposed improvements to the transportation system and planned and approved development within the jurisdiction.¹

¹ Measure J: Contra Costa's Transportation Sales Tax Expenditure Plan, Contra Costa Transportation Authority, July 21, 2004, pp. 24 & 25.

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The Contra Costa Transportation Authority ("the Authority") is responsible for evaluating whether each jurisdiction is fully complying with the GMP. With Measure J, the jurisdiction's eligibility to receive Transportation for Livable Community funding may also be withheld for non-compliance with the GMP. ²

1.2 The Action Plan Purpose

The purpose of the Action Plans is for each Regional Transportation Planning Committee (RTPC) to work cooperatively to establish overall goals, set performance measures (called Multi-modal Transportation Service Objectives, or MTSOs) for designated Routes of Regional Significance, and outline a set of projects, programs, measures, and actions that will support achievement of the MTSOs.

Action Plans are required to be prepared by the RTPC for each subarea of Contra Costa County (West, Central, East, Lamorinda, and the Tri-Valley). The Authority is responsible for funding this effort, and for coordinating and knitting together the Action Plans from each RTPC into the Countywide Comprehensive Transportation Plan (CTP).

The West County Action Plan contains the following components:

Routes of Regional Significance (Chapter 2) identifies the Routes of Regional Significance within West County.

Current Commuting Patterns and Overall Growth Trends (Chapter 3) looks at long-range land use changes and anticipated traffic growth.

Action Plan Goals and Objectives (Chapter 4) describes the overall goals of the plan, and identifies the MTSOs that are applied to each Regional Route.

Proposed Regional Actions (Chapter 5) identifies specific actions, programs and measures, and assigns responsibility for their implementation.

Procedures for Notification, Review, and Monitoring (Chapter 6) includes project notification procedures and the process for general plan review.

1.3 Definition of Terms

The following terms, which are used repeatedly in this document, are defined below:

Policies. The policies of an Action Plan help guide its overall direction. Decisions regarding investments, program development, and development approvals are based on these policies.

² The Contra Costa TLC Program funds transportation enhancement projects in urban, suburban and rural communities to support a balanced transportation system, create affordable housing, and make Contra Costa's communities more pedestrian, bicycle, and transit friendly.



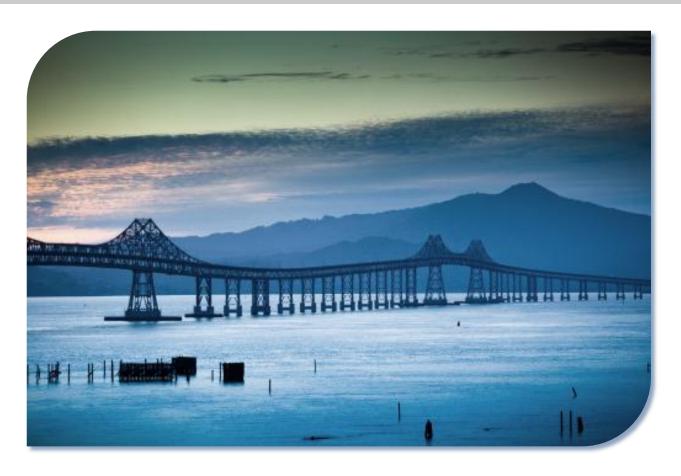
Goals. A goal is a statement that describes in general terms a condition or quality of service desired that is in line with the policies. For example, a common goal from past Action Plans was to "provide and encourage the use of alternatives to the single-occupant auto." This goal would be in line with a policy that calls for "an efficient transportation system."

Multi-Modal Transportation Service Objectives. MTSOs are specific, quantifiable objectives that describe a desired level of performance for a component of the transportation system.

Actions. Actions are the specific programs, projects, measures, or steps that are recommended for implementation to meet the MTSOs set forth in the Action Plan. The responsibility of carrying out the actions falls to the individual local jurisdiction, or to the Regional Committee as a whole. Actions may involve implementing specific projects at the local level, or they may call for the RTPC to support major projects that have a regional impact. Implementation of adopted actions is a required condition of compliance with the Measure J GMP.

Routes of Regional Significance. Routes of Regional Significance are roadways that connect two or more subareas of Contra Costa, cross County boundaries, carry significant through traffic, and/or provide access to a regional highway or transit facility. The Authority may designate a Regional Route that meets one or more of these criteria.





2 Routes of Regional Significance

The Action Plan designates a system of Routes of Regional Significance, as defined in this chapter.

2.1 Designating Routes of Regional Significance

One of the key elements of the Action Plan is the designation of the Routes of Regional Significance. The RTPCs have the authority to propose designation of Routes of Regional Significance in their regions. In considering what routes to designate, the Measure J GMP guidelines recommend four questions that are outlined below. These are not absolute rules (i.e., a transportation facility that answers yes to one or more of these questions is not required to be designated as a Route of Regional Significance), but are meant to guide the RTPC in identifying the routes that are very important transportation corridors in their region.

- 1. Does the road connect two or more "regions" of the County?
- 2. Does the road cross County boundaries?
- 3. Does the road carry a significant amount of through-traffic?



4. Does the road provide access to a regional highway or transit facility (e.g. a BART station or freeway interchange)?

The RTPC may propose, and the Authority may designate, a Regional Route that meets one or more of the above criteria. Alternatively, some routes that meet one or more of the criteria can remain undesignated, provided that a consensus not to designate such routes is reached among affected jurisdictions. Furthermore, routes that enter or leave the RTPC require joint discussions among the affected regional committees to determine if consensus can be reached regarding designation.

In this Action Plan, the WCCTAC Board has chosen to remove the Route of Regional Significance designation from four previously-designated routes, namely: Cutting Boulevard, El Portal Drive, Macdonald Avenue, and Willow Avenue. In its discretion, the Board determined that these routes primarily or exclusively served travel within a single jurisdiction, and that these routes would not receive enough benefit from the interjurisdictional planning process required by this Action Plan to justify their inclusion in the Regional Route network.

