Alameda County EXPRESS LANES
1333 BROADWAY, SUITE 220, PHONE (510) 836-2560 . FAX (510) 836-2185

Memorandum

April 11, 2011
Agenda Item A.3

Date: **April 4, 2011**

To: **I-580 Express Lane Policy Advisory Committee**

From: **Frank R. Furger, Executive Director**

Subject: **Express Lane Operations Summary**

The following summarizes the operations of the I-680 Express Lane through the end of March 2011, totaling 28 weeks of operations.

I-680 Express Lane Summary

	Through Week 28 Sept 20, 2010 through Week 28	Last Month	Last Week
Total Revenue	$434,271.05	$90,728.05	$18,926.30
Average Daily Revenue	$3,101.94	$3,944.70	$3,785.26
Highest Daily Revenue - February 8th	$11,372.65		
Total Trips	184,551	33,018	7,018
Average Number of Trips Per Day	1,318	1,436	1,404
Highest Number of Trips Per Day - February 8th	2,324		
Average Toll	$2.35	$2.75	$2.70
Min Toll	$0.30	$0.30	$0.30
Max Toll	$7.50	$7.50	$7.50
Average Peak Period Toll	$2.99	$3.22	$3.21
Average Off-Peak Period Toll	$0.48	$0.45	$0.42

- The ramp up for average daily trips and revenue has flattened over the last month.
- Daily Trips are averaging just over 1400
- Daily Revenue averaging approximately $4000
- Revenue is projected to be $622,000 for current fiscal year

Attachments:
Total Trips by Week
Total Trips by Day
Total Revenue by Week
Cumulative Revenue by Week
Projected Current Year Revenue by Week
Typical Daily Revenue by Hour
Typical Daily Trips by Hour

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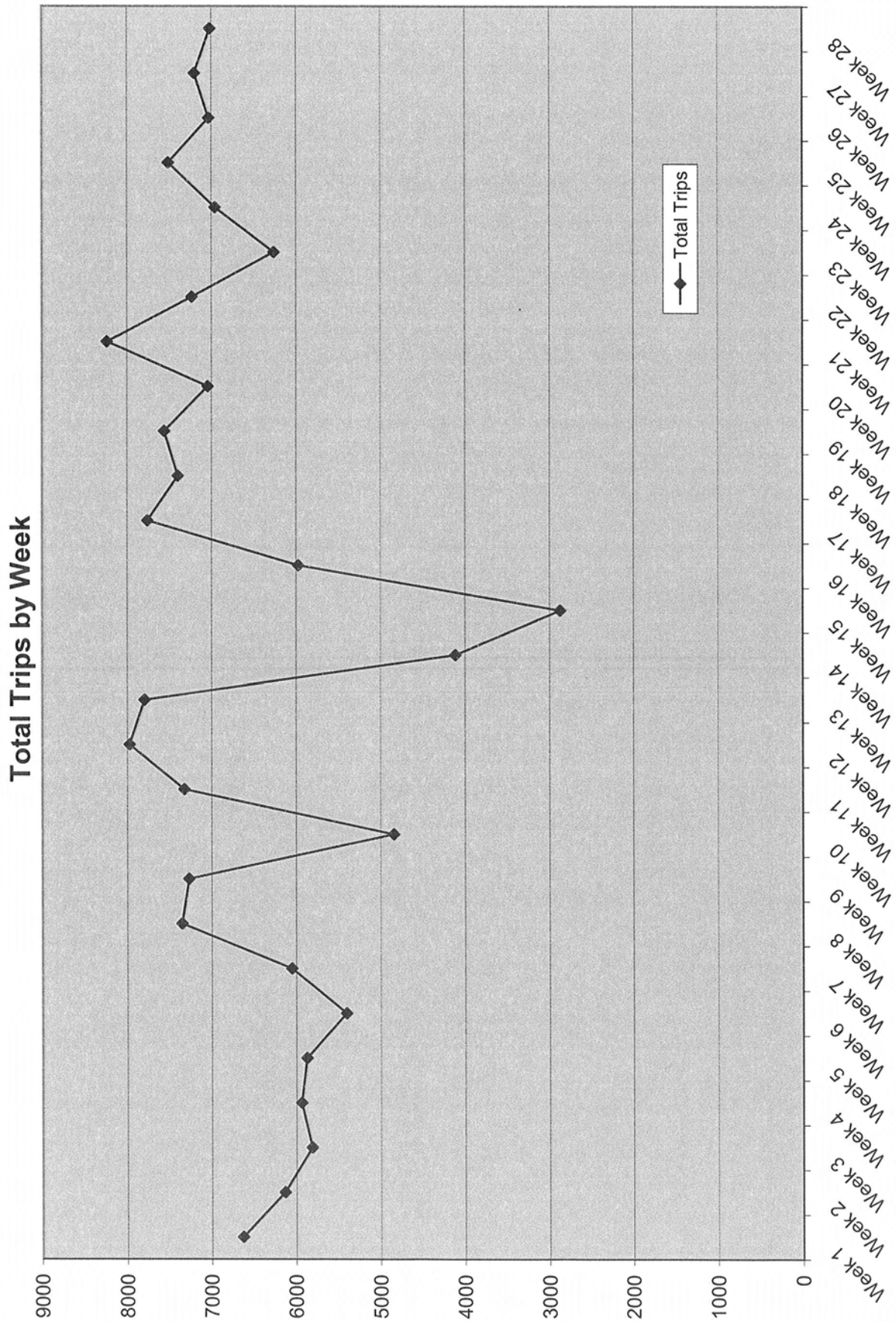
Total Trips by Week
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Total Trips
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
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Week 28

