



# Metropolitan Transportation Commission

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

## Meeting Agenda

### Operations Committee

#### *Committee Members:*

*Dave Cortese, Chair    Julie Pierce, Vice Chair*

*Alicia Aguirre, Damon Connolly, Anne Halsted,  
Sam Liccardo, Jim Spering*

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

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Friday, November 3, 2017

9:35 AM

Board Room - 1st Floor

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This meeting is scheduled to be webcast live on the Metropolitan Transportation Commission's Website: <http://mtc.ca.gov/whats-happening/meetings> and will take place at 9:35 a.m. or immediately following the 9:30 a.m. Planning Committee Meeting.

#### 1. Roll Call / Confirm Quorum

*Quorum: A quorum of this committee shall be a majority of its regular non-ex-officio voting members (4).*

#### 2. Consent Calendar

- 2a.    [17-2919](#)    Minutes of October 13, 2017 Meeting
- Action:            Committee Approval
- Attachments:    [2a OPS Minutes\\_Oct 2017.pdf](#)
- 
- 2b.    [17-2920](#)    Contract - I-880 Integrated Corridor Management (ICM) North Segment  
                         Construction Management Services: S&C Engineers, Inc. (\$1,500,000)
- Action:            Committee Approval
- Presenter:        Sarah Burnworth
- Attachments:    [2b I-880 ICM CM.pdf](#)
- 
- 2c.    [17-2921](#)    First Quarter MTC SAFE Financial Statements September 2017
- Action:            Committee Approval
- Presenter:        Sonia Elsonbaty
- Attachments:    [2c 1st QTR MTC SAFE Financial Statements Sept. 2017.pdf](#)

### 3. Information

- 3a. [17-2966](#) High Occupancy Vehicle (HOV) Lanes Degradation and HOV3+ Outreach Plan

Briefing on 2016 Caltrans HOV Lanes Degradation Report and HOV Occupancy Policy Outreach.

**Action:** Information

**Presenter:** Ashley Nguyen, MTC and Joe Rouse, Caltrans

**Attachments:** [3a\\_HOV Lanes Degradation and HOV3+ Outreach Plan.pdf](#)

### 4. Public Comment / Other Business

### 5. Adjournment / Next Meeting

The next meeting of the Operations Committee will be December 8, 2017, 9:35 a.m. at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.

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

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

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

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

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

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

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

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

MTC's Chair and Vice-Chair are ex-officio voting members of all standing Committees.



# Metropolitan Transportation Commission

375 Beale Street, Suite 800  
San Francisco, CA 94105

## Legislation Details (With Text)

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**File #:** 17-2919      **Version:** 1      **Name:**  
**Type:** Minutes      **Status:** Consent  
**File created:** 10/5/2017      **In control:** Operations Committee  
**On agenda:** 11/3/2017      **Final action:**  
**Title:** Minutes of October 13, 2017 Meeting  
**Sponsors:**  
**Indexes:**  
**Code sections:**  
**Attachments:** [2a OPS Minutes\\_Oct 2017.pdf](#)

Date	Ver.	Action By	Action	Result
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**Subject:**  
Minutes of October 13, 2017 Meeting

**Recommended Action:**  
Committee Approval

**Attachments:**



# Metropolitan Transportation Commission

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

## Meeting Minutes - Draft

### Operations Committee

#### *Committee Members:*

*Dave Cortese, Chair Julie Pierce, Vice Chair*

*Alicia Aguirre, Damon Connolly, Anne Halsted,  
Sam Liccardo, Jim Spering*

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

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Friday, October 13, 2017

9:30 AM

Board Room - 1st Floor

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#### 1. Roll Call / Confirm Quorum

**Present:** 6 - Vice Chair Pierce, Commissioner Aguirre, Commissioner Connolly, Commissioner Halsted, Commissioner Spering and Chair Cortese

**Absent:** 1 - Commissioner Liccardo

Non-Voting Member Present: Commissioner Azumbrado

Non-Voting Member Absent: Commissioner Giacopini

Ex Officio Voting Member Present: Commission Vice Chair Haggerty

Ad Hoc Non-Voting Member Present: Commissioner Worth

#### 2. Pledge of Allegiance

#### 3. Compensation Announcement - Committee Secretary

#### 4. Consent Calendar

Approval of the Consent Calendar

**Upon the motion by Vice Chair Pierce and second by Commissioner Halsted, the  
Consent Calendar was unanimously approved by the following vote:**

**Aye:** 6 - Vice Chair Pierce, Commissioner Aguirre, Commissioner Connolly, Commissioner Halsted, Commissioner Spering and Chair Cortese

**Absent:** 1 - Commissioner Liccardo

#### 4a. [17-2857](#) Minutes of September 8, 2017 Meeting

**Action:** Committee Approval

- 4b.**     [17-2779](#)     Contract Amendment - Transportation Engineering and Planning Services:  
Technical Assistance for Dumbarton Forward: HDR Engineering, Inc.  
(\$240,000)

**Action:**   Committee Approval

**Presenter:**   Winnie Chung

- 4c.**     [17-2861](#)     Clipper® Contract Change Order Amendment - Clipper® Card  
Procurement: Cubic Transportation Systems, Inc. (\$2,000,000)

**Action:**   Committee Approval

**Presenter:**   Lynn Valdivia

## **5. Public Comment / Other Business**

Aleta Dupree was called to speak.

Roland Lebrun was called to speak.

## **6. Adjournment / Next Meeting**

**The next meeting of the Operations Committee will be November 3 , 2017, 9:35 a.m.  
at the Bay Area Metro Center, 375 Beale Street, San Francisco, CA.**



# Metropolitan Transportation Commission

375 Beale Street, Suite 800  
San Francisco, CA 94105

## Legislation Details (With Text)

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**File #:** 17-2920      **Version:** 1      **Name:**  
**Type:** Contract      **Status:** Consent  
**File created:** 10/5/2017      **In control:** Operations Committee  
**On agenda:** 11/3/2017      **Final action:**  
**Title:** Contract - I-880 Integrated Corridor Management (ICM) North Segment Construction Management  
Services: S&C Engineers, Inc. (\$1,500,000)

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:** [2b I-880 ICM CM.pdf](#)

Date	Ver.	Action By	Action	Result
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**Subject:**

Contract - I-880 Integrated Corridor Management (ICM) North Segment Construction Management  
Services: S&C Engineers, Inc. (\$1,500,000)

**Presenter:**

Sarah Burnworth

**Recommended Action:**

Committee Approval

**Attachments:**



METROPOLITAN  
TRANSPORTATION  
COMMISSION

**Agenda Item 2b**

Bay Area Metro Center  
375 Beale Street  
San Francisco, CA 94105  
TEL 415.778.6700  
WEB [www.mtc.ca.gov](http://www.mtc.ca.gov)

## *Memorandum*

TO: Operations Committee

DATE: October 27, 2017

FR: Executive Director

W. I. 1235

RE: Contract – I-880 Integrated Corridor Management (ICM) North Segment Construction Management Services: S&C Engineers, Inc. (\$1,500,000)

This memorandum requests the Committee's approval to enter into a three-year contract with S&C Engineers, Inc., in an amount not to exceed \$1,500,000 to provide construction management services for the I-880 ICM North Segment Project.

