

# 2001

## District 4

# HOV REPORT



Volumes, occupancies and violation rates for freeway High Occupancy Vehicle Lanes in the San Francisco Bay Area

## February 2002



California Department of Transportation  
District 4 Oakland  
Office of Highway Operations



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# INTRODUCTION

**T**he ANNUAL HOVL REPORT is prepared by the Office of Highway Operations in District 4 of the California Department of Transportation (Caltrans). This report contains information concerning the High Occupancy Vehicle (HOV) lanes on the San Francisco Bay Area freeway system. Traffic performance data for calendar year 2001 for all mainline HOV lanes and HOV toll gates are provided, including volumes, vehicle occupancies, and violation rates. Data for this report is collected twice annually — once in the Spring and once in the Fall — when normal commute traffic patterns and conditions generally occur. Volumes and occupancy data for HOV bypass lanes at metered freeway on-ramps are not included in this annual report. However, general information on these ramps is included.

## Major changes in 2001:

- The westbound Route 92 HOV lane on the east approach to the San Mateo/ Hayward Bridge in Alameda County was extended easterly to Hesperian Boulevard in July 2001. Also, the HOV lane was shifted from the right side to the left side, in the median.
- The westbound Route 4 HOV lane in CC County was extended to Railroad Avenue on July 23, 2001. On August 6, 2001, a new eastbound HOV lane was opened on Route 4 in Contra Costa County between Port Chicago Highway interchange and west of Railroad Avenue.

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## ACKNOWLEDGMENTS

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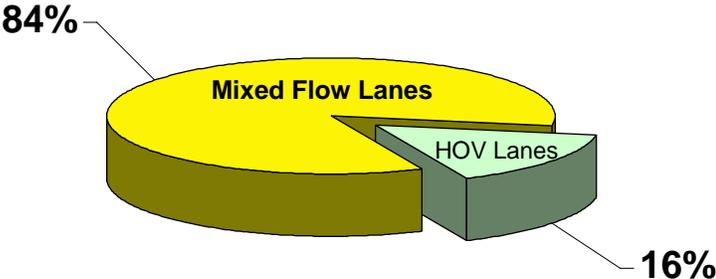
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# **HOV FACILITIES SUMMARIES**

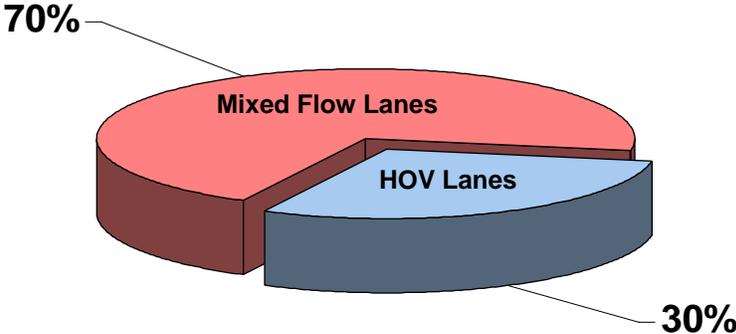
- **Comparison of HOV Lanes vs. Mixed Flow Lanes**
  - **Existing Mainline HOV Lanes**
  - **Metered On-Ramps with HOV Bypasses**
  - **Programmed HOV Lane Projects**
  - **Proposed (Not Programmed) HOV Lane Projects**
-

# COMPARISON OF HOV LANES VS. MIXED FLOW LANES (Peak-Hour)

## VEHICLES



## PEOPLE



**NOTE:** *Data shown is the relative proportion of vehicles or people in the mixed flow and carpool lanes averaged over all 76 count locations.*

# District 4

## EXISTING MAINLINE HOV LANES

Route	Dir	Limits	Lane-miles	Min. occ.	Period of operation *	
<b>ALA-80</b>	W/B	Bay Bridge Toll Plaza	2.9	3+	5-10 AM	3-7 PM
<b>ALA-80</b>	W/B	Contra Costa Co Line to Powell St	4.2	3+	5-10 AM	3-7 PM
	E/B	Powell St to Contra Costa Co Line	4.2	3+	5-10 AM	3-7 PM
<b>ALA-84</b>	W/B	East approach to Dumbarton Bridge	1.8	2+	5-10 AM	3-6 PM
<b>ALA-92</b>	W/B	Hesperian Blvd. To San Mateo Bridge Toll Plaza	3.0	2+	5-10 AM	3-6 PM
<b>ALA-880</b>	S/B	Marina Blvd to Mission Blvd	20.3	2+	5-9 AM	3-7 PM
	N/B	Mission Blvd to South of Rte 238 I/C	16.9	2+	5-9 AM	3-7 PM
<b>ALA-880</b>	N/B	16th Street to SFOBB Toll Plaza	1.2	3+	5-10 AM	3-7 PM
<b>CC-04</b>	W/B	West of Railroad Ave. to Port Chicago Hwy	7.0	2+	6-9 AM	
	E/B	Port Chicago Hwy to West of Railroad Ave.	7.5	2+	3-7 PM	
<b>CC-80</b>	W/B	Rte 4 to Alameda County Line	9.7	3+	5-10 AM	3-7 PM
	E/B	Alameda County Line to Rte 4	9.9	3+	5-10 AM	3-7 PM
<b>CC-680</b>	S/B	Livorna Rd to Alcosta Blvd	12.8	2+	6-9 AM	3-6 PM
	N/B	Alcosta Blvd to Livorna Rd	11.9	2+	6-9 AM	3-6 PM
<b>MRN-101</b>	S/B	Greenbrae ped o/c to Strawberry ped o/c	3.7	2+	6:30-8:30	AM
	N/B	S/O Richardson Bay Br to Corte Madera	3.5	2+	4:30-7:00	PM
<b>MRN-101</b>	S/B	Rte 37 to San Pedro Rd	6.1	2+	6:30-8:30	AM
	N/B	San Pedro Rd to Rte 37	6.1	2+	4:30-7:00	PM
<b>SCL-85</b>	S/B	Rte 101 (Mountain View) to Bernal Rd	23.3	2+	5-9 AM	3-7 PM
	N/B	Rte 101 (So. San Jose) to Rte 101 (Mt. View)	23.8	2+	5-9 AM	3-7 PM
<b>SCL-101</b>	S/B	San Mateo Co. Line to Bernal Rd	25.0	2+	5-9 AM	3-7 PM
	N/B	Bernal Rd to San Mateo Co. Line	24.2	2+	5-9 AM	3-7 PM
<b>SCL-237</b>	W/B	Rte 880 to Mathilda Ave	5.2	2+	5-9 AM	3-7 PM
	E/B	Mathilda Ave to one mile w/o Rte 880	5.1	2+	5-9 AM	3-7 PM
<b>SCL-280</b>	S/B	Magdalena Ave to Meridian Ave	11.2	2+	5-9 AM	3-7 PM
	N/B	Leland Ave to Magdalena Ave	10.7	2+	5-9 AM	3-7 PM
<b>SM-101</b>	S/B	Whipple Ave to Santa Clara Co. Line	6.6	2+	5-9 AM	3-7 PM
	N/B	Santa Clara Co. Line to Whipple Ave	6.6	2+	5-9 AM	3-7 PM
<b>SOL-80</b>	E/B	Carquinez Bridge Toll Plaza	0.1	3+	5-10 AM	3-7 PM

**TOTAL EXISTING LANE-MILES 274.5**

\* **NOTE:** All HOV lanes currently operate Monday thru Friday.