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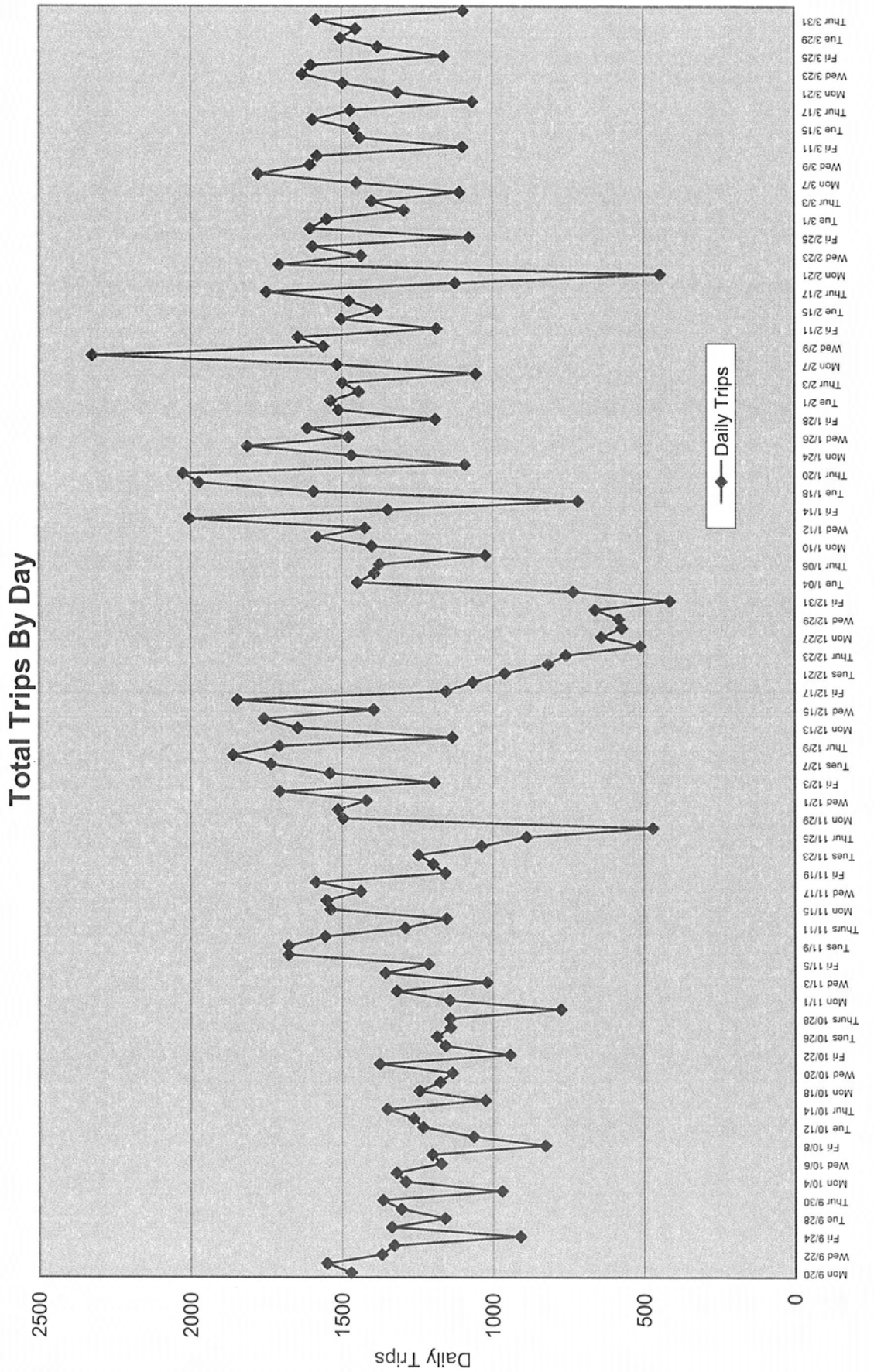
Total Trips By Day
Daily Trips
2500
2000
1500
1000
500
0
Daily Trips
Mon 9/20
Wed 9/22
Fri 9/24
Tue 9/28
Thur 9/30
Mon 10/4
Wed 10/6
Fri 10/8
Tue 10/12
Thur 10/14
Mon 10/18
Wed 10/20
Fri 10/22
Tues 10/26
Thurs 10/28
Mon 11/1
Wed 11/3
Fri 11/5
Tues 11/9
Thurs 11/11
Mon 11/15
Wed 11/17
Fri 11/19
Tues 11/23
Thur 11/25
Mon 11/29
Wed 12/1
Fri 12/3
Tues 12/7
Thur 12/9
Mon 12/13
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Fri 12/17
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Thur 12/23
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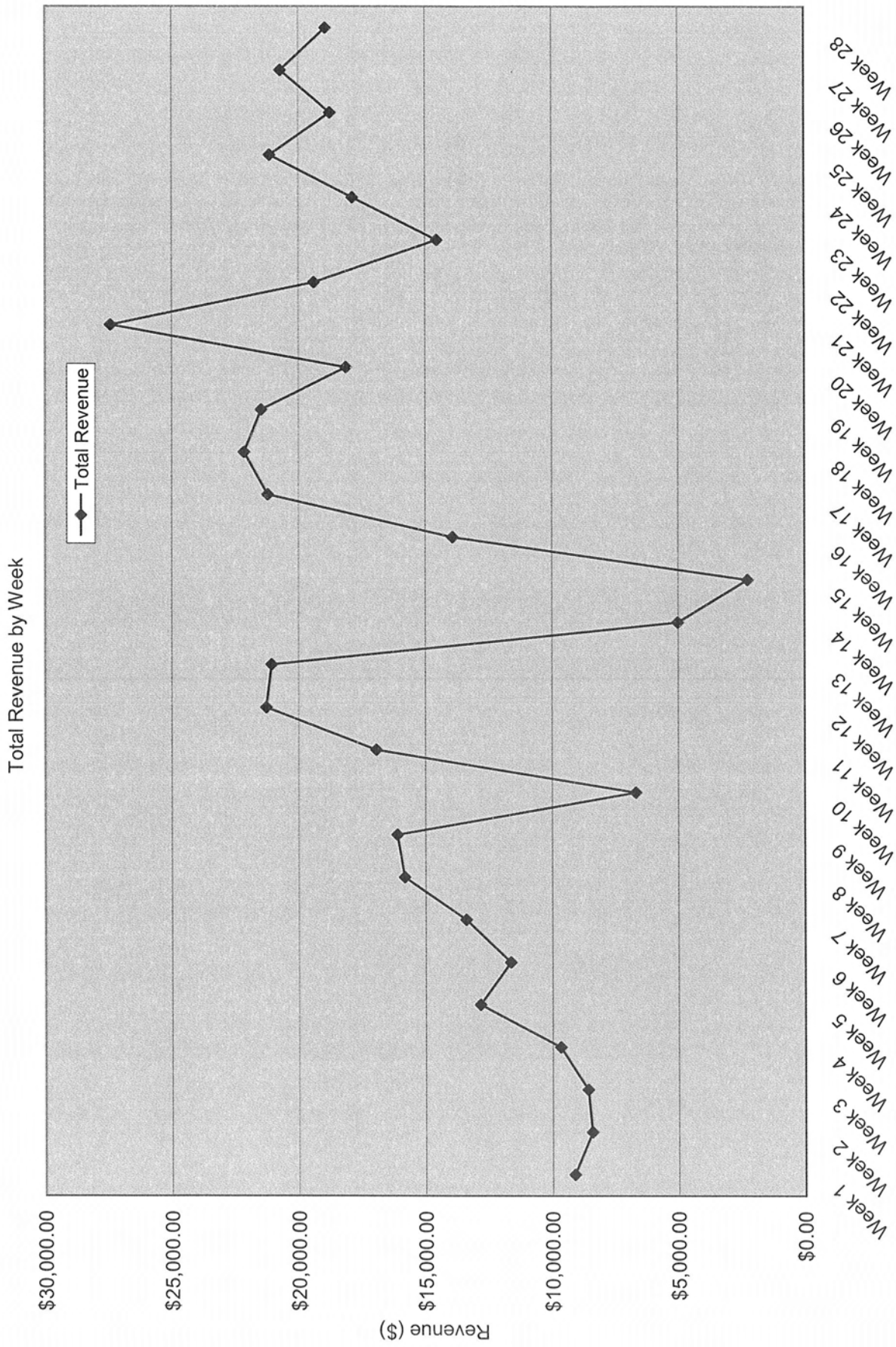
Total Revenue by Week
Total Revenue
Revenue ($)
$30,000.00
$25,000.00
$20,000.00
$15,000.00
$10,000.00
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$0.00
Week 1
Week 2
Week 3
Week 4
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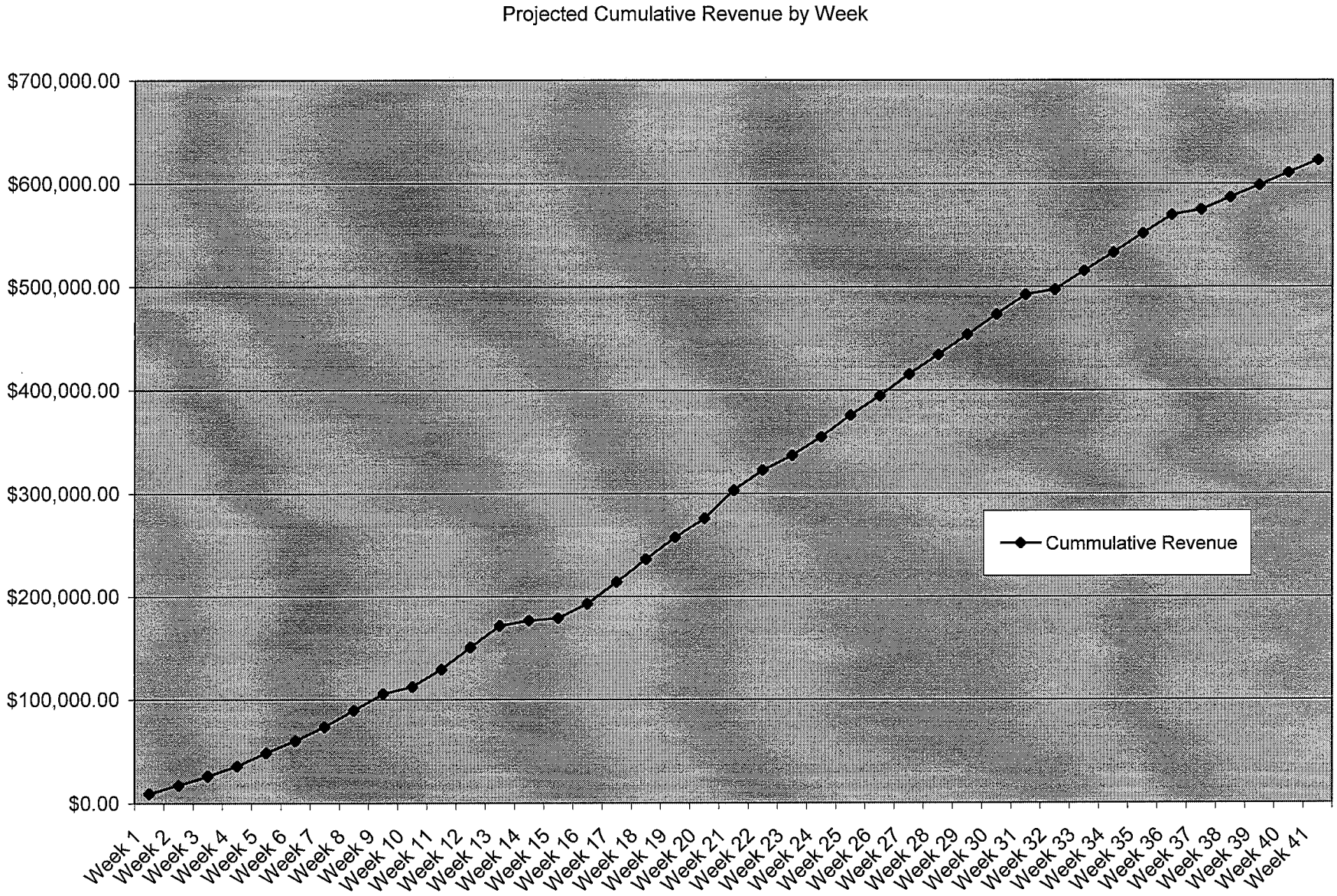
Projected Cumulative Revenue by Week
$700,000.00
$600,000.00
$500,000.00
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$300,000.00
$200,000.00
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Cummulative Revenue
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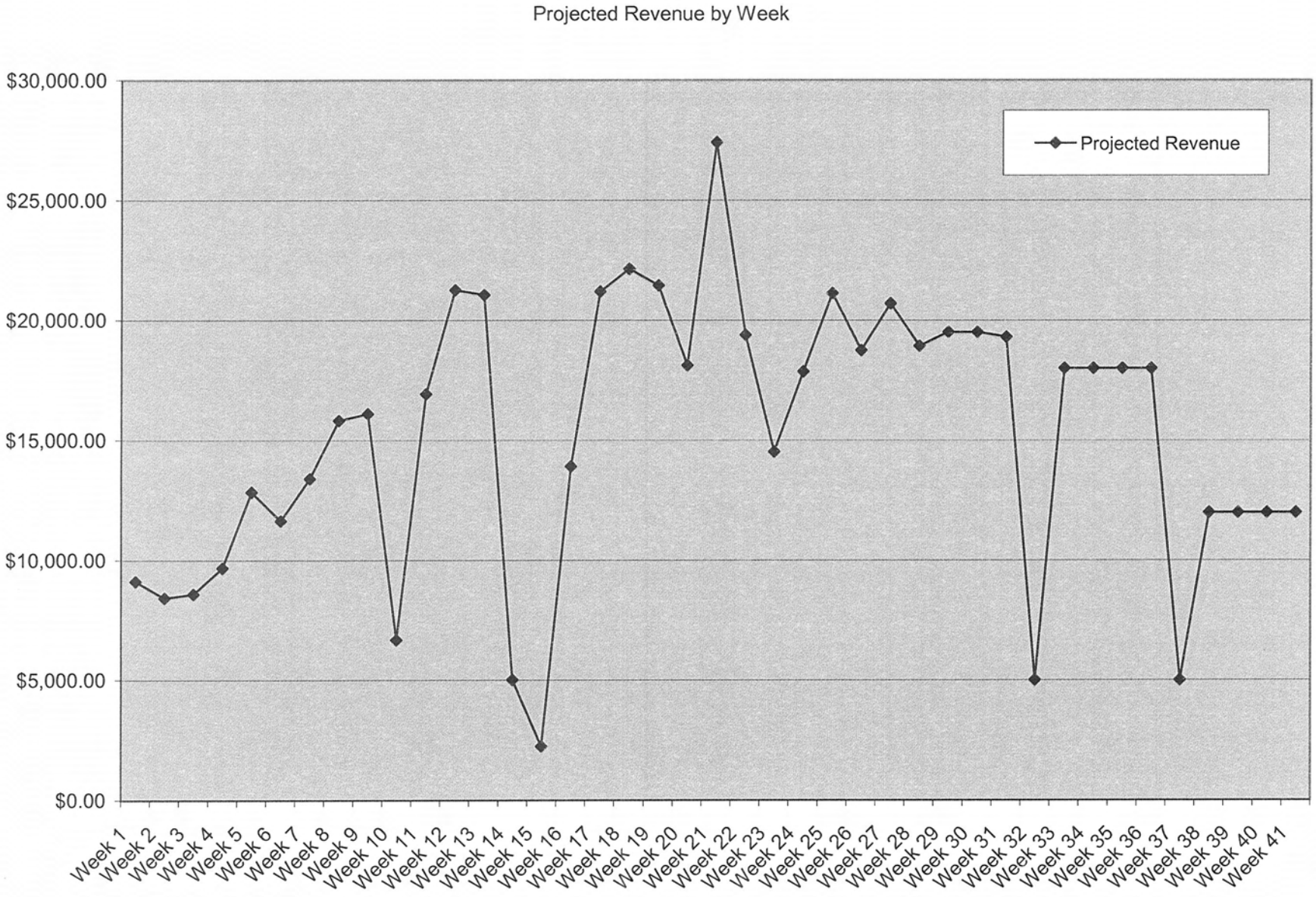
Projected Revenue by Week
$30,000.00
$25,000.00
$20,000.00
$15,000.00
$10,000.00
$5,000.00
$0.00
Projected Revenue
Week 1
Week 2
Week 3
Week 4
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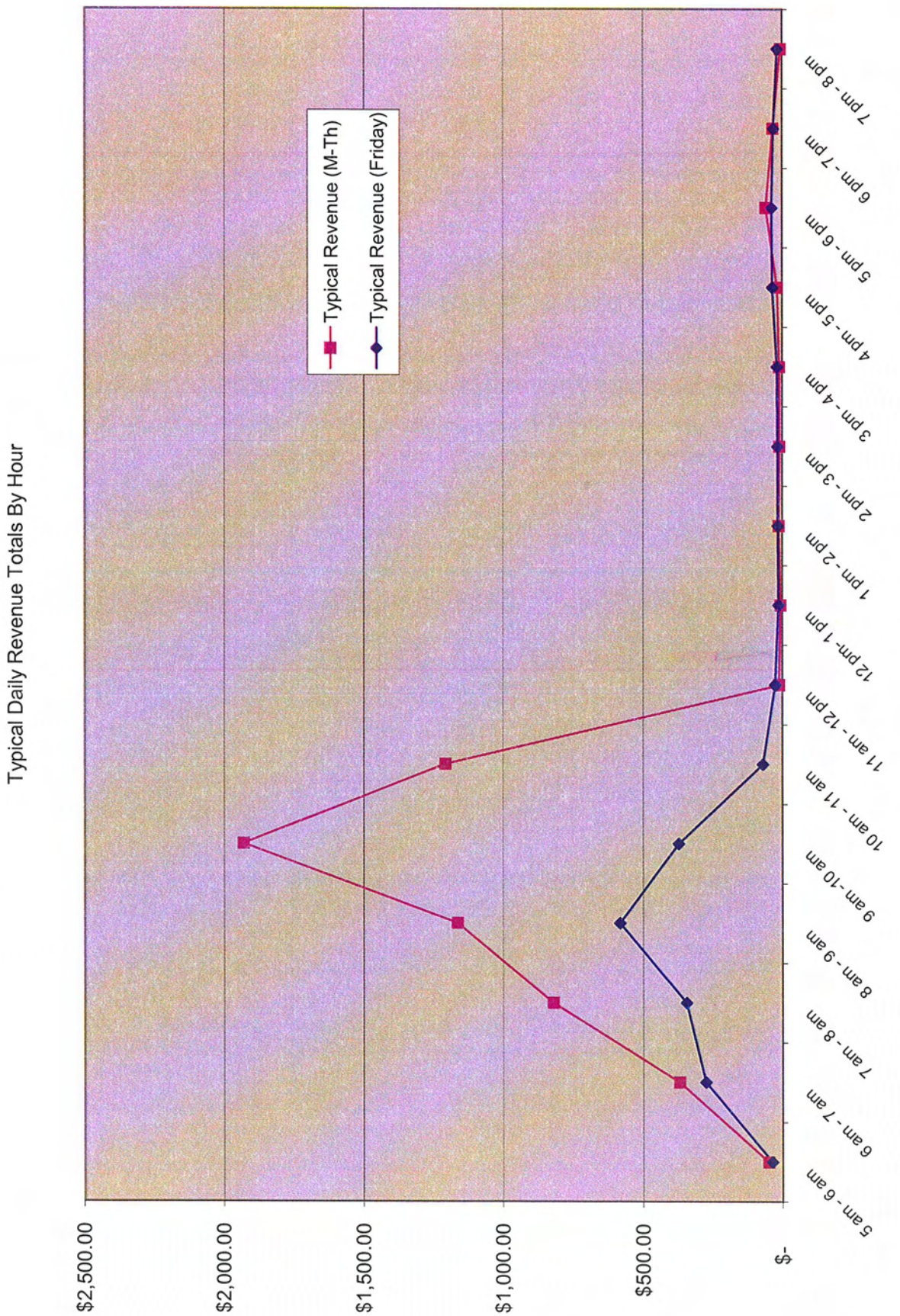
Typical Daily Revenue Totals By Hour
Typical Revenue (M-Th)
Typical Revenue (Friday)
$2,500.00
$2,000.00
$1,500.00
$1,000.00
$500.00
$-
5 am - 6 am
6 am - 7 am
7 am - 8 am
8 am - 9 am
9 am - 10 am
10 am - 11 am
11 am - 12 pm
12 pm - 1 pm
1 pm - 2 pm
2 pm - 3 pm
3 pm - 4 pm
4 pm - 5 pm
5 pm - 6 pm
6 pm - 7 pm
7 pm - 8 pm