### **Background**

The I-880 ICM North Segment Project is a collaborative effort led by MTC, together with Caltrans District 4, City of Oakland, City of San Leandro, and Alameda-Contra Costa Transit District (AC Transit), to develop an enhanced arterial incident management strategy for the I-880 Corridor. Stakeholders identified this project for initial deployment along the northern segment of the I-880 Corridor as part of an overall ICM approach to improve mobility, accessibility, and safety. This project seeks to better coordinate and integrate Intelligent Transportation Systems (ITS) and operations across networks and jurisdictional boundaries.

The I-880 ICM North Segment Project will improve integration and operation of ITS systems in order to facilitate the active management of traffic that has naturally diverted from the freeway due to incidents. The project includes the installation of ITS infrastructure on arterial streets, such as closed circuit television cameras, trailblazer (electronic message) signs, and traffic signal intersection upgrades, including curb ramps, detectors, signal coordination, and communications.

Caltrans approved the 100% PS&E for this project in April 2017 and issued the encroachment permit in May 2017. MTC submitted a request for federal construction authorization in May 2017 and received authorization to proceed with advance construction in early August 2017.

### **Consultant Selection Process**

In August 2017, MTC issued a Request for Qualifications (RFQ) for consultant assistance with the above-described project. An email advertising the availability of the RFQ on MTC's website was sent to over 1,343 individuals/firms. MTC received Statements of Qualification (SOQs) from three firms: Cooper Puga Management, Inc., S&C Engineers, Inc., and Zoon Engineering, Inc. A panel of MTC and Caltrans staff evaluated the qualifications of each firm. The evaluation criteria, listed in order of importance, included: 1) qualifications of firm and proposed staff to complete the required scope of work (40%); 2) detailed understanding of the project and ability to meet MTC's objectives (35%); 3) demonstrated experience successfully completing project management and quality control (15%); and 4) professional references (10%). The evaluation panel submitted written follow-up questions to the three firms. Responses from the firms were received and reviewed by the panel on October 9, 2017.



After a review of the SOQs and written responses, the evaluation panel unanimously recommended the selection of S&C Engineers, Inc. This firm was found to be the most qualified to perform the work due to its strong expertise in managing similar ITS projects, and its project manager's extensive experience working with Caltrans and local stakeholders. Key team members have specialized knowledge based on their work on similar projects, a detailed understanding of the challenges involved to deliver the project, and established relationships with all project stakeholders (Caltrans, City of Oakland, City of San Leandro, and AC Transit). This firm has a proven track record of providing project and quality control for complex projects, including successful management the I-80 Smart Corridor project. In addition, qualified staff are highly recommended and available to meet the project's schedule.

The table below provides the final rankings based on the evaluation results:

<b>Firm</b>	<b>Ranking</b>
S&C Engineers, Inc., Oakland, CA	1
Zoon Engineering, Inc., Emeryville, CA	2
Cooper Puga Management, Inc., San Francisco, CA	3

Attachment A includes a summary of S&C Engineers, Inc. and its project team's small business and disadvantaged business enterprise status.

#### **Recommendation**

Staff recommends that the Committee authorize the Executive Director or his designated representative to negotiate and enter into a contract with S&C Engineers, Inc., in an amount not to exceed \$1,500,000 to provide construction management services for the I-880 ICM North Segment Project. Should staff fail to successfully negotiate a contract with S&C Engineers, Inc., staff recommends that the Committee authorize the Executive Director or his designee to negotiate and enter into a contract for the aforementioned work with the second and third-ranked firms respectively.

  
\_\_\_\_\_  
Steve Heminger

SH: sb

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	Firm Name	Role on Project	DBE* Firm			SBE** Firm		
			Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	S&C Engineers, Inc.	Project and Construction Management			X	X	21993	
Subcontractors	Summit Associates	Inspector/Materials Tester	X	30881				X
	Chaudhary & Associates	Project Surveyor/Inspector	X	3110				X

\*Denotes certification by the California Unified Certification Program (CUCP).

\*\*Denotes certification by the State of California.

## REQUEST FOR COMMITTEE APPROVAL

### Summary of Proposed Consultant Contract

Work Item No.:	1235
Contractor:	S&C Engineers, Inc. Oakland, CA
Work Project Title:	I-880 Integrated Corridor Management (ICM) North Segment Construction Management Services
Purpose of Project:	To provide construction management services for the I-880 ICM North Segment Project
Brief Scope of Work:	Provide overall project and construction management, oversee and facilitate the timely and efficient completion of work by both the civil construction contractor and system integrator, and proactively lead stakeholder coordination.
Project Cost Not to Exceed:	\$1,500,000
Funding Source:	CMAQ
Fiscal Impact:	\$1,500,000 is available in the FY 2017-18 Budget.
Motion by Committee:	That the Executive Director or his designee is authorized to negotiate and enter into a contract with S&C Engineers, Inc., to provide construction management services for the I- 880 ICM North Segment Project, as described above and in the Executive Director's October 27, 2017 memorandum, and the Chief Financial Officer is authorized to set aside funds in the amount of \$1,500,000 for such contract. Should staff fail to successfully negotiate a contract with S&C Engineers, Inc., then the Executive Director or his designee is authorized to negotiate and enter into a contract for such work with the second and third rated firms respectively, as specified in the Executive Director's October 27, 2017 memorandum.
Operations Committee:	Approved: _____ Dave Cortese, Chair
Approved:	Date: November 3, 2017



# Metropolitan Transportation Commission

375 Beale Street, Suite 800  
San Francisco, CA 94105

## Legislation Details (With Text)

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**File #:** 17-2921      **Version:** 1      **Name:**  
**Type:** Report      **Status:** Consent  
**File created:** 10/5/2017      **In control:** Operations Committee  
**On agenda:** 11/3/2017      **Final action:**  
**Title:** First Quarter MTC SAFE Financial Statements September 2017  
**Sponsors:**  
**Indexes:**  
**Code sections:**  
**Attachments:** [2c\\_1st QTR MTC SAFE Financial Statements Sept. 2017.pdf](#)

Date	Ver.	Action By	Action	Result
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### Subject:

First Quarter MTC SAFE Financial Statements September 2017

### Presenter:

Sonia Elsonbaty

### Recommended Action:

Committee Approval

### Attachments:



METROPOLITAN  
TRANSPORTATION  
COMMISSION

**Agenda Item 2c**

Bay Area Metro Center  
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## *Memorandum*

TO: Operations Committee

DATE: October 27, 2017

FR: Deputy Executive Director, Operations

W.I.: 1231

RE: First Quarter MTC SAFE Financial Statements September 2017

Attached are the MTC SAFE financial statements for the first quarter ended September 30, 2017.

