



AGENDA

State Route 91 Advisory Committee Meeting

Committee Members

Berwin Hanna, RCTC, Chairman
Al Murray, OCTA, Vice Chairman
Kevin Jeffries, RCTC
Bob Magee, RCTC
Mark A. Murphy
Shawn Nelson, OCTA
Tim Shaw, OCTA
Karen Spiegel, RCTC
Tom Tait, OCTA
John Tavaglione, RCTC
Adam Rush, RCTC, Alternate
Michael Hennessey, OCTA, Alternate
Todd Spitzer, OCTA, Alternate
Ryan Chamberlain, Caltrans Dist. 12, Ex-Officio
John Bulinski, Caltrans Dist. 8, Ex-Officio
Ed Graham, SBCTA, Ex-Officio

City of Corona - City Hall
400 South Vicentia Avenue
Council Chambers - First Floor
Corona, California
Friday, June 2, 2017 at 9:00 a.m.

Teleconference Site:

Lakeland Village Community Center
16275 Grand Avenue
Building D
Lake Elsinore, CA, 92530



AGENDA

State Route 91 Advisory Committee Meeting

Any person with a disability who requires a modification or accommodation in order to participate in this meeting should contact the OCTA Clerk of the Board, telephone (714) 560-5676, no less than two (2) business days prior to this meeting to enable OCTA to make reasonable arrangements to assure accessibility to this meeting.

Agenda descriptions are intended to give members of the public a general summary of items of business to be transacted or discussed. The posting of the recommended actions does not indicate what action will be taken. The Committee may take any action which it deems to be appropriate on the agenda item and is not limited in any way by the notice of the recommended action.

All documents relative to the items referenced in this agenda are available for public inspection at www.octa.net or through the Clerk of the Board's office at the OCTA Headquarters, 600 South Main Street, Orange, California.

Call to Order

Pledge of Allegiance

Member Jeffries

1. Public Comments

Special Calendar

2. Election of New State Route 91 Advisory Committee Chair

3. Election of New State Route 91 Advisory Committee Vice Chair

Consent Calendar (Items 4 and 5)

All items on the Consent Calendar are to be approved in one motion unless a Committee Member or a member of the public requests separate action or discussion on a specific item.

4. Approval of Minutes

Approval of the minutes of State Route 91 Advisory Committee meeting of December 2, 2016.



5. Joint 91 Express Lanes Monthly Status Report

Kirk Avila, General Manager, 91 Express Lanes, Orange County Transportation Authority
Michael Blomquist, Toll Program Director, Riverside County Transportation Commission

Overview

The 91 Express Lanes status report for the month of April 2017 has been prepared for State Route 91 Advisory Committee review. The report highlights operational and financial activities for the both the Orange County Transportation Authority and Riverside County Transportation Commission segments of the 91 Express Lanes.

Recommendation

Receive and file the 91 Express Lanes Monthly Status Report for the month of April 2017.

Regular Calendar

6. 2017 State Route 91 Implementation Plan

Alison Army, Senior Transportation Analyst
Orange County Transportation Authority

Overview

The Orange County Transportation Authority annually prepares a long-range plan for improvements along the State Route 91 corridor between State Route 57 in Orange County and Interstate 15 in Riverside County. The plan includes a listing of potential improvements, preliminary cost estimates, and potential implementation timeframes. These improvements are sponsored by various agencies, including the Riverside County Transportation Commission and the California Department of Transportation. The 2017 State Route 91 Implementation Plan includes the latest project information and serves as reference for future project development efforts.

Recommendation

Receive and file as an information item.



Discussion Items

7. 91 Express Lanes - Riverside Operations Report - First Seven Weeks

Jennifer Crosson, Toll Operations Manager
Riverside County Transportation Commission

Riverside County Transportation Commission staff will provide an update on the operating results since March 20, 2017, for the 91 Express Lanes in Riverside County.

8. General Manager's Report – Orange County Transportation Authority

9. General Manager's Report – Riverside County Transportation Commission

10. Committee Members' Reports

11. Closed Session

There are no Closed Session items scheduled.

12. Adjournment

The next regularly scheduled meeting of this Committee will be held at **9:00 a.m. on Friday, September 8, 2017**, at the Orange County Transportation Authority Headquarters, 550 South Main Street, Board Room – Conference Room 07, Orange, California.



MINUTES

State Route 91 Advisory Committee Meeting

Committee Members Present

*Berwin Hanna, RCTC, Chairman
Al Murray, OCTA, Vice Chairman
Bob Magee, RCTC
Karen Spiegel, RCTC
Tom Tait, OCTA
Kevin Jeffries, RCTC, Alternate
(Teleconference)
Tim Shaw, OCTA, Alternate
John Bulinski, Caltrans Dist. 8,
Ex-Officio*

Committee Members Absent

*Ben Benoit, RCTC
Michael Hennessey, OCTA
Shawn Nelson, OCTA
John Tavaaglione, RCTC
Jeffrey Lalloway, OCTA, Alternate
Todd Spitzer, OCTA
Ed Graham, SANBAG, Ex-Officio
Ryan Chamberlain, Caltrans Dist. 12,
Ex-Officio
Lisa Ramsey for Ryan Chamberlain,
Caltrans District 12, Ex-Officio*

Staff Present

*Darrell Johnson, OCTA, Chief Executive Officer
Anne Mayer, RCTC, Executive Director
Kirk Avila, OCTA, General Manager,
91 Express Lanes
Michael Blomquist, RCTC, Toll Program Director
Olga Prado, OCTA, Assistant Clerk of the Board
Gina Claridge, OCTA, Deputy Clerk of the Board
Haviva Shane, RCTC, Legal Counsel
James Donich, OCTA, General Counsel
OCTA and RCTC Staff and Members of the
General Public*

Call to Order

The December 2, 2016 regular meeting of the State Route 91 Advisory Committee was called to order by Committee Chairman Hanna at 9:02 a.m.

Pledge of Allegiance

Member Spiegel led in the Pledge of Allegiance.

1. Public Comments

No public comments were received.



MINUTES

State Route 91 Advisory Committee Meeting

Special Calendar

2. Proposed State Route 91 Advisory Committee Meeting Calendar for 2017

A motion was made by Committee Vice Chairman Murray, seconded by Member Spiegel, and following a roll call vote, declared passed 7-0, by those present, to adopt the 2017 State Route 91 Advisory Committee meeting calendar.

Consent Calendar (Items 3 through 6)

3. Approval of Minutes

Member Spiegel pulled this item to inquire on the policy of releasing minutes to the public prior to the minutes being released to the Committee Members.

James Donich, Orange County Transportation Authority (OCTA) General Counsel, responded that the release of the draft minutes to the public was pursuant to a California Public Records Act request.

Member Spiegel asked that in the future, the Board be notified when draft minutes are released to the public.

A motion was made by Committee Vice Chairman Murray, seconded by Member Tait, and following a roll call vote, declared passed 7-0, by those present, to approve the minutes of the December 4, 2015 meeting.

4. Approval of Minutes

Member Spiegel pulled this item as part of Item 3 to inquire on the policy of releasing minutes to the public prior to the minutes being released to the Committee Members.

Committee Vice Chairman Murray pulled this item to note a minor typo on Page 2 of the minutes, Item 3 (duplicate wording), and requested the correction be made.

A motion was made by Committee Vice Chairman Murray, seconded by Member Tait, and following a roll call vote, declared passed 7-0, by those present, to approve the minutes of the March 4, 2016 meeting.



MINUTES

State Route 91 Advisory Committee Meeting

5. 91 Express Lanes Monthly Status Reports

A motion was made by Committee Vice Chairman Murray, seconded by Member Tait, and following a roll call vote, declared passed 7-0, by those present, to receive and file the 91 Express Lanes Monthly Status Reports for the months of November 2015 through September 2016.

6. Fiscal Year 2015-16 91 Express Lanes Annual Financial Statements

A motion was made by Committee Vice Chairman Murray, seconded by Member Tait, and following a roll call vote, declared passed 7-0, to by those present, to receive and file the Fiscal Year 2015-16 91 Express Lanes Annual Financial Statements.

Regular Calendar

There were no Regular Calendar matters.

Discussion Items

7. 91 Express Lanes Pavement Rehabilitation and Changeable Message Signs Replacement Project

Rose Casey, Director of Highway Programs, provided a PowerPoint presentation as follows:

- Project Recap;
- Performance Report – By the Numbers;
- Summary of Traffic Conditions;
- Multimedia Communications Program:
- The Road Ahead;
- RJ Noble Asphalt Plant in Orange;
- Asphalt Rollers – Weekend #1;
- Paving Operation – Weekend # 8;
- Installing Channelizers (a short video clip was presented as part of this slide); and
- Completed Work – Driving Eastbound.



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State Route 91 Advisory Committee Meeting

7. (Continued)

A discussion ensued regarding:

- Enhancements of new changeable message signs that use LED technology;
- Pavement is expected to have a 20-year life;
- Staff will return with lessons learned as other projects are looked at;
- Thanks to staff for collaborative efforts between the two agencies;
- Recognition to staff for improvements on the freeway; and
- Make-up dates for postponed work due to weather, and ensuring that OCTA staff notifies the Riverside County Transportation Commission (RCTC) if work is postponed in order to announce dates to residents.

8. 91 Project Update

David Thomas, RCTC Program Manager, provided an update on the construction of the 91 corridor improvement project and a PowerPoint presentation as follows:

- Project is Approximately 91 Percent Complete;
- Ramp and Local Street Activities and Timing;
- Background on the Project Limits; and
- Numerous Photos/Images of the Project Were Shown.

A discussion ensued regarding:

- Opening of the Main Street on-ramp to Interstate 15 (I-15);
- Estimated time savings using the Express Lanes in both directions during the peak period;
- Amount of people estimated to use the service daily; and
- Acknowledgement to staff, the formation of the State Route 91 (SR-91) Advisory Committee, and the diligence of its Members, predecessors, and their vision to see this project come forward.



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State Route 91 Advisory Committee Meeting

9. 91 Express Lanes Operational Readiness Update

Jennifer Cross, Toll Operations Manager, RCTC, provided an update on the 91 Express Lanes operational readiness and provided a PowerPoint presentation as follows:

- OCTA and RCTC Partnership;
- Express Lanes Overview;
- Pre-Operations Activity;
- Toll Systems;
- RCTC In Lane Toll System;
- Traffic Operations Center;
- Customer Service Center;
- On Road Signs;
- RCTC Staffing;
- Cofiroute Staffing;
- Support Contracts;
- Commission Adoption;
- Full Trip Toll Rates;
- Pre-opening Activities;
- Marketing Activities; and
- 91 Express Lanes (video clip was shown).

A short discussion ensued regarding:

- Anticipated level of compliance with the new system;
- Difference in pricing for westbound and eastbound toll rates, and level of service (LOS) were discussed (LOS: A, B, C, and D); and
- Percentage of people estimated to take the whole route/percentage of people estimated to exit in Corona.

10. Riverside County I-15 Express Lanes

Michael Blomquist, Toll Program Director, RCTC, provided background information and a PowerPoint presentation related to the planning of the I-15 Express Lanes project as follows:

- Project Features;
- Project Benefits;
- Access Points;
- Median Improvements;



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State Route 91 Advisory Committee Meeting

10. (Continued)

- Project Schedule;
- Project Costs and Funding/Financing;
- Toll Features;
- RCTC Operations Center; and
- Project Contact Information.

A discussion ensued regarding:

- Funding for project costs;
- Additional toll lanes being added between SR-91 and the I-15 (going south) to Cajalco Road;
- The flyover being worked on (from eastbound SR-91 over to southbound I-15) will be operational in the next number of months for express lanes traffic;
- The 91 Express Lanes (both OCTA and RCTC portions) do not use dynamic pricing, but rather "time of day pricing." Hourly toll changes are based on time-day-pricing;
- Hourly toll changes are based on traffic volumes, and if needed, tolls are changed on a quarterly basis;
- Dynamic pricing was discussed extensively with the Interstate 405 project, and staff is excited to learn from the I-15 project; and
- I-15 traffic volumes are lower than the SR-91 traffic volumes, therefore, congestions is less.

11. General Manager's Report

Kirk Avila, OCTA General Manager of the 91 Express Lanes, reported that:

- The telephone systems at the administrative offices in Anaheim and the Call Center have been upgraded to match OCTA's current telephone system.
- OCTA has approximately \$110 million dollars of outstanding debt for the 91 Express Lanes, and earlier this week, the ratings from Fitch Ratings were reaffirmed at the A level, and as of today, OCTA has an A rating from Moody's and an AA minus rating from Standard and Poor's.
- As of November 26, 2016, traffic volumes are down approximately 1 percent, and revenues and revenues are 2.5 percent. The reason for the decrease in traffic volumes compared to the previous years is due to the weekend closures due to the pavement closures; however, we are in line to the projected numbers with respect to projected ridership and revenues.



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State Route 91 Advisory Committee Meeting

12. Committee Members' Reports

Committee Vice Chairman Murray thanked Rose Casey, Director of Highway Programs, and staff for their hard work, efforts, an outreach to get the 91 Express Lanes Pavement Rehabilitation project going.

Committee Chair Hanna provided remarks on the upcoming Pearl Harbor national holiday on December 7, 2017. Committee Chairman Hanna reported that the City of Norco is proud to celebrate Pearl Harbor Day for the 12th year in a row, which honors all veterans from all services. The event starts at 10:00 a.m., and will take place at the Naval Weapons Station in Norco. He invited everyone to attend.

Chairman Hanna adjourned the meeting with a minute of silence in memory of the victims of the mass shooting in San Bernardino, California, last year.

13. Closed Session

A Closed Session was not conducted at this meeting.

14. Adjournment

The meeting adjourned at 10:06 a.m., and the next regularly scheduled meeting of this Committee will be held at **9:00 a.m. on Friday, March 3, 2016**, at:

City of Corona – City Hall
400 South Vicentia Avenue
Council Chambers – First Floor
Corona, California

ATTEST



Olga Prado
OCTA Assistant Clerk of the
Board

Berwin Hanna
Committee Chairman



June 2, 2017

To: State Route 91 Advisory Committee

From:  Kirk Avila, General Manager, OCTA 91 Express Lanes
 Michael Blomquist, Toll Program Director, RCTC 91 Express Lanes

Subject: Joint 91 Express Lanes Monthly Status Report

Overview

The 91 Express Lanes status report for the month of April 2017 has been prepared for State Route 91 Advisory Committee review. The report highlights operational and financial activities for both the Orange County Transportation Authority and Riverside County Transportation Commission segments of the 91 Express Lanes.

Recommendation

Receive and file the 91 Express Lanes Monthly Status Report for the month of April 2017.

Background

The joint monthly status report is prepared to document 91 Express Lanes activity and is provided for State Route 91 Advisory Committee review.

Discussion

The April 2017 status report for the 91 Express Lanes is provided in Attachment A. For the Orange County Transportation Authority (OCTA) segment, traffic volume in the 91 Express Lanes was 1,294,219, which is an increase of 11.9 percent when compared with the same period last year. Gross potential toll revenue for the month was \$3,883,595, which is an increase of 9.2 percent from the prior year's total of \$3,557,126. For fiscal year (FY) 2016-17, year-to-date (YTD) traffic volume and gross potential toll revenue as of the end of April 2017 increased when compared to the prior year,

with YTD traffic volume increasing by 2.1 percent and YTD gross potential toll revenue up by 4.6 percent for the OCTA portion.

For the Riverside County Transportation Commission segment, traffic volume for the month of April 2017 was 1,150,634, which exceeded Stantec's projections by 117.2 percent. Gross potential toll revenue was \$2,341,030, which exceeded Stantec's projections by 167.5 percent. For FY 2016-17, YTD traffic volume was 1,625,333 and YTD gross potential toll revenue at \$3,176,321.

Staff will continue to closely monitor traffic and revenue data and report back to the State Route 91 Advisory Committee regularly.

Summary

The joint 91 Express Lanes status report for the month of April 2017 is provided for review. The report highlights operational and financial activities.

Attachments

- A. 91 Express Lanes Status Report – As of April 30, 2017



**Orange County Transportation Authority
Riverside County Transportation Commission**



**Status Report
April 2017**

As of April 30, 2017

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OPERATIONS OVERVIEW OCTA

TRAFFIC AND REVENUE STATISTICS FOR OCTA

Total traffic volume on the OCTA 91 Express Lanes for April 2017 was 1,294,219. This represents a daily average of 43,141. This is an 11.9% increase in total traffic volume from the same period last year when traffic levels totaled 1,156,174. Potential toll revenue for the month was \$3,883,595 which represents an increase of 9.2% from the prior year's total of \$3,557,126. Carpool percentage for the month was 24.02% as compared to the previous year's rate of 22.02%.

Month-to-date traffic and revenue data are summarized in the table below. The following trip and revenue statistics tables represent all trips taken on the 91 Express Lanes and associated potential revenue for the month of April 2017.

Current Month-to-Date (MTD) as of April 30, 2017

	Apr-17 MTD Actual	Stantec MTD Projected	# Variance	% Variance	Apr-16 MTD Actual	Yr-to-Yr % Variance
Trips						
Full Toll Lanes	983,334	935,167	48,167	5.2%	901,581	9.1%
3+ Lanes	310,885	281,047	29,838	10.6%	254,593	22.1%
Total Gross Trips	1,294,219	1,216,214	78,005	6.4%	1,156,174	11.9%
Revenue						
Full Toll Lanes	\$3,812,585	\$3,744,164	\$68,421	1.8%	\$3,488,677	9.3%
3+ Lanes	\$71,010	\$81,575	(\$10,565)	(13.0%)	\$68,449	3.7%
Total Gross Revenue	\$3,883,595	\$3,825,740	\$57,855	1.5%	\$3,557,126	9.2%
Average Revenue per Trip						
Average Full Toll Lanes	\$3.88	\$4.00	(\$0.12)	(3.0%)	\$3.87	0.3%
Average 3+ Lanes	\$0.23	\$0.29	(\$0.06)	(20.7%)	\$0.27	(14.8%)
Average Gross Revenue	\$3.00	\$3.15	(\$0.15)	(4.8%)	\$3.08	(2.6%)

The 2017 fiscal year-to-date (YTD) traffic volume is 2.1% higher when compared with the same period last year. The 2017 fiscal year-to-date revenue is 4.6% higher than for the same period last year. Year-to-date average revenue per-trip is \$3.12.