# District 4

## METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	Date opened	Notes
SCI-85	NB	NB Rte 101 connector	5-9am & 3-7pm	Yes	Aug 26, 1994	Monday - Friday
SCI-85	NB	Bernal Rd diag	24 hrs	Yes	Aug 26, 1994	
SCI-85	NB	Great Oaks Blvd diag	24 hrs	Yes	Aug 19, 1994	
SCI-85	NB	Cottle Rd diag	24 hrs	Yes	Aug 19, 1994	
SCI-85	NB	Blossom Hill Rd loop	24 hrs	Yes	Aug 19, 1994	
SCI-85	NB	Santa Teresa Blvd loop	24 hrs	Yes	Oct 19, 1994	
SCI-85	NB	Almaden Expwy (nb) loop	24 hrs	Yes	Mar 19, 1999	
SCI-85	NB	Bascom Ave diag	24 hrs	Yes	Oct 19, 1994	
SCI-85	NB	Winchester Blvd diag	24 hrs	Yes	Nov 14, 1994	
SCI-85	NB	Saratoga Ave diag	24 hrs	Yes	Oct 20, 1994	
SCI-85	SB	Almaden Expwy diag	24 hrs	Yes	Oct. 19, 1994	
SCI-85	SB	Bascom Ave diag	24 hrs	Yes	Oct 19, 1994	
SCI-85	SB	Camden Ave diag	24 hrs	Yes	Apr 4, 1995	
SCI-85	SB	Stevens Creek diag	24 hrs	Yes	Oct 19, 1994	
SCI-101	NB	Bernal Rd loop	24 hrs	Yes	Jun 10, 1996	
SCI-101	NB	Blossom Hill diag	24 hrs	Yes	Jun 23, 1992	
SCI-101	NB	Capitol Expwy diag	24 hrs	Yes	Jul 11, 1997	
SCI-101	NB	SB Rte 680 connector	6-9 am	No	Sep 2, 1982	Monday - Friday
SCI-101	NB	Guadalupe Pkwy connector	5-9 am	Yes	Feb 12, 1980	Monday - Friday
SCI-101	NB	Trimble Rd diag	24 hrs	Yes	Nov 1, 1991	
SCI-101	NB	Montague Expwy diag	24 hrs	Yes	Feb 12, 1980	
SCL-101	NB	Lawrence Expwy (nb) loop	24 hrs	Yes	Mar 8, 1999	
SCL-101	NB	Lawrence Expwy (sb)diag	24 hrs	Yes	Mar 8, 1999	
SCI-101	NB	San Tomas Expwy loop	6-9 am	No	Feb 12, 1980	Monday - Friday
SCI-237	EB	Lawrence Expwy diag	24 hrs	Yes	Aug. 14, 1998	
SCI-237	EB	Great America Pkwy diag	24 hrs	Yes	Sep 24, 1996	
SCI-237	EB	N. First Street diag	24 hrs	Yes	Sep 24, 1996	
SCI-237	EB	Zanker Rd diag	24 hrs	Yes	Sep 24, 1996	
SCI-280	NB	Wolfe Rd loop	6-9 am	Yes	Jun 8, 1976	Monday - Friday
SCI-280	SB	Wolfe Rd loop	24 hrs	Yes	Apr 27, 1993	
SCI-280	SB	Wolfe Rd diag	24 hrs	Yes	Apr 27, 1993	
SCI-280	SB	De Anza Blvd diag	24 hrs	Yes	Apr 27, 1993	
Ala-880	NB	Fremont Blvd loop	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Auto Mall Pkwy(Durham) loop	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Auto Mall Pkwy(Durham)diag	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Stevenson Blvd. diagonal	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	E/B Mowry Ave loop	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Thornton Ave loop	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Thornton Ave diagonal	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 20, 1999	

# District 4

## METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	Date opened	Notes
Ala-880	NB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 20, 1999	
Ala-880	NB	Industrial Parkway diagonal	24 hrs	Yes	Dec 3, 1996	
Ala-880	NB	Tennyson Rd diag	24 hrs	Yes	Dec 3, 1996	
Ala-880	NB	West A-Street diag	24 hrs	Yes	Dec 3, 1996	
Ala-880	NB	Lewelling Blvd diagonal	24 hrs	Yes	Apr 28, 1999	
Ala-880	NB	98th Ave loop	24 hrs	Yes	Apr 28, 1999	
Ala-880	NB	E/B 23rd Ave. diag	24 hrs	Yes	Apr 28, 1999	
Ala-880	SB	Fremont Blvd. diag	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Fremont Blvd. loop	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Auto Mall Pkwy(Durham)Diag	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Auto Mall Pkwy(Durham)loop	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	W/B Mowry Ave loop	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Thornton Ave. diagonal	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Thornton Ave. loop	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Alvarado-Niles Rd loop	24 hrs	Yes	Oct 19, 1999	
Ala-880	SB	Whipple Rd diag	24 hrs	Yes	Oct 29, 1996	
Ala-880	SB	Tennyson Rd diag	24 hrs	Yes	Oct 29, 1996	
Ala-880	SB	Winton Ave diag	24 hrs	Yes	Oct 29, 1996	
Ala-880	SB	West A-Street diag	24 hrs	Yes	Oct 29, 1996	
Ala-880	SB	E/B Davis St(Route 112) diag	24 hrs	Yes	Apr 27, 1999	
Ala-880	SB	W/B Davis St(Route 112)loop	24 hrs	Yes	Apr 27, 1999	
Ala-880	SB	98th Ave diagonal	24 hrs	Yes	Apr 27, 1999	
Ala-880	SB	Hegenberger diagonal	24 hrs	Yes	Apr 27, 1999	
Ala-880	SB	Oak St. diagonal	24 hrs	Yes	Apr 27, 1999	

**NOTES**

- (a) *Minimum occupancy requirement for all HOV bypass lanes is two persons per vehicle.*
- (b) *Motorcycles are permitted.*
- (c) *Bypass lane restrictions are in effect 7 days a week unless noted otherwise.*

## NON-METERED HOV LANE ON-RAMP

Route	Dir	Ramp	Hours	HOVL metered?	Date opened	Notes
SF-80	EB	Sterling St on-ramp to SFOBB	3:30-7:00 PM	No	Aug 30, 1982	

**NOTES**

- (a) *Minimum occupancy requirement is 3 or more persons per vehicle.*
- (b) *2 - seater vehicles with 2 persons, and motorcycles are permitted.*

# District 4

## HOV LANES UNDER CONSTRUCTION

Est. Opening	Route	Limits	Lane-miles	Min. Occ.
Summer 2003	SB SCL-87	Rte 101 I/C to Julian Street	2.8	2+
Summer 2003	NB SCL-87	Julian Street to Rte 101 I/C	2.8	2+
Summer 2003	NB SCL-101	Cochrane Road to Bernal Road	9.8	2+
Summer 2003	SB SCL-101	Bernal Road to Cochrane Road	9.8	2+
Fall 2002	SB ALA/SCL-680	Between Rte 84 to Rte 237 (Phase 2)	14.0	2+
Summer 2003	NB SON-101	Wilfred Avenue to Rte 12	5.0	2+
Summer 2003	SB SON-101	Rte 12 to Wilfred Avenue	5.0	2+