2.2 List of Routes of Regional Significance

The Routes of Regional Significance are shown in Figure 2-1. A description of each route is as follows:

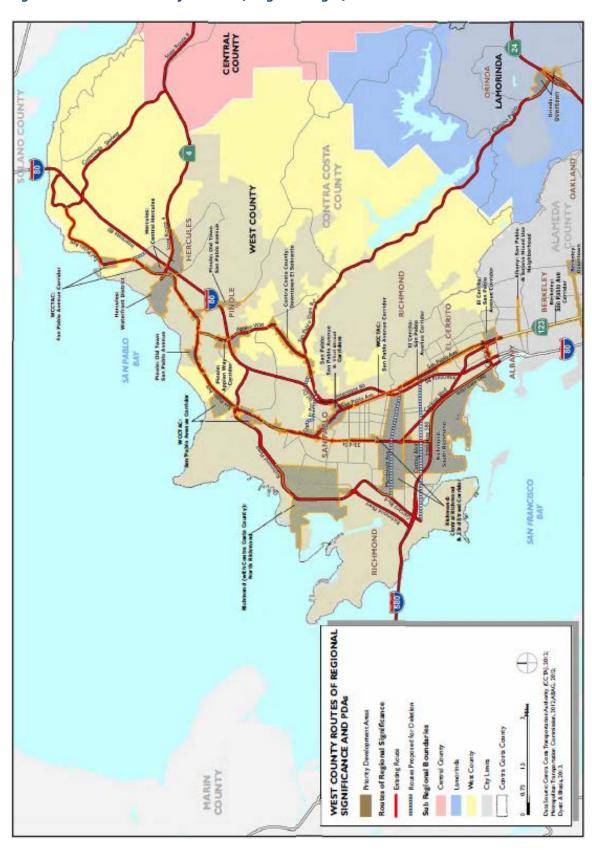
- 1. Appian Way. From San Pablo Avenue to San Pablo Dam Road.
- 2. Carlson Boulevard. From 23rd Street to San Pablo Avenue.
- 3. Central Avenue. From San Pablo Avenue to I-580.
- 4. Cummings Skyway. From San Pablo Avenue to SR 4.
- **5. Interstate 80.** From the Alameda County line to the Solano County line. I-80 is the primary inter-regional commute corridor through West County, and has major regional significance to the Bay Area.
- **6. Interstate 580.** From I-80 to the Marin County line. I-580 carries inter-regional traffic between the East Bay and the North Bay.
- **7. Richmond Parkway.** From I-80 to I-580 (including Garrard Boulevard portion). Richmond Parkway is an important connector for traffic traveling between I-80 and I-580.
- **8. San Pablo Avenue.** From the Alameda County line to I-80/Pomona Street in Crockett. San Pablo Avenue is the most important corridor for inter-city travel in West County: it is the primary transit spine of the region, it travels through all of the West County cities (in many cases, functioning as "Main Street"), and it is the primary reliever route to I-80 during periods of severe freeway congestion.

- **9. San Pablo Dam Road.** From San Pablo Avenue to the boundary with the Lamorinda region. San Pablo Dam Road is an important intra-County route, connecting travelers from I-80 in West County to SR 24 in Orinda, and it also serves as the primary commercial corridor for El Sobrante.
- **10. State Route 4.** From I-80 to Cummings Skyway. SR 4 carries intra-County traffic between West County, Central County and East County.
- 11. 23rd Street. From San Pablo Avenue to I-580.





Figure 2-1 West County Routes of Regional Significance





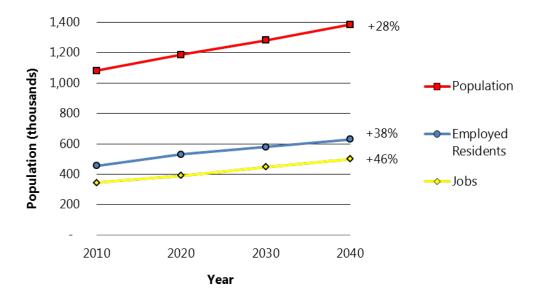
3 Current Growth Trends and Travel Patterns

Forecasts of future population and employment growth in West County, as well as projections of future travel demand on major West County transportation facilities, are drawn from the most recent available regional travel model maintained by the Authority. The current Authority travel model contains land use projections consistent with those produced by the Association of Bay Area Governments (ABAG) as part of their Projections 2011 dataset, and also contains assumptions about transportation system improvements that are consistent with the financially-constrained Regional Transportation Plan.

3.1 Demographic Forecasts

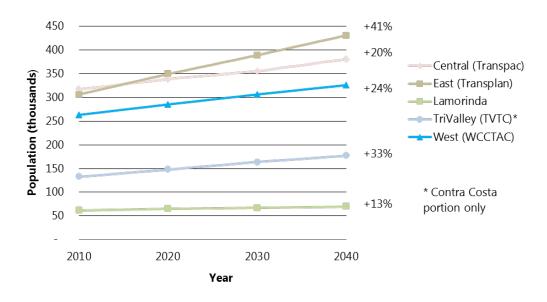
Countywide forecasts for population, employed residents, and jobs are shown in Figure 3-1. Population and job growth are expected to follow fairly similar patterns, with jobs growing at a faster rate (an average annual rate of 1.3 percent) than population (at an average annual rate of 0.8 percent).

Figure 3-1 Contra Costa County Demographic Forecasts



Subregional forecasts for population are shown in Figure 3-2. West County is represented by the blue line. The West County population is projected to grow at a fairly modest rate (24 percent between 2010 and 2040); by 2040, West County is anticipated to be home to about 325,000 people, a lower population than Central or East County, but a much larger population than the Lamorinda area or the Contra Costa portion of the Tri-Valley. It is projected that about 24,000 new dwelling units would be added in West County in order to house the additional population.

Figure 3-2 Subregional Population Growth



Subregional forecasts for jobs are shown in Figure 3-3. Again, West County is represented by the blue line. Countywide, jobs are expected to grow faster than population, and West County is projected to experience significant job growth of 56 percent between 2010 and 2040, second only to East County in the rate of new jobs added. While West County will add a substantial number of jobs, Central County will continue to have the highest number of jobs of any of the subregions.

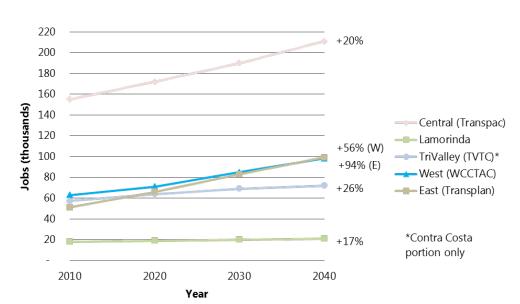


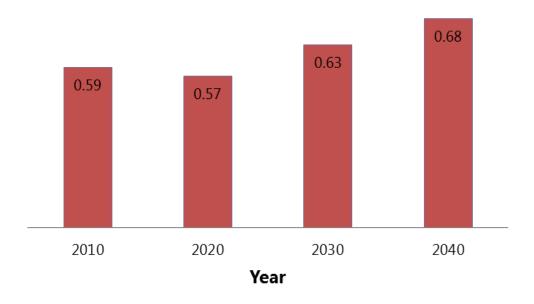
Figure 3-3 Subregional Job Growth

Figure 3-4 presents the ratio of jobs-to-employed residents for West County between 2010 and 2040. A ratio of 1.0 means that the number of jobs in that subregion equals the number of employed residents; this is a measure of the balance between housing and jobs, which affects transportation topics such as commuting patterns and travel time. The ratio of jobs-to-employed-residents in West County is expected to increase, from 0.59 in 2010 to 0.68 in 2040, indicating that the balance between housing and jobs is expected to improve. However, at a ratio of 0.68, that still means that many West County residents who are employed will be commuting to jobs outside of the subregion.