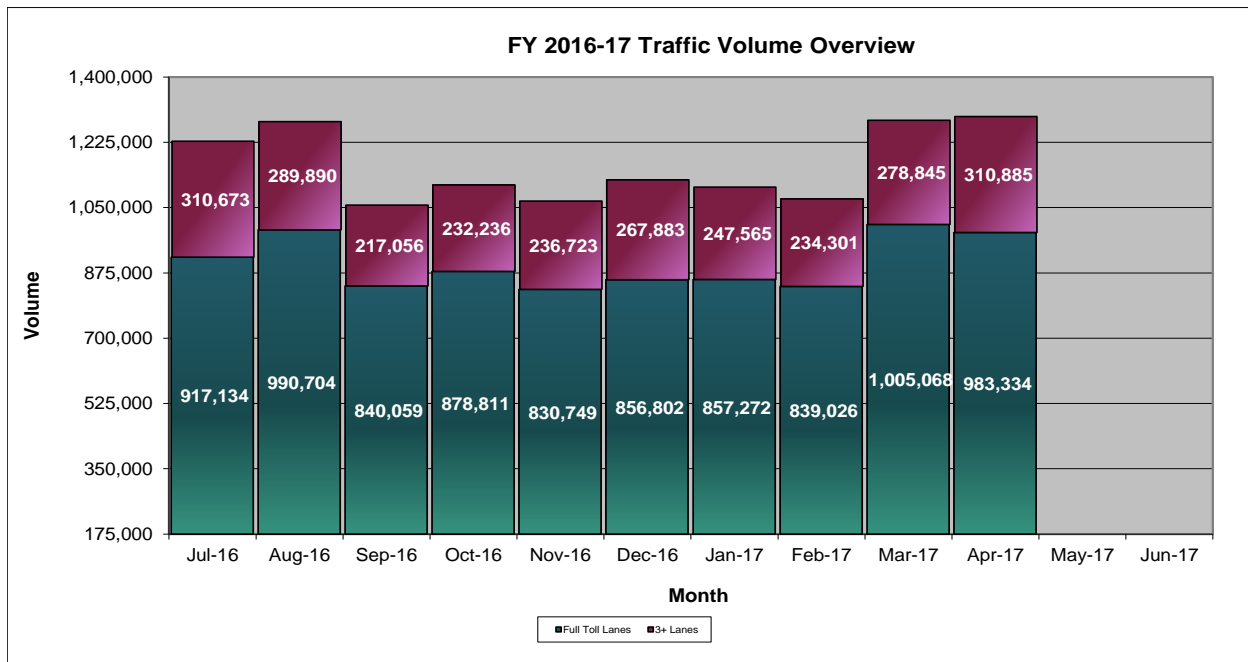
Fiscal year-to-date traffic and revenue data are summarized in the table below. The following trip and revenue statistics tables represent all trips taken on the 91 Express Lanes and associated potential revenue for the months of July 2016 through April 2017.

FY 2015-16 Year to Date as of April 30, 2017

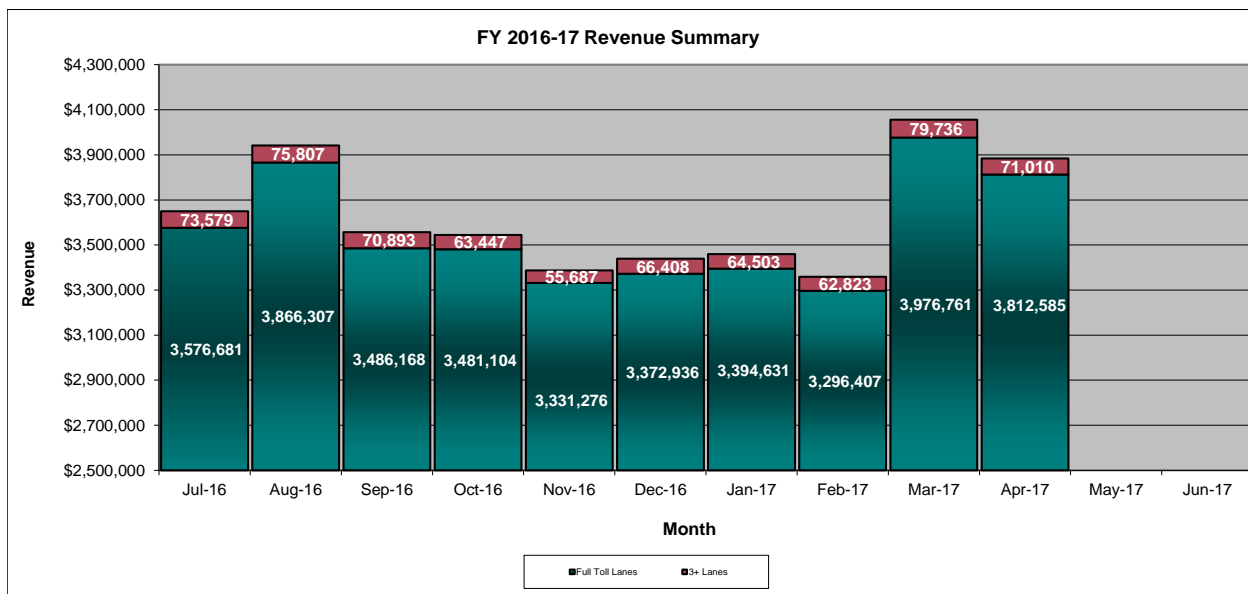
Trips	FY 2016-17 YTD Actual	Stantec YTD Projected	# Variance	% Variance	FY 2015-16 YTD Actual	Yr-to-Yr % Variance
Full Toll Lanes	9,006,650	8,910,499	96,151	1.1%	8,779,739	2.6%
3+ Lanes	2,628,459	2,777,461	(149,002)	(5.4%)	2,616,656	0.5%
Total Gross Trips	11,635,109	11,687,960	(52,851)	(0.5%)	11,396,395	2.1%
Revenue						
Full Toll Lanes	\$35,628,887	\$35,794,833	(\$165,946)	(0.5%)	\$34,027,450	4.7%
3+ Lanes	\$683,893	\$823,614	(\$139,721)	(17.0%)	\$691,941	(1.2%)
Total Gross Revenue	\$36,312,780	\$36,618,447	(\$305,667)	(0.8%)	\$34,719,391	4.6%
Average Revenue per Trip						
Average Full Toll Lanes	\$3.96	\$4.02	(\$0.06)	(1.5%)	\$3.88	2.1%
Average 3+ Lanes	\$0.26	\$0.30	(\$0.04)	(13.3%)	\$0.26	0.0%
Average Gross Revenue	\$3.12	\$3.13	(\$0.01)	(0.3%)	\$3.05	2.3%

Traffic and Revenue Summary

The chart below reflects the total trips breakdown between Full Toll trips and HOV3+ trips for FY 2016-17 on a monthly basis.



The chart below reflects the gross potential revenue breakdown between Full Toll trips and HOV3+ trips for FY 2016-17 on a monthly basis.



Peak traffic hour in the eastbound direction reached or exceeded 90% or more of defined capacity seven times during the month of April 2017. As demonstrated on the next chart, westbound peak hour traffic volumes top out at 75% of defined capacity

EASTBOUND PEAK-HOUR VOLUMES

PM Time	Monday 04/03/17				Tuesday 04/04/17				Wednesday 04/05/17				Thursday 04/06/17				Friday 04/07/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
1400 - 1500	\$4.85	312	2,144	63%	\$4.85	372	2,521	74%	\$4.85	391	2,535	75%	\$5.00	403	2,761	81%	\$3.30	462	3,004	88%
1500 - 1600	\$5.20	499	2,944	87%	\$4.65	484	2,867	84%	\$4.15	501	2,911	86%	\$4.90	497	2,976	88%	\$10.45	561	2,891	85%
1600 - 1700	\$4.50	449	2,886	85%	\$6.35	487	2,869	84%	\$7.60	486	2,846	84%	\$10.10	502	2,965	87%	\$10.25	523	2,973	87%
1700 - 1800	\$5.00	461	2,824	83%	\$5.70	474	2,937	86%	\$7.10	507	2,967	87%	\$9.30	502	2,836	83%	\$6.60	527	2,976	88%
1800 - 1900	\$5.20	563	2,828	83%	\$3.70	527	2,866	84%	\$3.70	520	2,784	82%	\$4.55	557	2,954	87%	\$6.15	527	2,376	70%
1900 - 2000	\$3.65	397	1,651	49%	\$3.65	539	2,381	70%	\$3.65	498	2,394	70%	\$5.30	502	2,207	65%	\$5.75	471	1,815	53%

PM Time	Monday 04/10/17				Tuesday 04/11/17				Wednesday 04/12/17				Thursday 04/13/17				Friday 04/14/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
1400 - 1500	\$4.85	330	2,344	69%	\$4.85	379	2,612	77%	\$4.85	395	2,667	78%	\$5.00	437	2,964	87%	\$3.30	436	2,948	87%
1500 - 1600	\$5.20	465	2,823	83%	\$4.65	493	3,063	90%	\$4.15	457	2,958	87%	\$4.90	517	3,093	91%	\$10.45	531	2,800	82%
1600 - 1700	\$4.50	447	2,952	87%	\$6.35	488	3,012	89%	\$7.60	462	2,953	87%	\$10.10	516	2,850	84%	\$10.25	499	2,831	83%
1700 - 1800	\$5.00	445	2,918	86%	\$5.70	532	3,088	91%	\$7.10	479	2,925	86%	\$9.30	513	2,821	83%	\$6.60	492	2,574	76%
1800 - 1900	\$5.20	514	2,719	80%	\$3.70	490	2,811	83%	\$3.70	523	2,854	84%	\$4.55	528	2,960	87%	\$6.15	412	1,819	54%
1900 - 2000	\$3.65	354	1,600	47%	\$3.65	419	1,861	55%	\$3.65	469	2,231	66%	\$5.30	540	2,541	75%	\$5.75	393	1,400	41%

PM Time	Monday 04/17/17				Tuesday 04/18/17				Wednesday 04/19/17				Thursday 04/20/17				Friday 04/21/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
1400 - 1500	\$4.85	345	2,382	70%	\$4.85	355	2,655	78%	\$4.85	407	2,693	79%	\$5.00	394	2,827	83%	\$3.30	413	3,040	89%
1500 - 1600	\$5.20	498	2,889	85%	\$4.65	480	2,906	85%	\$4.15	450	2,870	84%	\$4.90	424	2,781	82%	\$10.45	534	2,871	84%
1600 - 1700	\$4.50	520	3,037	89%	\$6.35	481	2,862	84%	\$7.60	455	2,869	84%	\$10.10	500	3,004	88%	\$10.25	419	2,372	70%
1700 - 1800	\$5.00	471	2,944	87%	\$5.70	513	3,141	92%	\$7.10	525	2,991	88%	\$9.30	501	3,040	89%	\$6.60	492	2,853	84%
1800 - 1900	\$5.20	461	2,312	68%	\$3.70	571	3,036	89%	\$3.70	480	2,965	87%	\$4.55	570	3,032	89%	\$6.15	550	2,542	75%
1900 - 2000	\$3.65	347	1,415	42%	\$3.65	413	1,781	52%	\$3.65	406	1,983	58%	\$5.30	526	2,496	73%	\$5.75	384	1,726	51%

PM Time	Monday 04/24/17				Tuesday 04/25/17				Wednesday 04/26/17				Thursday 04/27/17				Friday 04/28/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
1400 - 1500	\$4.85	333	2,424	71%	\$4.85	360	2,551	75%	\$4.85	366	2,727	80%	\$5.00	388	2,743	81%	\$3.30	471	2,946	87%
1500 - 1600	\$5.20	512	3,008	88%	\$4.65	490	3,123	92%	\$4.15	470	2,946	87%	\$4.90	487	2,998	88%	\$10.45	592	2,908	86%
1600 - 1700	\$4.50	436	2,779	82%	\$6.35	469	2,909	86%	\$7.60	482	2,889	85%	\$10.10	458	2,892	85%	\$10.25	504	2,867	84%
1700 - 1800	\$5.00	482	3,197	94%	\$5.70	503	3,113	92%	\$7.10	488	3,029	89%	\$9.30	504	2,971	87%	\$6.60	520	2,951	87%
1800 - 1900	\$5.20	475	2,346	69%	\$3.70	522	2,814	83%	\$3.70	534	2,876	85%	\$4.55	556	2,988	88%	\$6.15	494	2,445	72%
1900 - 2000	\$3.65	332	1,353	40%	\$3.65	370	1,626	48%	\$3.65	418	2,089	61%	\$5.30	438	2,036	60%	\$5.75	444	1,781	52%

WESTBOUND PEAK-HOUR VOLUMES

AM Time	Monday 04/03/17				Tuesday 04/04/17				Wednesday 04/05/17				Thursday 04/06/17				Friday 04/07/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
0400 - 0500	\$2.90	538	1,884	55%	\$2.90	555	1,876	55%	\$2.90	583	1,858	55%	\$2.90	553	1,807	53%	\$2.90	469	1,539	45%
0500 - 0600	\$4.65	593	2,320	68%	\$4.65	680	2,470	73%	\$4.65	630	2,399	71%	\$4.65	670	2,413	71%	\$4.40	591	2,186	64%
0600 - 0700	\$4.85	461	1,873	55%	\$4.85	466	1,810	53%	\$4.85	499	1,896	56%	\$4.85	451	1,884	55%	\$4.65	436	1,657	49%
0700 - 0800	\$5.35	385	1,771	52%	\$5.35	368	1,710	50%	\$5.35	380	1,831	54%	\$5.35	388	1,733	51%	\$5.20	375	1,639	48%
0800 - 0900	\$4.85	263	1,653	49%	\$4.85	255	1,780	52%	\$4.85	294	1,715	50%	\$4.85	289	1,744	51%	\$4.65	273	1,520	45%
0900 - 1000	\$3.80	266	1,764	52%	\$3.80	306	1,947	57%	\$3.80	358	2,048	60%	\$3.80	321	2,006	59%	\$3.80	242	1,506	44%

AM Time	Monday 04/10/17				Tuesday 04/11/17				Wednesday 04/12/17				Thursday 04/13/17				Friday 04/14/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
0400 - 0500	\$2.90	517	1,847	54%	\$2.90	535	1,857	55%	\$2.90	538	1,880	55%	\$2.90	532	1,832	54%	\$2.90	390	1,316	39%
0500 - 0600	\$4.65	609	2,391	70%	\$4.65	518	2,082	61%	\$4.65	625	2,387	70%	\$4.65	605	2,411	71%	\$4.40	537	2,061	61%
0600 - 0700	\$4.85	457	1,851	54%	\$4.85	490	1,979	58%	\$4.85	435	1,871	55%	\$4.85	479	1,812	53%	\$4.65	373	1,439	42%
0700 - 0800	\$5.35	328	1,625	48%	\$5.35	379	1,922	57%	\$5.35	352	1,840	54%	\$5.35	321	1,687	50%	\$5.20	271	1,305	38%
0800 - 0900	\$4.85	241	1,714	50%	\$4.85	262	1,884	55%	\$4.85	244	1,981	58%	\$4.85	231	1,633	48%	\$4.65	200	1,161	34%
0900 - 1000	\$3.80	267	1,783	52%	\$3.80	262	1,958	58%	\$3.80	294	1,998	59%	\$3.80	291	1,882	55%	\$3.80	235	1,372	40%

AM Time	Monday 04/17/17				Tuesday 04/18/17				Wednesday 04/19/17				Thursday 04/20/17				Friday 04/21/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
0400 - 0500	\$2.90	531	1,996	59%	\$2.90	560	2,106	62%	\$2.90	555	1,996	59%	\$2.90	552	1,791	53%	\$2.90	475	1,662	49%
0500 - 0600	\$4.65	639	2,460	72%	\$4.65	619	2,551	75%	\$4.65	657	2,395	70%	\$4.65	620	2,428	71%	\$4.40	562	2,163	64%
0600 - 0700	\$4.85	446	1,883	55%	\$4.85	493	1,910	56%	\$4.85	472	1,873	55%	\$4.85	497	1,808	53%	\$4.65	426	1,654	49%
0700 - 0800	\$5.35	352	1,775	52%	\$5.35	359	1,865	55%	\$5.35	360	1,781	52%	\$5.35	380	1,861	55%	\$5.20	350	1,570	46%
0800 - 0900	\$4.85	292	1,778	52%	\$4.85	280	1,942	57%	\$4.85	262	1,708	50%	\$4.85	267	1,810	53%	\$4.65	231	1,458	43%
0900 - 1000	\$3.80	326	1,926	57%	\$3.80	295	2,051	60%	\$3.80	260	1,861	55%	\$3.80	273	1,934	57%	\$3.80	218	1,355	40%

AM Time	Monday 04/24/17				Tuesday 04/25/17				Wednesday 04/26/17				Thursday 04/27/17				Friday 04/28/17			
	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.	Price	HOV	Vol.	Cap.
0400 - 0500	\$2.90	562	2,039	60%	\$2.90	566	1,974	58%	\$2.90	542	1,847	54%	\$2.90	591	1,914	56%	\$2.90	507	1,653	49%
0500 - 0600	\$4.65	623	2,409	71%	\$4.65	653	2,420	71%	\$4.65	667	2,414	71%	\$4.65	656	2,375	70%	\$4.40	577	2,209	65%
0600 - 0700	\$4.85	524	1,955	58%	\$4.85	465	1,895	56%	\$4.85	513	1,910	56%	\$4.85	513	1,963	58%	\$4.65	465	1,671	49%
0700 - 0800	\$5.35	389	1,850	54%	\$5.35	392	1,901	56%	\$5.35	400	1,880	55%	\$5.35	364	1,835	54%	\$5.20	368	1,585	47%
0800 - 0900	\$4.85	297	1,910	56%	\$4.85	258	1,786	53%	\$4.85	256	1,799	53%	\$4.85	280	1,846	54%	\$4.65	252	1,689	50%
0900 - 1000	\$3.80	271	1,875	55%	\$3.80	234	1,837	54%	\$3.80	236	1,805	53%	\$3.80	252	1,882	55%	\$3.80	253	1,539	45%

OPERATIONAL HIGHLIGHTS

On-road Operations

OCTA Customer Assistance Specialists (CAS) responded to 119 calls during the month of April. Of those calls, 74 were to assist disabled vehicles, 9 calls to remove debris, and 18 assists or traffic breaks. There were 12 accidents in the Express Lanes and 6 accidents originating in the SR91 general-purpose lanes that affected the Express Lanes.