**TOTAL LANE-MILES UNDER CONSTRUCTION      49.2**

## District 4 PROGRAMMED HOVL PROJECTS (From 2000 UPDATED STIP)

County Route	EA	Location	Construct year	Cost (Prog. year)	Lane miles
ALA-80	254800	SFOBB Toll Plaza to Powell St.-EB	2003	\$3,420,000	1.1
ALA/SCL-680	253721	Rte 84 to Rte 237-SB (Phase 3)	2003	\$27,200,000	14.0
ALA/SCL-680	28600K	Rte 84 to Rte 237-NB	2004	\$42,300,000	14.0
ALA/SCL-880	233220	Mission to Route 237	2003	\$32,900,000	4.4
CC-80	263700	Rte 4 to Carquinez Bridge.- WB	2004	\$6,500,000	2.7
CC-680	228561	N. Main St to Marina Vista	2002	\$31,600,000	17.4
MRN-101	226121	Corte Madera Cr. to 580/101 Separation	2003	\$11,700,000	1.3
MRN-101	226131	Greenbrae POC to Corte Madera Cr.	2004	\$7,400,000	0.1
MRN-101	226141	Coleman School POC to N. San Pedro Rd	2004	\$40,000,000	1.6
MRN-101	226151	580/101 Separation to San Rafael Viaduct	2005	\$28,300,000	1.6
MRN/SON-101	264001	Rte 101 Novato Narrows Freeway Upgrade	-	\$5,000,000*	33.7
SON-101	129650	Rohnert Park Expwy. to Santa Rosa Ave.	2003	\$8,400,000	3.2
SON-101	263900	Steel Lane to Bicentennial Way	2004	\$9,900,000	1.2
SON-101	245400	Rte 12 to Steele Lane	2004	\$61,600,000	4.2

**TOTAL**      **\$311,220,000**      **100.5**

\* In planning phase, this cost is for Environmental documents only. Construction cost not available at this time.

## PROGRAMMED HOVL PROJECTS (Locally Funded)

County Route	EA	Location	Construct year	Cost (Prog. year)	Lane miles
SCL-85/101	438800	Rte 85 and 101 Connectors (Mountain View)	2002	\$25,000,000	1.4
SCL-85/101	438300	Rte 85 and 101 Connectors (San Jose)	2002	\$36,000,000	0.5
SCL-237/880	439700	Rte 237 and 880 Connectors	2002	\$25,000,000	0.3

**TOTAL**      **\$86,000,000**      **2.2**

# District 4 PROPOSED HOVL PROJECTS

County Route	EA	Location	Post-Mile	Cost (Prog. year)	Lane miles
ALA-580	29080K	Tassajara Rd to Vasco Rd (EB, WB)	9.6/17.9	\$60,500,000	16.6
SCL-87	43960K	Julian St. to Rte 280 I/C (NB, SB)	6.3/9.3	\$33,000,000	2.4
SCL-87	43960K	Rte 280 I/C to Santa Teresa Bl. (NB,SB)	0.5/6.3	\$27,000,000	9.8
SON-101	OA100K	Steel Lane to Windsor River	21.7/29.3	\$85,800,000	15.2
SON-101	OA180K	Old Redwood Hwy to Rohnert Park Expwy	7.5/13.9	\$45,400,000	12.8

<b>TOTAL</b>	<b>\$251,700,000</b>	<b>56.8</b>
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## **2001 DATA SUMMARIES**

- **HOV Lane Peak Hour Volumes**
  - **HOV & Non-HOV Lane Peak Hour Comparisons**
  - **HOV Lane Peak Period Violation Rates**
  - **HOV Lane Peak Hour Time Savings**
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# HOV LANE PEAK HOUR VOLUMES

			A.M.	P.M.
			Peak Hr (veh)	Peak Hr (veh)
<b>ALA-80</b>	WB	Bay Bridge Toll Plaza	3975	984
<b>ALA-80</b>	WB	Contra Costa County Line to Powell St	1555	374
	EB	Powell St to Contra Costa County Line	169	1080
<b>ALA-84</b>	WB	Dumbarton Bridge Toll Plaza	1354	334
<b>ALA-92</b>	WB	San Mateo Bridge Toll Plaza	746	378
<b>ALA-880</b>	SB	Marina Blvd to Whipple Road	1291	996
		Whipple Road to Mission Blvd.	1133	697
	NB	Mission Blvd to Whipple Road	332	1136
		Whipple Road to South of Rte 238 I/C	745	1338
<b>ALA-880</b>	NB	16th St to SFOBB Toll Plaza	963	121
<b>CC-04</b>	WB	West of Railroad Ave. to Port Chicago Hwy	617	—
	EB	Port Chicago Hwy to West of Railroad Ave.	—	691
<b>CC-80</b>	WB	Route 4 to Alameda County Line	1317	325
	EB	Alameda County Line to Route 4	143	1322
<b>CC-680</b>	SB	Livorna Rd. to Alcosta Blvd.	826	762
	NB	Alcosta Blvd. to Livorna Rd.	756	1383
<b>MRN-101</b>	SB	Rte 37 to N. San Pedro Rd	1361	—
		Greenbrae I/C to Richardson Bay Bridge	769	—
	NB	Richardson Bay Bridge to Greenbrae I/C	—	682
		N. San Pedro Rd to Rte 37	—	797
<b>SCL-85</b>	SB	Rte 101 (Mountain View) to Rte 280	267	1096
		Rte 280 to Almaden Expwy	187	1068
		Almaden Expwy to Rte 101 (So. San Jose)	239	849
	NB	Rte 101 (So. San Jose) to Almaden Expwy	517	329
		Almaden Expwy to Rte 280	1409	381
		Rte 280 to Rte 101 (Mountain View)	921	398
<b>SCL-101</b>	SB	San Mateo Co. Line to Ellis St	1022	856
		Ellis St to Guadalupe Pkwy	271	1331
		Guadalupe Pkwy to 101/280/680 I/C	114	1013
		101/280/680 I/C to Bernal Rd	265	603
	NB	Bernal Rd to 101/280/680 I/C	993	383
		101/280/680 I/C to Guadalupe Pkwy	1594	513
		Guadalupe Pkwy to Ellis St	638	636
		Ellis St to San Mateo Co. Line	852	1064
<b>SCL-237</b>	WB	Rte 880 to Mathilda Ave	776	473
	EB	Mathilda Ave to Rte 880	363	560
<b>SCL-280</b>	SB	Magdalena Ave to Leland Ave	267	860
	NB	Leland Ave to Magdalena Ave	578	477
<b>SM-101</b>	SB	Whipple Ave to Santa Clara Co. Line	711	766
	NB	Santa Clara Co. Line to Whipple Ave	693	722
<b>SOL-80</b>	EB	Carquinez Bridge Toll Plaza	218	963