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Figure 3-4 West County Jobs per Employed Resident



3.2 Traffic Forecasts

The regional travel demand model maintained by the Authority was applied to generate estimates of the future traffic volumes expected on major roadways throughout the County. Figure 3-5 presents a map showing the projected growth in daily traffic volumes on several major facilities in West County. As is shown in this map, traffic volumes throughout West County are anticipated to increase substantially by the year 2040, as the local population continues to grow. (It should be noted that the model results shown here are intended to give an idea of the order-of-magnitude changes in traffic volumes anticipated across the region; much more detailed and refined studies would be undertaken for any specific project.)



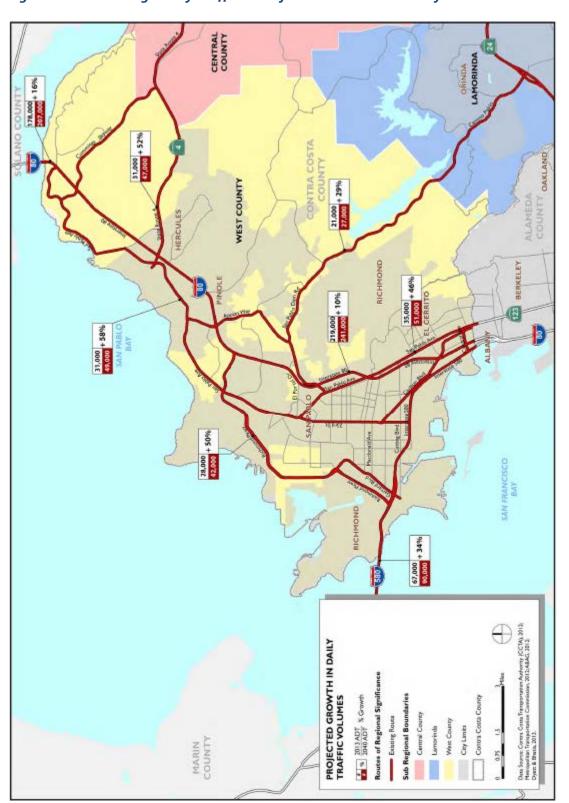


Figure 3-5 Average Daily Traffic on Major Routes in West County



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4 Action Plan Goals and Objectives

4.1 Action Plan Goals

This Action Plan contains nine goals for West County.

A. Provide efficient and effective local and regional transit services.

Increasing levels of congestion on major highways and arterials in West County requires continual investment in transit services that can help to address the effects of traffic growth. Enhanced local transit service helps to reduce congestion on arterials and provides critical access to existing regional transit services such as BART and Amtrak. Bus connections to major BART stations such as Richmond and El Cerrito del Norte will continue to be important areas for improvement. BART services and facilities should also be expanded as needed to serve future demand.

B. Expand high-capacity transit in West County.

The existing high-capacity transit in West County is heavily utilized, but directly serves only some of the local residents and workplaces. Extending high-capacity transit to reach more of the area would increase



the number of regional travel options for West County and beyond, thus spreading the travel demand over multiple modes.

C. Increase use of active transportation modes.

Walking and biking provide the dual benefit of environmentally friendly travel that also achieves public health goals for higher levels of physical activity. Combined with transit, walking and biking can replace longer auto trips for additional congestion and environmental benefits. West County is committed to increasing the number of trips taken via active transportation modes.

D. Complete and expand the regional trail system.

Regional trails support the use of active transportation for both recreation and commute purposes. Regional trails can also attract visitors by serving as a destination, potentially stimulating economic activity along the trail, and can help to alleviate congestion during weekends and other non-commute periods. West County supports efforts to complete planned trail segments and to increase connectivity to existing trails.

E. Implement Complete Streets enhancements identified in local plans.

West County jurisdictions have adopted Complete Streets policies into their General Plans, codifying the importance of accommodating multiple modes on local streets. West County supports this effort and encourages its expansion.

F. Pursue and sponsor transportation demand management programs to reduce singleoccupant vehicle travel.

Constraints on highway and roadway capacity require management of vehicle demand for those facilities. Transportation demand management (TDM) programs include a variety of strategies for increasing travel choices, including the emerging use of social media applications; these strategies are often more efficient and environmentally friendly than travel by single-occupant vehicle. Coupled with providing more travel choices, TDM programs also include an education component, thus increasing the likelihood of success. TDM strategies should be included in a package of options for decreasing the number of single-occupant auto trips.

G. Actively manage growth to support regional land use and transportation goals.

West County goals include attracting more employment to invigorate commercial centers and provide more economic opportunities for local residents, and targeting growth around high-capacity transit hubs to encourage development within Priority Development Areas (PDAs) for more efficient use of local and regional transportation resources.

H. Improve the efficiency of highway and arterial operations.

Action Plan Goals and Objectives 4

Highways and major arterials in West County will continue to serve as key connections to major economic centers of the Bay Area. Improving connectivity to these facilities will ensure efficient goods movement and discourage heavy truck traffic through residential communities. Operational improvements will smooth and balance traffic flow over all time periods, making optimal use of the existing investments in West County facilities.

I. Maintain existing transportation facilities in adequate condition to provide safe and effective service.

West County jurisdictions and transit operators should seek adequate funds and systems to properly maintain the multimodal transportation system, recognizing that adequate maintenance is an important aspect of increasing the design life of capital investments and improving public safety.

J. Support and improve quality of life in communities impacted by rail transport.

West County hosts several freight rail lines, and many West County neighborhoods experience adverse effects of rail transport, such as noise, air pollution, and safety at track crossings. West County is committed to addressing and reducing these impacts in order to improve the quality of life for all residents.



4.2 Multi-modal Transportation Service Objectives

4.2.1 Definition of Multi-modal Transportation Service Objectives

The CCTA's Implementation Guide gives the RTPCs significant flexibility in choosing MTSOs for their Action Plans. As long as the objective is quantifiable, and includes a timeframe for achievement of the objective, it can be proposed for inclusion in the Action Plan. Unless otherwise specified, the MTSOs proposed here are



to be achieved either on an on-going basis or concurrent with completion of major projects within the specified corridor.



Selection of the MTSOs outlined below was based in part on whether the objective could be easily measured through and forecasted observation through use of the Countywide Model. The MTSOs generally remain the same as were used in the 2009 West County Action Plan; new in this plan is the definition of special zones around major transit hubs, which subject different to

performance measures than the typical MTSOs (see the section below on "Route-Specific Multi-Modal Transportation Service Objectives" for more details).