FINANCIAL HIGHLIGHTS OCTA

91 Express Lanes Operating Statement

Description	YTD as of : 4/30/2017		YTD Variance	
	Actual ⁽¹⁾	Budget ⁽¹⁾	Dollar \$	Percent (%)
Operating revenues:				
Toll revenue	\$ 33,471,973.56	\$ 29,668,672.00	\$ 3,803,301.56	12.8
Fee revenue	10,372,161.26	5,990,863.00	4,381,298.26	73.1
Total operating revenues	43,844,134.82	35,659,535.00	8,184,599.82	23.0
Operating expenses:				
Contracted services	6,214,641.94	7,507,954.00	1,293,312.06	17.2
Administrative fee	2,286,009.54	1,996,760.00	(289,249.54)	(14.5)
Other professional services	601,015.76	941,790.00	340,774.24	36.2
Credit card processing fees	676,656.59	548,017.00	(128,639.59)	(23.5)
Toll road account servicing	1,199,072.08	760,635.00	(438,437.08)	(57.6)
Other insurance expense	270,413.48	624,750.00	354,336.52	56.7
Toll road maintenance supply repairs	11,192,544.47	16,677,420.00	5,484,875.53	32.9
Patrol services	661,889.51	499,800.00	(162,089.51)	(32.4)
Building equipment repairs and maint	177,296.86	512,827.00	335,530.14	65.4
Other services	6,153.00	15,725.00	9,572.00	60.9
Utilities	33,718.58	30,265.00	(3,453.58)	(11.4)
Office expense	44,723.23	66,001.00	21,277.77	32.2
Bad debt expense	151,902.60	-	(151,902.60)	N/A
Miscellaneous ⁽²⁾	88,937.78	102,374.00	13,436.22	13.1
Leases	355,883.17	240,600.00	(115,283.17)	(47.9)
Total operating expenses	23,960,858.59	30,524,918.00	6,564,059.41	21.5
Depreciation and amortization ⁽³⁾	2,600,460.89	-	(2,600,460.89)	N/A
Operating income (loss)	17,282,815.34	5,134,617.00	12,148,198.34	236.6
Nonoperating revenues (expenses):				
Reimbursement from Other Agencies	101,059.39	150,000.00	(48,940.61)	(32.6)
Interest income	1,046,398.63	802,638.00	243,760.63	30.4
Interest expense	(4,554,299.72)	(4,614,120.00)	59,820.28	1.3
Other	123,667.24	-	123,667.24	N/A
Total nonoperating revenues (expenses)	(3,283,174.46)	(3,661,482.00)	378,307.54	10.3
Transfers in	-	-	-	N/A
Transfers out	-	(8,300,000.00)	8,300,000.00	100.0
Net income (loss)	\$ 13,999,640.88	\$ (6,826,865.00)	\$20,826,505.88	(305.1)

¹Actual amounts are accounted for on the accrual basis of accounting in an enterprise fund. Budget amounts are accounted for on a modified accrual basis of accounting.

²Miscellaneous expenses include: Bond Insurance Costs, Bank Service Charge, Transponder Materials.

³Depreciation and amortization are not budgeted items.

Capital Asset Activity

During the ten months ending April 30, 2017, capital asset activities included \$971,974 for the purchase of communication equipment and \$306,343 towards the purchase of transponders.

OPERATIONS OVERVIEW RCTC

TRAFFIC AND REVENUE STATISTICS FOR RCTC

Total traffic volume on the 91 Express Lanes for April 2017 was 1,150,634. This represents a daily average of 38,354, which exceeded Stantec's projections by 117.2%. Potential toll revenue for the month was \$2,341,030, which exceeded Stantec projections by 167.5%. Carpool percentage for the month was 19.06%.

Month-to-date traffic and revenue data are summarized in the table below. The following trip and revenue statistics tables represent all trips taken on the 91 Express Lanes and associated potential revenue for the month of April 2017.

Current Month-to-Date (MTD) as of April 30, 2017

Trips	Apr-17 MTD Actual	Stantec MTD Projected	# Variance	% Variance
Full Toll Lanes	931,356	394,499	536,857	136.1%
3+ Lanes	219,278	135,286	83,992	62.1%
Total Gross Trips	1,150,634	529,785	620,849	117.2%
Revenue				
Full Toll Lanes	\$2,324,184	\$875,285	\$1,448,898	165.5%
3+ Lanes	\$16,846	\$0	\$16,846	
Total Gross Revenue	\$2,341,030	\$875,285	\$1,465,745	167.5%
Average Revenue per Trip				
Average Full Toll Lanes	\$2.50	\$2.22	\$0.28	12.6%
Average 3+ Lanes	\$0.08	\$0.00	\$0.08	
Average Gross Revenue	\$2.03	\$1.65	\$0.38	23.0%

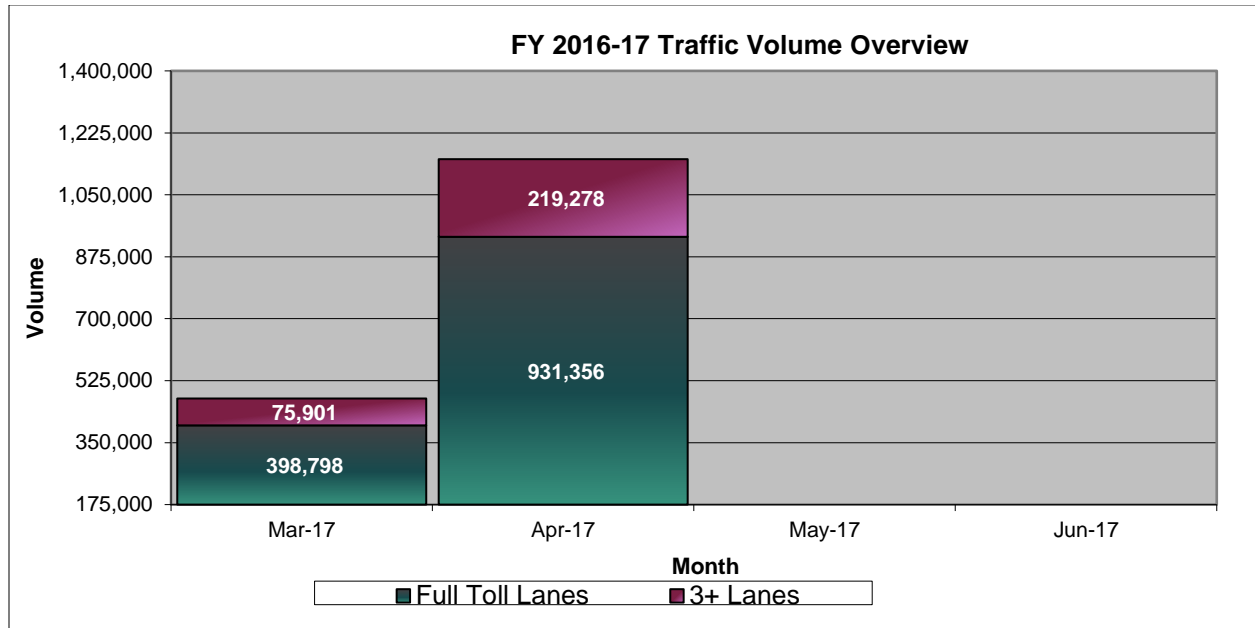
Fiscal year-to-date traffic and revenue data are summarized in the table below. The following trip and revenue statistics tables represent all trips taken on the 91 Express Lanes and associated potential revenue for the period between March 20, 2017 (opening date) through April 2017.

FY 2015-16 Year to Date as of April 30, 2017

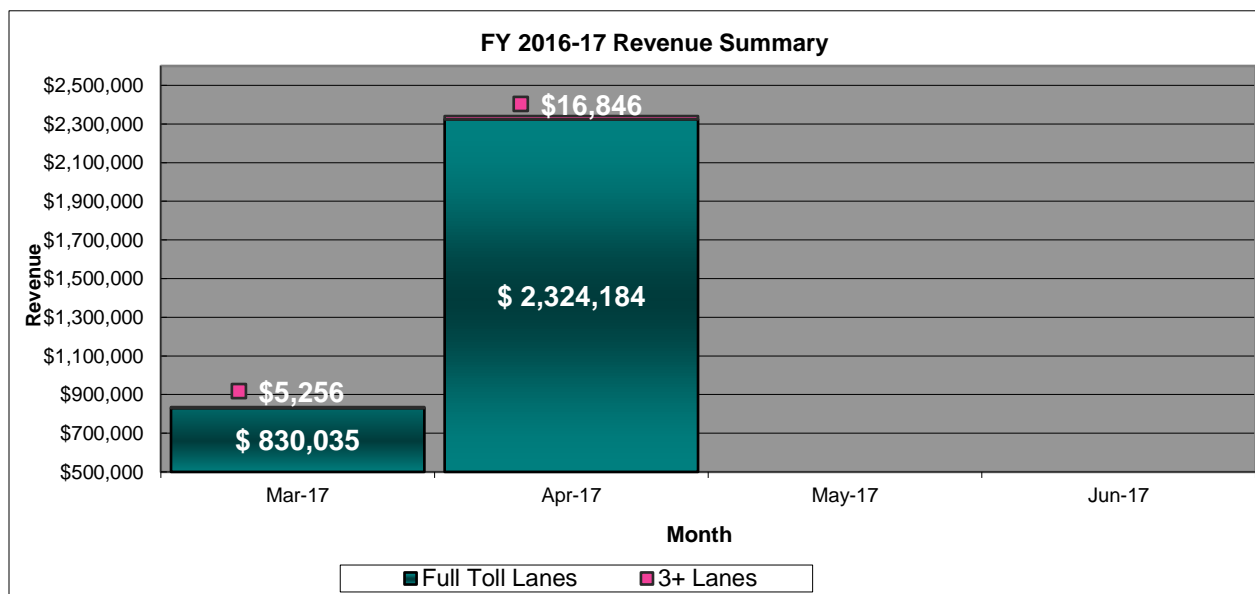
Trips	FY 2016-17 YTD Actual	Stantec YTD Projected	# Variance	% Variance
Full Toll Lanes	1,330,154	522,828	807,326	154.4%
3+ Lanes	295,179	177,486	117,693	66.3%
Total Gross Trips	1,625,333	700,314	925,019	132.1%
Revenue				
Full Toll Lanes	\$3,154,219	\$1,171,914	\$1,982,305	169.2%
3+ Lanes	\$22,102	\$0	\$22,102	
Total Gross Revenue	\$3,176,321	\$1,171,914	\$2,004,407	171.0%
Average Revenue per Trip				
Average Full Toll Lanes	\$2.37	\$2.24	\$0.13	5.8%
Average 3+ Lanes	\$0.07	\$0.00	\$0.07	
Average Gross Revenue	\$1.95	\$1.67	\$0.28	16.8%

RCTC Traffic and Revenue Summary

The chart below reflects the total trips breakdown between Full Toll trips and HOV3+ trips for FY 2016-17 on a monthly basis.



The chart below reflects the gross potential revenue breakdown between Full Toll trips and HOV3+ trips for FY 2016-17 on a monthly basis.



PEAK-HOUR VOLUMES

Peak traffic volumes exceeded projected volumes for the hours highlighted in yellow on the following charts. The opening day toll policy provides for a toll rate based on level of service (LOS) volumes. The projected opening day LOS volumes were exceeded for many hours as depicted in the yellow highlight. Peak period eastbound tolls were increased regularly to address congestion at the I-15/SR-91 split. On May 8th tolls were adjusted for westbound and eastbound non-peak hours where the LOS was exceed at least four times during the first six weeks of operation. Volumes will continue to be monitored and tolls will be adjusted as necessary when volumes 1,564 vehicles as defined in the long-term toll policy.

EASTBOUND PEAK-HOUR VOLUMES

Eastbound Peak-hour Volume

Eastbound PM Peak - County Line to McKinley

PM Time	03/26/17			03/27/17			03/28/17			03/29/17			03/30/17			03/31/17			Saturday			04/01/17			
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS
1400 - 1500																					\$1.40	220	988	1,208	D
1500 - 1600																					\$1.40	226	893	1,119	C
1600 - 1700																					\$1.40	246	873	1,119	C
1700 - 1800																					\$1.40	244	763	1,007	C
1800 - 1900																					\$1.40	223	663	886	C
1900 - 2000																					\$1.40	200	466	666	B

PM Time	04/02/17			04/03/17			04/04/17			04/05/17			04/06/17			04/07/17			04/08/17																
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS										
1400 - 1500	\$1.40	196	556	752	B	\$1.40	156	1,070	1,226	D	\$1.40	159	1,107	1,266	D	\$1.40	225	1,215	1,440	E	\$4.95	207	1,220	1,427	E	\$6.40	224	1,238	1,462	E	\$1.40	223	923	1,146	C
1500 - 1600	\$1.40	148	470	618	B	\$3.85	216	932	1,148	C	\$3.85	239	1,062	1,301	D	\$3.85	258	981	1,239	D	\$6.40	244	1,104	1,348	D	\$6.40	298	1,358	1,656	F	\$1.40	239	866	1,105	C
1600 - 1700	\$1.40	207	538	745	B	\$3.85	169	861	1,030	C	\$3.85	209	1,014	1,223	D	\$3.85	200	1,117	1,317	D	\$6.40	200	1,008	1,208	D	\$6.40	216	1,155	1,371	D	\$1.40	254	744	998	C
1700 - 1800	\$1.40	181	453	634	B	\$3.85	188	832	1,020	C	\$3.85	194	999	1,193	C	\$3.85	220	1,108	1,328	D	\$4.95	240	1,066	1,308	D	\$4.95	240	1,076	1,316	D	\$1.40	222	688	920	C
1800 - 1900	\$1.40	185	377	552	B	\$3.85	230	919	1,149	C	\$3.85	207	882	1,099	C	\$3.85	237	957	1,194	C	\$4.95	285	1,026	1,290	D	\$4.95	285	1,004	1,289	D	\$1.40	246	713	959	C
1900 - 2000	\$1.40	217	430	647	B	\$2.10	169	657	856	C	\$2.10	232	852	1,084	C	\$2.10	210	904	1,114	C	\$2.10	213	797	1,010	C	\$2.10	205	784	989	C	\$1.40	213	545	758	B

PM Time	04/09/17					04/10/17					04/11/17					04/12/17					04/13/17					04/14/17					04/15/17				
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
1400 - 1500	\$1.40	158	361	519	B	\$1.40	142	1,141	1,283	D	\$1.40	175	1,231	1,406	E	\$1.40	179	1,301	1,480	E	\$6.40	174	1,252	1,426	E	\$8.40	244	1,371	1,615	F	\$1.40	216	808	1,024	C
1500 - 1600	\$1.40	197	446	643	B	\$3.85	211	882	1,093	C	\$3.85	211	1,034	1,245	D	\$4.95	231	1,058	1,236	D	\$7.40	243	1,022	1,265	F	\$7.40	241	2,254	2,655	F	\$1.40	245	760	1,005	C
1600 - 1700	\$1.40	230	461	691	B	\$3.85	180	967	1,147	C	\$3.85	191	1,057	1,248	D	\$4.95	185	1,075	1,260	D	\$7.40	231	1,011	1,242	D	\$7.40	237	1,355	1,582	F	\$1.40	236	805	1,041	C
1700 - 1800	\$1.40	224	495	719	B	\$3.85	185	900	1,085	C	\$3.85	188	965	1,153	C	\$4.95	197	1,056	1,282	D	\$6.40	240	1,070	1,310	D	\$6.40	234	1,034	1,268	F	\$1.40	203	683	896	C
1800 - 1900	\$1.40	181	421	602	B	\$3.85	227	936	1,163	C	\$3.85	190	970	1,160	C	\$4.95	218	959	1,177	C	\$4.95	246	1,122	1,368	D	\$4.95	201	774	975	C	\$1.40	236	729	785	B
1900 - 2000	\$1.40	191	341	532	B	\$2.10	134	612	746	B	\$2.10	161	680	841	C	\$2.10	185	866	1,051	C	\$2.10	245	1,075	1,320	D	\$2.10	150	477	627	B	\$1.40	171	373	544	B

Sunday	04/16/17					04/17/17					04/18/17					04/19/17					04/20/17					04/21/17					Saturday	04/22/17			
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
1400 - 1500	\$1.40	352	930	1,282	D	\$1.40	151	1,136	1,287	D	\$1.40	182	1,162	1,344	D	\$1.40	207	1,300	1,507	E	\$7.40	197	1,086	1,283	D	\$10.40	192	1,111	1,303	D	\$1.40	281	1,006	1,287	D
1500 - 1600	\$1.40	235	684	919	C	\$3.85	263	974	1,237	D	\$3.85	218	1,025	1,243	D	\$4.95	229	1,044	1,273	D	\$9.40	218	836	1,054	C	\$9.40	283	1,144	1,427	E	\$1.40	263	999	1,262	D
1600 - 1700	\$1.40	262	489	751	B	\$3.85	230	980	1,210	D	\$3.85	201	1,021	1,222	D	\$4.95	202	1,068	1,208	D	\$7.40	207	1,077	1,284	D	\$8.40	206	1,089	1,275	D	\$1.40	266	941	1,197	C
1700 - 1800	\$1.40	274	453	727	B	\$3.85	185	903	1,088	C	\$3.85	197	969	1,166	C	\$4.95	221	1,028	1,249	D	\$6.40	242	1,163	1,405	E	\$6.40	208	996	1,204	D	\$1.40	172	710	882	C
1800 - 1900	\$1.40	362	526	888	C	\$3.85	181	755	936	C	\$3.85	221	1,013	1,234	D	\$4.95	215	951	1,166	C	\$6.40	275	1,080	1,335	D	\$4.95	285	1,067	1,352	D	\$1.40	279	752	1,031	C
1900 - 2000	\$1.40	464	575	1,039	C	\$2.10	129	517	646	B	\$2.10	173	695	868	C	\$2.10	183	752	935	C	\$2.10	217	994	1,211	D	\$2.10	165	792	955	C	\$1.40	218	559	777	B