# 2001 PEAK HOUR HOV & non-HOV LANE COMPARISONS

			% of all Vehicles		% of all Persons				
			in HOVL	in Non-HOVL	in HOVL	in Non-HOVL	Number of Non-HOV Lanes	in Non-HOVL (Avg per Lane)	
<b>ALA-80</b>	WB	Bay Bridge Toll Plaza	AM	* 43%	** 57%	* 70%	** 30%	18	2%
			PM	* 13%	** 87%	* 33%	** 67%	18	4%
<b>SOL-80</b>	EB	Carquinez Bridge	AM	8%	92%	21%	79%	11	7%
			PM	20%	80%	45%	55%	11	5%
<b>ALA-84</b>	WB	Dumbarton Bridge Toll Plaza	AM	32%	68%	51%	49%	3	24%
			PM	20%	80%	37%	63%	3	32%
<b>ALA-92</b>	WB	San Mateo Bridge Toll Plaza	AM	18%	82%	32%	68%	3	34%
			PM	15%	85%	31%	69%	3	34%
<b>ALA-80</b>	WB	Contra Costa County Line to Powell Street	AM	17%	83%	35%	65%	4	16%
			PM	6%	94%	11%	89%	4	22%
	EB	Powell Street to Contra Costa County Line	AM	2%	98%	7%	93%	4	23%
			PM	14%	86%	30%	70%	4	17%
<b>ALA-880</b>	SB	Marina Blvd to Whipple Rd	AM	21%	79%	33%	67%	3	22%
			PM	16%	84%	26%	74%	3	25%
		Whipple Rd to Mission Blvd	AM	19%	81%	33%	67%	3	22%
			PM	16%	84%	25%	75%	3	25%
	NB	Mission Blvd to Whipple Rd	AM	9%	79%	18%	100%	3	10%
			PM	18%	66%	32%	100%	3	22%
		Whipple Rd to South of Rte 238 I/C	AM	17%	83%	33%	67%	3	22%
			PM	21%	79%	37%	65%	3	22%
<b>ALA-880</b>	NB	16th Street to SFOBB	AM	42%	58%	67%	33%	2	17%
			PM	7%	93%	13%	87%	2	44%
<b>CC-04</b>	WB	West of Railroad Ave. to Port Chicago Hwy	AM	11%	89%	18%	82%	2	41%
			EB	Port Chicago Hwy to West of Railroad Avenue	PM	16%	84%	28%	72%
<b>CC-80</b>	EB	Alameda County Line to Route 4	AM	4%	96%	10%	90%	3	30%
			PM	21%	79%	43%	57%	3	19%
	WB	Route 4 to Alameda County Line	AM	19%	81%	44%	56%	3	19%
			PM	7%	93%	19%	81%	3	27%
<b>CC-680</b>	SB	Livorna Rd to Alcosta Blvd	AM	13%	87%	25%	75%	3	25%
			PM	14%	86%	27%	73%	3	24%
	NB	Alcosta Blvd to Livorna Rd	AM	10%	90%	24%	76%	3	25%
			PM	22%	78%	36%	64%	3	21%
<b>MRN-101</b>	SB	Rte 37 to N. San Pedro Rd Greenbrae I/C to Richardson Bay Brdg	AM	25%	75%	43%	57%	3	19%
			AM	14%	86%	34%	66%	3	22%
	NB	Richardson Bay Brdg to Greenbrae I/C N. San Pedro Rd to Rte 37	PM	13%	87%	34%	66%	3	22%
			PM	11%	89%	27%	73%	3	24%
<b>SM-101</b>	SB	Whipple Ave to Santa Clara Co. Line	AM	12%	88%	23%	77%	3	26%
			PM	13%	87%	19%	81%	3	27%
	NB	Santa Clara Co. Line to Whipple Ave	AM	13%	87%	24%	76%	3	25%
			PM	13%	87%	21%	79%	3	26%
<b>SCL-85</b>	SB	Rte 101 (Mtn View) to Rte 280	AM	8%	92%	14%	86%	2	43%
			PM	26%	74%	41%	59%	2	30%
		Rte 280 to Almaden Expwy	AM	5%	95%	9%	91%	2	45%
			PM	21%	79%	34%	66%	2	33%
		Almaden Expwy to Rte 101 (So. San Jose)	AM	7%	93%	13%	87%	2	43%
			PM	20%	80%	33%	67%	2	34%
	NB	Rte 101 (So. San Jose) to Almaden Expwy	AM	15%	85%	26%	74%	2	37%
			PM	8%	92%	12%	88%	2	44%
		Almaden Expwy to Rte 280	AM	27%	73%	43%	57%	2	28%
			PM	9%	91%	15%	85%	2	42%
		Rte 280 to Rte 101 (Mtn View)	AM	18%	82%	31%	69%	2	34%
			PM	12%	88%	20%	80%	2	40%
<b>SCL-101</b>	SB	San Mateo Co. Line to Ellis St	AM	17%	83%	31%	69%	3	23%
			PM	15%	85%	28%	72%	3	24%
		Ellis St to Guadalupe Pkwy	AM	6%	94%	13%	87%	3	29%
			PM	23%	77%	36%	64%	3	21%
		Guadalupe Pkwy to 101/280/680 I/C	AM	5%	95%	8%	92%	3	31%
			PM	18%	82%	30%	70%	3	23%
	NB	101/280/680 I/C to Bernal Rd	AM	7%	93%	14%	86%	3	29%
			PM	13%	87%	21%	79%	3	26%
		Bernal Rd to 101/280/680 I/C	AM	20%	80%	33%	67%	3	22%
			PM	10%	90%	19%	81%	3	27%
		101/280/680 I/C to Guadalupe Pkwy	AM	23%	77%	38%	62%	3	21%
			PM	11%	89%	20%	80%	3	27%
Guadalupe Pkwy to Ellis St	AM	12%	88%	20%	80%	3	27%		
	PM	14%	86%	26%	74%	3	25%		
Ellis St to San Mateo Co. Line	AM	15%	85%	26%	74%	3	25%		
	PM	17%	83%	29%	71%	3	24%		
<b>SCL-237</b>	WB	Rte 880 to Mathilda Ave	AM	17%	83%	31%	69%	2	35%
			PM	12%	88%	22%	78%	2	39%
	EB	Mathilda Ave to Rte 880	AM	9%	91%	18%	82%	2	41%
			PM	16%	84%	28%	72%	2	36%
<b>SCL-280</b>	SB	Magdalena Ave to Leland Ave	AM	6%	94%	12%	88%	3	29%
			PM	15%	85%	27%	73%	3	24%
	NB	Leland Ave to Magdalena Ave	AM	10%	90%	18%	82%	3	27%
			PM	11%	89%	19%	81%	3	27%

\* Total in all 4 HOVL's combined.

\*\* Total in all 18 Non HOVL's combined.

## HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

			A.M.	P.M.
<b>ALA-80</b>	WB	Bay Bridge Toll Plaza	10.0%	9.8%
<b>ALA-80</b>	WB	Contra Costa County Line to Powell St	13.8%	24.4%
	EB	Powell St to Contra Costa County Line	21.5%	6.5%
<b>ALA-84</b>	WB	Dumbarton Bridge Toll Plaza	3.1%	2.2%
<b>ALA-92</b>	WB	San Mateo Bridge Toll Plaza	8.1%	5.4%
<b>ALA-880</b>	SB	Marina Blvd to Whipple Road	5.2%	3.9%
		Whipple Road to Mission Blvd.	4.8%	3.8%
	NB	Mission Blvd to Whipple Road	9.7%	3.9%
		Whipple Road to South of Rte 238 I/C	5.2%	4.8%
<b>ALA-880</b>	NB	16th St to SFOBB Toll Plaza	15.5%	14.6%
<b>CC-04</b>	WB	West of Railroad Ave. to Port Chicago Hwy.	7.0%	—
	EB	Port Chicago Hwy to West of Railroad Ave.	—	4.0%
<b>CC-80</b>	WB	Rte 4 to Alameda County Line	8.7%	24.2%
	EB	Alameda County Line to Rte 4	18.3%	4.4%
<b>CC-680</b>	SB	Livorna Rd. to Alcosta Blvd.	5.3%	8.5%
	NB	Alcosta Blvd. to Livorna Rd.	3.0%	5.0%
<b>MRN-101</b>	SB	Rte 37 to N. San Pedro Rd	1.4%	—
		Greenbrae I/C to Richardson Bay Bridge	2.3%	—
	NB	Richardson Bay Bridge to Greenbrae I/C	—	3.9%
		N. San Pedro Rd to Rte 37	—	1.1%
<b>SCL-85</b>	SB	Rte 101 (Mountain View) to Rte 280	4.1%	6.4%
		Rte 280 to Almaden Expwy	5.9%	0.5%
		Almaden Expwy to Rte 101 (So. San Jose)	1.7%	0.2%
	NB	Rte 101 (So. San Jose) to Almaden Expwy	7.3%	8.6%
		Almaden Expwy to Rte 280	6.4%	8.9%
		Rte 280 to Rte 101 (Mountain View)	1.8%	0.4%
<b>SCL-101</b>	SB	San Mateo Co. Line to Ellis St	0.8%	4.4%
		Ellis St to Guadalupe Pkwy	2.1%	3.1%
		Guadalupe Pkwy to 101/280/680 I/C	3.0%	2.6%
		101/280/680 I/C to Bernal Rd	5.4%	0.8%
	NB	Bernal Rd to 101/280/680 I/C	3.5%	5.4%
		101/280/680 I/C to Guadalupe Pkwy	2.9%	5.0%
		Guadalupe Pkwy to Ellis St	0.8%	2.4%
		Ellis St to San Mateo Co. Line	6.0%	3.2%
<b>SCL-237</b>	WB	Rte 880 to Mathilda Ave	5.3%	3.1%
	EB	Mathilda Ave to one mile w/o Rte 880	15.0%	2.1%
<b>SCL-280</b>	SB	Magdalena Ave to Leland Ave	2.7%	1.0%
	NB	Leland Ave to Magdalena Ave	1.6%	0.9%
<b>SM-101</b>	SB	Whipple Ave to Santa Clara Co. Line	2.2%	7.0%
	NB	Santa Clara Co. Line to Whipple Ave	2.1%	0.2%
<b>SOL-80</b>	EB	Carquinez Bridge Toll Plaza	24.5%	1.2%

## 2001 HOV LANE PEAK HOUR AVERAGE SPEEDS AND TRAVEL TIMES

			Travel Time	Travel Time	HOVL	Avg. Speed	Avg. Speed	
			(minutes)	(minutes)	Time Saving	(mph)	(mph)	
			Non-HOVL	HOVL	(minutes)	Non-HOVL	HOVL	
<b>ALA-80</b>	WB	Bay Bridge Toll Plaza	AM 28	4	24	5	33	
			PM 6	2	4	22	65	
<b>ALA-80</b>	WB	Contra Costa County Line to Powell St	AM 10	6	4	26	43	
			PM 9	4	5	29	65	
	EB	Powell St to Contra Costa County Line	AM 5	5	0	65	65	
			PM 14	5	9	23	65	
<b>ALA-84</b>	WB	Dumbarton Bridge Toll Plaza	AM 21	2	19	6	65	
			PM 3	2	1	44	65	
<b>ALA-92</b>	WB	San Mateo Bridge Toll Plaza	AM 13	3	10	15	65	
			PM 4	3	1	49	65	
<b>ALA-880</b>	SB	Manna Blvd. to Whipple Road	AM 20	8	12	26	65	
			PM 10	8	2	52	65	
		Whipple Road to Mission Blvd	AM 51	11	40	14	65	
		PM 12	11	1	60	65		
	NB	Mission Blvd. to Whipple Road	AM 15	10	5	43	65	
			PM 25	10	15	26	65	
		Whipple Road to South of Rte 238 I/C	AM 11	11	0	65	65	
			PM 12	11	1	60	65	
<b>ALA-880</b>	NB	16th St to SFOBB Toll Plaza	AM 34	3	31	4	44	
			PM 3	2	1	44	65	
<b>CC-04</b>	WB	West of Railroad to Port Chicago Hwy	AM 6	6	0	65	65	
			PM 9	7	2	43	65	
<b>CC-80</b>	WB	Rte 4 to Alameda County Line	AM 25	12	13	29	60	
			PM 11	11	0	65	65	
	EB	Alameda County Line to Rte 4	AM 10	10	0	65	65	
			PM 18	10	8	36	65	
<b>CC-680</b>	SB	Livorna Rd to Alcosta Blvd	AM 20	12	8	39	65	
			PM 12	12	0	65	65	
	NB	Alcosta Blvd to Livorna Rd	AM 14	11	3	51	65	
			PM 18	11	7	40	65	
<b>MRN-101</b>	SB	Rte 37 to N. San Pedro Rd	AM 25	12	13	13	27	
			AM 5	4	1	52	65	
	NB	Richardson Bay Brdg to Greenbrae I/C	PM 11	8	3	24	33	
			PM 5	5	0	65	65	
<b>SCL-85</b>	SB	Rte 101 (Mtn View) to Rte 280	AM 5	5	0	65	65	
			PM 16	5	11	20	65	
		Rte 280 to Almaden Expwy	AM 11	11	0	65	65	
			PM 26	11	15	28	65	
		Almaden Expwy to Rte 101 (So. San Jose)	AM 7	5	2	46	65	
			PM 7	5	2	46	65	
	NB	Rte 101 (So. San Jose) to Almaden Expwy	AM 16	6	10	24	65	
			PM 7	6	1	56	65	
		Almaden Expwy to Rte 280	AM 29	13	16	27	60	
			PM 13	12	1	60	65	
		Rte 280 to Rte 101 (Mtn View)	AM 17	5	12	19	65	
			PM 5	5	0	65	65	
<b>SCL-101</b>	SB	San Mateo Co. Line to Ellis St	AM 11	5	6	30	65	
			PM 14	5	9	23	65	
			AM 7	6	1	56	65	
			Ellis St to Guadalupe Pkwy	PM 15	14	1	26	28
				AM 5	5	0	65	65
				PM 23	11	12	14	30
			Guadalupe Pkwy to 101/280/680 I/C	AM 8	7	1	57	65
				PM 12	7	5	38	65
				AM 9	8	1	58	65
		NB	Bernal Rd to 101/280/680 I/C	PM 9	8	1	58	65
				AM 9	8	1	58	65
				PM 22	9	13	15	36
		101/280/680 I/C to Guadalupe Pkwy	AM 5	5	0	65	65	
			PM 9	6	3	43	65	
			PM 10	6	4	39	65	
		Guadalupe Pkwy to Ellis St	AM 7	5	2	46	65	
			PM 10	5	5	32	65	
<b>SCL-237</b>	WB	Rte 880 to Mathilda Ave	AM 12	7	5	38	65	
			PM 10	7	3	46	65	
	EB	Mathilda Ave to Rte 880	AM 10	6	4	39	65	
			PM 15	12	3	26	33	
<b>SCL-280</b>	SB	Magdalena Ave to Leland Ave	AM 11	10	1	59	65	
			PM 16	10	6	41	65	
	NB	Leland Ave to Magdalena Ave	AM 18	10	8	36	65	
			PM 13	10	3	50	65	
<b>SM-101</b>	SB	Whipple Ave to Santa Clara Co. Line	AM 16	7	9	28	65	
			PM 9	7	2	51	65	
	NB	Santa Clara Co. Line to Whipple Ave	AM 10	6	4	39	65	
			PM 15	6	9	26	65	
<b>SOL-80</b>	EB	Carquinez Bridge Toll Plaza	AM 1	1	0	65	65	
			PM 1	1	0	65	65	