### **SAFE Program**

Total revenues of \$1.9 million are above budget at 29%, compared to the 25% of the budget year expired. The additional revenues are mainly the result of more vehicle registration fees collected during the first quarter. Total DMV registration fees collected for the three month period are \$1.7 million which makes up 89% of total revenues for the program. BATA's annual operating contribution of \$200,000 was transferred in July.

Year-to-date expenses of \$197,607 for the SAFE Program are below budget at 9%. Activities will ramp up later in the year as services are rendered for the encumbered contracts. Now that the FY 2016-17 audit is completed, funds totaling \$142,929 from last fiscal year are included in the budget as contract carryover encumbrances.

### **FSP Program**

Total expenses for the first quarter at \$1.4 million are 13% of the expenses budget for the FSP Program. Actual expenses came in below the budget mainly due to timing differences in the billing for the freeway tow services and shift in personnel assignment. Tow related expenses are \$1.3 million as of the end of the first quarter which is 91% of the total reported expenditure.

### **Capital Programs**

The total life-to-date budget for the Capital Programs is \$24 million. As of the end of the first quarter of FY 2017-18, life-to-date expenses for those programs plus encumbrances total \$17 million.

If you have any questions about this report, please contact Brian Mayhew at (415) 778-6730.

A handwritten signature in blue ink, reading "Andrew B. Fremier", is positioned above a horizontal line.

Andrew B. Fremier

### **Attachment:**

- Attachment A: MTC Service Authority for Freeways and Expressways Financial Statements As of September 2017

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**MTC Service Authority for Freeways and Expressways**  
**Operating Budget**  
**As of September 2017**

	1	2	3	4	5	6
	FY 2017-18 Budget	Actual YTD	Budget Balance	% of Budget	% of Budget year Expired	Encumbrances
<b><i>SAFE Program</i></b>						
<b>REVENUE:</b>						
Vehicle Registration Fees	6,400,000	1,694,691	4,705,309	26.5%	25.0%	
BATA	200,000	200,000	-	100.0%	25.0%	
Interest Income	9,000	114	8,886	1.3%	25.0%	
<b>Total Revenue</b>	6,609,000	1,894,806	4,714,194	28.7%	25.0%	
<b>EXPENSE:</b>						
Salaries and Benefits	298,489	45,920	252,569	15.4%	25.0%	-
General Operations	911,174	28,607	882,567	3.1%	25.0%	11,256
Consultant Services	342,282	3,062	339,220	0.9%	25.0%	46,286
Callbox Operating Expense	702,001	120,018	581,983	17.1%	25.0%	452,028
<b>Total Expense</b>	2,253,946	197,607	2,056,339	8.8%	25.0%	509,570
<b>OPERATING/CAPITAL TRANSFERS In (Out):</b>						
MTC	(950,000)	(44,210)	(905,790)	4.7%	25.0%	-
FSP	(2,348,975)	(322,099)	(2,026,876)	13.7%	25.0%	-
Capital	(300,000)	(300,000)	-	100.0%	25.0%	-
Operating Reserve	(756,079)	(1,030,889)	274,810	136.3%	25.0%	-
<b>Total Transfers</b>	(4,355,054)	(1,697,198)	(2,657,856)	39.0%	25.0%	-
<b>NET Operating Revenue (Exp)</b>	-	-	-			

	1	2	3	4	5	6
	FY 2017-18 Budget	Actual YTD	Budget Balance	% of Budget (col 2/1)	% of Budget year Expired	Encumbrances
<b><i>FSP Program</i></b>						
<b>REVENUE:</b>						
Local Assistance Program (LAP)	6,689,600	554,910	6,134,690	8.3%	25.0%	
Surface Transportation Program (STP)	2,000,000	567,660	1,432,340	28.4%	25.0%	
Traffic Mitigation Program	100,000	-	100,000	0.0%	25.0%	
<b>Total Revenue</b>	8,789,600	1,122,570	7,667,030	12.8%	25.0%	
<b>EXPENSE:</b>						
Salaries and Benefits	464,212	96,712	367,500	20.8%	25.0%	
General Operations	277,363	240	277,123	0.1%	25.0%	75
Consultant Services	170,000	15,780	154,220	9.3%	25.0%	88,130
Freeway Serv Operating Expense	10,227,000	1,331,938	8,895,062	13.0%	25.0%	7,781,887
<b>Total Expense</b>	11,138,575	1,444,670	9,693,905	13.0%	25.0%	7,870,092
<b>TRANSFERS In (Out):</b>						
Transfers from Callbox	2,348,975	322,099	2,026,876	13.7%	25.0%	-
<b>Total Transfers</b>	2,348,975	322,099	2,026,876	13.7%	25.0%	-
<b>Ending Balance</b>	-	-	-			

**MTC Service Authority for Freeways and Expressways**  
**Capital Budget**  
**As of September 2017**

	1	2	3	4
<u>Capital Program</u>	LTD Budget			Project Balance
	Thru FY 2017-18	Actual LTD	Encumbrance	LTD
<u>Active Programs</u>				
<b>REVENUE:</b>				
1. CMAQ	6,810,390	6,873,991	-	(63,601)
Caltrans	-	0	-	(0)
Solano Transportation Authority	-	0	-	(0)
Miscellaneous	-	-	-	-
2. STP	1,556,260	826,138	-	730,122
<b>Total Revenue</b>	8,366,650	7,700,130	-	666,520
<b>EXPENSE:</b>				
6301-Bridge Callboxes	3,771,000	3,776,669	-	(5,669)
6303-Bay Area Camera Upgrade	9,464,583	8,803,108	170,672	490,803
6306-Data - AVL telecom system update	3,642,000	2,062,108	335,805	1,244,087
6314-Callbox Site Mitigation	1,650,000	1,373,812	76,359	199,829
6318-Connected Vehicles & Telematic	2,500,000	-	-	2,500,000
6319-Active OPS Mgt Program	3,200,000	268,856	419,144	2,512,000
<b>Total Expense</b>	24,227,583	16,284,553	1,001,980	6,941,050
<b>TRANSFERS In/(Out):</b>				
BATA	3,711,000	3,711,000	-	-
SAFE	12,149,933	12,149,933	-	-
<b>Total Transfer In/(Out)</b>	15,860,933	15,860,933	-	-
<b>Ending Balance</b>	-	7,276,510	-	-