04/23/17			04/24/17			04/25/17			04/26/17			04/27/17			04/28/17			04/29/17																			
Sunday	Saturday	PM Time	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS															
		1400 - 1500	\$1.40	178	572	750	B	\$1.40	178	1,127	1,305	D	\$1.40	169	1,084	1,253	D	\$6.40	182	979	1,161	C	\$7.40	177	1,093	1,270	D	\$10.40	205	1,112	1,317	D	\$1.40	223	973	1,196	C
		1500 - 1600	\$1.40	178	488	666	B	\$3.85	231	1,004	1,235	D	\$3.85	232	1,110	1,342	D	\$6.40	224	1,045	1,269	D	\$9.40	235	1,052	1,287	D	\$10.40	298	1,090	1,388	D	\$1.40	264	863	1,127	C
		1600 - 1700	\$1.40	206	472	678	B	\$3.85	183	939	1,122	C	\$3.85	177	947	1,124	C	\$6.40	193	1,075	1,268	D	\$8.40	208	1,020	1,228	D	\$7.40	233	1,136	1,369	D	\$1.40	249	851	1,100	C
		1700 - 1800	\$1.40	190	491	681	B	\$3.85	182	981	1,163	C	\$3.85	168	965	1,133	C	\$4.95	199	1,002	1,201	D	\$7.40	235	1,011	1,246	D	\$8.40	201	1,003	1,204	D	\$1.40	260	669	875	C
		1800 - 1900	\$1.40	227	407	634	B	\$3.85	198	714	912	C	\$3.85	212	884	1,096	C	\$4.95	225	894	1,119	C	\$7.40	240	971	1,193	C	\$4.95	212	931	1,147	C	\$1.40	256	799	1,055	C
		1900 - 2000	\$1.40	203	388	591	B	\$2.10	123	408	531	B	\$2.10	132	561	693	B	\$2.10	167	829	996	C	\$2.10	235	879	1,049	C	\$2.10	212	761	973	C	\$1.40	177	590	757	B

PM Time	04/30/17					05/01/17					05/02/17					05/03/17					05/04/17					05/05/17					05/06/17														
	Sunday	Price	HOV	SOV	Vol.	LOS	Monday	Price	HOV	SOV	Vol.	LOS	Tuesday	Price	HOV	SOV	Vol.	LOS	Wednesday	Price	HOV	SOV	Vol.	LOS	Thursday	Price	HOV	SOV	Vol.	LOS	Friday	Price	HOV	SOV	Vol.	LOS	Saturday	Price	HOV	SOV	Vol.	LOS			
1400 - 1500			157	436	593	B																																							
1500 - 1600			195	440	635	B																																							
1600 - 1700			217	472	689	B																																							
1700 - 1800			202	389	591	B																																							
1800 - 1900			188	367	555	B																																							
1900 - 2000			225	371	596	B																																							

Eastbound PM Peak - County Line to I-15 South

PM Time	Sunday 03/26/17			Monday 03/27/17			Tuesday 03/28/17			Wednesday 03/29/17			Thursday 03/30/17			Friday 03/31/17			Saturday 04/01/17						
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS
1400 - 1500																									
1500 - 1600																									
1600 - 1700																									
1700 - 1800																									
1800 - 1900																									
1900 - 2000																									

PM Time	Sunday 04/02/17			Monday 04/03/17			Tuesday 04/04/17			Wednesday 04/05/17			Thursday 04/06/17			Friday 04/07/17			Saturday 04/08/17											
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
1400 - 1500	\$1.80	131	302	433	B	\$1.80	67	615	682	B	\$1.80	91	625	716	B	\$1.80	87	702	789	B	\$2.75	96	682	775	B	\$1.80	118	417	535	B
1500 - 1600	\$1.80	111	269	380	A	\$2.75	85	537	622	B	\$2.75	103	589	692	B	\$2.75	88	683	771	B	\$4.95	96	643	739	B	\$1.80	127	401	528	B
1600 - 1700	\$1.80	136	283	419	B	\$2.75	89	517	606	B	\$2.75	100	653	753	B	\$2.75	93	550	643	B	\$2.75	98	569	667	B	\$2.75	93	464	557	B
1700 - 1800	\$1.80	143	259	402	B	\$2.75	80	506	586	B	\$2.75	86	556	642	B	\$2.75	105	608	705	B	\$2.75	106	651	757	B	\$2.75	92	554	646	B
1800 - 1900	\$1.80	113	199	312	A	\$2.75	103	489	592	B	\$2.75	100	512	612	B	\$2.75	98	538	636	B	\$2.75	91	504	595	B	\$2.75	130	536	666	B
1900 - 2000	\$1.80	158	211	369	A	\$2.75	96	337	433	B	\$2.75	111	500	611	B	\$2.75	123	503	626	B	\$2.75	100	456	556	B	\$2.75	98	408	506	B

PM Time	Sunday			04/09/17			Monday			04/10/17			Tuesday			04/11/17			Wednesday			04/12/17			Thursday			04/13/17			Friday			04/14/17			Saturday			04/15/17		
	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS	Price	HOV	SOV	LOS		
1400 - 1500	\$1.80	120	216	336	A	\$1.80	84	647	731	B	\$1.80	98	722	820	C	\$1.80	121	752	873	C	\$2.75	88	744	832	C	\$2.75	96	555	651	B	\$1.80	143	458	601	B	\$1.80	143	458	601	B		
1500 - 1600	\$1.80	99	248	347	A	\$2.75	87	510	597	B	\$2.75	111	611	722	B	\$2.75	87	689	776	B	\$4.95	100	685	785	B	\$4.95	77	207	284	A	\$1.80	155	434	589	B	\$1.80	155	434	589	B		
1600 - 1700	\$1.80	128	274	402	B	\$2.75	84	570	654	B	\$2.75	83	601	684	B	\$2.75	82	568	650	B	\$2.75	89	492	581	B	\$2.75	91	333	424	B	\$1.80	167	403	570	B	\$1.80	167	403	570	B		
1700 - 1800	\$1.80	134	243	377	A	\$2.75	88	549	637	B	\$2.75	89	558	647	B	\$2.75	110	620	732	B	\$2.75	122	619	741	B	\$2.75	105	520	625	B	\$1.80	117	338	455	B	\$1.80	117	338	455	B		
1800 - 1900	\$1.80	109	177	286	A	\$2.75	100	479	579	B	\$2.75	88	499	587	B	\$2.75	121	521	642	B	\$2.75	109	580	689	B	\$2.75	123	380	503	B	\$1.80	117	257	374	A	\$1.80	117	257	374	A		
1900 - 2000	\$1.80	124	188	312	A	\$2.75	75	366	441	B	\$2.75	103	415	518	B	\$2.75	110	462	572	B	\$2.75	99	528	627	B	\$2.75	114	253	367	A	\$1.80	125	214	339	A	\$1.80	125	214	339	A		

PM Time	Sunday			04/16/17			Monday			04/17/17			Tuesday			04/18/17			Wednesday			04/19/17			Thursday			04/20/17			Friday			04/21/17			Saturday			04/22/17					
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
1400 - 1500	\$1.80	182	395	577	B	\$1.80	81	633	714	B	\$1.80	71	746	817	C	\$2.75	93	762	855	C	\$2.75	94	741	835	C	\$1.80	123	480	603	B	\$1.80	123	480	603	B	\$1.80	123	480	603	B	\$1.80	123	480	603	B
1500 - 1600	\$1.80	171	300	471	B	\$2.75	107	571	678	B	\$2.75	96	627	723	B	\$2.75	95	647	742	B	\$4.95	74	511	585	C	\$4.95	107	672	779	B	\$1.80	141	464	605	B	\$1.80	141	464	605	B					
1600 - 1700	\$1.80	213	310	523	B	\$2.75	111	560	671	B	\$2.75	108	583	691	B	\$2.75	74	591	685	B	\$2.75	102	647	749	B	\$2.75	88	515	603	B	\$1.80	155	436	591	B	\$1.80	155	436	591	B					
1700 - 1800	\$1.80	208	257	465	B	\$2.75	93	522	615	B	\$2.75	92	601	693	B	\$2.75	113	679	792	B	\$2.75	112	773	885	C	\$2.75	90	576	666	B	\$1.80	102	356	458	B	\$1.80	102	356	458	B					
1800 - 1900	\$1.80	231	254	485	B	\$2.75	87	387	474	B	\$2.75	101	624	725	B	\$2.75	97	703	800	B	\$2.75	97	614	711	B	\$2.75	115	611	726	B	\$1.80	160	409	569	B	\$1.80	160	409	569	B					
1900 - 2000	\$1.80	366	347	713	B	\$2.75	78	298	376	A	\$2.75	97	389	486	B	\$2.75	97	495	592	B	\$2.75	111	583	694	B	\$2.75	88	397	485	B	\$1.80	144	300	444	B	\$1.80	144	300	444	B					

PM Time	Sunday			04/23/17			Monday			04/24/17			Tuesday			04/25/17			Wednesday			04/26/17			Thursday			04/27/17			Friday			04/28/17			Saturday			04/29/17		
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS		
1400 - 1500	\$1.80	134	285	419	B	\$1.80	77	658	735	B	\$1.80	78	686	764	B	\$1.80	96	691	777	B	\$2.75	95	722	817	C	\$4.95	95	602	697	B	\$1.80	109	388	497	B	\$1.80	136	475	611	B		
1500 - 1600	\$1.80	129	262	391	A	\$2.75	107	599	706	B	\$2.75	96	659	755	B	\$2.75	94	658	752	B	\$4.95	77	605	682	B	\$4.95	118	600	718	B	\$1.80	130	464	594	B	\$1.80	130	464	594	B		
1600 - 1700	\$1.80	121	232	353	A	\$2.75	80	575	655	B	\$2.75	88	553	641	B	\$2.75	98	609	707	B	\$2.75	80	558	638	B	\$2.75	104	529	633	B	\$1.80	130	464	594	B	\$1.80	130	464	594	B		
1700 - 1800	\$1.80	152	256	408	B	\$2.75	98	544	642	B	\$2.75	86	563	649	B	\$2.75	96	563	659	B	\$2.75	94	555	649	B	\$2.75	98	510	608	B	\$1.80	118	311	429	B	\$1.80	138	350	488	B		
1800 - 1900	\$1.80	124	189	313	A	\$2.75	71	459	530	B	\$2.75	98	530	628	B	\$2.75	107	578	685	B	\$2.75	90	567	657	B	\$2.75	95	439	534	B	\$1.80	138	350	488	B	\$1.80	138	350	488	B		
1900 - 2000	\$1.80	142	187	329	A	\$2.75	66	241	307	A	\$2.75	76	356	432	B	\$2.75	103	427	530	B	\$2.75	88	440	528	B	\$2.75	98	391	488	B	\$1.80	124	288	412	B	\$1.80	124	288	412	B		

PM Time	Sunday 04/30/17					Monday 05/01/17					Tuesday 05/02/17					Wednesday 05/03/17					Thursday 05/04/17					Friday 05/05/17					Saturday 05/06/17				
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
1400 - 1500	\$1.80	112	246	358	A																														
1500 - 1600	\$1.80	130	226	356	A																														
1600 - 1700	\$1.80	142	274	416	B																														
1700 - 1800	\$1.80	122	206	328	A																														
1800 - 1900	\$1.80	140	191	331	A																														
1900 - 2000	\$1.80	131	185	316	A																														

WESTBOUND PEAK-HOUR VOLUMES

Westbound Peak-hour Volume

Westbound AM Peak - McKinley to County Line

Westborough and U.S. 1 - 100m - 100m to County Line																										
AM Time	Sunday 03/26/17			Monday 03/27/17			Tuesday 03/28/17			Wednesday 03/29/17			Thursday 03/30/17			Friday 03/31/17			Saturday 04/01/17							
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	
0400 - 0500																										
0500 - 0600																										
0600 - 0700																										
0700 - 0800																										
0800 - 0900																										
0900 - 1000																										

	04/02/17			Monday			Tuesday			04/04/17			Wednesday			Thursday			Friday			04/07/17			04/08/17										
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
	\$1.40	4	7	11	A	\$1.40	224	755	979	C	\$1.40	243	815	1,058	C	\$1.40	243	793	1,036	C	\$1.40	232	733	965	C	\$1.40	191	651	842	C	\$1.40	25	50	75	A
	\$1.40	2	3	5	A	\$3.85	322	1,480	1,802	F	\$3.85	376	1,550	1,926	F	\$3.85	348	1,468	1,816	F	\$3.85	381	1,574	1,955	F	\$3.85	355	1,362	1,717	F	\$1.40	35	114	149	A
	\$1.40	5	39	44	A	\$4.95	285	1,392	1,677	F	\$4.95	288	1,468	1,756	F	\$4.95	320	1,370	1,690	F	\$4.95	277	1,443	1,720	F	\$4.95	263	1,236	1,499	E	\$1.40	75	299	374	A
	\$1.40	4	18	22	A	\$4.95	239	1,505	1,744	F	\$4.95	260	1,457	1,717	F	\$4.95	262	1,505	1,767	F	\$4.95	272	1,559	1,831	F	\$4.95	217	1,236	1,453	E	\$1.40	82	291	373	A
	\$1.40	4	10	14	A	\$3.85	161	1,150	1,311	D	\$3.85	156	1,249	1,405	E	\$3.85	176	1,233	1,409	E	\$3.85	181	1,360	1,541	E	\$3.85	153	890	1,043	C	\$1.40	113	351	464	B
	\$1.40	8	14	22	A	\$2.10	129	753	882	C	\$2.10	148	912	1,060	C	\$2.10	188	816	1,004	C	\$2.10	202	1,047	1,249	D	\$2.10	111	619	730	B	\$1.40	155	392	547	B

	04/09/17			Monday			Tuesday			Wednesday			Thursday			Friday			Saturday			04/15/17								
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
	\$1.40	10	14	24	A	\$1.40	233	842	1,075	C	\$1.40	244	823	1,067	C	\$1.40	237	760	997	C	\$1.40	173	552	725	B	\$1.40	16	29	45	A
	\$1.40	11	32	43	A	\$3.85	373	1,591	1,964	F	\$3.85	351	1,423	1,774	F	\$3.85	362	1,544	1,906	F	\$3.85	372	1,368	1,690	F	\$1.40	28	92	120	A
	\$1.40	19	61	80	A	\$4.95	289	1,458	1,747	F	\$4.95	263	1,263	1,559	E	\$4.95	277	1,440	1,717	F	\$4.95	217	1,036	1,253	D	\$1.40	46	150	196	A
	\$1.40	42	109	151	A	\$4.95	199	1,446	1,645	F	\$4.95	260	1,717	1,977	F	\$4.95	196	1,486	1,682	F	\$4.95	180	999	1,179	C	\$1.40	79	193	272	A
	\$1.40	97	176	273	A	\$3.85	127	1,376	1,503	E	\$3.85	139	1,399	1,538	E	\$3.85	145	1,248	1,393	D	\$3.85	115	822	937	C	\$1.40	105	289	394	A
	\$2.10	104	864	968	C	\$2.10	107	936	1,043	C	\$2.10	119	967	1,086	C	\$2.10	102	659	761	B	\$1.40	178	389	567	B					

	04/16/17			04/17/17			04/18/17			04/19/17			04/20/17			04/21/17			04/22/17																
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS													
AM Time																																			
0400 - 0500	\$1.40	14	28	A	\$1.40	215	838	1,053	C	\$1.40	253	819	1,072	C	\$1.40	241	866	1,107	C	\$1.40	246	848	894	C	\$1.40	227	768	995	C	\$1.40	14	28	42	A	
0500 - 0600	\$1.40	12	23	35	A	\$3.85	371	1,529	1,900	F	\$3.85	330	1,361	1,691	F	\$3.85	353	1,408	1,761	F	\$3.85	343	1,378	1,721	F	\$3.85	361	1,430	1,791	F	\$1.40	45	137	182	A
0600 - 0700	\$1.40	16	31	47	A	\$4.95	298	1,399	1,697	F	\$4.95	296	1,314	1,610	F	\$4.95	289	1,350	1,639	F	\$4.95	339	1,417	1,756	F	\$4.95	278	1,218	1,496	E	\$1.40	91	240	331	A
0700 - 0800	\$1.40	40	82	122	A	\$4.95	200	1,606	1,806	F	\$4.95	228	1,750	1,978	F	\$4.95	220	1,580	1,800	F	\$4.95	241	1,627	1,868	F	\$4.95	201	1,240	1,441	E	\$1.40	97	297	394	A
0800 - 0900	\$1.40	105	123	228	A	\$3.85	174	1,395	1,569	F	\$3.85	178	1,510	1,688	F	\$3.85	140	1,294	1,434	E	\$3.85	187	1,367	1,554	E	\$3.85	127	1,007	1,134	C	\$1.40	142	413	555	B
0900 - 1000	\$1.40	182	283	465	B	\$2.10	168	1,016	1,184	C	\$2.10	128	983	1,111	C	\$2.10	109	860	969	C	\$2.10	121	916	1,037	C	\$2.10	125	951	1,076	C	\$1.40	199	428	627	B

04/23/17			Monday			Tuesday			Wednesday			Thursday			Friday			Saturday			04/29/17														
Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS											
AM Time																																			
04000 - 0500	\$1.40	16	15	31	A	\$1.40	228	874	1,102	C	\$1.40	274	826	1,100	C	\$1.40	244	824	1,068	C	\$1.40	236	768	1,004	C	\$1.40	31	58	89	A					
05000 - 0600	\$1.40	0	6	7	A	\$3.85	352	1,486	1,838	F	\$3.85	367	1,467	1,827	F	\$3.85	358	1,388	1,746	F	\$3.85	397	1,776	2,173	F	\$1.40	40	145	185	A					
06000 - 0700	\$1.40	0	0	0	A	\$4.95	316	1,255	1,571	F	\$4.95	307	1,355	1,662	F	\$4.95	333	1,293	1,626	F	\$4.95	307	1,311	1,588	F	\$1.40	69	237	306	A					
07000 - 0800	\$1.40	1	6	7	A	\$4.95	204	1,442	1,646	F	\$4.95	238	1,609	1,847	F	\$4.95	238	1,662	1,900	F	\$4.95	229	1,781	2,010	F	\$4.95	190	1,265	1,455	E	\$1.40	97	355	452	B
08000 - 0900	\$1.40	3	1	4	A	\$3.85	185	1,561	1,746	F	\$3.85	160	1,473	1,633	F	\$3.85	141	1,369	1,510	E	\$3.85	170	1,503	1,673	F	\$3.85	143	1,087	1,230	D	\$1.40	145	363	508	B
09000 - 1000	\$1.40	1	0	1	A	\$2.10	119	1,043	1,162	C	\$2.10	109	930	1,039	C	\$2.10	86	763	849	C	\$2.10	118	994	1,112	C	\$2.10	116	694	810	C	\$1.40	186	538	724	B