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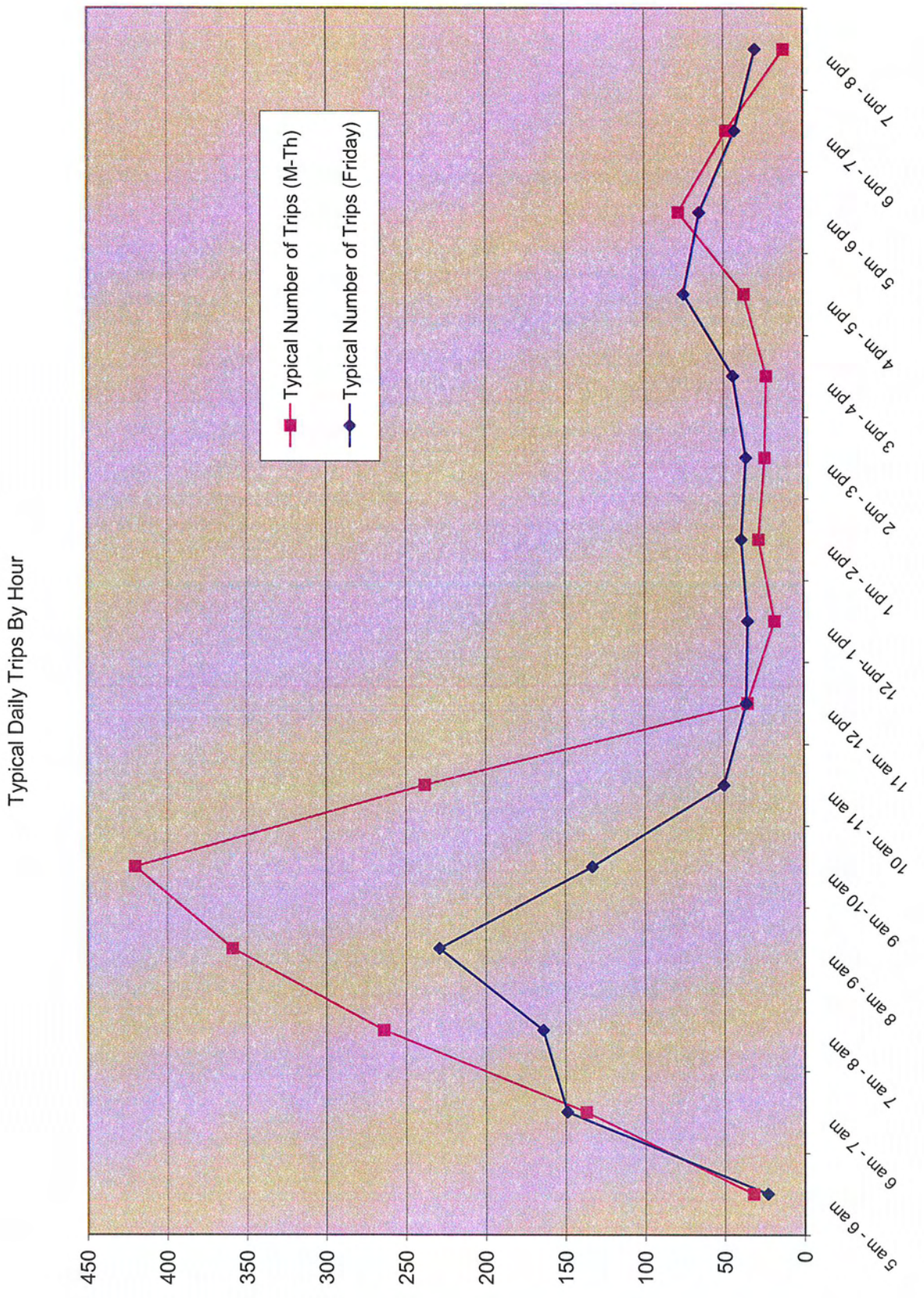
Typical Daily Trips By Hour
Typical Number of Trips (M-Th)
Typical Number of Trips (Friday)
450
400
350
300
250
200
150
100
50
0
5 am - 6 am
6 am - 7 am
7 am - 8 am
8 am - 9 am
9 am - 10 am
10 am - 11 am
11 am - 12 pm
12 pm - 1 pm
1 pm - 2 pm
2 pm - 3 pm
3 pm - 4 pm
4 pm - 5 pm
5 pm - 6 pm
6 pm - 7 pm
7 pm - 8 pm