**CONTRACTS EXECUTED BY EXECUTIVE DIRECTOR**  
**\$200,000 and Under**

**Jul-Sep'17**

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California Highway Patrol

\$15,000

*Patrol Services*



# **PURCHASE ORDERS EXECUTED BY EXECUTIVE DIRECTOR**

<b>\$2,500 - \$200,000</b>	<b>Jul-Sep'17</b>
Float Art Design LLC	\$2,745
<i>Supplies - Freeway Safety Patrol</i>	
Traffic and Parking Control Co, Inc.	\$2,995
<i>Supplies - Freeway Safety Patrol</i>	
Minuteman Press	\$2,995
<i>Freeway Service Patrol Supplies</i>	
Dakota Press	\$6,467
<i>Supplies - Freeway Safety Patrol</i>	
Another Dancing Bear	\$2,995
<i>Supplies - Freeway Safety Patrol</i>	
Sam's Signs	\$2,995
<i>Supplies - Freeway Safety Patrol</i>	
Bob's Towing	\$96,000
<i>Tow Service</i>	
Abacus Product Inc.	\$2,995
<i>Supplies - Freeway Safety Patrol</i>	
Connections Communications Services	\$9,000
<i>Communications Services</i>	
T-Mobile USA Inc.	\$32,000
<i>Cellular Services for SAFE</i>	
Verizon Wireless	\$28,680
<i>Wireless Data Service</i>	
Globafone	\$10,000
<i>Cellular services for SAFE</i>	
AT&T	\$37,500
<i>T-1 Service</i>	
Network Innovations Gov't Services	\$25,000
<i>Communications Services</i>	
Morrison Ohara	\$2,765
<i>Supplies - Freeway Safety Patrol</i>	
Symmetrical Designs	\$2,940
<i>Website Maintenance</i>	

**Total Air Countries**

Month	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18
Jul	\$520,000	\$570,000	\$560,000	\$580,000	\$560,000	\$570,000
Aug	\$540,000	\$540,000	\$530,000	\$540,000	\$610,000	\$590,000
Sept	\$460,000	\$500,000	\$520,000	\$530,000	\$560,000	\$530,000
Oct	\$500,000	\$480,000	\$480,000	\$500,000	\$510,000	\$490,000
Nov	\$450,000	\$430,000	\$430,000	\$480,000	\$490,000	\$430,000
Dec	\$450,000	\$510,000	\$520,000	\$510,000	\$500,000	\$510,000
Jan	\$540,000	\$530,000	\$530,000	\$500,000	\$540,000	\$530,000
Feb	\$480,000	\$510,000	\$510,000	\$530,000	\$530,000	\$510,000
Mar	\$540,000	\$590,000	\$590,000	\$560,000	\$610,000	\$590,000
Apr	\$530,000	\$560,000	\$570,000	\$580,000	\$530,000	\$560,000
May	\$560,000	\$550,000	\$540,000	\$620,000	\$610,000	\$540,000
Jun	\$520,000	\$450,000	\$580,000	\$600,000	\$590,000	\$580,000

The chart displays monthly revenue in thousands for fiscal years FY13 through FY18. The Y-axis represents revenue in thousands, ranging from \$0 to \$8,000. The X-axis represents months from July to June. A red line indicates the trend for FY18, which is the most recent fiscal year shown. The revenue generally increases over time, with FY18 showing the highest values.

Month	FY13	FY14	FY15	FY16	FY17	FY18
Jul	\$500	\$600	\$400	\$300	\$200	\$500
Aug	\$1,000	\$1,100	\$900	\$800	\$700	\$1,000
Sept	\$1,500	\$1,600	\$1,400	\$1,300	\$1,200	\$1,500
Oct	\$2,000	\$2,100	\$1,900	\$1,800	\$1,700	\$2,000
Nov	\$2,500	\$2,600	\$2,400	\$2,300	\$2,200	\$2,500
Dec	\$3,000	\$3,100	\$2,900	\$2,800	\$2,700	\$3,000
Jan	\$3,500	\$3,600	\$3,400	\$3,300	\$3,200	\$3,500
Feb	\$4,000	\$4,100	\$3,900	\$3,800	\$3,700	\$4,000
Mar	\$4,500	\$4,600	\$4,400	\$4,300	\$4,200	\$4,500
Apr	\$5,000	\$5,100	\$4,900	\$4,800	\$4,700	\$5,000
May	\$5,500	\$5,600	\$5,400	\$5,300	\$5,200	\$5,500
Jun	\$6,000	\$6,100	\$5,900	\$5,800	\$5,700	\$6,000



# Metropolitan Transportation Commission

375 Beale Street, Suite 800  
San Francisco, CA 94105

## Legislation Details (With Text)

<b>File #:</b>	17-2966	<b>Version:</b>	1	<b>Name:</b>	
<b>Type:</b>	Report	<b>Status:</b>		Informational	
<b>File created:</b>	10/13/2017	<b>In control:</b>		Operations Committee	
<b>On agenda:</b>	11/3/2017	<b>Final action:</b>			
<b>Title:</b>	High Occupancy Vehicle (HOV) Lanes Degradation and HOV3+ Outreach Plan				
	Briefing on 2016 Caltrans HOV Lanes Degradation Report and HOV Occupancy Policy Outreach.				
<b>Sponsors:</b>					
<b>Indexes:</b>					
<b>Code sections:</b>					
<b>Attachments:</b>	<a href="#">3a_HOV Lanes Degradation and HOV3+ Outreach Plan.pdf</a>				

Date	Ver.	Action By	Action	Result
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### Subject:

High Occupancy Vehicle (HOV) Lanes Degradation and HOV3+ Outreach Plan

Briefing on 2016 Caltrans HOV Lanes Degradation Report and HOV Occupancy Policy Outreach.

### Presenter:

Ashley Nguyen, MTC and Joe Rouse, Caltrans

### Recommended Action:

Information

### Attachments:



METROPOLITAN  
TRANSPORTATION  
COMMISSION

**Agenda Item 3a**

Bay Area Metro Center  
375 Beale Street  
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## *Memorandum*

TO: Operations Committee

DATE: October 27, 2017

FR: Deputy Executive Director, Operations

W.I.: 1231

RE: High Occupancy Vehicle (HOV) Lanes Degradation and HOV3+ Outreach Plan

### **California HOV Degradation Report and Action Plan**

As required by U.S. Code Title 23 section 166, Caltrans has submitted to the Federal Highway Administration its 2016 California High Occupancy Vehicle Lane Degradation Determination Report regarding the performance of the HOV lane network in California. Caltrans has also prepared the companion 2016 California High Occupancy Vehicle Lane Degradation Action Plan, which discusses the causes of degradation and identifies remediation strategies to bring degraded HOV lane facilities into compliance with federal regulations.