AM Time	Sunday 04/30/17					Monday 05/01/17					Tuesday 05/02/17					Wednesday 05/03/17					Thursday 05/04/17					Friday 05/05/17					Saturday 05/06/17					
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS						
0400 - 0500	\$1.40	14	19	33	A																															
0500 - 0600	\$1.40	15	36	51	A																															
0600 - 0700	\$1.40	42	86	128	A																															
0700 - 0800	\$1.40	68	129	197	A																															
0800 - 0900	\$1.40	114	209	323	A																															
0900 - 1000	\$1.40	185	357	542	B																															

Westbound AM Peak - I-15 North to County Line

AM Time	Sunday			Monday			Tuesday			Wednesday			Thursday			Friday			Saturday			04/01/17				
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	
0400 - 0500																										
0500 - 0600																										
0600 - 0700																										
0700 - 0800																										
0800 - 0900																										
0900 - 1000																										

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	04/07/17	Saturday	04/08/17							
AM Time	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS
0400 - 0500	\$1.80	5	2	7	A	\$1.80	142	617	759	B	\$1.80	138	611	749	B
0500 - 0600	\$1.80	0	1	1	A	\$2.75	163	1,011	1,174	C	\$2.75	160	963	1,123	C
0600 - 0700	\$1.80	0	0	0	A	\$4.95	150	892	1,042	C	\$4.95	150	892	1,042	C
0700 - 0800	\$1.80	0	0	0	A	\$4.95	116	896	1,012	C	\$4.95	105	1,012	1,117	C
0800 - 0900	\$1.80	0	1	1	A	\$2.75	61	739	800	B	\$2.75	68	848	916	C
0900 - 1000	\$1.80	0	0	0	A	\$2.75	59	576	635	A	\$2.75	74	674	748	B

Sunday	04/09/17			Monday			Tuesday			Wednesday			Thursday			Friday			04/14/17			Saturday			04/15/17					
AM Time	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS
0400 - 0500	\$1.80	13	21	34	A	\$1.80	132	723	855	C	\$1.80	134	636	770	B	\$1.80	134	599	733	B	\$1.80	95	430	525	B	\$1.80	16	29	45	A
0500 - 0600	\$1.80	12	41	53	A	\$2.75	162	1,008	1,170	C	\$2.75	125	836	981	C	\$2.75	157	997	1,154	C	\$2.75	162	1,065	1,227	D	\$2.75	133	764	897	C
0600 - 0700	\$1.80	23	61	84	A	\$4.95	175	930	1,105	C	\$4.95	180	1,050	1,230	D	\$4.95	184	1,005	1,189	C	\$4.95	194	1,014	1,208	D	\$4.95	138	674	812	C
0700 - 0800	\$1.80	38	108	146	A	\$4.95	105	998	1,103	C	\$4.95	107	1,121	1,228	D	\$4.95	126	1,077	1,203	D	\$4.95	113	1,022	1,135	C	\$4.95	81	631	712	B
0800 - 0900	\$1.80	62	160	222	A	\$2.75	79	802	881	C	\$2.75	81	979	1,060	C	\$2.75	64	902	966	C	\$2.75	74	882	956	C	\$2.75	68	513	581	B
0900 - 1000	\$1.80	122	229	351	A	\$2.75	79	595	674	B	\$2.75	89	670	759	B	\$2.75	108	706	814	C	\$2.75	86	606	692	B	\$2.75	81	438	519	B

AM Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	04/22/17							
Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	
0400 - 0500	\$1.80	5	22	27	A	\$1.80	148	675	823	C	\$1.80	144	666	810	C
0500 - 0600	\$1.80	11	26	37	A	\$2.75	163	1,074	1,237	D	\$2.75	167	1,152	1,319	D
0600 - 0700	\$1.80	8	39	47	A	\$4.95	182	1,013	1,195	C	\$4.95	187	1,013	1,200	C
0700 - 0800	\$1.80	30	67	97	A	\$4.95	114	993	1,107	C	\$4.95	131	1,084	1,215	D
0800 - 0900	\$1.80	58	115	173	A	\$2.75	94	789	883	C	\$2.75	79	945	1,024	C
0900 - 1000	\$1.80	180	211	391	A	\$2.75	75	604	679	B	\$2.75	62	702	764	B
														</	

AM Time	Sunday			Monday			Tuesday			Wednesday			Thursday			Friday			04/28/17			Saturday			04/29/17										
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS					
0400 - 0500	\$1.80	9	12	21	A	\$1.80	145	748	893	C	\$1.80	136	712	848	C	\$1.80	141	706	847	C	\$1.80	145	682	827	C	\$1.80	136	570	706	B	\$1.80	22	44	66	A
0500 - 0600	\$1.80	0	0	0	A	\$2.75	175	1,147	1,322	D	\$2.75	189	1,124	1,313	D	\$2.75	171	1,161	1,332	D	\$2.75	177	1,163	1,340	D	\$2.75	145	943	1,088	C	\$1.80	18	100	118	A
0600 - 0700	\$1.80	0	0	0	A	\$4.95	205	1,082	1,287	D	\$4.95	200	1,072	1,272	D	\$4.95	233	1,076	1,309	D	\$4.95	206	1,083	1,289	D	\$4.95	181	875	1,056	C	\$1.80	44	177	221	A
0700 - 0800	\$1.80	0	1	1	A	\$4.95	163	1,211	1,374	D	\$4.95	162	1,221	1,383	D	\$4.95	159	1,146	1,305	D	\$4.95	127	1,085	1,212	D	\$4.95	118	792	910	C	\$1.80	75	201	276	A
0800 - 0900	\$1.80	0	1	1	A	\$2.75	84	903	987	C	\$2.75	84	952	1,036	C	\$2.75	72	966	1,038	C	\$2.75	68	910	992	C	\$2.75	70	719	819	C	\$1.80	75	204	369	A
0900 - 1000	\$1.80	0	0	0	A	\$2.75	63	643	706	B	\$2.75	74	683	757	B	\$2.75	82	709	731	B	\$2.75	82	730	798	B	\$2.75	59	506	565	B	\$1.80	130	321	451	B

AM Time	Sunday			Monday			Tuesday			Wednesday			Thursday			Friday			Saturday			05/06/17			
	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS	Price	HOV	SOV	Vol.	LOS
0400 - 0500	\$1.80	10	25	35	A																				
0500 - 0600	\$1.80	17	37	54	A																				
0600 - 0700	\$1.80	36	60	96	A																				
0700 - 0800	\$1.80	53	105	158	A																				
0800 - 0900	\$1.80	71	161	232	A																				
0900 - 1000	\$1.80	118	240	358	A																				

OPERATIONAL HIGHLIGHTS

On-road Operations

RCTC Freeway Service Patrol (FSP) responded to 116 calls during the month of April. Of those calls, 73 were to assist disabled vehicles and 27 calls to remove debris. There were 11 accidents in the Express Lanes without any originating in the SR91 general-purpose lanes that affected the Express Lanes. FSP also responded to 5 information requests.

FINANCIAL HIGHLIGHTS RCTC

RCTC 91 Express Lanes Operating Statement				
	YTD as of : 4/30/2017		YTD Variance	
Description	Actual (1)	Budget (2)	Dollar \$	Percent (%)
Operating revenues:				
Toll revenue	\$ 2,613,243.25	\$ 3,798,000.00	\$ (1,184,756.75)	(31.2)
Fee revenue	618,933.95	-	618,933.95	N/A
Total operating revenues	3,232,177.20	3,798,000.00	(565,822.80)	(14.9)
Operating expenses:				
Salaries and Benefits	75,135.80	268,400.00	193,264.20	72.0
Legal Services	7,543.64	25,000.00	17,456.36	69.8
Audit and Accounting Fees	-	19,000.00	19,000.00	100.0
Service Fees	-	22,000.00	22,000.00	100.0
Other Professional Services	-	241,000.00	241,000.00	100.0
Lease Expense	16,634.58	231,500.00	214,865.42	92.8
Operations	307,575.81	1,231,900.00	924,324.19	75.0
Utilities	1,256.58	19,900.00	18,643.42	93.7
Supplies and Materials	726.98	22,500.00	21,773.02	96.8
Membership and Subscription Fees	-	23,000.00	23,000.00	100.0
Office Equipment & Furniture (Non-Capita	-	5,000.00	5,000.00	100.0
Maintenance/Repairs	10,042.09	706,700.00	696,657.91	98.6
Training Seminars and Conferences	-	15,300.00	15,300.00	100.0
Transportation Expenses	-	22,800.00	22,800.00	100.0
Lodging	-	6,000.00	6,000.00	100.0
Meals	-	2,000.00	2,000.00	100.0
Advertising	-	388,300.00	388,300.00	100.0
Program Operations	15,747.71	3,052,800.00	3,037,052.29	99.5
Bad Debt Expense	3.36	-	(3.36)	N/A
Total operating expenses	434,666.55	6,553,100.00	6,118,433.45	93.4
Operating income (loss)	2,797,510.65	(2,755,100.00)	5,552,610.65	(201.5)
Nonoperating revenues (expenses):				
Interest income	497.20	6,800.00	(6,302.80)	(92.7)
Other	-	2,345,000.00	(2,345,000.00)	(100.0)
Total nonoperating revenues (expenses)	497.20	2,351,800.00	(2,351,302.80)	100.0
Transfers in	3,137,665.99	3,137,700.00	(34.01)	(0.0)
Transfers out	-	-	-	N/A
Net income (loss)	\$ 5,935,673.84	\$ 2,734,400.00	\$ 3,201,273.84	117.1

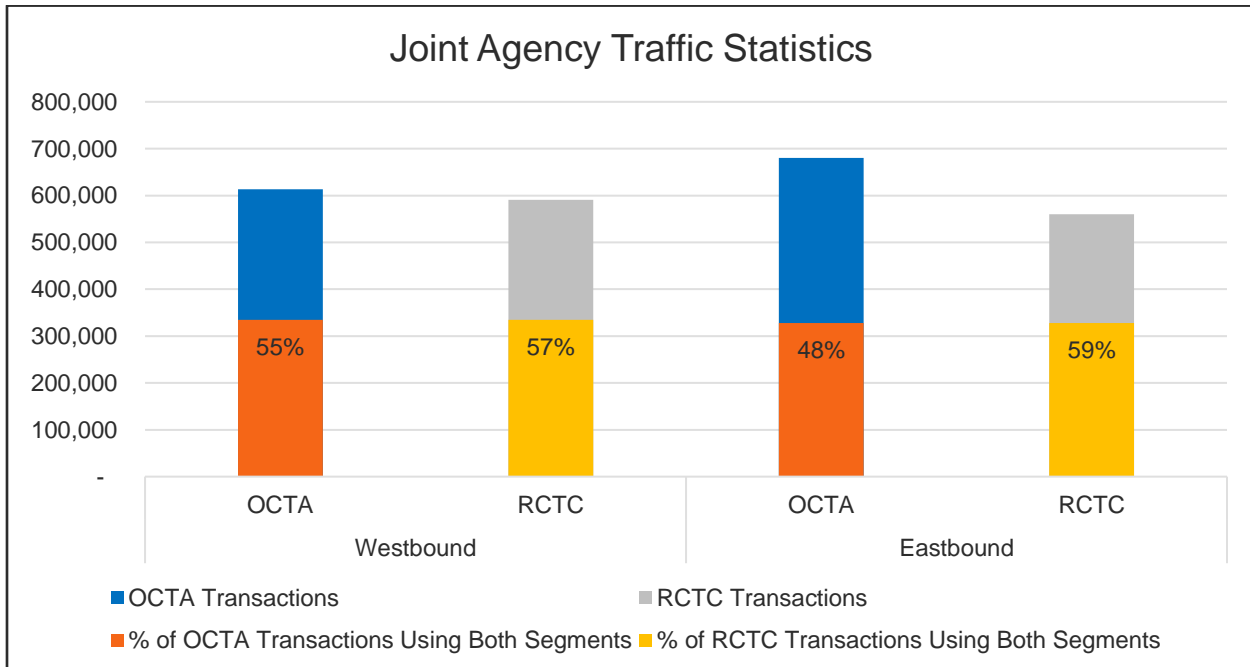
(1) Represents 5 weeks of operations

(2) Represents 6 months of operations based on anticipated January 9, 2017 opening

JOINT AGENCY TRIP AND REVENUE STATISTICS

MONTH ENDING April 30, 2017

Apr-17 MTD	Transactions by Agency	Transactions Using Both Segments	% Using Both Segments	Revenue
Westbound				
OCTA	613,569	334,440	55%	\$ 1,534,470
RCTC	590,681	334,440	57%	\$ 1,295,279
I-15	235,673	140,897	60%	\$ 533,181
McKinley	355,008	193,543	55%	\$ 762,098
Eastbound				
OCTA	680,650	327,815	48%	\$ 2,349,125
RCTC	559,953	327,815	59%	\$ 1,045,751
I-15	189,463	127,979	68%	\$ 320,717
McKinley	370,490	199,836	54%	\$ 725,035



Performance Measures

REPORTING REQUIREMENT	Reporting Period	PERFORMANCE STANDARD	Apr-17 Performance
CUSTOMER SERVICE			
** Call Wait Time	Monthly	Not to exceed 2 minutes	1:45
** Abandon Rate	Monthly	No more than 4.0%	2.5%
Customer Satisfaction	Monthly	At least 75 outbound calls	81
Convert Violators to Customers	Quarterly	8% or more	
Convert Violators to Customers	Annually	10% or more	
VIOLATION PROCESSING			
Response Time	Monthly	Within 2 business days of receipt	1.0
CUSA Violation Collection Rate	Quarterly	70% or more	
CUSA Violation Collection Rate	Annually	74% or more	
TRAFFIC OPERATIONS			
Initial & Secondary Review s	Monthly	Equal to or less than 15 days	0.8
* Plate Misread Errors	Monthly	Equal to or less than 0.4%	0.01%
CAS Response Time	Monthly	0:20 (minutes) per call	0:07
ACCOUNTING			
OCTA Exceptions	Monthly	No more than 3	0
RCTC Exceptions	Monthly	No more than 3	0
INFORMATION TECHNOLOGY			
Back-office System Uptime	Monthly	99% Availability	100%
Network Uptime	Monthly	99% Availability	100%

CUSA = Cofiroute USA; CAS = OCTA Customer Assistance Specialists

* Plate Misread Error performance is current after a 60-day hold-back period; therefore, percentage reported here is for 2 months prior to the month of this report.

** Abandon rate and wait time may not be accurate due to pending IVR report data which impacts the statistics.

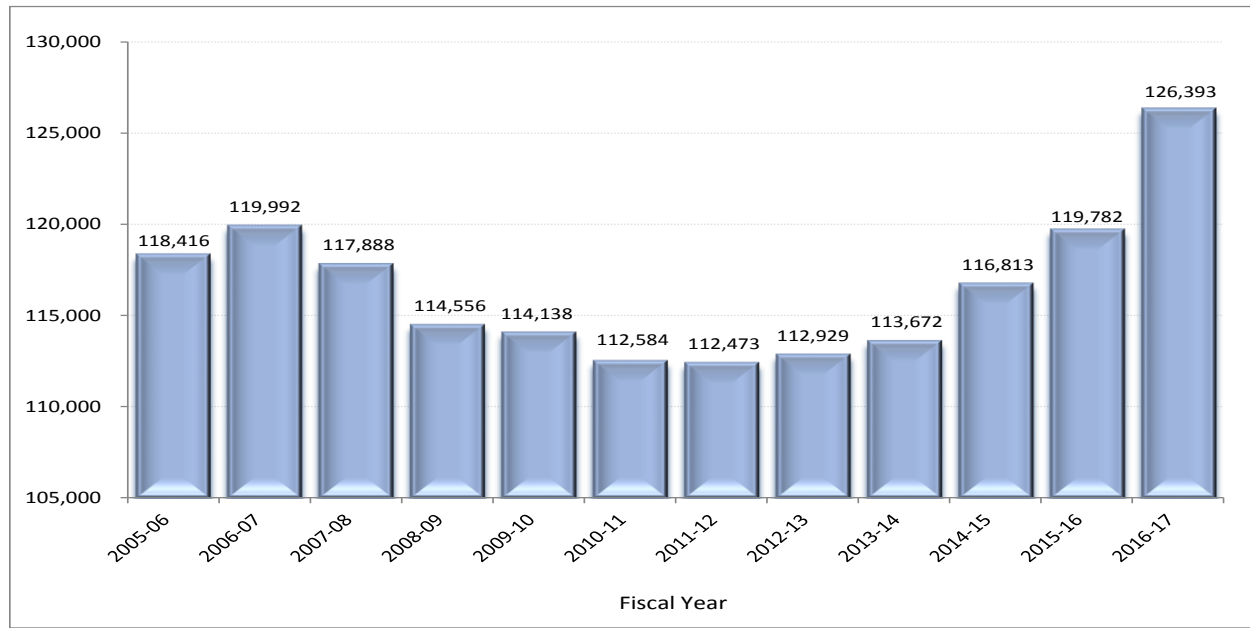
Transponder Distribution

TRANSPONDER DISTRIBUTION	April-17		March-17		FY 2016-17	
	Tags	% of Total	Tags	% of Total	Average To-Date	
Issued						
To New Accounts	2,671	56.8%	2,810	53.9%	1,308	44.7%
Additional Tags to Existing Accounts	944	20.1%	976	18.7%	669	22.8%
Replacement Transponders	1,086	23.1%	1,428	27.4%	952	32.5%
Total Issued	4,701		5,214		2,929	
Returned						
Account Closures	437	25.6%	731	31.6%	451	30.1%
Accounts Downsizing	258	15.1%	223	9.7%	163	10.9%
Defective Transponders	1,010	59.2%	1,356	58.7%	885	59.0%
Total Returned	1,705		2,310		1,499	

At the end of April 2017, the 91 Express Lanes had 126,393 active customer accounts, and 191,652 transponders classified as Assigned.

Number of Accounts by Fiscal Year

As of April 30, 2017



Incoming Email Activity

During April the Anaheim Processing Center received a total of 2,886 emails.