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# **GENERAL FACILITY INFORMATION**

- **Mainline HOV Lanes**
  - **Toll Bridge HOV Bypass Lanes**
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# District 4 MAINLINE HOV LANES

## ALA-80: San Francisco-Oakland Bay Bridge Toll Plaza

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, 2-seat vehicles with 2 persons																													
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday																												
	LIMITS:	<table border="0"> <tr> <td style="padding-right: 20px;">Lane 1:</td> <td>Route 880 left side HOV ramp to metering signals Length = 0.4 mile</td> </tr> <tr> <td>Lane 2:</td> <td>Route 580 connector to metering signals Length = 1.1 miles</td> </tr> <tr> <td>Lane 21:</td> <td>Route 880 right side HOV ramp to metering signals Length = 0.6 mile</td> </tr> <tr> <td>Lane 22:</td> <td>HOV slip ramp to metering signals Length = 0.8 miles</td> </tr> </table>	Lane 1:	Route 880 left side HOV ramp to metering signals Length = 0.4 mile	Lane 2:	Route 580 connector to metering signals Length = 1.1 miles	Lane 21:	Route 880 right side HOV ramp to metering signals Length = 0.6 mile	Lane 22:	HOV slip ramp to metering signals Length = 0.8 miles																				
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	DATES:	<table border="0"> <tr> <td style="padding-right: 20px;">Apr 17, 1970</td> <td>Opened; Buses only</td> </tr> <tr> <td>Dec 8, 1971</td> <td>Carpools permitted; min. occ. three persons per vehicle</td> </tr> <tr> <td>Feb 2, 1979</td> <td>Buses only in lane 17; 6:30-8:30, Mon-Fri-only lane on W. Grand Ave, approached from Maritime on-ramp to toll plaza; temporary measure in response to BART tube closure</td> </tr> <tr> <td>Apr 17, 1979</td> <td>Bus-only in lane 17 &amp; W. Grand Ave approach made permanent; W. Grand Ave slip ramp designated for buses only; hours of operation changed to 6:00-9:00 AM, Mon-Fri; lane 8 reverted to mixed flow; carpools permitted to use lane 10 during AM peak</td> </tr> <tr> <td>Oct 12, 1981</td> <td>Opened; lanes 18 &amp; 19; buses only, 24 hours/day, 7 days/week; carpools permitted, 6:00-9:00 AM, Mon-Fri; lane 17 reverted to mixed flow</td> </tr> <tr> <td>Jul 18, 1983</td> <td>Lanes 8 &amp; 9 reverted to mixed flow; lane 1 converted to HOV; lanes 18/19 merge moved from downstream of toll plaza to downstream of metering signals</td> </tr> <tr> <td>Apr 22, 1986</td> <td>Mini toll plaza (lane 18, 19, 20) opened; right side HOV lanes designated as lanes 21 &amp; 22</td> </tr> <tr> <td>Nov 3, 1989</td> <td>Lane 2 converted to HOV; left HOVL extended upstream to 32nd St on-ramp; AM HOV hours changed to 5:00- 10:00 AM, Mon-Fri</td> </tr> <tr> <td>Mar 1, 1992</td> <td>Motorcycles permitted</td> </tr> <tr> <td>Oct 1, 1995</td> <td>Two-seat vehicles with two occupants permitted</td> </tr> <tr> <td>Apr 8, 1997</td> <td>HOV slip ramp approaching right side of toll plaza opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM, 3:00-6:00 PM, Mon-Fri</td> </tr> <tr> <td>Jul 23, 1997</td> <td>Route 880 right side HOV ramp opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM; 3:00-6:00 PM, Mon-Fri</td> </tr> <tr> <td>Feb. 2, 1998</td> <td>PM Hours of operation changed to 3:00-7:00 PM</td> </tr> <tr> <td>May 16, 1998</td> <td>Route 880 left side HOV ramp opened; buses/carpools/ motorcycles only, 5:00-10:00 AM, 3:00-7:00 PM, Mon-Fri</td> </tr> </table>	Apr 17, 1970	Opened; Buses only	Dec 8, 1971	Carpools permitted; min. occ. three persons per vehicle	Feb 2, 1979	Buses only in lane 17; 6:30-8:30, Mon-Fri-only lane on W. Grand Ave, approached from Maritime on-ramp to toll plaza; temporary measure in response to BART tube closure	Apr 17, 1979	Bus-only in lane 17 & W. Grand Ave approach made permanent; W. Grand Ave slip ramp designated for buses only; hours of operation changed to 6:00-9:00 AM, Mon-Fri; lane 8 reverted to mixed flow; carpools permitted to use lane 10 during AM peak	Oct 12, 1981	Opened; lanes 18 & 19; buses only, 24 hours/day, 7 days/week; carpools permitted, 6:00-9:00 AM, Mon-Fri; lane 17 reverted to mixed flow	Jul 18, 1983	Lanes 8 & 9 reverted to mixed flow; lane 1 converted to HOV; lanes 18/19 merge moved from downstream of toll plaza to downstream of metering signals	Apr 22, 1986	Mini toll plaza (lane 18, 19, 20) opened; right side HOV lanes designated as lanes 21 & 22	Nov 3, 1989	Lane 2 converted to HOV; left HOVL extended upstream to 32nd St on-ramp; AM HOV hours changed to 5:00- 10:00 AM, Mon-Fri	Mar 1, 1992	Motorcycles permitted	Oct 1, 1995	Two-seat vehicles with two occupants permitted	Apr 8, 1997	HOV slip ramp approaching right side of toll plaza opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM, 3:00-6:00 PM, Mon-Fri	Jul 23, 1997	Route 880 right side HOV ramp opened; buses only, 24 hours/day, 7 days/week; carpools/motorcycles OK, 5:00-10:00 AM; 3:00-6:00 PM, Mon-Fri	Feb. 2, 1998	PM Hours of operation changed to 3:00-7:00 PM	May 16, 1998	Route 880 left side HOV ramp opened; buses/carpools/ motorcycles only, 5:00-10:00 AM, 3:00-7:00 PM, Mon-Fri
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## ALA-80: Contra Costa County Line to Powell St

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, 2-seat vehicles with 2 persons	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Contra Costa County Line (MP 8.0) to Powell St (MP 3.8) Length = 4.2 miles
	DATES:	Feb. 2, 1998    Opened; Contra Costa County Line to Powell St; HOV flyover opened; hours of operation 5:00 AM-7:00 PM, Monday thru Friday Aug 3, 1998    Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
EASTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Powell St (MP 3.8) to Contra Costa County Line (MP 8.0) Length = 4.2 miles
	DATES:	Jul 31, 1998    Opened; Gilman St to Contra Costa County Line Aug 3, 1998    Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri Nov 20, 1998    Extended; Powell St to Gilman St

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## ALA-84: Dumbarton Bridge Toll Plaza

OCCUPANCY	Two or more persons per vehicle, motorcycles permitted	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS:	Newark Blvd U/C (MP 4.9) to west of Toll Plaza (MP 3.1) Length = 1.8 miles
	DATES:	Oct 6, 1982    Opened with new bridge; 1000-ft long bypass lane at booths Nov 22, 1989    Extended due to Loma Prieta quake; Newark Blvd to University Ave Nov 17, 1990    Shortened; Newark Blvd to west of Toll Plaza Jan 1, 1992    Minimum occupancy reduced from three to two persons per vehicle
	NOTE:	HOV lane is located on the left side.