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Alameda County EXPRESS LANES
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Memorandum

April 11, 2011
Agenda Item A.4

Date: **April 4, 2011**

To: **I-580 Express Lane Policy Advisory Committee**

From: **Frank R. Furger, Executive Director**

Subject: **Review of Express Lane Toll Policy**

Recommendation
The I-580 Express Lane Policy Advisory Committee is requested to approve the changes outlined below to the existing Toll Policy for the I-680 Express Lane.

Discussion
In advance of the opening of the I-680 Express Lane, the JPA Board approved several actions related to the operations of the facility. These actions, which included policy regarding hours of operation, time of day toll rate parameters and minimum/maximum toll, comprised the Toll Policy for the facility. The JPA requested that staff review the adopted Toll Policy after six months of operation to determine if any modifications should be made.

The following summarizes some key elements of the Toll Policy, along with recommendations for modifications where appropriate.

Hours of Operation
Current policy calls for hours of operations between 5 am and 8 pm, Monday through Friday. In adopting these hours of operation, the JPA requested that staff evaluate the operating hours after six months of operations. Staff does not believe any changes to the hours of operation are warranted at this point. The hours of operation should be revisited upon development of the I-580 toll policy to evaluate consistency between the two corridors.

Dynamic Pricing Strategy
The adopted policy calls for the emphasis in the first months of operations to be on maximizing throughput and to minimize any required closure of the facility to toll customers due to breach of the Level of Service requirement. The JPA delegated the authority to staff to modify the toll rate parameters as necessary to manage traffic flow in the corridor. The parameters of the dynamic pricing algorithm are reviewed routinely and adjusted based on changing traffic conditions in the corridor. No changes to this policy are recommended.

Toll Rate Parameters
Current policy establishes the minimum toll rate during various periods of the day.

5 am to 10 am – Minimum $1 toll
10 am to 8 pm – Minimum 30 cents

Staff recommends that the minimum toll from 5 am to 10 am be reduced to 30 cents. This change in toll policy would *allow* the toll to be lower but will not *require* the toll to be lower.

The current policy of a $1 minimum toll at 5 am was established based on the modeling that was done before the facility was opened, using the anticipated traffic volumes. While staff does not anticipate an immediate change to the dynamic pricing parameters, this change in policy would allow for more flexibility in toll pricing during periods of lower traffic volumes such as holidays and summer months.

No other changes to toll policy are recommended at this time.

Alameda County EXPRESS LANES
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Memorandum

April 11, 2011
Agenda Item A.5

Date: **April 4, 2011**

To: **I-580 Express Lane Policy Advisory Committee**

From: Frank R. Furger, Executive Director

Subject: **Occupancy and Toll Violation Study**

On March 29th, a vehicle occupancy and classification study was conducted on the I-680 Express Lane. The data was collected during the AM Peak Period between 7:00 a.m. to 10:00 a.m. near the Sheridan Road overcrossing. The results of this study, summarized below, will be used to modify toll violation enforcement strategies.

The following outlines the methodology used in conducting the study:

The study utilized four people, each one assigned to record the vehicle count and vehicle occupancy for each of the four lanes of the facility. Additionally, the counts in the Express Lane differentiated the vehicle occupancy/class type in more detail, distinguishing between vehicle types: number of vehicles for HOV, SOV, motorcycle, hybrid, and bus were recorded separately. Counts were conducted in 15-minute time intervals for a total of three hours.

Image 1: Observation Point Location

The vehicle occupancy/classification data collected are presented in Tables 1 and 2, below.