Through the adoption of Measure J, the analysis requirements of MTSOs have become more formalized. These measures will be subject to analysis for impacts of various proposed development and transportation projects, in accordance with Measure J.

Three MTSOs are proposed to be applied in this West County Action Plan Update; the MTSOs are defined and described in the table below.

	Descriptions of MTSOs						
MTSO Measure	Definition	Example	Sources of Information	Application			
Delay Index	A measure of delay experienced by motorists on a roadway segment during a peak hour in	It takes 40 minutes to drive from Point A to Point B during rush	Travel speeds on freeways to be monitored through	All freeways and expressways			

Action Plan Goals and Objectives

	a single direction. The Delay Index is calculated by measuring the time it takes to travel a segment of road during congested conditions, and comparing it to the time it takes to travel the same segment during uncongested, free-flow conditions.	hour. The same drive takes 20 minutes during uncongested conditions at midday. Delay Index = 40 / 20 = 2.0	Caltrans Performance Measurement System (PeMS) data, or through travel time runs conducted during congested periods.	in West County.
Signalized Intersection LOS	A measure of traffic conditions at a signalized intersection. LOS is expressed in ratings from "A" through "F", with "A" meaning that all traffic clears the intersection on every cycle and "F" meaning that drivers must wait through multiple cycles to clear the intersection.	Based on the number of seconds of delay experienced by drivers passing through the intersection. This metric should be calculated using the methods specified in CCTA Technical Procedures.	Intersection turning movement counts are collected every two years by CCTA as part of the MTSO monitoring program.	Arterial routes (listed on next page).
HOV Lane Usage	A measure of the efficient utilization of the HOV lane.	Measured by counting the number of vehicles using the HOV lanes at the highest HOV volume section.	HOV volumes to be determined based on HOV lane utilization report published by Caltrans.	Freeways with HOV lanes.



4.2.2 Route-Specific Multi-modal Transportation Service Objectives

Arterial Routes

Peak hour LOS at signalized intersections along arterial Routes of Regional Significance should be at the level defined below, and calculated based on the method of analysis presented in the Authority's Technical Procedures. Any physical improvement identified as being necessary to achieve this standard shall be evaluated for its effects on all intersection users, including pedestrians, cyclists, and transit users.

For the purposes of this Action Plan, the "PBT zones" are defined as those locations within a ½-mile radius of the following major transit hubs:

- 1. El Cerrito Plaza BART Station
- 2. El Cerrito del Norte BART Station
- 3. Richmond BART Station

The following MTSOs are defined by this Action Plan:

23rd Street: LOS D

Appian Way: LOS D

Carlson Blvd: LOS D

Central Avenue: LOS D

• Cummings Skyway: LOS D

• Richmond Parkway: LOS D

• San Pablo Avenue: LOS E

San Pablo Dam Road: LOS E

Furthermore, within specific Pedestrian-Bicycle-Transit (PBT) zones, the MTSO specified in this document will not be applied; instead, the performance standards defined within the relevant jurisdiction's General Plan and/or a Specific Plan covering that area will govern. PBT zones shall be within a Priority Development Area, and are typically areas where transit and active transportation modes are given priority over passenger vehicles.

Action Plan Goals and Objectives 4

The following MTSOs apply to the following facilities within West County:

- I-580: Delay Index of 2.5 or less
- SR 4: Delay Index of 2.0 or less
- I-80:
- o Delay Index of 3.0 or less
- HOV lane usage increased by 10% over 2013 levels

Freeways/Expressways

Travelers in urban and suburban areas have come to accept peak hour congestion, especially along freeways. West County desires to keep point-to-point travel time at a tolerable maximum and ensure that HOV lanes are well-utilized. West County also recognizes that freeway congestion, particularly along I-80, is increasingly occurring during traditionally "off-peak" times, such as during weekend days; in the evaluation of specific projects, local agencies are encouraged to consider applying

these freeway MTSOs to whatever time period would be most affected by added project traffic.

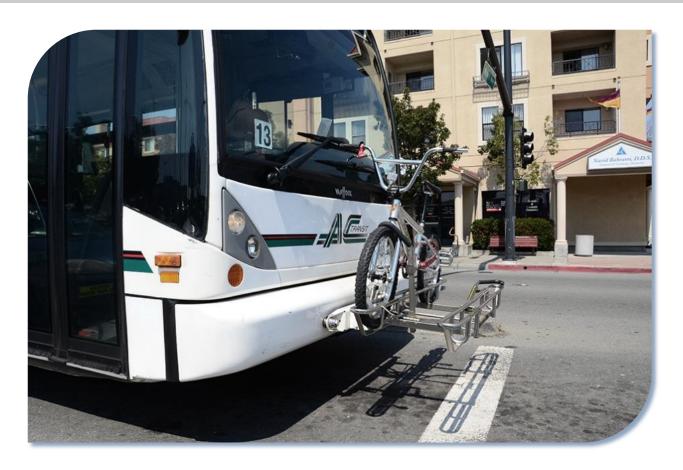
Current and Forecasted MTSO Values

CCTA is responsible for regular monitoring of the MTSOs for all the subregions, as well as for the forecasting of future MTSO values. Appendix B contains the results of that monitoring and forecasting process for West County.





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5 Proposed Regional Actions

The following table presents all of the actions proposed for this West County Action Plan. Each action is cross-referenced to the Route(s) of Regional Significance to which it applies (see the key to the Routes at the bottom of each page), as well as to the applicable Action Plan Goal(s). The agencies responsible for taking each action are also identified; reference to "Local Jurisdictions" is intended to indicate all of the cities as well as Contra Costa County. Note that Appendix A contains a table that cross-references the Routes of Regional Significance with the proposed actions that apply to each route.



Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
1	Work with local transit providers and regional funding agencies to identify funding for and provide busoriented improvements and better bus stop amenities along local routes, and to improve headways and expand bus service along important corridors in West County.	WCCTAC, Local jurisdictions, Transit providers	A, I	1, 2, 3, 7, 8, 9, 11
2	Implement transit-oriented development in the designated Pedestrian-Bicycle-Transit (PBT) zones using design principles that support local bus services and pedestrian/bicycle access.	Local jurisdictions, transit providers	A	8, 11
3	Encourage development of plans, programs and projects that support transit-oriented development within all Priority Development Areas.	Local jurisdictions, BART	G	All
4	Encourage development of new or expanded park-n-ride lots along freeway corridors and at major activity centers.	WCCTAC, Caltrans, Local jurisdictions, Transit providers	A, I	5, 6, 10
5	Partner with the Water Emergency Transportation Authority and MTC to plan and fund ferry service in West County.	WCCTAC, Cities of Richmond and Hercules	А	
6	Participate in studies regarding passenger rail improvements in West County, such as expansion of service on the Capital Corridor or San Joaquin Corridor.	WCCTAC, Local jurisdictions, Capitol Corridor JPA, San Joaquin JPA, BART	A, B, J	

Routes of Regional Significance:

1. Appian Way | 2. Carlson Boulevard | 3. Central Avenue | 4. Cummings Skyway | 5. Interstate 80 | 6. Interstate 580 | 7. Richmond Parkway | 8. San Pablo Avenue | 9. San Pablo Dam Road | 10. State Route 4 | 11. 23rd Street

TABLE 5-1: ACTIONS FOR	R WEST COUNTY ROUTES OF	REGIONAL SIGNIFICANCE

Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
7	Complete the West Contra Costa Transportation Investment Study, including evaluation of transit opportunities, roadway improvements, and other projects.	WCCTAC, Local jurisdictions, Transit providers, MTC	А, В	All
8	Support projects and programs that improve the passenger experience, upgrade systems and expand the capacity of BART stations in West County.	WCCTAC, BART, Cities of El Cerrito and Richmond	A	
9	Continue to update and implement local and regional bicycle and pedestrian plans, and support the preparation of bicycle and pedestrian plans in those communities where they do not currently exist.	WCCTAC, Local jurisdictions, CCTA	С	All
10	Support the WCCTAC TDM program in promoting commute methods and modes that reduce single-occupant vehicle travel at peak times.	WCCTAC, Local jurisdictions, 511 Contra Costa	F	All
11	Participate in the countywide Safe Routes to School needs assessment, and use the results of that effort to identify and seek funding for bicycle and pedestrian improvements in West County school areas.	WCCTAC, Local jurisdictions, Transit providers, CCTA	С	1, 2, 3, 7, 8, 9, 11
12	Support and participate in the efforts of Contra Costa Health Services in providing Safe Routes to School education and encouragement programs in area schools.	WCCTAC, Local jurisdictions	С	1, 2, 3, 7, 8, 9, 11

Routes of Regional Significance:

1. Appian Way | 2. Carlson Boulevard | 3. Central Avenue | 4. Cummings Skyway | 5. Interstate 80 | 6. Interstate 580

7. Richmond Parkway | 8. San Pablo Avenue | 9. San Pablo Dam Road | 10. State Route 4 | 11. 23rd Street



Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
13	Consider bicycle and pedestrian needs in all neighborhood and roadway planning and design efforts, particularly within Priority Development Areas.	Local jurisdictions, BART	С	All
14	Require new development projects to provide bike racks, lockers and other secure bike parking options at appropriate locations, and seek funding to provide bike parking at key activity centers throughout West County.	Local jurisdictions, WCCTAC	С	All
15	Support and fund programs, such as the Street Smarts Program, to increase the level of public education about bicycle safety and to reduce injuries due to pedestrian or bicycle collisions.	WCCTAC, Local jurisdictions	С	
16	Participate in planning studies for the Bay Trail extension along I-580, from Castro Street to the Richmond-San Rafael Bridge.	WCCTAC, City of Richmond	C, D	6
17	Improve pedestrian and bicycle access through freeway interchange areas.	Local jurisdictions, Caltrans	С	1, 2, 3, 5, 6, 8, 9, 11
18	Conduct a bicycle route feasibility study along Richmond Parkway, and work to improve the Bay Trail crossing at Wildcat Creek and close other trail gaps along the Parkway.	City of Richmond, Contra Costa County	C, D	7
19	Plan and implement enhanced railroad crossings to reduce noise and quality-of-life impacts throughout West County; enhancements may involve implementing quiet zones, grade separations, train-traffic signal preemption systems, or other measures.	WCCTAC, Local jurisdictions, CCTA	H, J	2, 3, 7, 8, 11
20	Complete the reconstruction of the I-80/San Pablo Dam Road interchange.	City of San Pablo, CCTA, Caltrans	E, H	5, 9
21	Support implementation, operations and maintenance of the I-80 Integrated Corridor Mobility project.	WCCTAC, Local jurisdictions, Caltrans	Н	1, 3, 4, 5, 7, 8, 9, 10
22	Enhance State Route 4 to a full freeway between I-80 and Cummings Skyway, including adding a connection between westbound I-80 and eastbound SR 4.	WCCTAC, CCTA, Caltrans, City of Hercules, Contra Costa County	Н	4, 10

TADIES 1. ACTIONS	S EOD WEST COLINITY BOLL	TES OF REGIONAL SIGNIFICANCE
TABLE 3-1- ACTION	3 FUR WEST COUNTY ROU	TESTOR REGILOINAL SIGNIFICATION

Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
23	Implement recommendations of the State Route 4 Integrated Corridor Analysis.	WCCTAC, CCTA	Н	10
24	Explore options to extend the truck climbing lane on Cummings Skyway, and to implement a Class II bike lane on Cummings Skyway between San Pablo Avenue and Franklin Canyon Road.	Contra Costa County	C, H	4
25	Work with WCCTAC, local jurisdictions and CCTA to seek funding to implement recommendations of the North Richmond Truck Route Study (or other mutually agreed upon implementation measures), to improve connectivity to designated truck routes, discourage non-local heavy truck traffic on local streets, and improve public health and safety in West County communities.	Contra Costa County, Cities of Richmond and San Pablo, CCTA, WCCTAC	H	6, 7
26	Complete the improvements associated with the I-80/Central Avenue interchange.	Cities of El Cerrito and Richmond	Н	3, 5
27	Close gaps in the regional trail and bicycle route systems, and develop local bike route links to the Bay Trail and Richmond and Ohlone Greenways to facilitate longer-distance bicycle travel through West County and to neighboring regions.	WCCTAC, Local jurisdictions, CCTA	C, D	3, 8
28	Maintain pavement management systems and schedules, and continue to seek additional funding for local roadway maintenance.	Local jurisdictions	I	1, 2, 3, 4, 7, 8, 9, 11
29	Complete a West County goods movement study, focused on ensuring efficient movement of goods while reducing impacts (environmental, health, quality-of-life) on West County residents.	WCCTAC, Local jurisdictions, Caltrans, CCTA, MTC	H, I, J	4, 5, 6, 7, 8, 9, 10
30	Comply with the CCTA Growth Management Program through monitoring of new development proposals and General Plan amendments, and allowing for collaboration and comment from other jurisdictions.	WCCTAC, Local jurisdictions	G	
31	Explore ways to increase revenue to maintain roads, transit facilities, trails, and all associated infrastructure.	WCCTAC, CCTA, Local jurisdictions, Transit providers	I	All



Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
32	Investigate and support opportunities for using new technologies to reduce single-occupant vehicle travel and to use existing system capacity more efficiently; examples may include real-time ridesharing programs, online traveler information systems, smart highways, connected vehicles, and other technologies.	WCCTAC, Local jurisdictions, CCTA, Transit providers	F	All
33	Support and implement the West County Subregional Transportation Mitigation Program, which generates funds to support specific capital improvements throughout West County.	WCCTAC, Local jurisdictions	A, E, G	All
34	Improve the reliability and efficiency of bus service along San Pablo Avenue.	Local jurisdictions, Transit providers	A	8
35	Implement the recommendations of the Complete Streets plans that affect San Pablo Avenue.	Cities of El Cerrito, Pinole, Richmond and San Pablo	A, C, E	1, 3, 7, 8, 9
36	Implement the San Pablo Avenue Complete Streets/Bay Trail project between Rodeo and Crockett.	Contra Costa County	A, C, E	8
37	Implement the recommendations of the Appian Way Alternatives Analysis and Complete Streets Study.	Contra Costa County, City of Pinole	A, C, E	1, 8
38	Implement the recommendations of the Downtown El Sobrante Study.	Contra Costa County	A, C, E	1, 9
39	Complete the implementation of the Hercules Intermodal Station.	City of Hercules, Transit providers	A, D	5, 8, 10
40	Participate in studies and implement the plans related to the Lawrence Berkeley National Lab Second Campus.	Cities of Richmond and El Cerrito, WCCTAC, Transit providers	A, C, G	2, 6, 11

Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
41	Implement the recommendations of the WCCTAC Transit Enhancements and Wayfinding Study, which identifies specific local access improvements to the West County BART stations and intermodal transfer centers.	Local jurisdictions, Transit providers	A, C, E	2, 3, 7, 8, 11
42	Support completion of the Wildcat Creek Trail, including the Bay Trail to Ridge Trail connector.	Cities of Richmond and San Pablo, Contra Costa County	C, D	
43	Implement the recommended actions in the I-80 Corridor System Management Plan (CSMP).	WCCTAC, Local jurisdictions, Caltrans, CCTA	Н	5
44	Implement the recommendations of the specific plans along 23 rd Street.	Cities of Richmond and San Pablo	A, C, E	11
45	Continue to evaluate long-term solutions to congestion around the El Cerrito del Norte BART station, with particular attention to methods that could improve local and regional transit and auto access to the station, along with improving multimodal access and circulation for transit-oriented development and businesses in the area.	City of El Cerrito, Transit providers, WCCTAC	A, C, H	8
46	Support broad coordination between Contra Costa and neighboring counties (including Alameda, Solano, and Marin) to reduce single-occupant vehicle travel along the I-80 corridor.	WCCTAC, CCTA	F, H	5, 6
47	Enhance transportation services for mobility-impaired West County residents, through improved coordination of existing services and consideration of expanded services.	WCCTAC, Transit providers	А	All
48	Support the coordination of transit services across all areas of Contra Costa to improve connectivity and access.	WCCTAC, Transit providers	A	All



Action #	Action	Responsible Agency	Applicable Goals	Affected Routes
49	Support the investigation and development of innovative transportation-related technologies that could improve air quality and public health; examples include fueling/charging stations for alternative-fuel vehicles, new cleaner bus technology, software applications to facilitate ride-sharing, and many other opportunities.	WCCTAC, Local jurisdictions, CCTA	F, H	All
50	Implement the Express Bus recommendations from the West County High Capacity Transit Study	Transit providers, WCCTAC, CCTA, Local jurisdictions	А, В, Н	5
51	Implement the San Pablo/Macdonald Avenues Bus Rapid Transit recommendations from the West County High Capacity Transit Study	Transit providers, WCCTAC, CCTA, Local jurisdictions	А, В	8
52	Implement the 23rd Street Bus Rapid Transit recommendations from the West County High Capacity Transit Study	WCCTAC, Local jurisdictions, CCTA, Transit providers	А, В	11
53	Implement Pinole San Pablo Avenue Bridge Replacement over BNSF Railroad – Complete Street	Pinole, WCCTAC, CCTA	C, E, H, I	8
54	Participate in San Pablo Avenue Multimodal Corridor Project	ACTC, WCCTAC, CCTA, AC Transit, Local jurisdictions	А, В	8

Routes of Regional Significance:

^{1.} Appian Way | 2. Carlson Boulevard | 3. Central Avenue | 4. Cummings Skyway | 5. Interstate 80 | 6. Interstate 580 | 7. Richmond Parkway | 8. San Pablo Avenue | 9. San Pablo Dam Road | 10. State Route 4 | 11. 23rd Street



6 Procedures for Notification, Review and Monitoring

Action Plans are required to include a set of procedures to share environmental documents, review general plan amendments, and monitor progress in attaining the traffic service objectives. The procedures for notification, monitoring, and review are described below.

6.1 Circulation of Environmental Documents

The Action Plan is required to have a set of procedures to share environmental documents. This notification is to occur through the CEQA analysis process, at the following two junctures: first, upon issuance of a Notice of Preparation (NOP), and second, at the stage of Notice of Completion (NOC) of the draft EIR.

The Action Plan is to set the threshold level at which transportation impact studies and/or EIRs are to be circulated to neighboring jurisdictions. Any project that generates at least 100 net new peak hour vehicle trips triggers the requirement for preparation of a transportation impact study and notification of neighboring jurisdictions. Following are examples of projects that could generate in excess of 100 net peak hour vehicle trips:



- A single-family residential development of more than 100 units
- A condominium development of more than 180 units
- A retail center of at least 14,000 square feet
- A general office building of at least 44,000 square feet

6.1.1 Procedure for Circulation and Review of Environmental Documentation

The following procedures are to be followed by the jurisdictions of WCCTAC regarding circulation of environmental documentation:

- 1. For any proposed project or general plan amendment that generates more than 100 net new vehicle trips during the peak hour for which an environmental document (Negative Declaration, or Environmental Impact Report or Statement) is being prepared, the Lead Agency shall issue a notice of intent to issue a Negative Declaration or a Notice of Preparation for an EIR to all Regional Transportation Planning Committee chairs or designated staff person, and to each member jurisdiction of WCCTAC.
- WCCTAC shall notify its member jurisdictions of receipt of such notices from jurisdictions in other areas.
- 3. WCCTAC shall review development projects for compliance with the program for evaluating new development proposals outlined in Action 30 in Chapter 5.

6.2 Review of General Plan Amendments

This Action Plan was developed using land use forecasts that generally reflect future land development allowed within the framework of the adopted General Plans for jurisdictions within West County. General plan amendments enacted after adoption of the Action Plan could therefore adversely affect ability to meet the Action Plan goals, policies and objectives.