By federal definition, an HOV lane is considered degraded if the average traffic speed during the morning or evening weekday peak commute hour is less than 45 miles per hour (mph) for more than 10 percent of the time over a consecutive 180-day period. For degraded HOV lanes, Caltrans is required to bring the facility into compliance by implementing strategies that include:

- 1) increasing the occupancy requirements of the HOV lanes;
- 2) varying the toll charged to high-occupancy toll vehicles to reduce demand;
- 3) discontinuing allowing non-HOV vehicles to use HOV lanes; and
- 4) increasing the available capacity of the HOV lane facility.

Caltrans reports that in 2016 California has experienced a three percent increase in degraded HOV lane-miles from 874 to 902 lane-miles compared between the first 180 days and the second 180 days in 2016. In the Bay Area, degradation has increased from 250 to 254 lane-miles between the first and second halves of 2016. This is up 2 percent from last year (63% vs 65%), and the severity of degradation is increasing. Between 2013 and 2016, the number of “Extremely” degraded lane miles has increased 253% from 25 to 89 miles.

As part of its 2016 Degradation Action Plan, Caltrans District 4 proposes to mitigate degradation for Santa Clara/Alameda I-880, Santa Clara SR 85 and Santa Clara SR 237 with the following strategy: “raise occupancy to HOV3+ with Express lane conversion by changing message on signing to indicate HOV requirement is 3+ when the lane is determined to still be degraded (Short-term to Long-term strategy).” For the Santa Clara SR 87 degraded HOV lanes, Caltrans stated “VTA has a future plan to convert HOV lane to an Express lane. At the time of the conversion, occupancy could be increased to HOV3+ (Long term strategy).” And, for San Mateo US 101, Caltrans notes the managed lane project, which is currently in the environmental and design phase, could “possibly operate as a HOV3+” when it opens in year 2020.

### **HOV3+ Outreach Plan**

The Bay Area has no history of increasing HOV occupancy requirements. In fact, our only experience is to lower them. One notable example is the Marin US 101 carpool lane, which used to be reserved for buses only until it was opened for carpools in 1976. The persistent HOV degradation in the Bay Area is a call to action for the region to explore HOV policies to improve HOV lane operational performance. The willingness of Caltrans to consider increasing occupancy requirements to HOV3+ for degraded HOV lanes within I-880, SR 237 and US 101 express lane corridors presents an opportunity for a focused discussion about HOV occupancy change for these major corridors.

MTC staff has initiated a dialogue about the challenges and opportunities to change HOV occupancy requirements from HOV2+ to HOV3+ for the planned Alameda I-880, SR 237 and San Francisco/San Mateo/Santa Clara US 101 express lanes corridors that ring the Bay. The two southern most bridges (San Mateo-Hayward Bridge and Dumbarton Bridge), which are the only two of seven state-owned toll bridges with HOV2+, would be included in the discussion. Staff believes that early engagement and discussions may prepare our region for considering a HOV3+ policy as a mitigation strategy for HOV lane degradation.

A coalition of Bay Area transportation agencies – Caltrans, MTC, Santa Clara Valley Transportation Authority, Alameda County Transportation Commission, San Mateo City/County Association of Governments, San Mateo Transportation Authority, San Francisco County Transportation Authority and others – will be involved in the outreach efforts. The key objective of this proposed HOV3+ outreach effort is to raise awareness and engage a cross-section of elected officials – mayors, congestion management agency board members and MTC Commissioners representing Alameda, Santa Clara, San Mateo and San Francisco Counties – as to the what, where, when and why behind considering HOV3+ change in planned express lanes corridors that ring the Bay. A change in HOV occupancy requirements is a policy decision; therefore, MTC staff wants to properly brief the policy makers on the HOV issues, identify concerns, and determine level of support for such a policy change.

Following the briefings with local elected officials, staff proposes a workshop in early 2018. At the workshop, MTC Commissioners will hear from transportation partners as to how HOV3+ could improve HOV lane performance. Carpool and transit service providers such as Scoop, Waze Carpool, Lyft, and Chariot will also be invited to the workshop so that they can share their strategies as to how they can help fill the third seat. With this input, Commissioners can discuss the challenges and opportunities of an HOV3+ policy and provide direction to staff on how to proceed.

Staff seeks your input on this initial phase of outreach.



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Andrew B. Fremier

### **Attachments:**

- PowerPoint Presentation – Caltrans
- PowerPoint Presentation - MTC

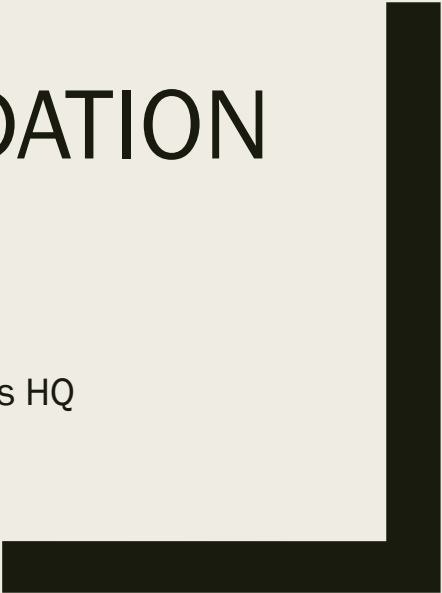
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# 2016 HOV DEGRADATION REPORT

Joe Rouse  
Office of Traffic Management, Caltrans HQ

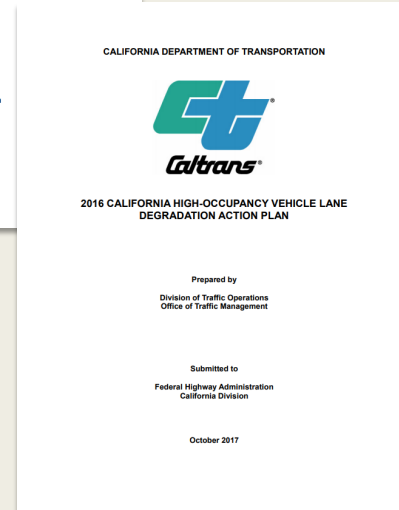
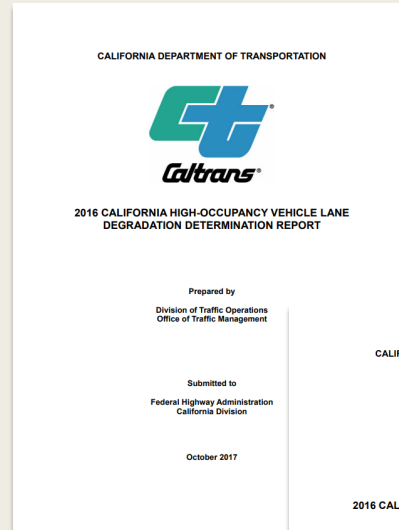


## How Is HOV Degradation Measured and Reported?

- HOV facilities are broken up into 5-mile segments
- Speed data on these segments is collected from our traffic monitoring systems
- Data is analyzed against the degradation standard.