Table 1: Vehicle Classification Counts by Time Intervals

Intervals		Lane # 1 (Express Lane)					Lane # 2			Lane # 3			Lane # 4		
Start Time	End Time	Motorcycle	Hybrid	HOV	SOV	BUS	HDV	HOV	SOV	HDV	HOV	SOV	HDV	HOV	SOV
07:00 AM	07:15 AM	3	5	84	85	0	5	8	357	5	3	531	38	9	294
07:15 AM	07:30 AM	7	5	114	100	2	2	4	338	4	4	527	34	12	323
07:30 AM	07:45 AM	9	5	100	101	0	0	5	338	6	5	543	34	20	347
07:45 AM	08:00 AM	6	7	119	128	2	3	12	328	4	4	525	47	16	320
08:00 AM	08:15 AM	20	9	111	147	0	1	6	284	3	5	516	47	6	299
08:15 AM	08:30 AM	11	7	90	138	1	1	2	257	5	3	485	34	12	317
08:30 AM	08:45 AM	10	10	126	136	0	2	2	397	2	4	523	51	11	310
08:45 AM	09:00 AM	9	7	97	129	0	0	0	298	3	5	490	45	9	289
09:00 AM	09:15 AM	6	6	111	120	1	1	1	265	1	5	467	51	18	298
09:15 AM	09:30 AM	3	6	82	105	2	1	0	251	7	5	431	56	11	246
09:30 AM	09:45 AM	11	9	95	100	0	0	0	338	4	6	507	63	14	232
09:45 AM	10:00 AM	4	2	26	37	1	4	2	255	5	4	412	52	12	159
	Total	99	78	1,155	1,326	9	20	42	3,706	49	53	5,957	552	150	3,434

Note: HDV = Heavy Duty Vehicle; SOV= Single Occupancy Vehicle; HOV = High Occupancy Vehicle

Table 2: Hourly Vehicle Classification Counts

Hourly Counts		Lane # 1 (Express Lane)					Lane # 2			Lane # 3			Lane # 4		
Start Time	End Time	Motorcycle	Hybrid	HOV	SOV	BUS	HDV	HOV	SOV	HDV	HOV	SOV	HDV	HOV	SOV
07:00 AM	08:00 AM	25	22	417	414	4	10	29	1,361	19	16	2,126	153	57	1,284
07:15 AM	08:15 AM	42	26	444	476	4	6	27	1,288	17	18	2,111	162	54	1,289
07:30 AM	08:30 AM	46	28	420	514	3	5	25	1,207	18	17	2,069	162	54	1,283
07:45 AM	08:45 AM	47	33	446	549	3	7	22	1,266	14	16	2,049	179	45	1,246
08:00 AM	09:00 AM	50	33	424	550	1	4	10	1,236	13	17	2,014	177	38	1,215
08:15 AM	09:15 AM	36	30	424	523	2	4	5	1,217	11	17	1,965	181	50	1,214
08:30 AM	09:30 AM	28	29	416	490	3	4	3	1,211	13	19	1,911	203	49	1,143
08:45 AM	09:45 AM	29	28	385	454	3	2	1	1,152	15	21	1,895	215	52	1,065
09:00 AM	10:00 AM	24	23	314	362	4	6	3	1,109	17	20	1,817	222	55	935

Note: HDV = Heavy Duty Vehicle; SOV= Single Occupancy Vehicle; HOV = High Occupancy Vehicle

Vehicle composition of the express lane is summarized in Table 3. Qualified toll free vehicles (buses, hybrid, motorcycle, high occupancy vehicles) consist of approximately 50% of the traffic in the lane.

Table 3: Express Lane Vehicle Composition

Intervals		Lane # 1 (Express Lane)				
Start Time	End Time	Total	Toll Free	Toll Veh	Toll Free %	Toll Veh %
07:00 AM	07:15 AM	177	92	85	52%	48%
07:15 AM	07:30 AM	228	128	100	56%	44%
07:30 AM	07:45 AM	215	114	101	53%	47%
07:45 AM	08:00 AM	262	134	128	51%	49%
08:00 AM	08:15 AM	287	140	147	49%	51%
08:15 AM	08:30 AM	247	109	138	44%	56%
08:30 AM	08:45 AM	282	146	136	52%	48%
08:45 AM	09:00 AM	242	113	129	47%	53%
09:00 AM	09:15 AM	244	124	120	51%	49%
09:15 AM	09:30 AM	198	93	105	47%	53%
09:30 AM	09:45 AM	215	115	100	53%	47%
09:45 AM	10:00 AM	70	33	37	47%	53%
	Total	2,667	1,341	1,326	50%	50%

Note: HDV = Heavy Duty Vehicle; SOV= Single Occupancy Vehicle; HOV = High Occupancy Vehicle

Other observations:

- *A total of 16,630 vehicles passed by the data collection point (Sheridan Road) from 7:00 AM to 10:00 AM on March 29th. Figure 2 shows the lane utilization data for all the lanes on I-680 southbound.*

- *Lane No. 3 carried the highest volume (6,059) in the three hour AM peak period near the data collection location.*

- *The percentage of high occupancy vehicles of the general purpose lanes was small (around 1%) compared to that of the express lane (43%). Most of the high occupancy vehicles used the express lane when passing through the data collection point.*

- *Hybrid vehicles were hard to identify in the field given the high volume and travel speed on the freeway. As a result, the observed number of hybrid vehicles MAY be lower than in reality.*

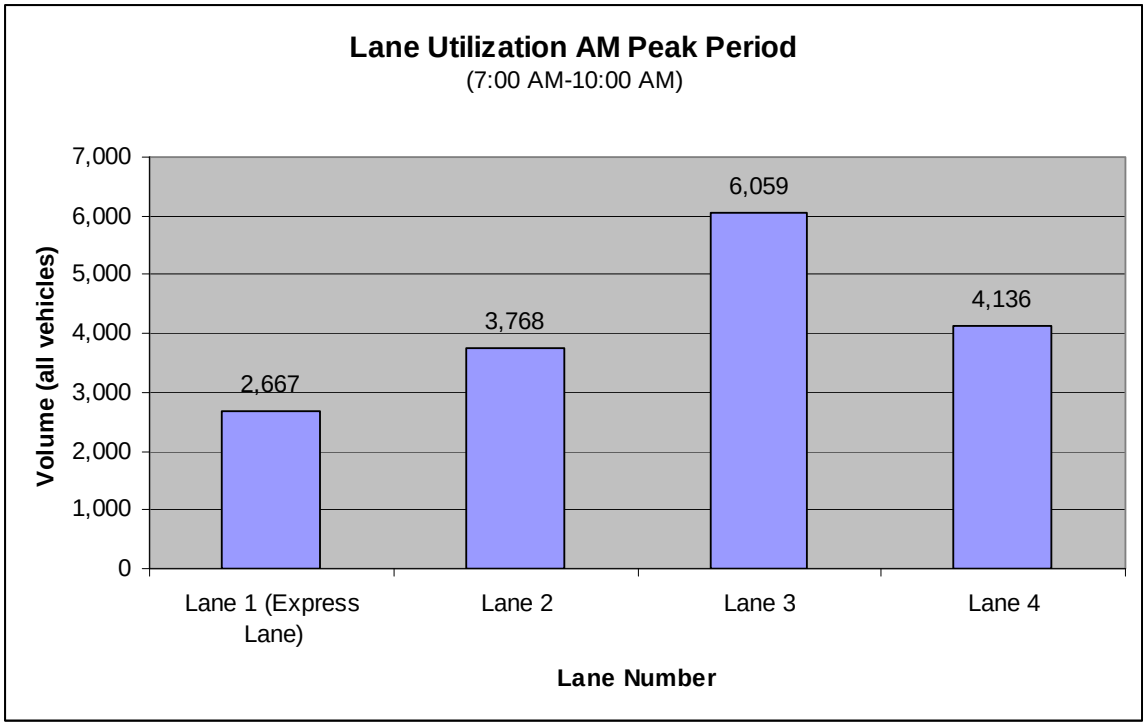

Figure 1: Lane Utilization AM Peak Period

Table 4 compares the manual traffic counts with the Express Lane automated (RTMS) counts collected near Andrade Road during the same time observation period. The counts that were recorded by the EL system equipment and what was manually counted for total vehicles in both the express lane and the general purpose lanes are close – 2,706 vs 2,667 in the EL and 14,124 vs 13,963 in the GP Lane.

There is however, a large discrepancy between the vehicles that were recorded as paying a toll (543) in the three hour period and the vehicles that should have paid a toll based on visual counts (1,326) Based on these counts, a total of 783 vehicles were in violation over the three hour observation period.

Table 4 Traffic Count Comparison

Time Interval		Express Lane Total		Toll Vehicle		GP Lane Total	
Start Time	End Time	EL Syst	Count	EL Syst	Count	EL Syst	Count
7:00	7:30	422	405	76	185	2,418	2,498
7:30	8:00	459	477	83	229	2,454	2,557
8:00	8:30	548	534	116	285	2,376	2,283
8:30	9:00	525	524	105	265	2,343	2,441
9:00	9:30	455	442	98	225	2,247	2,115
9:30	0:00	297	285	65	137	2,286	2,069
Total		2,706	2,667	543	1,326	14,124	13,963
Difference		39		783		161	

EL Syst – Automated counts by EL system equip.

Count – Visual count by field personnel.

Staff continues to work with CHP on enforcement procedures to reduce the number of violators on the facility. Additional information will be provided at the meetin

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Alameda County EXPRESS LANES
1333 BROADWAY, SUITE 220, PHONE (510) 836-2560 . FAX (510) 836-2185

April 11, 2011
Agenda Item 2.1

I-580 EXPRESS LANE POLICY ADVISORY COMMITTEE
MINUTES OF February 14, 2011

A.0 JOINT MEETING WITH SUNOL SMART CARPOOL LANE JOINT POWERS AUTHOIRTY (JPA) GOVERNING BOARD

A.1 Convene joint meeting with I-580 Express Lane Policy Advisory Committee (PAC)

A.2 PAC Roll Call – Confirm PAC Quorum (no action by JPA Board)

A.3 I-680 Express Lane Status Update

Furger provided a power point presentation reflecting operations through February, 2011.