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## ALA-92: San Mateo Bridge Toll Plaza

OCCUPANCY Two or more persons per vehicle, motorcycles permitted

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

LIMITS: Hesperian on-ramp (MP 5.6) to west of Toll Plaza (MP 2.5)  
Length = 3.0 miles

DATES: Oct 23, 1989 Opened; Clawiter Rd on-ramp to east of Toll Plaza  
Jan 1, 1992 Minimum occupancy reduced from three to two persons per vehicle  
Jan 15, 1992 Extended; Clawiter Rd on-ramp to west of Toll Plaza  
Jul 2, 2001 Extended and relocated; Hesperian Blvd. To West of Toll Plaza

NOTE: HOV lane is now located on the left side.

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## ALA 880: Marina Blvd to Mission Blvd (Rte 262)

OCCUPANCY Two or more persons per vehicle, motorcycles permitted

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Marina Blvd. (MP 22.7) to Mission Blvd. (Rte 262) (MP 2.4)  
Length = 20.3 miles

DATES: Sep 22, 1991 Opened; A-Street to north of Tennyson  
Nov 6, 1991 Extended; Tennyson to Industrial Pkwy  
Jun 26, 1992 Extended; Rte 238 to A-Street  
Nov 18, 1993 Extended; Industrial Pkwy to Whipple Rd  
Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to  
5-9 AM, 3-7 PM respectively  
Mar 17, 1995 Extended; Marina Blvd to Rte 238  
Jun 15, 1998 Extended; Whipple Rd. to Alvarado/ Fremont Blvd.  
Oct 23, 1998 Extended; Alvarado/Fremont Blvd. to Mowry Ave.  
Dec 11, 1998 Extended; Mowry Ave. to Mission Blvd. (Rte 262)

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Mission Blvd. (MP 2.4) to one mile south of Rte 238 (MP 19.3)  
Length = 23 miles

DATES: Sep 19, 1991 Opened; north of Tennyson to A-Street  
Nov 8, 1991 Extended; Industrial Pkwy to Tennyson  
Jun 26, 1992 Extended; A-Street to Rte 238  
Dec 3, 1993 Extended; Whipple Rd to Industrial Pkwy  
Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to  
5-9 AM, 3-7 PM respectively  
Sep 23, 1996 Shortened; Whipple Rd to one mile south of Rte 238  
Jun 15, 1998 Extended; Alvarado/Fremont Blvd. to Whipple Rd.  
Oct 30, 1998 Extended; Mowry Ave. to Alvarado/Fremont Blvd.  
Nov 30, 1998 Extended; Mission Blvd. (Rte 262) to Mowry Ave.

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**ALA-880: 16th Street to SFOBB Toll Plaza**

OCCUPANCY Three or more persons per vehicle, motorcycles permitted,  
2-seat vehicles with 2 persons

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 16th Street to SFOBB Toll Plaza  
Length = 1.2 miles

DATES: May 16, 1998 Opened; 16th Street to left HOV ramp at SFOBB Toll Plaza

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**CC-4: West of Railroad Ave. to Port Chicago Highway**

OCCUPANCY Two or more persons per vehicle, motorcycles permitted.

WESTBOUND HOURS: 6:00 - 9:00 AM, Monday thru Friday

LIMITS: West of Railroad Ave. (MP 22.6) to Port Chicago Highway (MPR16.2)  
Length = 7.0 miles

DATES: May 1, 2000 Opened; Bay Point to Port Chicago Highway; 6-9 AM, Mon-Fri  
May 5, 2000 Extended: Bailey Road to Port Chicago Highway  
Jul 23, 2001 Extended: West of Railroad Ave. to Port Chicago Highway

EASTBOUND HOURS: 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Port Chicago Highway (MPR 16.2) to West of Railroad Ave. (MPR22.5)  
Length = 7.5 miles

DATES: Aug 6, 2001 Opened; Port Chicago Highway to West of Railroad Ave.;  
3-7 PM. Mon-Fri.

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## CC-80 Route 4 to Alameda County Line

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, 2-seat vehicles with 2 persons.	
WESTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Route 4 (MP 9.67) to Alameda County Line (MP 0.0) Length = 9.7 miles
	DATES:	Mar 5, 1997      Opened; Pinole Valley Rd to Cutting Blvd; 5-10 AM, Mon-Fri Apr 18, 1997      2-seat vehicles with 2 persons permitted to use HOVL May 3, 1997      Extended: Cutting Blvd to Central Ave Sep 20, 1997      Extended; Route 4 to Pinole Valley Rd Feb 2, 1998      Extended; Central Ave to Alameda County Line; Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri Aug 3, 1998      Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri
EASTBOUND	HOURS:	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
	LIMITS:	Alameda County Line (MP 0.0) to West of Route 4 off-ramp (MP 9.9) Length = 9.9 miles
	DATES:	Feb 12, 1997      Opened; San Pablo Dam Rd to Pinole Valley Rd; 3-7 PM, Mon-Fri Feb 13, 1997      Extended; Cutting Blvd to San Pablo Dam Rd Apr 18, 1997      2-seat vehicles with 2 persons permitted to use HOVL May 3, 1997      Extended; Central Ave to Cutting Blvd Aug 30, 1997      Extended; Pinole Valley Rd to Route 4 Feb 2, 1998      Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri Aug 3, 1998      Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri Extended; Central Ave to Alameda County Line

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## CC-680: Livorna Rd to Alcosta Blvd.

NORTHBOUND	HOURS:	6:00 - 9:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS:	0.4 miles south of Alcosta on-ramp (MP R21.6) to Livorna on-ramp (MP R11.4) Length = 11.9 miles
	DATES:	Oct 3, 1994      Opened; Alcosta Blvd on-ramp to Stone Valley Rd on-ramp Feb 6, 1995      Extended; Alcosta Blvd to Livorna Rd on-ramp
SOUTHBOUND	HOURS:	6:00 - 9:00 AM, 3:00 - 6:00 PM, Monday thru Friday
	LIMITS:	0.5 miles north of Livorna Rd off-ramp (MP R11.9) to 0.6 miles south of Alcosta Blvd on-ramp (MP R21.6) Length = 12.9 miles
	DATES:	Oct 3, 1994      Opened; Stone Valley Rd on-ramp to Alcosta Blvd on-ramp Feb 6, 1995      Extended; Livorna Rd on-ramp to Alcosta Blvd May 5, 1999      Shortened; Livorna Rd on-ramp to north of Alcosta Blvd off-ramp

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## MRN-101: Richardson Bay Bridge to Greenbrae I/C

OCCUPANCY	Two or more persons per vehicle, motorcycles permitted	
SOUTHBOUND	HOURS:	6:30 - 8:30 AM, Monday thru Friday
	LIMITS:	North of Greenbrae ped OC (MP 8.4) to south of Strawberry ped OC (MP 4.7) Length = 3.7 miles
	DATES:	Dec 23, 1974    Opened; buses only Jun 16, 1976    Carpools permitted; min. occ. three persons per vehicle Oct 1, 1988     Minimum occupancy reduced from three to two persons per vehicle Sep 23, 1990    Motorcycles permitted Jul 13, 1998    HOV hours extended to 5:00-9:00 AM Dec 14, 1998    Extended hours cancelled
NORTHBOUND	HOURS:	4:30 - 7:00 PM, Monday thru Friday
	LIMITS:	South of Richardson Bay Bridge (MP 4.0) to north of Corte Madera O/C (MP 7.5) Length = 3.5 miles
	DATES:	Dec 20, 1974    Opened; buses only Jun 15, 1976    Carpools permitted; min. occ. three persons per vehicle Oct 1, 1988     Minimum occupancy reduced from three to two persons per vehicle Sep 23, 1990    Motorcycles permitted Jul 13, 1998    HOV hours extended to 3:00-7:00 PM Dec 14, 1998    Extended hours cancelled