June 2, 2017

To: State Route 91 Advisory Committee
From: Darrell Johnson, Chief Executive Officer
Subject: 2017 State Route 91 Implementation Plan

Overview

The Orange County Transportation Authority annually prepares a long-range plan for improvements along the State Route 91 corridor between State Route 57 in Orange County and Interstate 15 in Riverside County. The plan includes a listing of potential improvements, preliminary cost estimates, and potential implementation timeframes. These improvements are sponsored by various agencies, including the Riverside County Transportation Commission and the California Department of Transportation. The 2017 State Route 91 Implementation Plan includes the latest project information and serves as reference for future project development efforts.

Recommendation

Receive and file as an information item.

Background

AB 1010 (Chapter 688, Statutes of 2002) requires the Orange County Transportation Authority (OCTA) to annually prepare a plan and a proposed schedule for improvements along State Route 91 (SR-91) between Interstate 15 (I-15) and State Route 55 (SR-55). The preparation of the plan is conducted in collaboration with the California Department of Transportation (Caltrans), the Riverside County Transportation Commission (RCTC), the Transportation Corridor Agencies, and the cities of Anaheim, Corona, and Yorba Linda.

On September 30, 2008, SB 1316 (Chapter 714, Statutes of 2008) was signed into law. This bill built upon AB 1010 to extend the limits of the corridor to State Route 57 (SR-57), authorized RCTC to operate a toll facility along the portion of the SR-91 in Riverside County, and extended the timeframe for the operations of the toll lanes to 2065. SB 1316 also allows the use of excess toll revenues for congestion relief projects or services along the SR-91 corridor between SR-57 and the Orange/Riverside County line.

The intent of the SR-91 Implementation Plan (Plan) is to list a suite of congestion relief projects and outline improvements in the SR-91 corridor that are possible given the elimination of the non-compete clause related to the franchise agreement under AB 680 (Chapter 310, Statutes 1995). The Plan describes projects and transportation benefits, anticipated implementation schedules by milestone year, and costs for major projects through 2035. The projects for the Plan have been updated based on the latest information provided by the project sponsors.

Discussion

Since 2002, OCTA, Caltrans, and RCTC have made significant progress in improving the SR-91. Completed projects include:

- Green River Road Overcrossing Improvement Project
- North Main Street Corona Metrolink Parking Structure Project
- Eastbound lane addition from State Route 241 (SR-241) to State Route 71 (SR-71)
- Lane addition in both directions between SR-55 and SR-241
- Westbound lane at Tustin Avenue
- Metrolink service improvements

A total of \$478 million has been invested in the completion of six projects, including the addition of 17 lane miles throughout the SR-91 corridor. Since 2003, average daily traffic throughput has increased by 12 percent, showing that improvements within the corridor have helped in alleviating the effects of population growth and facilitated connectivity between Orange and Riverside counties by enhancing capacity and improving mobility. These figures do not include the Riverside County 91 Corridor Improvement Project (CIP). Although the CIP is open to traffic, the project remains in the Plan as an active project since formal completion is expected to occur in November 2017.

The Plan, which includes input from the stakeholders, is provided in Attachment A. The projects are organized by readiness and logical sequencing.

Early improvements in the corridor are anticipated to be completed by 2021 and include four projects, at a total cost of \$1.65 billion. The planned projects include:

- Initial phase of the Riverside County 91 CIP:
 - Widen SR-91 by one general purpose (GP) lane in each direction east of Green River Road
 - Extend the 91 Express Lanes to I-15
 - Add collector-distributor roads in the vicinity of the City of Corona
 - Add I-15/SR-91 direct high-occupancy vehicle/high-occupancy toll (HOV/HOT) south connector

- Add southbound HOV/HOT lanes on I-15 to Ontario Avenue
 - Provide system/local interchange improvements
- Express bus service improvements between Orange and Riverside counties
- Direct connector between the 91 Express Lanes and SR-241
- Metrolink Service and Station Improvements

Three other projects are slated for implementation between 2022 and 2030, including improvements at the SR-71/SR-91 interchange, widening SR-91 between SR-57 and SR-55 and I-15/SR-91 direct north connector. Projects anticipated for implementation by 2030 are estimated to cost between \$524 million and \$1 billion.

Improvements for implementation by 2035 focus on longer lead time concepts and include:

- Ultimate phase of the 91 CIP:
 - Widening SR-91 by one GP lane in each direction from SR-241 to SR-71
 - Improving SR-91, east of I-15
- Fairmont Boulevard improvements at SR-91

The post-2035 list of improvements included in Appendix A of the Plan are highly conceptual in nature. Some of the concepts are derived from the Riverside - Orange County Major Investment Study. Appendix A includes an elevated four-lane facility between SR-241 and I-15, Anaheim to Ontario International Airport high-speed ground transportation system, and the Irvine - Corona Expressway (ICE) from SR-241/State Route 133 to I-15/Cajalco Road, connector improvements at the SR-91/SR-55 interchange, and an eastbound fifth lane addition near SR-241. The projected cost of the post-2035 projects is in excess of \$14 billion, and the implementation will require a significant amount of planning, design, external funding, and future policy and public input.

Lastly, staff continues to monitor the financial viability of the ICE concept as requested by the SR-91 Advisory Committee and the Riverside Orange Corridor Authority in 2010. The ICE has not moved beyond the conceptual phase due to the current economic climate, lack of state and federal transportation funding, and the high construction cost. Until considerable advancements are made in efficient and affordable tunneling technology, and more state and federal funding is available, this project will be a major challenge to complete.

Summary

OCTA has completed the 2017 Plan required by AB 1010 and subsequently, SB 1316 legislation. Updates include project schedules, project descriptions, costs, and traffic analysis.

Attachment

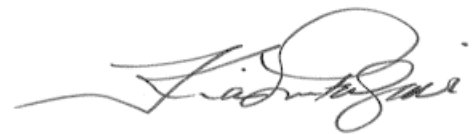
- A. Draft 2017 State Route 91 Implementation Plan 2017

Prepared by:



Alison Army
Senior Transportation Analyst
Project Development
(714) 560-5537

Approved by:



Kia Mortazavi
Executive Director, Planning
(714) 560-5741

Draft

STATE ROUTE 91

IMPLEMENTATION PLAN

2017



In Association with:



Prepared by:

Michael Baker
INTERNATIONAL

Austin Transportation Consulting
ATC



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SECTION 1: 2017 STATUS REPORT AND UPDATE

INTRODUCTION

Previous law authorized the California Department of Transportation (Caltrans) to enter into franchise agreements with private companies to construct and operate four demonstration toll road projects in California. This resulted in the development of the 91 Express Lanes facility in Orange County. The four-lane, 10-mile toll road runs along the median of State Route 91 (SR-91) in northeast Orange County between the Orange/Riverside County line and State Route 55 (SR-55). Since the 91 Express Lanes carried its first vehicle on December 27, 1995, the facility has saved users tens of millions of hours of commuting time.

While the 91 Express Lanes facility has improved travel time along the SR-91 corridor, provisions in the franchise agreement between Caltrans and the private franchisee, the California Private Transportation Company (CPTC), prohibited Caltrans and county transportation agencies from adding transportation capacity or operational improvements to the SR-91 corridor through the year 2030 from Interstate 15 (I-15) in Riverside County to the Orange/Los Angeles Counties border. Consequently, the public agencies were barred from adding new lanes, improving interchanges, and adding other improvements to decrease congestion on the SR-91 freeway.

Recognizing the need to eliminate the non-compete provision of the franchise agreement, Governor Gray Davis signed Assembly Bill 1010 (Lou Correa) (AB 1010) into law in September 2002, paving the way for much-needed congestion relief for thousands of drivers who use SR-91 to travel between Riverside and Orange Counties each day. The bill allowed the Orange County Transportation Authority (OCTA) to purchase the 91 Express Lanes franchise and eliminate the existing clause that prohibited any capacity-enhancing improvements from being made to SR-91 until the year 2030. The purchase agreement for the 91 Express Lanes was completed on January 3, 2003, placing the road in public hands at a cost of \$207.5 million. With the elimination of the non-compete provision through AB 1010 and the subsequent 91 Express Lanes purchase by OCTA,

Orange County and Riverside County public officials and Caltrans Districts 8 and 12 have been coordinating improvement plans for SR-91.

Senate Bill 1316 (Lou Correa) (SB 1316) was signed into law in September 2008 as an update to the provisions of AB 1010. SB 1316 authorizes OCTA to transfer its rights and interests in the Riverside County portion of SR-91 toll lanes by assigning them to the Riverside County Transportation Commission (RCTC), and authorizes RCTC to impose tolls for 50 years. SB 1316 also requires OCTA, in consultation with Caltrans and RCTC, to issue an annual SR-91 Implementation Plan (Plan) and a proposed completion schedule for SR-91 improvements from State Route 57 (SR-57) to I-15. The Plans prior to adoption of SB 1316 included a westerly project limit of SR-55. The Plan establishes a program of projects eligible for funding by the use of potential excess toll revenue and other funds.

This 2017 Plan is the result of the requirement to provide the State Legislature with an annual Implementation Plan for SR-91 improvements and builds on the 2016 report, which was a major update of the previous annual Implementation Plans. This year's update includes projects that were identified in the 2006 Riverside County – Orange County Major Investment Study (MIS) as well as other project development efforts and funding programs such as the RCTC 10-Year Western County Highway Delivery Plan that outlines a number of projects such as the extension of High Occupancy Toll (HOT) Lanes from the Orange/Riverside County line to I-15 (currently under construction), the California Transportation Commission (CTC) Corridor Mobility Improvement Account (CMIA) that provides a funding source for transportation projects, the extension of the Measure A program that provides funding for transportation projects in Riverside County, and the Renewed Measure M program that provides funding for transportation projects in Orange County. The 2017 Plan includes an overview, identification of issues and needs, time frames for project packages to improve mobility on SR-91, and are listed based on a logical sequence for implementation. Project descriptions include conceptual

lane diagrams (as appropriate), cost estimates (in 2017 dollars, or as noted), and discussion of key considerations that need to be addressed in the planning and development of each project. This Plan will provide OCTA, RCTC, and Caltrans with a framework to implement SR-91 and other related improvements. Future annual Plan updates will continue to refine the scope, cost, and schedule of each project included in this version of the Plan.

PROJECT ACCOMPLISHMENTS

Much progress has been made since the initial 2003 SR-91 Implementation Plan was approved. The 2017 Plan includes select completed project exhibits as a historical reference, see Section 4 Appendix B.

Completed Construction/Improvement Projects

As of June 2017, the following improvements have been constructed or implemented:

- ❖ Repave and seal pavement surfaces, restripe, and replace raised channelizers on the 91 Express Lanes.
- ❖ EB SR-91 restripe and median barrier reconstruction project that removed the CHP enforcement area and extended the EB auxiliary lane from SR-71 to the Serfas Club Drive off-ramp.
- ❖ WB auxiliary lane extension between the County line and SR-241. This project eliminated the lane drop at the 91 Express Lanes and extended the existing auxiliary lane from the County line to SR-241 in the westbound direction. This improvement minimized the traffic delays at the lane drop area, resulting in improved vehicle progression.
- ❖ WB restripe project extended the auxiliary lane between SR-71 and the County line resulting in a new continuous auxiliary lane between SR-71 & SR-241.
- ❖ Express Bus improvements are implemented for the Galleria at Tyler to South Coast Metro route and Village at Orange to Riverside/Corona.
- ❖ Safety Improvements at the Truck Scales. Existing shoulders were improved, lanes were re-striped, illumination improved, and signage was modified into and out of the EB facilities.
- ❖ Green River Road overcrossing replacement (See Section 4).
- ❖ Metrolink parking structure at the North Main Street Corona Metrolink Station (See Section 4).
- ❖ EB SR-91 lane addition from SR-241 to SR-71 (See Section 4).
- ❖ Additional SR-91 WB and EB travel lane between SR-55 and SR-241 (See Section 4).
- ❖ SR-91 WB bypass lane to Tustin Avenue at SR-55 (See Section 4).
- ❖ Metrolink Service Improvements (See Section 4).

These projects provide enhanced freeway capacity and/or improved mobility for one of the most congested segments of SR-91.

The completed EB SR-91 lane addition project from SR-241 to SR-71 (See Section 4) has greatly enhanced highway operations. This accounts for some of the improvement in existing EB p.m. peak hour travel time from approximately 70+ minutes in 2010 to approximately 50 minutes in 2014 (for the baseline travel time).

In addition, there are two projects that have a direct impact upon SR-91 widening projects. The first is the \$2 billion U.S. Army Corps of Engineers (Corps) Santa Ana River Mainstem (SARM) improvement project that provides flood protection from the recently improved Prado Dam (near SR-71) to the Pacific Ocean. As part of the Corps' project, existing riverbanks have been improved due to the increased capacity of the Prado Dam outlet works, which can now release up to 30,000 cubic feet per second (cfs) compared to the previous facility capacity of 10,000 cfs. The only remaining segments of the Santa Ana River to be improved are Reach 9 Phase 2A, which includes areas along SR-91 from just east of the Coal Canyon Wildlife Corridor Crossing to SR-71, and segments along Weir Canyon Road near Savi Ranch. SR-91 project design teams have coordinated with the Corps, Caltrans, and other federal, regional, and local agencies in order to accommodate future SR-91 improvements by the Corps bank protection project within Reach 9 Phase 2B by relocating the Santa Ana River. This has greatly enhanced the ability of Caltrans and other regional transportation agencies to implement many of the SR-91 improvement projects listed herein. The Corps SARM Reach 9 Phase 2B improvements were under construction as of September 2009 with American Recovery and Reinvestment Act (ARRA) "stimulus" funding and construction was finalized in April 2015. Environmental mitigation within the Santa Ana River perennial stream habitat restoration area will continue for another six years of the nine year mitigation program.

The other project with a direct impact to SR-91 is the \$120 million Santa Ana Regional Interceptor (SARI) sewer trunk line relocation. The existing SARI line is within the Santa Ana River floodplain and was in jeopardy of failure due to scour from the potential increased flood releases by the aforementioned Corps project. In order to relocate the proposed 48-inch diameter SARI line outside of the floodplain, which is immediately adjacent to SR-91, Caltrans highway R/W was relinquished to the Orange County Flood Control District (OCFCD) for location of the SARI line. SR-91 project teams have coordinated with the OCFCD, Caltrans, and other federal, regional, and local agencies in order to accommodate planned SR-91 improvements within the remaining State R/W subsequent to relinquishment. This project completed the construction phase in mid-2014.

The WB SR-91 Widening Project completed construction in 2016 from State College Blvd to Interstate 5 (I-5). This project added one WB general purpose lane and removed the dedicated exit lane to State College Blvd from the SB SR-57 to WB SR-91 Connector that was causing operational issues due to the short weaving distance. While this project falls just to the west of the limits for the Plan study area, it will have an influence on operations within the Plan area and on Project 6.

Completed Designs and other Reports

In addition to the physical improvements in the corridor, there are various project development phase documents (Feasibility Reports, Studies, PSR, PA/ED, or PS&E) that are completed, or are in draft form and anticipated to be approved that identify improvements that will provide improved mobility. These documents include (also see Section 5):

- ❖ MIS – Final Project Report: Locally Preferred Strategy Report (January 2006).
- ❖ Renewed Measure M Transportation Investment Plan (November 2006).
- ❖ Project Study Report for SR-71/SR-91 Interchange (December 2006).
- ❖ RCTC 10-Year Western County Highway Delivery Plan (December 2006).
- ❖ SR-91/Fairmont Boulevard Feasibility Study (December 2009).
- ❖ Corridor System Management Plan (CSMP) Orange County SR-91 Corridor Final Report (August 2010).
- ❖ Renewed Measure M Early Action Plan, approved August 2007 and subsequently renamed as the

Capital Action Plan (April 2011).

- ❖ PSR-PDS for SR-241/SR-91 Connector (January 2012).
- ❖ PS&E for Initial SR-91 Corridor Improvement Project (CIP) Project (2014).
- ❖ PSR-PDS on SR-91 between SR-57 and SR-55 (October 2014).
- ❖ Measure M Next 10 Delivery Plan (Next 10 Plan), (November 2016).

Updates from the 2016 SR-91 Implementation Plan

In addition to the improvements and progress noted above, the following items that were included in the 2016 SR-91 Implementation Plan have been modified for the 2017 Plan update:

- ❖ Various project descriptions, costs, and schedules have been updated from the 2016 Plan based on continued project development.
- ❖ Project schedules have been revised within the horizon year timelines. The 2019 horizon year is updated to 2021.
- ❖ The Metrolink Short-Term Expansion Plan has been restructured with station portions of the plan included in the updated Project 3 - Metrolink Service and Station Improvements, and with currently completed service enhancements included as Project B-6 (see Appendix B) and schedule has advanced by 10 years.

SR-91 CORRIDOR CONDITIONS

Project Limits

The project study limits encompass the segment of SR-91 from west of the junction of SR-57 and SR-91 in the City of Anaheim in Orange County, to east of the junction of SR-91 and I-15 in the City of Corona in Riverside County. The freeway segment is approximately 20.3 miles long, and includes approximately 12.7 miles within Orange County and approximately 7.6 miles within Riverside County.

Traffic Conditions Summary

A review of traffic conditions in the Corridor indicates that the existing carrying capacity of the facility is inadequate to accommodate current and future peak demand volumes, and that Level of Service (LOS) F prevails in the peak direction during the entire peak period, where LOS F is defined as the worst freeway operating condition and is

defined as a density of more than 45 passenger cars/lane/mile. The results also indicate that there are several physical constraints that generate unacceptable traffic queues. The following list summarizes the deficiencies identified along the SR-91 Corridor:

- ❖ Heavy traffic volumes from I-15 (North and South) converge with SR-91. The weaving and merging condition is complicated by the close proximity of the Westbound (WB) Main Street off-ramp.
- ❖ High traffic volumes from Gypsum Canyon Road and Santa Ana Canyon Road contribute to congestion on the mainline. A significant number of this traffic is redirected (balanced) traffic trying to bypass mainline congestion.
- ❖ One of the two EB lanes from The Eastern Transportation Corridor (State Route 241) is dropped at the merge to State Route 91 (SR-91), causing additional congestion in the EB direction.
- ❖ Heavy traffic reentering the freeway merges at slow speeds from existing WB and EB truck scales, impacting the general-purpose lanes. EB truck traffic must make two lane changes to stay on EB SR-91.
- ❖ SR-55 merges with SR-91. An EB lane on SR-91 is dropped (as a dedicated exit) at Lakeview Avenue and a second EB lane is dropped (as a dedicated exit) at Imperial Highway creating a weave condition.
- ❖ WB SR-91 drops a GP lane and a 91 Express Lane to SB SR-55, which contributes to mainline congestion. This drop also occurs on the left-hand side of SR-91 as opposed to the typical right-hand connector exit.
- ❖ High demand from Weir Canyon Road, Imperial Highway and Lakeview Avenue increases delay during the peak hours.
- ❖ WB traffic entering SR-91 at Lakeview Avenue to southbound (SB) SR-55 contributes to mainline congestion by weaving through three lanes on WB SR-91.
- ❖ The existing two lane connector from WB SR-91 to SB SR-55 is over capacity.
- ❖ There is a trap lane from EB SR-91 that terminates at SB SR-241 which creates a chokepoint in the area.