A.4 Northbound HOV/Express Lane Project – Project Delivery Plan

Akkawi advised the JPA Board and PAC that staff is working with Caltrans and VTA on a project delivery plan. Staff will present the delivery plan in April.

A.5 Recess Joint Meeting

1.0 PUBLIC COMMENT

There was no public comment.

2.0 MINUTES OF FEBRUARY 14, 2011

A motion was made by Green to approve the Minutes of February 14, 2011; a second was made by Hosterman. The motion passed unanimously.

3.0 ADMINISTRATIVE MATTERS

There are no reports this month.

4.0 HOV/EXPRESS LANE PROJECT STATUS UPDATE

4.1 I-580 Tri-Valley Rapid Corridor Improvements Status Report for the I-580 Eastbound HOV Lane Project

Akkawi reviewed the monthly status report for the I-580 Tri-Valley Rapid Corridor Improvements: Eastbound HOV lane Segments 1 and 2, and the HOT lane projects. The CMA is the sponsor of the HOV. However, the construction phase of the HOV lane is administered by Caltrans. The construction status report covers all activities through February 2, 2010. Akkawi noted Contract 2 bid amount $30,454,448, expenditures $31,565,000. Contract approved on July 29, 2009, work completed 96%, and all issues relate to the coordination with Isabel Interchange project were resolved.

4.2 I-580 Westbound Express Lane Project – Project Delivery Plan

At the February 2011 I-580 Express Lane PAC meeting, staff was requested to prepare and present the I-580 Westbound HOV / Express Lane Project Delivery Plan to expedite the opening of the WB facility. Staff has been working on developing the plan which will be discussed with and concurred to by Caltrans before it is brought back to the Committee for approval.

5.0 ADJOURNMENT/NEXT MEETING: MARCH 14, 2011

The next I-580 Policy Advisory Committee meeting is scheduled for March 14, 2011.

Alameda County EXPRESS LANES
1333 BROADWAY, SUITE 220, PHONE (510) 836-2560 . FAX (510) 836-2185

CMA I-580 EXPRESS LANE
POLICY ADVISORY COMMITEE

March 14, 2011
ACTIA/CTC Board Room
1333 Broadway, Suite 300, Oakland, CA

MEMBERS	Initials	CMA STAFF	Initials
Supervisor Scott Haggerty, Chair, County of Alameda		Art Dao, Executive Director	
Mayor Jennifer Hosterman, Vice Chair, City of Pleasanton		Frank Furger, Chief Deputy Director	
Mayor Mark Green, City of Union City		Ray Akkawi, Mgr of Project Delivery	
Mayor Marshall Kamena, City of Livermore		Christina Muller, Secretary	
Vice Mayor Tim Sbranti, City of Dublin		Claudia Leyva, Administrative Assistant	
Council Member Bill Harrison, City of Fremont (Alternate)			

LEGAL COUNSEL/OTHERS	Initials		
Zack Wasserman - WRBD Pamela Mintz			
Neal Parish, - WRBD			
Leo Scott – Gray-Bowen, Inc			
Emily Landin-Lowe - Caltrans			
Mark Zabaneh - Caltrans			

Name	Jurisdiction/Organization	Phone #	E-mail
1. Patricia Reavey	ACTC	(510) 208-7422	preavey@alamedaCTC.org
2. Carlos Contreras	C&M	916 760 7418	cmcontreras@candm-associates.com
3. Dawn Argula	Alameda Co. Bos #2	925-551-6895	dawn.argula@bos.acgov.org
4. Scott Haywood	VTA	408 321-7544	scott.haywood@vta.org
5. Steve Chan	Milpitas	408 586 3329	SCHAN@ci.MILPITAS.CA.GOV
6. Bob Vinn	Livermore	925 960 4586	
7. Ramsey Hissen	URS	408-297-9585	Ramsey.Hissen@urscorp.com
8. James O'Brien	ACTC Proj Controls	(510) 208-7464	james@advancepdi.com
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10.			

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Alameda County EXPRESS LANES
1333 BROADWAY, SUITE 220 . PHONE (510) 836-2560 . FAX (510) 836-2185

April 11, 2011
Agenda Item 4.1

Memorandum

Date: April 4, 2011

To: I-580 Express Lane Policy Advisory Committee

From: Ray Akkawi, Manager of Project Delivery

Subject: I-580 Tri-Valley Rapid Corridor Improvements: Status Report for the I-580 Eastbound HOV Lane Project.

Attached for the Committee's review is the monthly status report for the I-580 Tri-Valley Rapid Corridor Improvements: Eastbound HOV lane- Segments 1 and 2, and the HOT lane Projects. The CMA is the sponsor of the HOV. However, the construction phase of the HOV lane is administered by Caltrans. The construction status report covers all activities through March 31, 2011.

I-580 HOV LANE PROJECT
Construction Status Report
Through March, 2011

PROJECT DESCRIPTION

The EB I-580 HOV Lane project will construct an HOV lane in the median from Hacienda Blvd in the City of Dublin to Greenville Road in the City of Livermore. The project will construct auxiliary lanes between Fallon and Airway, the new Isabel interchange and North Livermore, North Livermore and First Street, and First Street and Vasco. To receive competitive bidding and complete the project sooner, the CMA split the project into two smaller construction segments. Segment 1 limits are from Greenville Road to Portola Ave. Segment 2 limits are from Portola Ave to Hacienda Blvd. To comply with the CMIA scope, a third contract was added to construct the auxiliary lanes between the new Isabel interchange and First Street. Funding for the third contract came from bid savings from contract one and revising the estimates for contract 2.

PROJECT FUNDING

The I-580 EB HOV is fully funded through Federal, State, and local funds available for the I-580 Corridor.

CONSTRUCTION STATUS

Segment 1: The construction contract of this segment (from Greenville Road to Portola Avenue) was completed on February 2, 2010.

Segment 2: This segment of the I-580 Eastbound HOV Lane project will construct an eastbound HOV lane from Portola Avenue in the City of Livermore to the Hacienda Blvd interchange in the City of Dublin. The project will widen the inside and outside shoulders to accommodate the conversion of the HOV lane to High Occupancy Toll (HOT) lane. It will construct auxiliary lanes from Airway to Fallon and from Fallon to Santa Rita, and will also rehabilitate the existing pavement to provide a better roadway surface.

Contract Status:
Contract #2 was awarded by Caltrans on July 29, 2009 to in the amount of $30,454,448. The contract work started on August 21, 2009 and the estimated contractual completion date is August 25, 2011. The HOV Lane between Portola Ave and Airway Blvd was opened to traffic on July 18, 2010. The remainder of the HOV, between Airway and Hacienda was opened on November 5, 2010. While the HOV lane is opened, there are other works the needed to be completed before Caltrans can accept the contract. Caltrans decided to suspend the contract until July 2011 to allow for Isabel Interchange Project be completed and clear the freeway segment between Portola and Airway to be rehabilitated. Contractor will commence the pavement rehabilitation in August with an estimated completion date of December 2011.

FINANCIAL STATUS

Budget and Expenditure Summary/ Construction Phase

The table below is the breakdown of the funding allocation.

	Contract 2
Bid Amount	$30,454,448
ALLOCATION:	
Supplemental Funds	$1,860,450
State Furnished Mat.	$1,271,600
Contingency Fund (5%)	$1,616,502
Total Allotment	**$35,203,000**
EXPENDITURES:	
Items Paid to Date	$29,683,882
Approved CCOs	$1,240,418
Supplemental work	$1,640,700
State Furnished Material	$911,373
Total Estimated Expenditures	$33,473,373
Estimated Fund Balance (Allocation – Expenditures)	**$1,729,627**

SCHEDULE STATUS

	Contract 2
Bid Opening:	June 3, 2009
Contract Approval:	July 29, 2009
Total Working Days per Bid	490
First Charged Working Day	August 21, 2009
Contractual Completion Date:	August 18, 2011
Time Extension due to Weather Days:	20 Working Days
Time Extension due to Change orders:	00 Working Days
% Completion (Time):	74%
%e Completion (Work):	96%

OUTSTANDING ISSUES/DISPUTES/CLAIMS

All issues related to the coordination with Isabel Interchange project were resolved.

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Alameda County EXPRESS LANES
1333 BROADWAY, SUITE 220, PHONE (510) 836-2560 . FAX (510) 836-2185

Memorandum

April 11, 2011
Agenda Item 4.2

Date: April 4, 2011

To: **I-580 Express Lane Policy Advisory Committee**

From: Ray Akkawi, Manager of Project Delivery

Subject: **Approval of Project Delivery Plan for I-580 Westbound HOV/Express Lane Project**

Recommendations
In support of delivering the I-580 Westbound HOV/Express Lane Project, it is recommended that the Committee approve the I-580 Westbound HOV/Express Lane Project Delivery Plan.