The CCTA *Implementation Guide* requires that each Action Plan contain a process for notification and review of the impact of proposed general plan amendments that exceed a specified threshold size. Accordingly, the process outlined below has been adopted by WCCTAC.

6.2.1 Procedure for Review of General Plan Amendments

In addition to the project review procedures described above, the following procedures are to be followed for general plan amendments that generate more than 100 net new peak hour vehicle trips:

Through its participation in WCCTAC, the jurisdiction shall notify WCCTAC and the WCCTAC
jurisdictions of the proposed GPA in accordance with the above notification and circulation
requirements for environmental documents.

- 2. Upon request by WCCTAC, the jurisdiction considering the amendment shall confer with WCCTAC to discuss the impacts of the proposed GPA on the adopted Action Plan. During this discussion:
 - o The lead agency proposing the GPA should demonstrate that the amendment will not adversely affect the WCCTAC jurisdiction's ability to implement the adopted Action Plan policies, or the ability to meet Action Plan MTSOs through quantitative or qualitative evaluation of the applicable MTSOs,.
 - Alternatively, the lead agency proposing the GPA can propose modifications to either the West County Action Plan or its proposed GPA, or both, for consideration by WCCTAC.

The lead agency and WCCTAC will participate in these discussions with the intent of arriving at a consensus that the proposed GPA will not adversely affect the Action Plan policies or MTSOs, either through mitigations proposed by the lead agency, or modifications to the Action Plan agreed to by WCCTAC, or a combination of the two. If neither of these can be done, approval of the general plan amendment by the lead jurisdiction may lead to compliance issues with the CCTA growth management program.

6.3 Schedule for Action Plan Review

The Action Plans should be periodically reviewed for effectiveness, and updated if there are significant changes in local or regional conditions. See Chapter 3 of the CCTA *Growth Management Program Implementation Guide* for guidance on the development and updates of Action Plans.

In general, the Action Plan review process involves:

- Regular monitoring of traffic conditions on regional routes and reporting to WCCTAC on MTSO performance.
- If any of the MTSOs have not been met, WCCTAC may consider preparing a focused revision to the Action Plan.
- A complete review of the Action Plan should be made on a four- to five-year cycle.
- Individual corridors may be reviewed as deemed appropriate by WCCTAC.

6.4 Implications for Compliance with the Measure J Growth Management Program (GMP)

The CCTA *Implementation Guide* describes the GMP conditions for compliance that relate specifically to Routes of Regional Significance and the Action Plans as listed below:

- 1. Participating in the preparation and adoption of Action Plans.
- 2. Implementation of actions to attain MTSOs.



- 3. Placing conditions on project approvals consistent with the Growth Management Strategy.
- 4. Circulation of environmental documents as specified in the Action Plan and consistent with Authority policy.
- 5. Participation in the General Plan Amendment review procedure.

If, however, through CCTA's monitoring program it is determined that the MTSOs are not being met, then this information would be conveyed to WCCTAC for consideration in its periodic review of the Action Plan. The *Implementation Guide* states that if satisfactory progress is observed, then implementation of the Action Plan will continue. If progress has not been satisfactory, a revision to the Action plan may be necessary.

6.4.1 Process for Addressing MTSO Exceedances

From time to time, the MTSOs are monitored to determine whether they are being achieved. In addition, the MTSOs are evaluated to determine if they can be achieved in the future. For this update to the Action Plan, the MTSOs were monitored in 2013, and the traffic forecasts were prepared and evaluated for 2040. In both cases, exceedances of the adopted MTSOs were observed.

Under adopted CCTA policy, exceedance of an MTSO does not constitute a compliance issue with the Growth Management Program.

The primary purpose of the MTSOs is to provide WCCTAC with a quantitative measure of transportation system performance that can be consistently applied as a metric for gauging the impacts of future growth and mitigating those impacts. The MTSOs that WCCTAC has adopted for its Plan reflect WCCTAC's broader objective to ensure an acceptable level of mobility for its residents and workers to sustain the economy and maintain quality of life.

It is not surprising, therefore, given the level of expected growth in West County and elsewhere throughout Contra Costa, coupled with the constraints on adding new capacity to the system, that some MTSOs may be exceeded either today or in the future.

When an exceedance has been determined, either through monitoring or during the Action Plan update process, the only action required under this Plan is that WCCTAC document the condition, and continue to monitor and address the MTSOs in future updates to the Plan under the timeframe established in this chapter.

In the case where a proposed development project or General Plan Amendment causes an exceedance, or exacerbates a situation where an



already exceeded MTSO is worsened, then the procedures in this chapter regarding development application review and general plan amendments shall apply.





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Appendix A: Index to Actions by Route

	West County Routes of Regional Significance and Applicable Actions								
	Route of Regional Significance	Applicable Actions*							
1.	Appian Way	1, 3, 7, 9, 10, 11, 12, 13, 14, 17, 21, 28, 31, 32, 33, 35, 37, 38							
2.	Carlson Boulevard	1, 3, 7, 9, 10, 11, 12, 13, 14, 17, 19, 28, 31, 32, 33, 40, 41							
3.	Central Avenue	1, 3, 7, 9, 10, 11, 12, 13, 14, 17, 19, 21, 26, 27, 28, 31, 32, 33, 35, 41							
4.	Cummings Skyway	3, 7, 9, 10, 13, 14, 21, 22, 24, 28, 29, 31, 32, 33							
5.	Interstate 80	3, 4, 7, 9, 10, 13, 14, 17, 20, 21, 26, 29, 31, 32, 33, 39, 43, 46, 47							
6.	Interstate 580	3, 4, 7, 9, 10, 13, 14, 16, 17, 25, 29, 31, 32, 33, 40, 47							
7.	Richmond Parkway	1, 3, 7, 9, 10, 11, 12, 13, 14, 18, 19, 21, 25, 28, 29, 31, 32, 33, 35, 41							
8.	San Pablo Avenue	1, 2, 3, 7, 9, 10, 11, 12, 13, 14, 17, 19, 21, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 39, 41, 45							
9.	San Pablo Dam Road	1, 3, 7, 9, 10, 11, 12, 13, 14, 17, 20, 21, 28, 29, 31, 32, 33, 35, 38							
10.	State Route 4	3, 4, 7, 9, 10, 13, 14, 21, 22, 23, 29, 31, 32, 33, 39, 40							
11.	23rd Street	1, 2, 3, 7, 9, 10, 11, 12, 13, 14, 17, 19, 28, 31, 32, 33, 40, 41, 44							

^{*} See Chapter 5 for a full list of all Actions.