## How Is Degradation Addressed?

- Districts are asked to review the potential causes of degradation.
- Depending on the causes, the districts identify actions that may help









## HOV Degradation: July – December 2016

Degraded	254 lane-miles
Not Degraded	135 lane-miles
No Data	17 lane-miles

Slightly Degraded	53 lane-miles
Very Degraded	99 lane-miles
Extremely Degraded	102 lane-miles

Trouble Spots:  
 SCL-101 (NB & SB)  
 ALA-880 (NB)  
 CC-80 (EB & WB))  
 MRN-101 (NB)  
 SCL-280 (NB)  
 SCL-85 (SB)  
 SCL-87 (NB)

## How is Degradation Going to be Addressed?

- Some of it is attributable to ongoing construction and actions are deferred until after that work is complete.
- Convert HOV lanes to HOT lanes (express lanes)
  - Add access restrictions
  - Add capacity
- Increases in occupancy are proposed for several facilities as part of conversion to HOT
- ACTC is monitoring their own express lane performance and making adjustments



# Questions or Comments?

Joe Rouse, HQ Traffic Operations

(916) 654-6448

[jrouse@dot.ca.gov](mailto:jrouse@dot.ca.gov)

Paul Ma, District 4 Highway Operations

(510) 286-5675

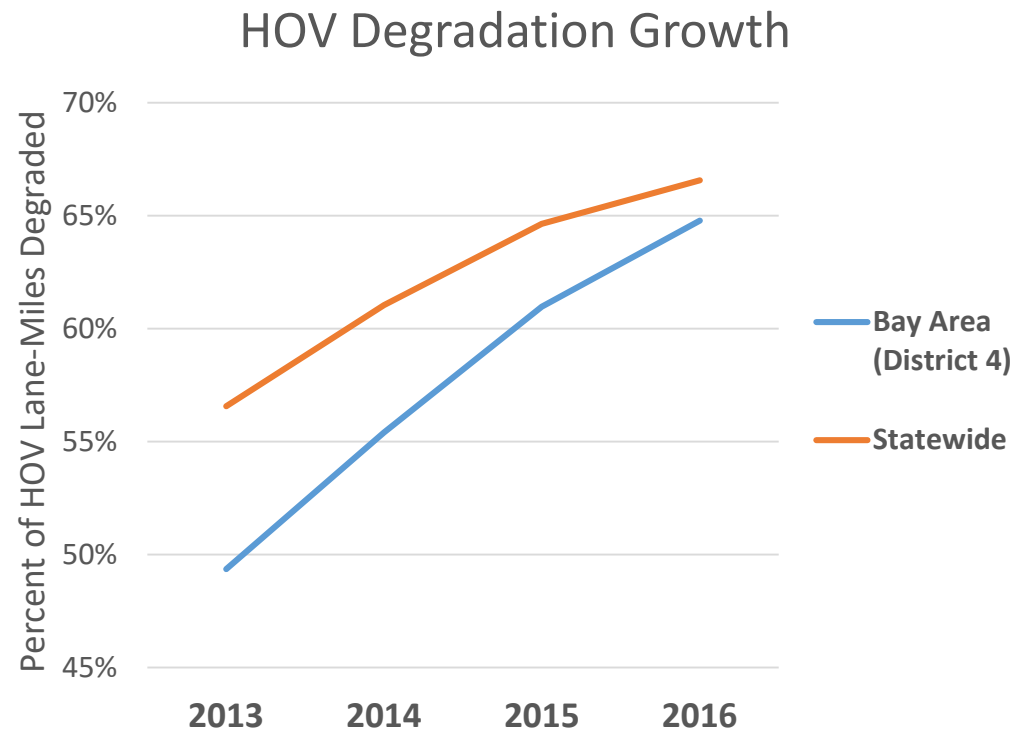
[Paul.Ma@dot.ca.gov](mailto:Paul.Ma@dot.ca.gov)

# HOV3+ Policy Outreach Plan

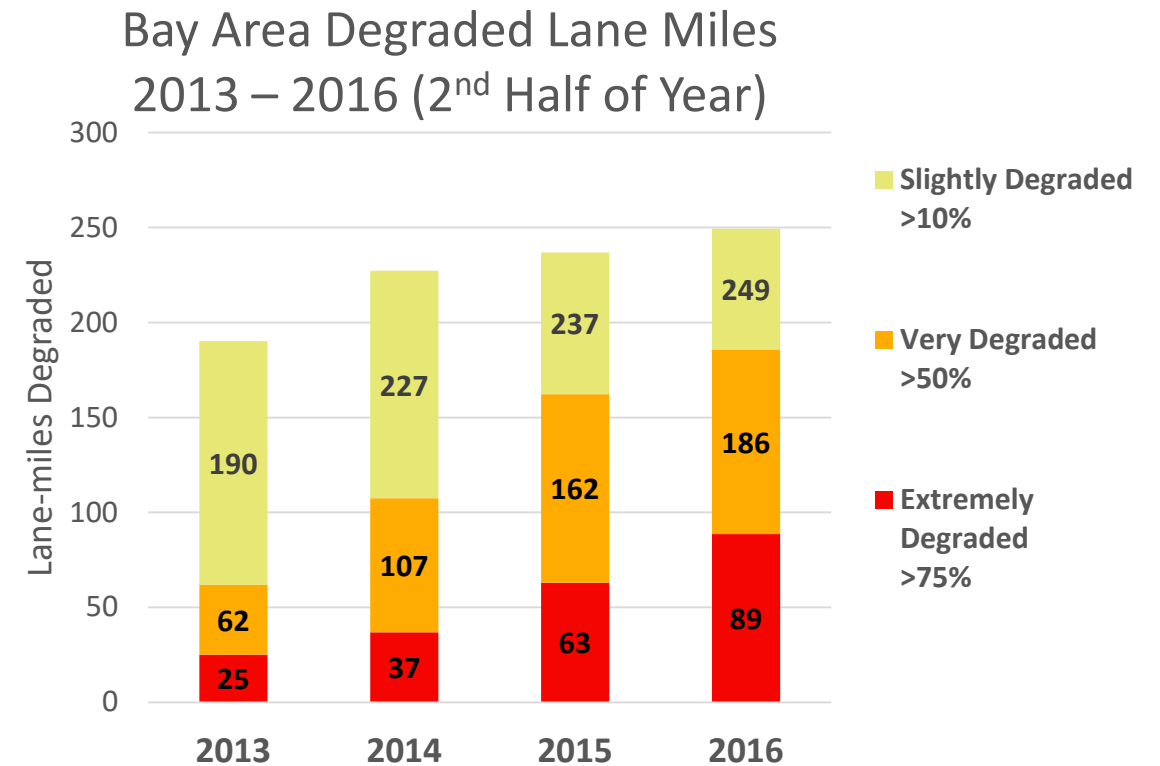
US 101, I-880, & SR 237 Express Lanes + Southern Bridges

Operations Committee  
November 3, 2017

# HOV Degradation Continues to Worsen in the Bay Area & California



**Federal Standard:** maintain an average speed of 45 mph at least 90 percent of the time during the peak hour over a consecutive 180-day period.