Summary
A project delivery plan for the I-580 Westbound Express Lane project is needed to define the scope, cost including funding sources, delivery options, and implementation schedule. The plan details the scope of the project, potential funding sources, and roles and responsibilities of partners.

Discussion
As the project development of the I-580 Westbound HOV project proceeds toward completion, staff is evaluating the several options to convert the HOV Lane to an Express Lane. The feasibility study to convert the HOV lane into an express lane will include a Traffic Operations Analysis Report (TOAR). The report will be accompanied by toll revenue forecast. The TOAR will determine the number of lanes needed and the timing to implement these lanes. A single Express Lane facility could provide congestion relieve for a number of years before it reaches its capacity. The traffic analysis report prepared for Metropolitan Transportation Commission (MTC) Regional HOT Lane Backbone Network Project Study Report showed that a single HOV/Express Lane is feasible (will not reach capacity) until year 2030. The report recommended a second Express Lane be constructed after 2030.

The scope of the Westbound HOV Lane project calls for the construction of one HOV lane with additional width to convert the HOV lane to a single express lane. The capital cost of the Westbound HOV Lane Project is funded by Corridor Mobility Improvements Act (Proposition 1B) funds. It is expected that the latest date to request CMIA funds from California Transportation Commission (CTC) is June 2012.

The project delivery plan for the Westbound Express Lane Project addresses the conversion of the HOV lane to a single express lane. The project delivery plans addresses the project development process for civil elements, the development of the Electronic Toll System, the required cooperative, interface, enforcement, and tolling agreements, the estimated cost of the project, the potential funding sources, options to implement the conversion, the schedule, and the

issues associated with the project. The project delivery plan was discussed with Caltrans, owner of the facility and MTC, owner of the Regional Hot Lane Network.

Attachments
Attachment A: I-580 Westbound Express Lane Project Delivery Plan
Attachment B: I-580 Westbound Express Lane Project Funding Plan
Attachment C: I-580 Westbound Express Lane Implementation Schedule

PROJECT DELIVERY PLAN

I-580 WESTBOUND EXPRESS LANE

PROJECT LIMITS

The proposed project limits are from Greenville Road in the City of Livermore to San Ramon Road/Foothill Road in the Cities of Dublin and Pleasanton.

PROJECT SPONSOR

Alameda County Transportation Commission

PROJECT PARTNERS

Caltrans, Metropolitan Transportation Commission, FHWA

PROJECT SCOPE

The I-580 Westbound Express Lane Project (Project) will convert the proposed westbound HOV Lane to an Express Lane that meets the full geometrics standards. The Westbound HOV lane project proposes to widen the freeway to allow the conversion of the HOV lane to a single express lane. Development of the project includes the following:

1. Preparation of a Project Study Report/ Project Report for the conversion to Express Lane;
2. Preparation of an Environmental Document to allow the conversion to Express Lane;
3. Approval of necessary design exceptions
4. Location and design of the ingress and egress zones;
5. Location and design of enforcement zones
6. Design of roadside signs and overhead sign structures;
7. Design of toll gantries
8. Design of CCTV polls
9. Striping plans
10. Electrical network design

PROJECT COST

The estimated cost of the project is $16.5 million.
Attachment B shows the funding plan for this project.

PROJECT SCHEDULE AND MILESTONES

The design of the Westbound HOV lane project is nearing 100% completion. The Plans, Specifications and Estimates (PS&E) will be submitted to Caltrans HQ in July for a final contract preparation. The project will receive the "Ready to List" status in November 2011. Approval for the conversion to express lane will be through the preparation of a Project Study Report/Project Report and revalidation of the westbound I-580 HOV lane environmental document. The implementation plan for the conversion to express lane will be a combination of a contract change order to the civil contract and the addition of some civil work to the system integration contract.

A preliminary schedule to open the facility as HOV /EL is shown on attachment C.

MILESTONES:

Agreement w/ CT for Project Development		June 2011
System Manager on board		June 2011
TOAR/ Revenue	Completed	June 2011
PAED		Sept. 2012
Includes Concept of Operations Report, Enforcement Plan, Expression of Interest, and Implementation Plan		
SEMP		Apr. 2012
Begin PS&E		June 2012
System Integrator on Board		Sept. 2012
Issue CCO		Sep 2013
Open		With HOV (2014)

AGREEMENTS NEEDED

Expression of Interest
Tolling Agreement
BATA
CHP
Caltrans – Various

TOLLING POLICY

Tolling Policy defining the maximum and minimum toll price, and the hours of operations is needed to prepare the TOAR and the revenue forecast. These parameters could be refined during the design of the Electronic Toll System and during the bench testing of the algorithm.

ISSUES and Risks

1. Air Quality PM 2.5 requirements: Will impact the revalidation of the Environmental document.
2. Congressional Resistance to Congestion pricing: Approval of Tolling Agreement may be delayed

FUNDING

TVTC:	$ 3.4 million
IMD:	$ 1.0 million
Additional Funding TBD:	$12.1 million
TOTAL:	$16.5 million

COST

Scoping (Incl. TOAR and Revenue Forecast)	$ 600,000
Environmental	$ 425,000
Design	$ 300,000
System Manager/Integrator	$ 1,000,000
Construction	$ 8,300,000
TOTAL:	$16,500,000

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I-580 Westbound HOT Project - Funding Plan Summary

CMA Proj. 424.1

EA: 04-0G190K

Last Update: March 10, 2011

Item Number	Project Component	Contracts Ex./ Prop to Date	Cost to Date	Forecast to Completion	Est. at Completion	TVTC	Fed - IMD	LONP	I-580 Corridor Savings	Funding - TDB	Total Funding Amount
1.0	Project Initiation Document (PID)	$1,250,000	$379,491	$870,509	$1,250,000	$700,000	$550,000	$0	$0	$0	$1,250,000
1.1	A09-003 URS I-580 WB HOT	$400,024	$297,211	$102,813	$400,024	$400,024					$400,024
1.2	PSR (RFP Pending)	$710,000	$0	$710,000	$710,000	$200,000	$510,000				$710,000
1.3	Wendel Rosen	$1,000	$648	$352	$1,000	$1,000					$1,000
1.4	ACCMA STAFF	$138,976	$81,632	$57,344	$138,976	$98,976	$40,000				$138,976
1.9	Uncommitted	$0	$0	$0	$0	$0					$0
2.0	PE, Env. & Project Approval (PA&ED)	$450,000	$0	$450,000	$450,000	$0	$450,000	$0	$0	$0	$450,000
2.1	PA&ED Contract (Future)	$400,000	$0	$400,000	$400,000		$400,000				$400,000
2.2			$0	$0							$0
2.3	ACCMA STAFF	$50,000	$0	$50,000	$50,000		$50,000				$50,000
2.9	Uncommitted		$0	$0							$0
3.0	Plans, Specs & Estimate (PS&E)	$300,000	$0	$300,000	$300,000	$300,000	$0	$0	$0	$0	$300,000
3.1	PS&E Contract (Future)	$250,000	$0	$250,000	$250,000	$250,000					$250,000
3.2			$0	$0							$0
3.3	ACCMA STAFF	$50,000	$0	$50,000	$50,000	$50,000					$50,000
3.9	Uncommitted		$0	$0							$0
3.5	System Integrator	$6,000,000	$0	$6,000,000	$6,000,000	$0	$0	$0	$6,000,000	$0	$6,000,000
4.1	System Integrator (Future)	$5,750,000	$0	$5,750,000	$5,750,000				$5,750,000		$5,750,000
4.2			$0	$0							$0
4.3	ACCMA STAFF (Based on EB Utilization)	$250,000	$0	$250,000	$250,000				$250,000		$250,000
4.9	Uncommitted		$0	$0							$0
4.0	Right of Way	$200,000	$0	$200,000	$200,000	$200,000	$0	$0	$0	$0	$200,000
4.1	Utilities (Future)	$200,000	$0	$200,000	$200,000	$200,000					$200,000
4.2			$0	$0							$0
4.3	ACCMA STAFF		$0	$0							$0
4.9	Uncommitted		$0	$0							$0
5.0	Construction Engineering	$900,000	$0	$900,000	$900,000	$900,000	$0	$0	$0	$0	$900,000
5.1	Construction Management (Future)	$500,000	$0	$500,000	$500,000	$500,000					$500,000
5.2	Design Consultant Support	$200,000	$0	$200,000	$200,000	$200,000					$200,000
5.3	ACCMA STAFF	$200,000	$0	$200,000	$200,000	$200,000					$200,000
5.9	Uncommitted		$0	$0							$0
6.0	Major Contract Capital Payments	$7,400,000	$0	$7,400,000	$7,400,000	$1,300,000	$0	$0	$0	$6,100,000	$7,400,000
6.1	Civil Improvements (Future)	$7,400,000	$0	$7,400,000	$7,400,000	$1,300,000				$6,100,000	$7,400,000
6.2			$0	$0							$0
6.3	ACCMA STAFF		$0	$0							$0
6.9	Uncommitted		$0	$0							$0
99.0	TOTAL	$16,500,000	$379,491	$16,120,509	$16,500,000	$3,400,000	$1,000,000	$0	$6,000,000	$6,100,000	$16,500,000

Assumptions
Project cost assumes use of existing pavement with no additional widening other than that done by 424.0 - I-580 WB HOV Lane Project.