PROJECT SUMMARY

Many of the highway projects and concepts identified in this 2017 Plan are based on the MIS that was completed in January 2006. The projects and concepts are

presented based on potential implementation schedules and priorities established in the MIS as well as through subsequent project development. Table 1 summarizes the various pending, potential concepts, and completed projects in the 2017 Plan, and they are outlined below by implementation/construction schedule (see Section 2 for detailed pending projects, Section 3 Appendix A for concept project summaries, and Section 4 Appendix B for completed project summaries):

- ❖ The first set of projects is anticipated to be completed by 2021 and includes four improvements at a total cost of approximately \$1.65 billion. The projects include the Initial SR-91 CIP that will widen SR-91 by one GP lane in each direction east of Green River Rd, add collector-distributor (CD) roads and direct south connectors at I-15/SR-91, extend the 91 Express Lanes to I-15, and provide system/local interchange improvements; Express Bus service improvements; Metrolink service and station improvements; and a State Route 241 (SR-241)/ 91 Express Connector. These projects are in the process of final design, construction, or procurement and implementation, as noted in the project summaries.
- ❖ Three projects for implementation by 2030 include the interchange improvements at SR-71/SR-91, SR-91 widening improvements between SR-57 and SR-55, and the I-15/SR-91 Direct North Connector. OCTA, RCTC, and Caltrans have initiated preliminary planning activities for these projects to ensure readiness when local, state, or federal funding becomes available. The 2030 projects are funded and underway in various stages of project development. Projects for implementation by 2030 would cost approximately \$650 million to \$754 million.
- ❖ Projects for implementation by 2035 focus on longer-lead time projects and include a potential new interchange or overcrossing at Fairmont Boulevard, and the Ultimate SR-91 CIP that includes widening SR-91 by one GP lane in each direction from SR-241 to SR-71 and SR-91 improvements east of I-15.
- ❖ Long-range concepts for potential Post-2035 implementation (potentially earlier if funding becomes available) in Appendix A include an elevated 4-lane

facility (MIS Corridor A) from SR-241 to I-15, the Anaheim to Ontario International Airport Maglev High Speed Rail, the Irvine-Corona Expressway (ICE) 4-lane facility from SR-241/SR-133 to I-15/Cajalco Road (formerly known as MIS Corridor B), the WB SR-91 to SB SR-55 Improvements, and the EB SR-91 Fifth Lane Addition at SR-241. This multi-billion dollar potential concept program requires a significant amount of planning, design, and future policy and public input. In some cases, these concepts may include previous projects as components, such that all concepts within this summary may not be implemented.

Traffic Analysis

For the 2017 Plan, the traffic analysis for major SR-91 capacity projects has been updated from the 2016 Plan. This analysis used the latest freeway operations software model available from UC Berkeley and traffic data calibrated to reflect new traffic patterns since the 2016 Plan. This freeway operations model provides a better depiction of actual travel delays experienced by motorists compared to traditional travel demand models. The model can be used to analyze freeway bottlenecks sometimes neglected in traditional travel demand models. This approach is especially important given high SR-91 traffic volumes and the potential for relatively few vehicles to significantly slow down traffic. For example, a minor freeway merging area can cause many vehicles to slow, cascading delay through the traffic stream, and suddenly both speed and volume rapidly decrease for major segments of the freeway.

The operations analysis quantified travel time savings for WB morning and EB afternoon conditions for the following major capacity enhancing projects:

- ❖ New SR-91 WB/EB lanes from SR-71 to I-15 by 2017 (Initial CIP, Project 1).
- ❖ SR-241/91 Express Connector with lanes to Coal Canyon on SR-91 by 2021 (Project 4).
- ❖ SR-91 EB lane between SR-57 and SR-55 by 2030 (Project 6).
- ❖ New SR-91 WB/EB lanes, various segments from SR-241 to east of I-15 by 2035 (Ultimate CIP,

Table 1 – SR-91 Implementation Plan Projects

Project No.	Project Summary (Implementation Year)	Cost (\$M)
Projects By Year 2021		
1	Initial Phase CIP: Widen SR-91 by One GP Lane in Each Direction East of Green River Rd, CD Roads and I-15/SR-91 Direct South Connector, Extension of Express Lanes to I-15 and System/Local Interchange Improvements (2017)	1,407
2	Express Bus Service Improvements Between Orange County and Riverside County (2017)	6
3	Metrolink Service and Station Improvements (2020)	55.8
4	SR-241/91 Express Connector (2021)	181
	SUBTOTAL	1,650
Projects By Year 2030		
5	SR-71/SR-91 Interchange Improvements (2023)	123.4
6	SR-91 between SR-57 and SR-55 (2030)	347-450
7	I-15/SR-91 Direct North Connector (2030)	180
	SUBTOTAL	650-754
Projects By Year 2035		
8	Fairmont Boulevard Improvements (By 2035)	76.8
9	Ultimate CIP: Widen SR-91 by One GP Lane in Each Direction from SR-241 to SR-71 and SR-91 Improvements East of I-15 (2035)	TBD
	SUBTOTAL	77+
Appx. A	Concept Summary (Implementation Year)	Cost (\$M)
Concepts By Post-2035 and Conceptual Projects		
A-1	Elevated 4-Lane Facility (MIS Corridor A) from SR-241 to I-15 (Post-2035)	2,720
A-2	Anaheim to Ontario International Airport Maglev High Speed Rail (Post-2035)	2,770 – 3,200
A-3	Irvine-Corona Expressway (ICE) 4-Lane Facility from SR-241/SR-133 to I-15/Cajalco Road (Post-2035)	8,855
A-4	WB SR-91 to SB SR-55 Improvements (Post-2035)	75 – 150
A-5	EB SR-91 Fifth Lane Addition at SR-241	31
	SUBTOTAL	14,451 – 14,956
Appx. B	Completed Project Summary Since 2006 (Constructed Year)	Cost (\$M)
B-1	Green River Road Overcrossing Replacement (March 2009)	24.3
B-2	North Main Street Corona Metrolink Station Parking Structure (June 2009)	25
B-3	Eastbound Lane Addition from SR-241 to SR-71 (September 2010)	51.2
B-4	Widen SR-91 between SR-55 and SR-241 by Adding a 5 th GP Lane in Each Direction (January 2013)	85.2
B-5	SR-91 WB Lane at Tustin Avenue (April 2016)	45.2
B-6	Metrolink Service Improvements (June 2016)	249

Project 9).

The WB morning (a.m.) traffic analysis results indicate that for the year 2021 forecasts, travel times in Riverside County are anticipated to improve significantly (by about 8 minutes) due to the inclusion of the Initial Phase of the CIP (Project 1), but increase slightly (by about 1 minute) in Orange County. Bottlenecks are anticipated at the Orange-Riverside County line and at the SR-241 interchange/Gypsum Canyon interchange area. A minor bottleneck is shown at the SR-55 interchange. The main bottlenecks in Riverside County have decreased because of the completion of proposed projects (including the Initial Phase of the CIP), though some congestion is still forecasted. In the year 2030 forecast, WB bottlenecks occur at the Orange-Riverside County line and at the SR-241 interchange/Gypsum Canyon interchange area. This results in an increase in travel time within Riverside County from about 27 minutes in 2021 to about 45 minutes in 2030. The completion of Project 6 improves the minor bottleneck at the SR-55 interchange. Assuming Corridor A and the ICE are not constructed by 2035, bottlenecks appear at the Orange-Riverside County line, at the SR-241 interchange/Gypsum Canyon interchange area, and a minor bottleneck at the SR-55 interchange. With completion of the ultimate CIP project, Riverside County 2035 travel times (about 19 minutes) improve dramatically with reduction to below 2021 levels (about 27 minutes). For all forecast horizon years, travel times in Orange County remain relatively unchanged between

Existing (2016) and 2030 and show an increase in 2035 (approximately 5 minutes over existing) due to the growth in traffic and alleviation of bottlenecks upstream. A project to address the operational aspects for the WB SR-91 to SB SR-55 movement is included (see Concept A-4) in addition to exploring multi-modal opportunities by OCTA on, or adjacent to, the SR-91 corridor that could provide additional congestion relief.

The EB evening (p.m.) peak hour traffic analysis indicates that for the year 2021 forecasts, bottlenecks are shown just before the SR-55 interchange, at the Orange-Riverside County line, and just before the Main Street interchange. Implementation of Project 1, the Initial Phase of the CIP, results in decreased Riverside County corridor travel times from approximately 26 minutes to 17 minutes in 2021. In the year 2030 forecast, EB bottlenecks are still shown west of the SR-55 interchange at the Orange-Riverside County line, and just before the Main Street interchange, with overall travel time increasing by approximately 11 minutes compared to 2021 conditions. For the 2035 horizon year, bottlenecks appear at SR-55, at SR-241, and just before the Main Street interchange. The 2035 travel times for EB SR-91 in Riverside County are reduced due to the completion of proposed projects but gradually increase (to an additional 14 minutes) in Orange County when compared to 2021. Figures 1-1 and 1-2 below show the existing (2016) and horizon year corridor travel times by County.

Figure 1-1 – Mainline Westbound SR-91 from I-15 to SR-57 A.M. Peak Hour Average Travel Time (Minutes)

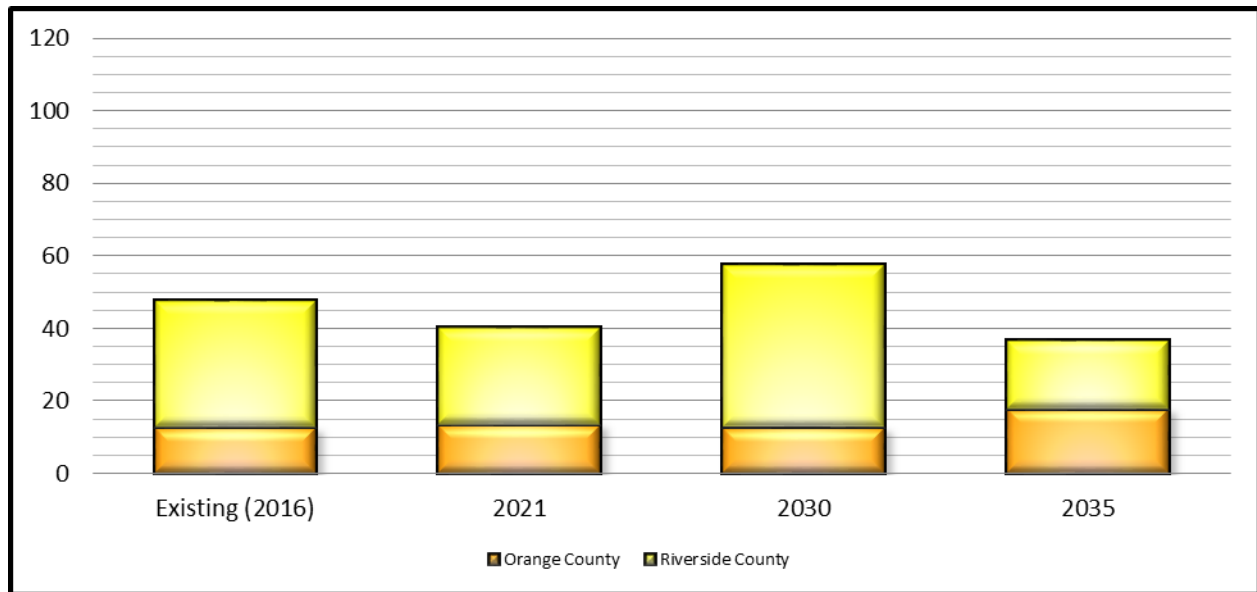
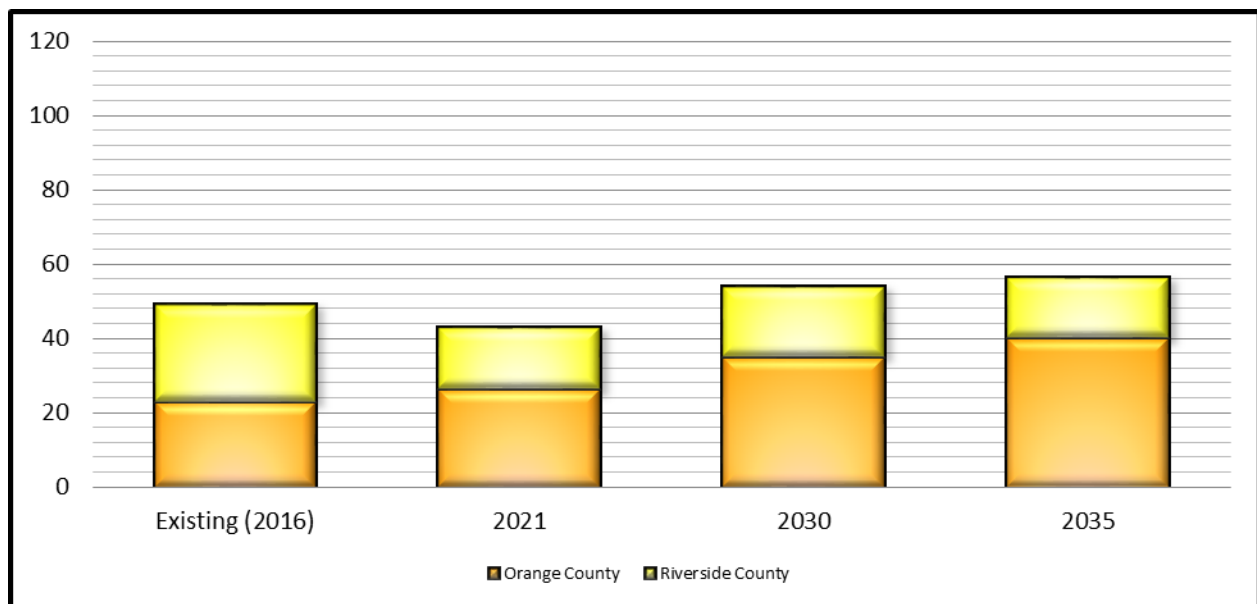


Figure 1-2 – Mainline Eastbound SR-91 from SR-57 to I-15 P.M. Peak Hour Average Travel Time (Minutes)



ICE STATUS SUMMARY

The ICE concept (see Concept A-3) was conceived as part of the MIS and was established as part of a suite of projects to support future peak demand volumes between Riverside and Orange Counties. The ICE was further evaluated in 2009 for financial and geotechnical feasibility. Seven (7) primary feasibility issues were considered:

- ❖ Geologic, hydrogeologic/hydrologic, and geotechnical conditions.
- ❖ Corridor concepts (full tunnel and partial tunnel/partial surface road).
- ❖ Tunnel configuration.
- ❖ Tunnel excavation and support methods.
- ❖ Tunnel systems (e.g. ventilation, emergency fire system, operation building, toll system, etc.).
- ❖ Construction considerations.
- ❖ Construction, Operation & Maintenance (O&M) costs.

At the conclusion of the financial and geotechnical feasibility study in 2010, the Riverside-Orange Corridor Authority Board (ROCA) directed staff to shelve the project due to its high construction cost and the difficult economic climate, and to reevaluate the concept on an annual basis during the preparation of the SR-91 Implementation Plan.

The National Forest Service has continued monitoring of the ground water level along the preliminary alignment of the tunnel and has not found any significant changes since 2010. The technological ability to construct the large-diameter tunnels is currently available; however, the cost of tunnel boring machines (TBM) required to construct this project has not been reduced significantly.

In general, no significant changes to the seven feasibility issues considered for the ICE concept have occurred over the last seven years.

Conclusion

An assessment of current economic conditions, lack of state and federal transportation funding; and the high construction cost is hampering the ability of OCTA and RCTC to implement this concept. Until considerable advancements are made in regards to efficient and affordable tunneling technology, and more state and federal funding are made available, the concept will remain a challenge to implement.

OVERVIEW

The 2017 Plan describes projects, implementation schedules, key consideration, benefits, and costs (in 2017 dollars, or as noted) for major projects and concepts through Post-2035. Some of the projects and concepts identified in this Implementation Plan are based on the MIS that was completed in January 2006. The projects and concepts are presented based on potential implementation schedules and priorities established in the MIS and subsequent updates. The schedules for implementation of the packages of projects include 2021, 2030, and 2035. The 2021 projects are capable of being implemented through the project development process with minimal to moderate environmental constraints or are under construction. Some of the longer-range projects for 2030 and 2035 require more significant planning and environmental assessment prior to design.

Each of the project or concept improvements includes an estimated project schedule. It is important to note that implementing various time saving measures, such as design-build or contractor incentives for early completion, may potentially reduce project schedules. The implementation phases are defined as follows:

- ❖ **Conceptual Engineering = Pre-Project Study Report (Pre-PSR)** – Conceptual planning and engineering for project scoping and feasibility prior to initiating the PSR phase.
- ❖ **Preliminary Engineering = Project Study Report (PSR)** – Conceptual planning and engineering phase that allows for programming of funds.
- ❖ **Environmental = Project Approval/Environmental Document (PA/ED)** – The detailed concept design that provides environmental clearance for the project and programs for final design and right of way acquisition. The duration for this phase is typically 2-3 years.
- ❖ **Design = Plans, Specifications and Estimates (PS&E)** – Provide detailed design to contractors for construction bidding and implementation.
- ❖ **Construction** = The project has completed construction and will provide congestion relief to motorists.

The intent of these Implementation Plan project packages is to provide an action list for OCTA, RCTC and Caltrans to pursue in the project development process or for initiating further studies.