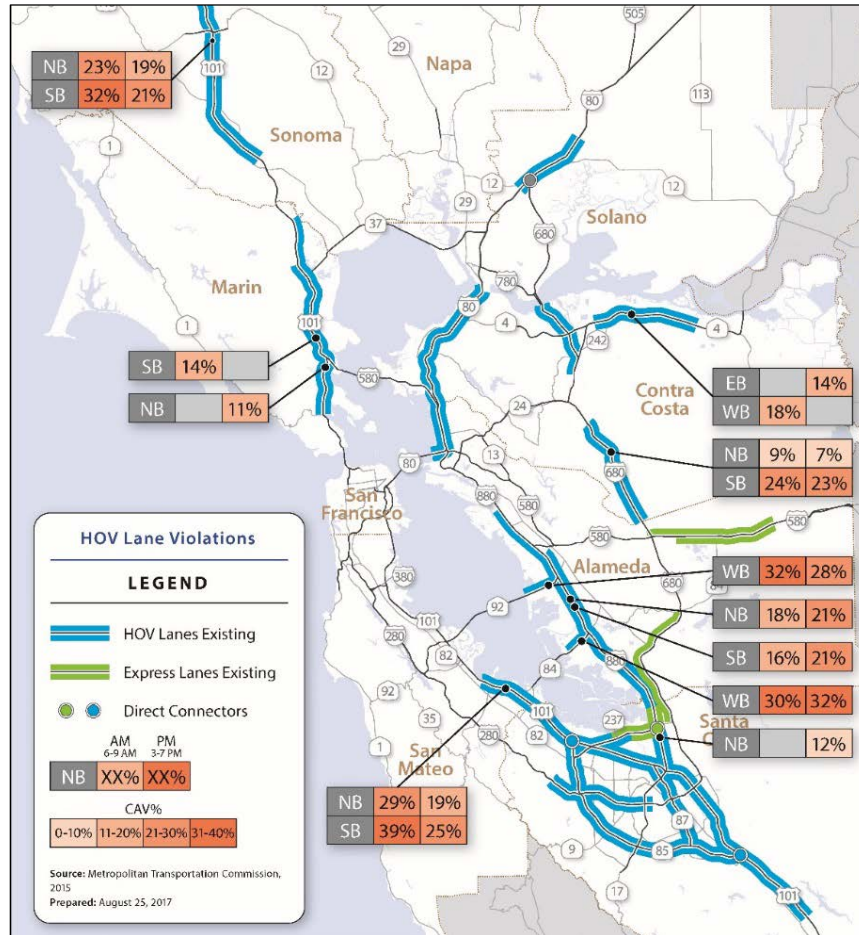


## 2016 v 2013:

- Total degraded miles increased by 49 miles (+31%)
- “Very” degraded miles increased by 124 miles (+200%)

# Addressing Degradation

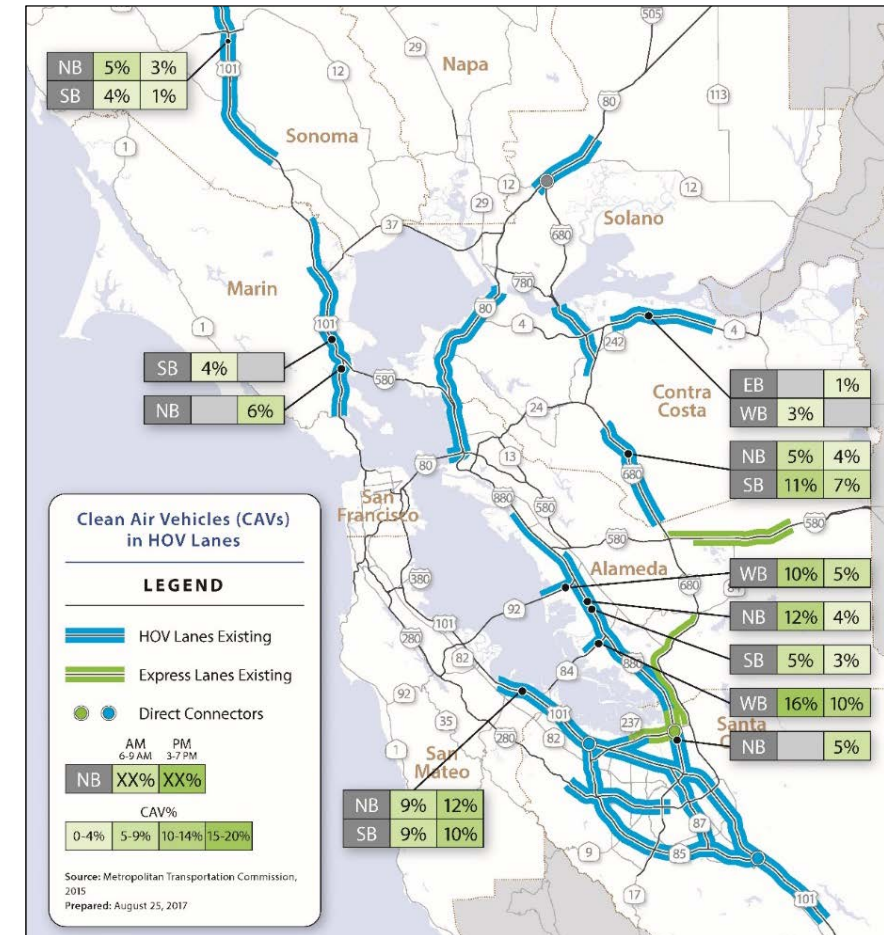
## Step 1: Enforce Violations



Average Violations in HOV Lanes (2015)