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## MRN-101: North San Pedro Rd to Rte 37

OCCUPANCY	Two or more persons per vehicle, motorcycles permitted	
SOUTHBOUND	HOURS:	6:30 - 8:30 AM, Monday thru Friday
	LIMITS:	Route 37/S. Novato Blvd (MP 18.9) to north of San Pedro U/C (MP 12.8) Length = 6.1 miles
	DATES:	Jul 24, 1987    Opened; Marinwood to North San Pedro Rd Oct 1, 1988     Minimum occupancy reduced from three to two persons per vehicle Sep 23, 1990    Motorcycles permitted Feb 8, 1991     Extended; Marinwood to Rte 37 Jul 13, 1998    HOV hours extended to 5:00-9:00 AM Dec 14, 1998    Extended hours cancelled
NORTHBOUND	HOURS:	4:30 - 7:00 PM, Monday thru Friday
	LIMITS:	North of San Pedro U/C (MP 12.8) to Route 37/S. Novato Blvd (MP 18.9) Length = 6.1 miles

DATES:	Aug 12, 1986	Opened; North San Pedro to Marinwood
	Oct 1, 1988	Minimum occupancy reduced from three to two persons per vehicle
	Sep 23, 1990	Motorcycles permitted
	Feb 21, 1991	Extended; Marinwood to Rte 37
	Jul 13, 1998	HOV hours extended to 3:00-7:00 PM
	Dec 14, 1998	Extended hours cancelled

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### **SCL-85: Rte 101 (Mountain View) to Rte 101(So. San Jose)**

OCCUPANCY Two or more persons per vehicle, motorcycles permitted

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 101 (MP 23.8) to Bernal Rd (MP 0.5)  
Length = 23.3 miles

DATES:	Apr 25, 1990	Opened; Rte 237 to Rte 280
	Aug 12, 1994	New section; Almaden Expwy to Bernal Rd
	Oct 19, 1994	Extended; Rte 280 to Almaden Expwy
	Nov 13, 1998	Extended; Rte 101 (Mountain View) to Rte 237

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 85/101 connector ramp in So. San Jose (MP 0.0) to  
Rte 101 in Mountain View (MP 23.8)  
Length = 23.8 miles

DATES:	Feb 22, 1990	Opened; Rte 280 to Rte 237
	Aug 12, 1994	New section; Rte 101 (So. San Jose) to Almaden Expwy
	Oct 19, 1994	Extended; Almaden Expwy to Rte 280
	Nov 6, 1998	Extended; Rte 237 to Rte 101 (Mountain View)

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### **SCL-101: San Mateo County Line to Bernal Rd**

OCCUPANCY Two or more persons per vehicle, motorcycles permitted

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: San Mateo County Line (M 52.6) to 0.5 mile north of Bernal Rd  
off-ramp (MP 27.6)  
Length = 25.0 miles

DATES:	Nov 10, 1986	Opened; Lawrence Expwy to De La Cruz Blvd
	Aug 8, 1988	Extended; Ellis St to Lawrence Expwy
	Oct 10, 1988	Extended; N. Rengstorff Ave to Ellis St
	Dec 12, 1988	Extended; San Mateo Co. Line to N. Rengstorff Ave
	Jun 15, 1990	New section; Rte 101/280/680 I/C to north of Bernal Rd
	Jan 29, 1993	Extended; Rte 880 to Rte 101/280/680 I/C
	Apr 5, 1993	Extended; De La Cruz Blvd to Rte 880



NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday  
LIMITS: South of Leland Ave (MP L4.7) to Magdalena Ave off-ramp (MP 14.0)  
Length = 10.7 miles  
DATES: Nov 21, 1990 Opened; south of Leland Ave to Magdalena Ave

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### **SM-101: Whipple Ave to Santa Clara County Line**

OCCUPANCY Two or more persons per vehicle, motorcycles permitted

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday  
LIMITS: Whipple Ave (MP 6.6) to Santa Clara Co. Line (MP 0.0)  
Length = 6.6 miles  
DATES: Jul 18, 1991 Opened

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday  
LIMITS: Santa Clara Co. Line (MP 0.0) to Whipple Ave (MP 6.6)  
Length = 6.6 miles  
DATES: Jul 16, 1991 Opened

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### **SOL-80: Carquinez Bridge Toll Plaza**

OCCUPANCY Three or more persons per vehicle, motorcycles permitted,  
2-seat vehicles with 2 persons

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday  
LIMITS: 0.1 miles West of Toll Plaza (MP 0.5) to east of Toll Plaza (MP 0.6)  
Length = 0.1 mile  
DATES: Jul 1, 1991 Reduced 10c toll tickets for HOVs (with purchase of 50-ticket book)  
Oct 1, 1995 Toll-free passage in designated booth only;  
Two-seat vehicles with two occupants permitted  
Jul 30, 1997 Opened; West of Toll Plaza to east of Toll Plaza

NOTE: HOV lane is located in toll booth #6

# District 4

## TOLL BRIDGE HOV BYPASS LANES

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### Benicia, Antioch Bridges

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, two-seat vehicles with two occupants	
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday	
TOLL-FREE BOOTHS	Benicia	#4, #5
	Antioch	Any booth
DATES	Jul 1, 1991	Reduced 10¢ toll tickets for HOVs (with purchase of 50-ticket book)
	Oct 1, 1995	Toll-free passage in designated booth only; Two-seat vehicles with two occupants permitted

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### Richmond-San Rafael Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, two-seat vehicles with two occupants	
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday	
TOLL-FREE BOOTH	#8	
DATES	Oct. 23, 1989	Toll-free passage in designated booth only;
	Oct 1, 1995	Two-seat vehicles with two occupants permitted

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### San Mateo, Dumbarton Bridges

OCCUPANCY	Two or more persons per vehicle, motorcycles permitted	
HOURS	5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday	
TOLL-FREE BOOTHS	San Mateo	Right side bypass lane
	Dumbarton	Left side bypass lane
DATES	See information in Mainline HOV Lane section	

# District 4

## TOLL BRIDGE HOV BYPASS LANES

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### San Francisco-Oakland Bay Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, two-seat vehicles with two occupants
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
TOLL-FREE BOOTHS	#1, #2, Lanes 21 & 22
DATES	See information in Ala-80 Mainline HOV Lane section

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### Carquinez Bridge

OCCUPANCY	Three or more persons per vehicle, motorcycles permitted, two-seat vehicles with two occupants
HOURS	5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday
TOLL-FREE BOOTHS	# 6
DATES	See information in Sol-80 Mainline HOV lane section



2001

**HOV  
REPORT**

Caltrans - District 4

[http://www.dot.ca.gov/dist4/d4hwops/01HOVReport/01HOVReport\\_x1.htm](http://www.dot.ca.gov/dist4/d4hwops/01HOVReport/01HOVReport_x1.htm)