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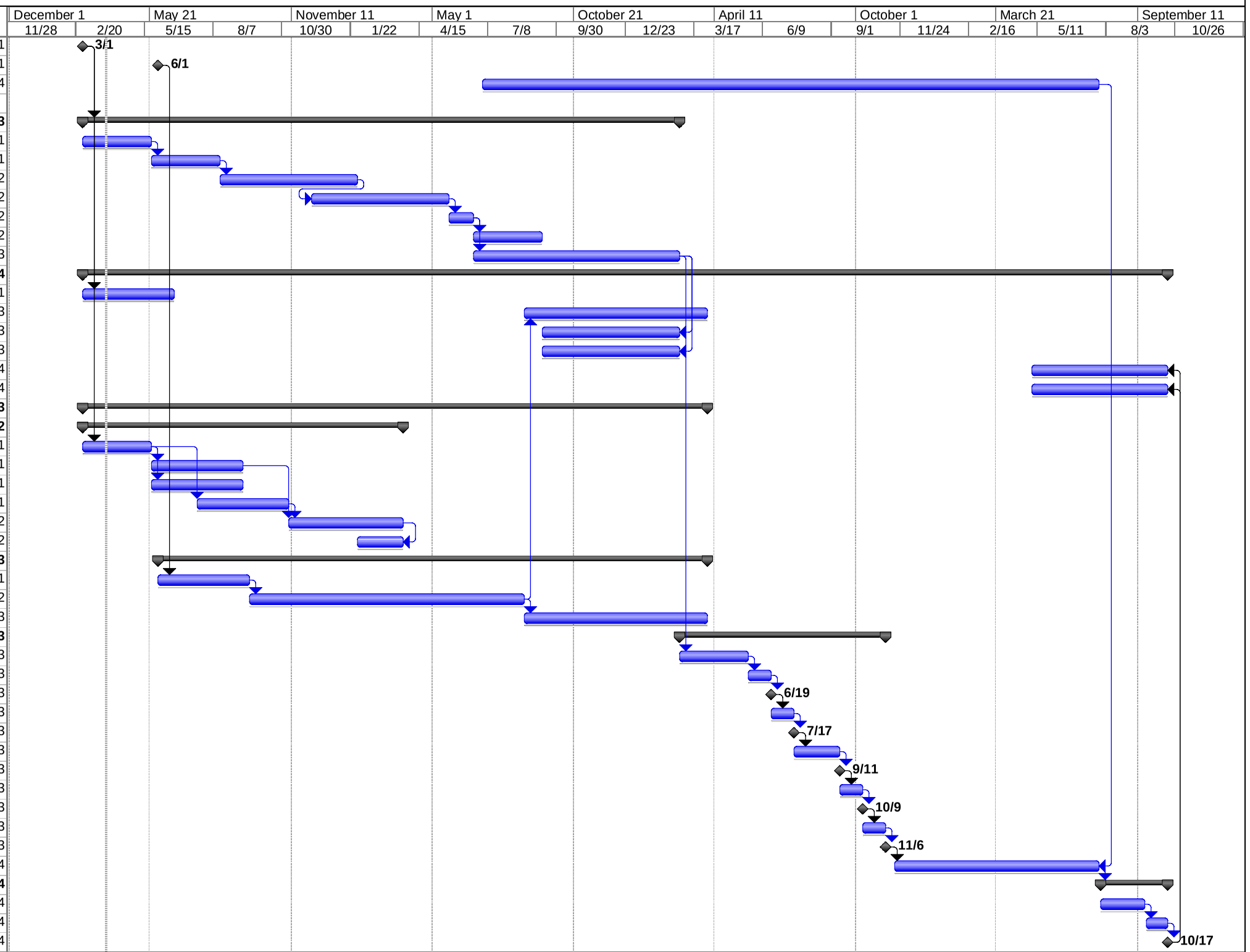
Westbound I-580 Express Lane Implementation Schedule

ID	Task Name	Duration	Start	Finish
1	Begin I-580 WB Express Lane Project	0 days	Tue 3/1/11	Tue 3/1/11
2	TOAR/Revenue Analysis Complete	0 mons	Wed 6/1/11	Wed 6/1/11
3	I-580 WB HOV Lane Project Construction	27 mons	Mon 7/2/12	Fri 7/25/14
4				
5	**Project Development**	**522 days**	**Tue 3/1/11**	**Wed 2/27/13**
6	RFP for Project Development	3 mons	Tue 3/1/11	Mon 5/23/11
7	Prepare Preliminary Geometrics	3 mons	Tue 5/24/11	Mon 8/15/11
8	Prepare Environmental Technical Studies	6 mons	Tue 8/16/11	Mon 1/30/12
9	Draft Environmental & Project Approval Doc.	6 mons	Tue 12/6/11	Mon 5/21/12
10	Public Circulation/Meeting	22 days	Tue 5/22/12	Wed 6/20/12
11	Final Environmental & Project Approval Doc.	3 mons	Thu 6/21/12	Wed 9/12/12
12	Plans Specifications & Estimate	9 mons	Thu 6/21/12	Wed 2/27/13
13	**Agreements**	**949 days**	**Tue 3/1/11**	**Fri 10/17/14**
14	Caltrans Design Cooperative Agreement	4 mons	Tue 3/1/11	Mon 6/20/11
15	FHWA Tolling Agreement	8 mons	Wed 8/22/12	Tue 4/2/13
16	Construction Cooperative Agreement	6 mons	Thu 9/13/12	Wed 2/27/13
17	Caltrans Maintenance & Operations Agreemer	6 mons	Thu 9/13/12	Wed 2/27/13
18	BATA Toll Collection Agreement	6 mons	Mon 5/5/14	Fri 10/17/14
19	CHP Enforcement Agreement	6 mons	Mon 5/5/14	Fri 10/17/14
20	**Tolling System Development**	**546 days**	**Tue 3/1/11**	**Tue 4/2/13**
21	**System Manager**	**280 days**	**Tue 3/1/11**	**Mon 3/26/12**
22	RFP for System Manager	3 mons	Tue 3/1/11	Mon 5/23/11
23	Concept Of Operations Report	4 mons	Tue 5/24/11	Mon 9/12/11
24	Enforcement Plan	4 mons	Tue 5/24/11	Mon 9/12/11
25	Develop Tolling Policy	4 mons	Tue 7/19/11	Mon 11/7/11
26	Systems Engineering Management Plan (	5 mons	Tue 11/8/11	Mon 3/26/12
27	Expression of Interest	2 mons	Tue 1/31/12	Mon 3/26/12
28	**System Integrator**	**480 days**	**Wed 6/1/11**	**Tue 4/2/13**
29	RFP for System Integrator	4 mons	Wed 6/1/11	Tue 9/20/11
30	Electronic Tolling System (ETS) Design	12 mons	Wed 9/21/11	Tue 8/21/12
31	Tolling Agreement	8 mons	Wed 8/22/12	Tue 4/2/13
32	**Civil Construction Contract Preparation**	**180 days**	**Thu 2/28/13**	**Wed 11/6/13**
33	Prepare Draft Contract (DC)	3 mons	Thu 2/28/13	Wed 5/22/13
34	District Response	1 mon	Thu 5/23/13	Wed 6/19/13
35	Ready to List (RTL)	0 days	Wed 6/19/13	Wed 6/19/13
36	Listing Period	1 mon	Thu 6/20/13	Wed 7/17/13
37	Advertise	0 days	Wed 7/17/13	Wed 7/17/13
38	Advertising Period	2 mons	Thu 7/18/13	Wed 9/11/13
39	Bid Opening	0 days	Wed 9/11/13	Wed 9/11/13
40	Award Period	1 mon	Thu 9/12/13	Wed 10/9/13
41	Award	0 days	Wed 10/9/13	Wed 10/9/13
42	Approval Period	1 mon	Thu 10/10/13	Wed 11/6/13
43	Begin Construction	0 days	Wed 11/6/13	Wed 11/6/13
44	End Construction	9 mons	Mon 11/18/13	Fri 7/25/14
45	**Tolling Equipment**	**60 days**	**Mon 7/28/14**	**Fri 10/17/14**
46	Install Tolling Equipment	2 mons	Mon 7/28/14	Fri 9/19/14
47	Test Tolling Equipment	1 mon	Mon 9/22/14	Fri 10/17/14
48	Open Express Lane	0 days	Fri 10/17/14	Fri 10/17/14



Project: I-580 WB HOT Implementatio
Date: Tue 3/29/11

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

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