- AM – 24%
- PM – 19%

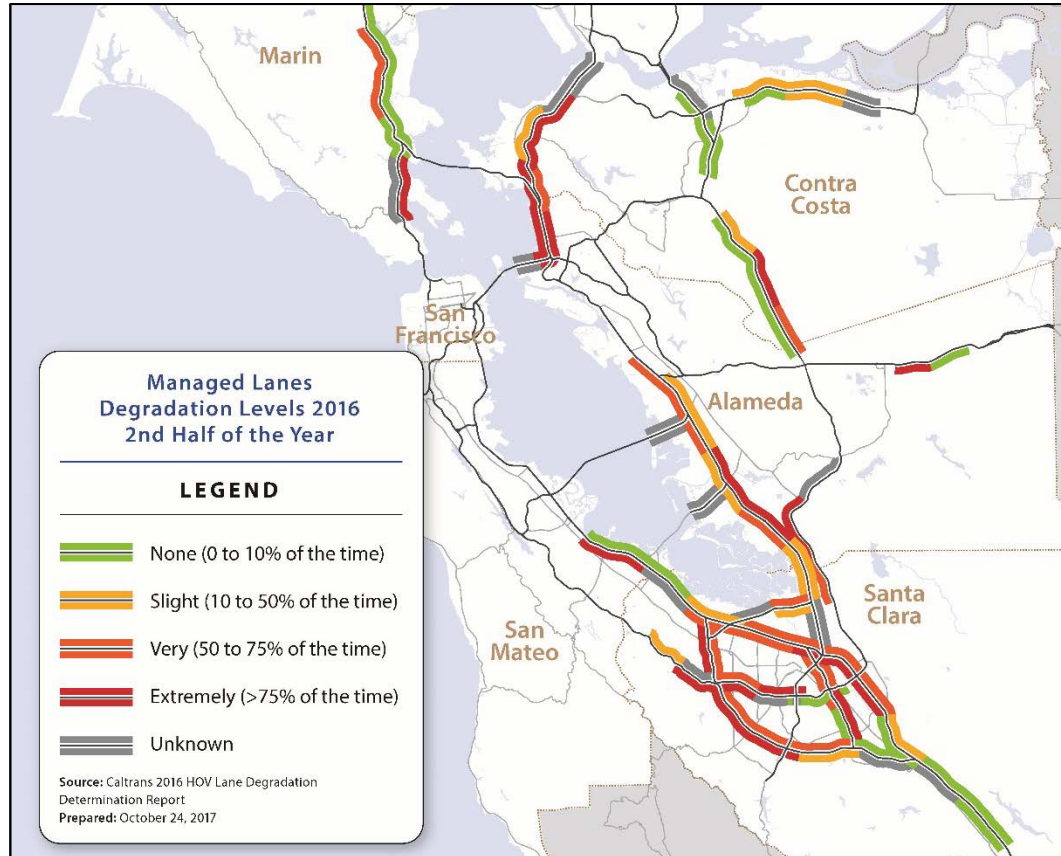
## Step 2: Toll Clean Air Vehicles



- HOV lanes had 6-8% CAVs in 2015
- 38% CAVs on SR-237 WB in 2017



# Consider Change to HOV3+ for “Ring Around the Bay” & Southern Bridges



## “Very” Degraded Express Lane Corridors

- Existing SR-237 Express Lane
- Existing I-880 HOV (Future I-880 Express Lane in 2019)
- Existing US 101 HOV (Future US-101 Express Lane in 2021+)

## Only 2/7 State-Owned Toll Bridges @ HOV2+

- Dumbarton Bridge
- San Mateo Bridge

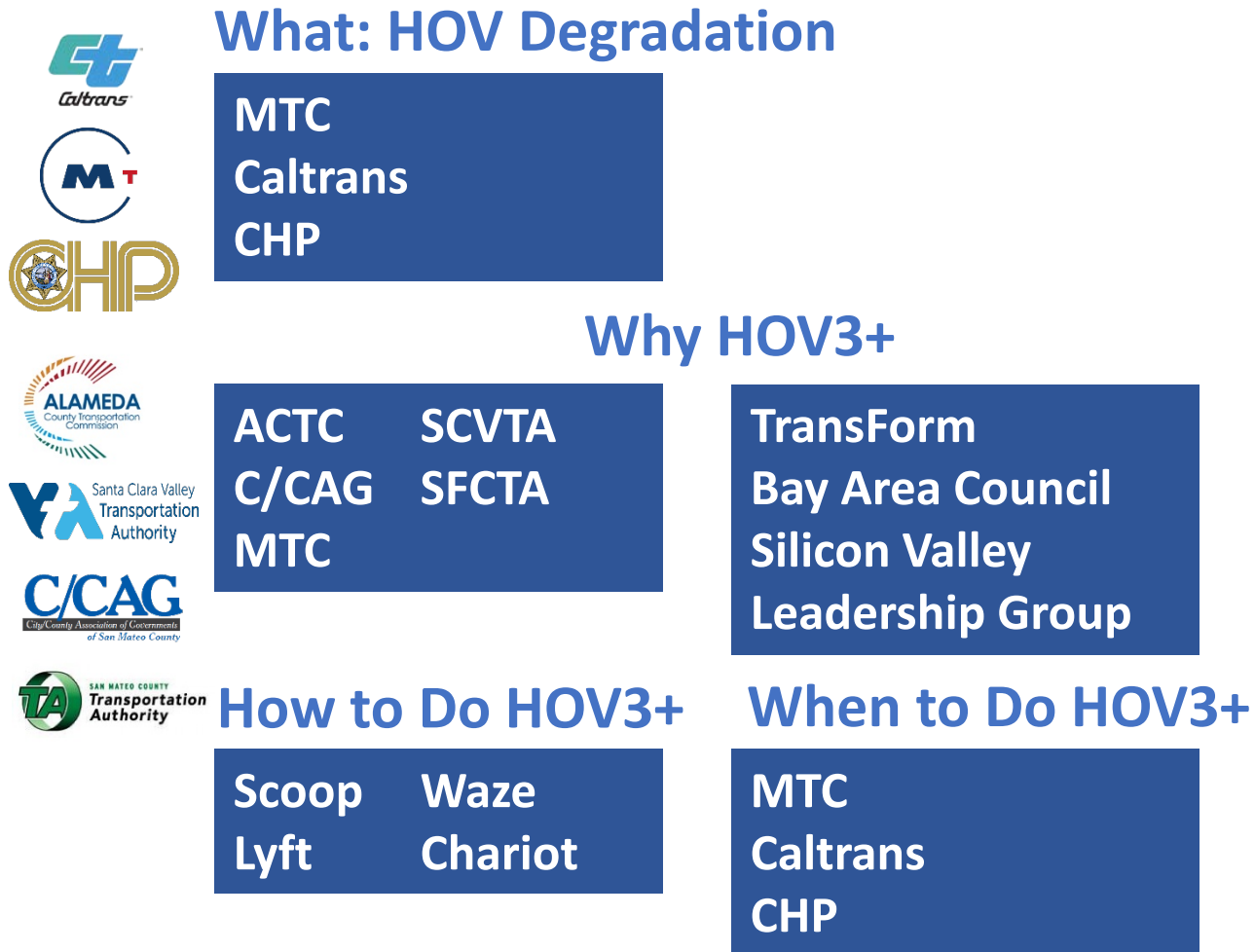
# HOV3+ for Express Lanes Outreach Plan

“Ring Around the Bay”: I-880, SR 237, US 101 + Southern Bridges





# MTC Commission Workshop



## Workshop Format

- × Panel Presentations
- × Facilitated Question & Answer
- × Commission Discussion
- × Next Steps