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Appendix B: MTSO Values

CCTA regularly monitors the values of the MTSOs defined by all of the subregions in their Action Plans for Routes of Regional Significance. The most recent monitoring effort was conducted in early 2013. CCTA is also responsible for forecasting the values of the MTSOs at a given horizon year (which for the purposes of this plan is the year 2040). The 2040 forecasts are the result of applying the CCTA regional travel demand model and reporting the future traffic volumes generated by that model application. It should be noted that the model results are intended to give an idea of the order-of-magnitude changes in traffic volumes anticipated across the region; much more detailed and refined studies would be undertaken for any specific project. This appendix contains the 2013 values reported for the WCCTAC area as part of the regular monitoring effort and the 2040 forecasts of those values (note that the 2040 forecasts are in process for some of the regional routes and will be inserted in this table when available). Please see the CCTA report titled "2013 CMP and MTSO Monitoring Report" for further information.

West County Freeway MTSO Values I-580 Freeway Analysis – Delay Index										
		2013 Observations				2040 Forecasts				
Direction	MTSO Delay Index	Speed (mph)		Delay Index		Speed (mph)		Delay Index		
		AM	PM	AM	PM	AM	PM	AM	PM	
EB	2.5	55	51	1.2	1.3	52	41	1.2	1.6	
WB	2.5	58	58	1.1	1.1	52	50	1.2	1.3	



West County Freeway MTSO Values I-80 Freeway Analysis – Delay Index												
			20	13 Obse	rvatio	ns	2	040 Foi	Forecasts			
Segment	Direction	MTSO Delay Index	Average Speed		,		Average Speed		Delay Index			
			AM	PM	AM	РМ	AM	PM	AM	PM		
Carquinez Bridge to SR-4	EB WB	3.0 3.0	61 61	60 65	1.1 1.1	1.1 1.0	57 38	52 65	1.1 1.7	1.3 1.0		
SR-4 to Cutting Blvd	EB WB	3.0 3.0	62 31	33 62	1.1 2.1	2.0 1.1	55 21	31 45	1.2 3.2	2.1 1.4		
Cutting Blvd to County Line	EB WB	3.0 3.0	67 23	35 64	1.0 2.9	1.9 1.0	56 18	32 49	1.2 3.6	2.0 1.3		

West County Freeway MTSO Values SR 4 Corridor – Delay Index									
		2013 Observations				2040 Forecasts			
Direction	MTSO Delay Index	Speed (mph)		Delay Index		Speed (mph)		Delay Index	
		AM	PM	AM	PM	AM	PM	AM	PM
EB	2.0	62	61	1.1	1.1	56	61	1.2	1.1
WB	2.0	60	60	1.1	1.1	59	52	1.1	1.2

	West County Intersection MTSO Values									
				2013 Obs	ervations	2040 Fo	orecasts			
No.	Primary Street	Secondary Street	MTSO	AM Peak LOS	PM Peak LOS	AM Peak LOS	PM Peak LOS			
1	Castro Street	I-580 EB Ramps	D	В	D	В	С			
2	Castro Street	I-580 WB Ramps	D	D	С	С	С			
5	Castro Street	Hensley St	D	С	E	С	С			
6	Castro Street	Richmond Lane	D	С	D	С	С			
7	Richmond Parkway	Gertrude Ave	D	С	D	F	Е			
8	Richmond Parkway	Pittsburgh Ave.	D	F	F	С	D			
9	Richmond Parkway	Parr Blvd	D	F	С	С	В			
10	Richmond Parkway	Hensley St	D	С	С	В	В			

Appendix B: MTSO Values

B

		West County Int	ersection	MTSO Va	lues		
				2013 Obs	ervations	2040 Fo	orecasts
No.	Primary Street	Secondary Street	MTSO	AM Peak LOS	PM Peak LOS	AM Peak LOS	PM Peak LOS
11a	Richmond Parkway	Barrett Ave.	D	В	С	В	С
11b	San Pablo Avenue	Cutting Boulevard	E	С	С	С	С
12	Richmond Parkway	McDonald	D	С	С	С	С
13	Richmond Parkway	I-580 WB Ramps	D	В	В	В	В
14	Richmond Parkway	I-580 EB Ramps	D	В	В	А	В
15	Richmond Parkway	Cutting Blvd	D	С	С	С	С
23	Carlson Boulevard	Central Avenue	D	В	А	С	В
30	San Pablo Avenue	McBryde Road	Е	С	С	С	С
38	EB I-80 on-off ramps	El Portal Avenue	D	С	С	С	D
39	Appian Way-La Colina Road	San Pablo Dam Road	D	С	С	С	D
59	Pinole Valley Road	San Pablo Avenue	E	В	В	F	E
70	San Pablo Avenue	San Pablo Dam Road	E	С	D	E	Е
74	San Pablo Avenue	El Portal Drive- Broadway Avenue	E	С	С	С	С
81	San Pablo Avenue	Hilltop Drive	Е	С	D	D	F
93	San Pablo Avenue	John Muir Parkway	E	D	Е	F	F
97	San Pablo Avenue	EB I-80 on-off ramps-Roosevelt Avenue	E	С	D	F	E
125	San Pablo Dam Road	El Portal Drive	D	D	С	С	С
128	San Pablo Avenue	Rumrill Avenue- College Lane	E	D	С	D	D
132	23rd Street	Macdonald Avenue	D	А	А	В	В
143	San Pablo Dam Road	WB I-80 on-off ramps	D	С	В	D	С
150	Appian Way-Pinnon Avenue	San Pablo Avenue	E	С	С	С	С
158	Appian Way	Tara Hills Drive- Canyon Drive	D	С	С	С	С
159	Appian Way	EB I-80 on-off- ramps	D	А	В	В	В



	West County Intersection MTSO Values									
				2013 Obs	ervations	2040 Forecasts				
No.	Primary Street	Secondary Street	MTSO	AM Peak LOS	PM Peak LOS	AM Peak LOS	PM Peak LOS			
160	Appian Way	Fitzgerald Drive- Sarah Drive	D	С	С	С	D			
171	San Pablo Avenue	Central Avenue	E	С	С	С	D			
175	Appian Way	WB I-80 on-off- ramps	D	D	С	E	E			
186	Bayview Avenue	Carlson Boulevard	D	D	С	E	D			
231	23rd Street	Barrett Avenue	D	В	В	В	В			
233	San Pablo Avenue	Barrett Avenue	Е	С	С	D	D			
237	23rd Street	Rheem Avenue	D	С	С	С	D			
249	EB I-80 on-off ramps- Amador St	San Pablo Dam Road	D	С	D	С	С			
251	I-80 NB Ramps	San Pablo Dam Road	D	С	В	В	В			
257	Castro Ranch Road	San Pablo Dam Road	D	С	С	В	В			

SOURCE:

Analysis prepared by Kittelson & Associates for CCTA.