Figure 2-1 – SR-91 Project Study Area from SR-57 to I-15



PROJECTS BY YEAR 2021

The first set of projects will be completed by 2021 and includes four (4) improvements at a total cost of approximately \$1.65 billion (in 2017 dollars, or as noted). The projects include the Initial SR-91 Corridor Improvement Project (CIP) that will widen SR-91 by one GP lane in each direction east of Green River Rd, add collector-distributor (CD) roads and direct south connectors at I-15/SR-91, extend the 91 Express Lanes to I-15, and provide system/local interchange improvements; Express Bus service improvements; Metrolink Service and Station Improvements; and a SR-241/ 91 Express Connector. Further details for each of the projects are included following the summary below.

Project No.	Project Summary (Implementation Year)	Cost (\$M)
1	Initial Phase CIP: Widen SR-91 by One GP Lane in Each Direction East of Green River Rd, CD Roads and I-15/SR-91 Direct South Connector, Extension of Express Lanes to I-15 and System/Local Interchange Improvements (2017)	1,407
2	Express Bus Service Improvements (2017)	6
3	Metrolink Service and Station Improvements (2020)	55.8
4	SR-241/91 Express Connector (2021)	181
SUBTOTAL		1,650

Figure 2-2 – Summary of Projects for Implementation By 2021



Initial Phase CIP: Widen SR-91 by One GP lane In Each Direction East of Green River Road, CD Roads and I-15/SR-91 Direct South Connector, Extension of Express Lanes to I-15 and System / Local Interchange Improvements

Project No: 1

Anticipated Completion: 2017

Project Cost Estimate*

Total Capital Cost	\$ 1,161,000,000
Support Cost	\$ 246,000,000
Total Project Cost	\$ 1,407,000,000

Project Schedule**

Preliminary Engineering	Completed
Environmental	Completed
Design/Construction	2013-2017

* Cost obtained for Initial Phase is from RCTC (2014 dollars)

** Schedule for Initial Phase; subsequent phase for Ultimate Project anticipated in 2035 (see Project #9)

Project Description

The approved Project Study Report (PSR) for the SR-91 Corridor Improvement Project (CIP), from SR-241 to Pierce Street, includes the addition of a 5th general purpose lane in each direction, the addition of auxiliary lanes at various locations, additional lanes at the SR-71/SR-91 interchange (Project #5), and collector-distributor (CD) lanes at the I-15/SR-91 interchange. Subsequently, the Riverside County Transportation Commission's (RCTC) 10-Year Delivery Plan recommended the following in addition to the PSR recommended improvements: the extension of the 91 Express Lanes from the Orange County line to I-15, the construction of SR-91 (EB/WB)/I-15 (SB/NB) Express Lanes median direct connectors, and the construction of one Express Lane in each direction from the I-15/SR-91 interchange southerly to I-15/Cajalco Road, and northerly to I-15/Hidden Valley Parkway. An Express Lanes ingress/egress lane is also planned near the County Line. Due to economic conditions, a Project Phasing Plan was developed to allow an Initial Phase with reduced improvements to move forward as scheduled, with the remaining ultimate improvements to be completed later. The following is a summary of the deferred ultimate improvements: I-15/SR-91 median North Direct Connector (Project #7), and I-15 Express Lanes North to Hidden Valley Parkway (Project #9); general purpose lanes and Express Lanes from I-15 to Pierce Street; and general purpose lanes from SR-241 to SR-71. The I-15 Express Lanes to be extended from Ontario Avenue to Cajalco Road are included in RCTC's I-15 Express Lane Project with an anticipated completion in 2020.

Key Considerations

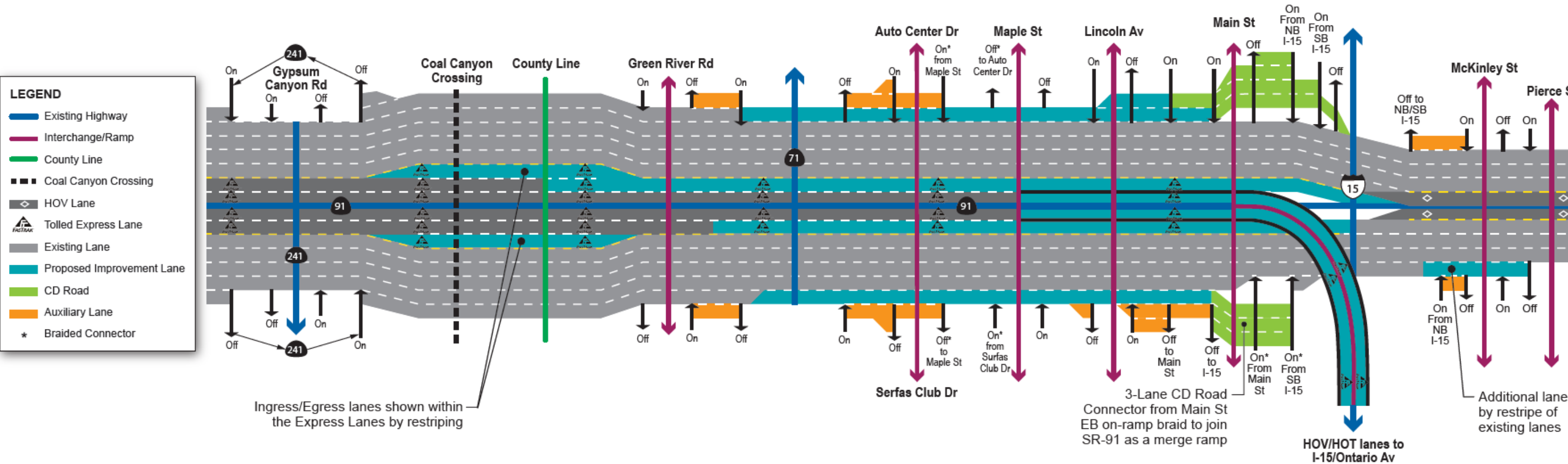
Coordination among many of the SR-91 freeway projects that overlap the project limits is critical to successfully delivering these projects on schedule and within budget. Designing to accommodate future projects is a recurring theme for each of these projects. Minimizing conflicts in scope between projects requires direct coordination between each project team. Additionally, future projects frequently have multiple alternatives under study, each with differing scope and construction footprints. Specifically, the project improvements need to continue to be coordinated with the SR-71/SR-91 Interchange (Project #5), the SR-241/91 Express Connector (Project #4), and RCTC's I-15 Express Lane Project.

Benefits

The Initial Phase and Ultimate CIP projects will reduce congestion and delays by providing additional SR-91 capacity from SR-241 to Pierce Street, along I-15 from SR-91 to Cajalco Road to the south, and to Hidden Valley Parkway to the north. Traffic operations will improve by eliminating or reducing weaving conflicts along SR-91 and I-15 by the use of CD roads and auxiliary lanes. The project will provide motorists a choice to use Express Lanes for a fee in exchange for time savings.

Current Status

The environmental phase was completed in Fall 2012. A Design-Build contractor was selected in May 2013 and construction activities began in early 2014 for the Initial Phase. The project is anticipated to open to traffic in Spring 2017 with final project acceptance anticipated at the end of 2017.



Express Bus Service Improvements

Project No: 2

Anticipated Completion: 2017

Project Cost Estimate*

Total Annual Capital Cost	\$ 1,000,000**
Total Annual Operating Cost	\$ 5,000,000**

Project Schedule

Riverside/Corona to	FY 2017
Anaheim Resort	(Planned RTA Route 200)
Temecula to	FY 2017
Village at Orange	(Planned RTA Route 205)
Village at Orange to	Existing
Riverside/Corona	(RTA Route 216)
Riverside/Corona to	Existing
South Coast Metro	(OCTA Route 794)

* Capital and Operating costs from OCTA and RCTC (2015 dollars)

** 20-year average

Project Description

Orange County Transportation Authority (OCTA), working with the Riverside County Transportation Commission (RCTC), and the Riverside Transit Agency (RTA), plans an expansion of Express Bus service between Riverside and Orange counties. Commuters lack direct transit connections to some Orange County employment centers, and new Express Bus service can provide this connection.

Existing Service

OCTA has operated Route 794 since 2006 from Riverside County to Hutton Centre and South Coast Metro (shown in orange below). RTA has operated Route 216 since 2010 between the Village at Orange and Downtown Riverside (shown in red below).

New Service

Two new Express Bus routes are planned for implementation by Fiscal Year 2017 between Riverside County and Orange County including RTA route 200 (shown in blue below) from Riverside County to Corona and to the Anaheim Resort. The route would include three AM and three PM roundtrips by three buses. RTA route 205 (shown in green below) from Temecula to the Village at Orange is proposed to include two AM and two PM roundtrips by 2 buses. Existing RTA route 216 (shown in red below) from the Riverside Downtown Terminal to the Village at Orange is planned for expansion of service from the current two buses to four buses by Fiscal Year 2023.

Upon completion of the proposed 91 Express Lanes, RCTC expects RTA to nearly double Express Bus service on SR-91. Currently, OCTA operates 15 bus trips per day on SR-91 and, based on expansion of ridership, RCTC envisions RTA adding 20 additional trips, eventually bringing the total to 35 daily trips. Service duration for this expansion will increase by 11,500 hours per year and will be served by five new RTA coaches to be procured specifically for this service, and RTA will add five more coaches by 2017.

Key Considerations

Operating costs will average \$5,000,000 each year and capital costs will average \$1,000,000 per year. The cost sharing will be negotiated between Orange and Riverside counties. RCTC is committing \$5,000,000 primarily for Express Bus purchases once the Riverside County portion of the 91 Express Lanes open.

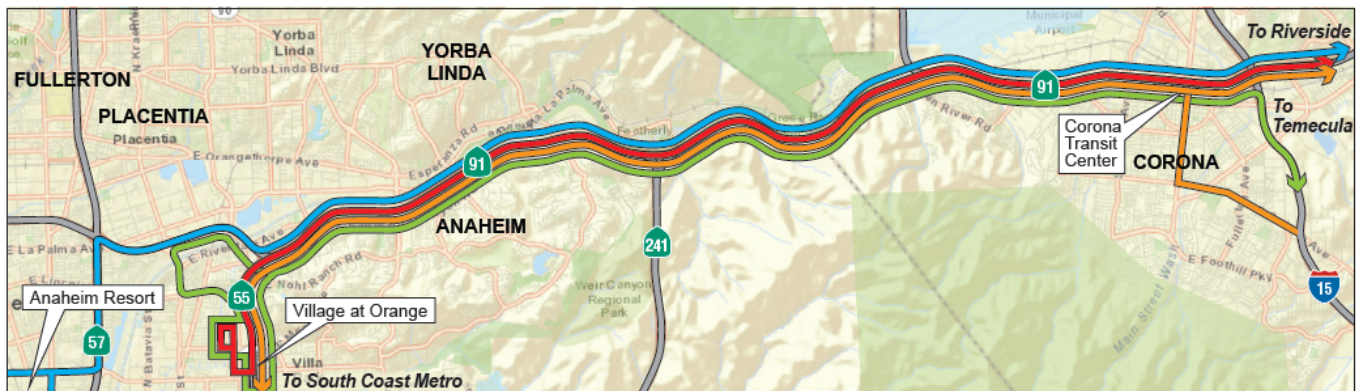
Intercounty Express Bus service is effective between locations where transit travel times by Express Bus would be more competitive than Metrolink and connecting rail feeder buses. There is some duplication of service between the existing Express Bus routes and Metrolink service. One reason customers are attracted to Express Bus service over Metrolink is that the cost is approximately 33% lower. There may be some merit to subsidizing Metrolink fares for price-sensitive transit riders in this corridor instead of keeping competitive bus service.

Benefits

Development of Express Bus services will contribute to congestion relief on SR-91.

Current Status

A cooperative agreement covering the Riverside/Corona to South Coast Metro service with Riverside County has been developed. The Riverside County to South Coast Metro Express Bus route is currently operating. Expansion of the program is dependent upon available operating funds and future financial commitments with Riverside County. The implementation dates may change based on funding availability.



Project No: 3

Anticipated Completion: 2020

Project Cost Estimate*

Anaheim Canyon Station Cost	\$ 21,000,000
Placentia Station Cost	\$ 34,800,000
Total OCTA Costs	\$ 55,800,000

Project Schedule

To be completed by 2020

* Costs from OCTA and based on projected start of construction

Project Description

The Anaheim Canyon Station improvement project includes the addition of a second track, platform, extensions of the existing platform, and associated passenger amenities, including ticket vending machines, benches, canopies and signage. This project will improve the safety and on-time performance of Metrolink service, as well as improved pedestrian circulation within the station. OCTA is the lead on all phases of project development, including environmental.

The proposed Placentia Metrolink Station will be a new station on the 91/Perris Valley line. OCTA is the lead for design and construction of the projects.

Key Considerations

Coordination has been ongoing with the Metrolink extension studies for the Anaheim Canyon and Placentia Station Improvements.

Benefits

Enables development of expanded Metrolink service, improved efficiency, and fosters train ridership growth in the region which will contribute to congestion relief on SR-91.

Current Status

Preliminary plans and environmental clearance of the Anaheim Canyon Station projects were completed in early 2017. Final plans, specifications and estimates are expected to be completed in May 2019. Construction for the Anaheim Canyon Station improvements should begin in fall 2019.

Plans for the new Placentia Station platforms, station amenities, and parking are 95 percent complete. The plans are being revised to include a parking structure and are anticipated to be complete and ready to bid in fall 2017. Construction is anticipated to begin in spring 2018.

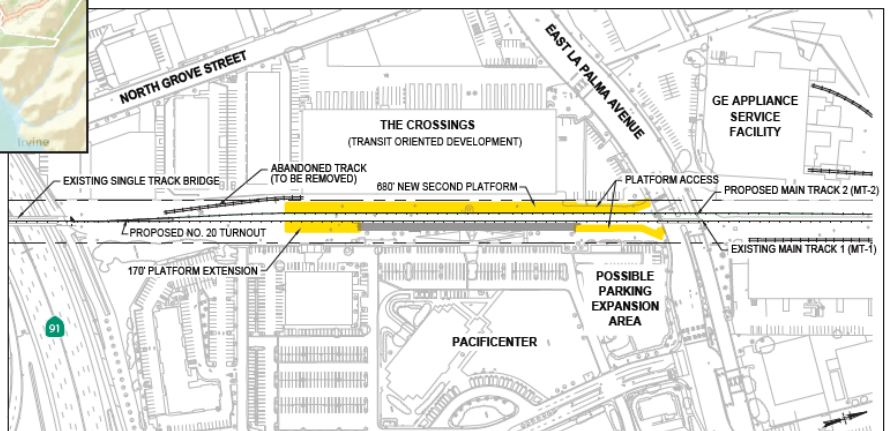
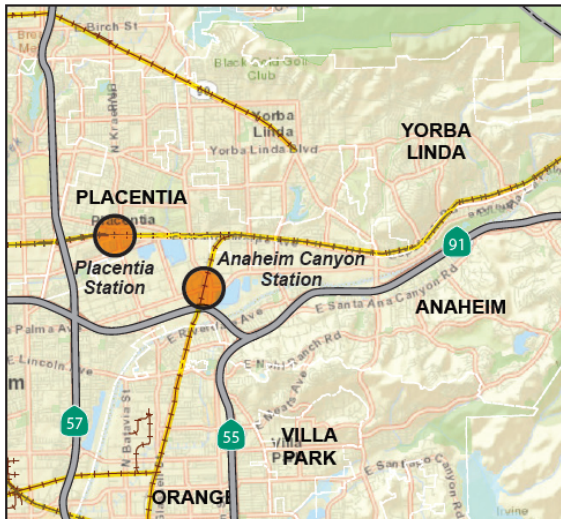


Image source:
Anaheim Canyon Station Project Definition Report, February 23, 2015

Project No: 4

Anticipated Completion: 2021

Project Cost Estimate*

Total Project Cost \$ 181,000,000

Project Schedule

Preliminary Engineering	Completed
Environmental	2012-2018
Design/Construction	2018-2021

* Assumes a 2-lane connector, extending as far as Coal Canyon.

Project Description

The SR-241/91 Express Connector will carry northbound (NB) SR-241 traffic to eastbound (EB) 91 Express Lanes and carry westbound (WB) 91 Express Lanes traffic to southbound (SB) SR-241. Outside widening would be required on the south side of SR-91 for realignment of EB lanes up to the Coal Canyon Crossing.

Key Considerations

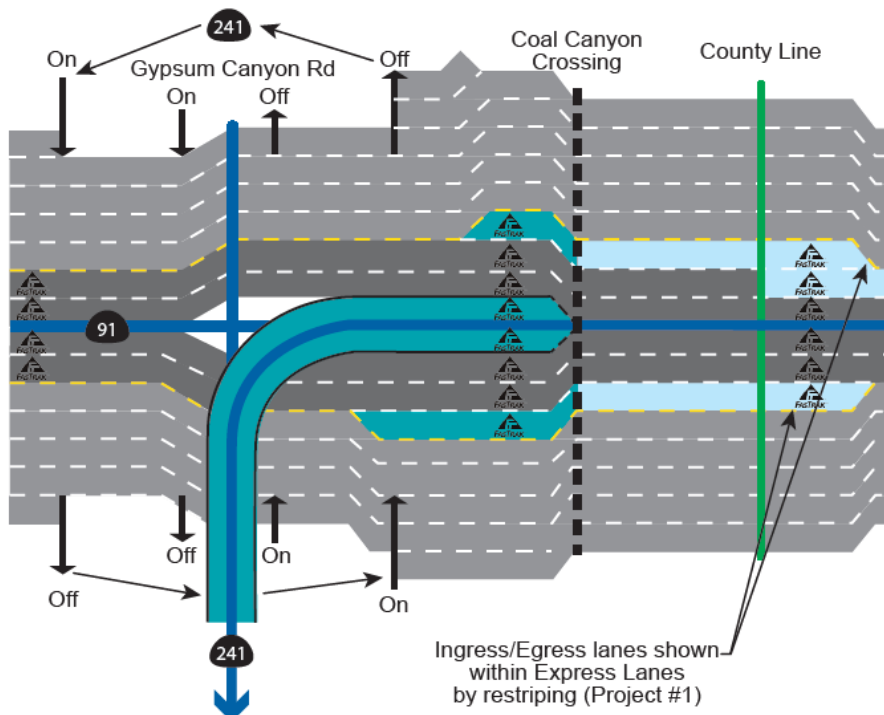
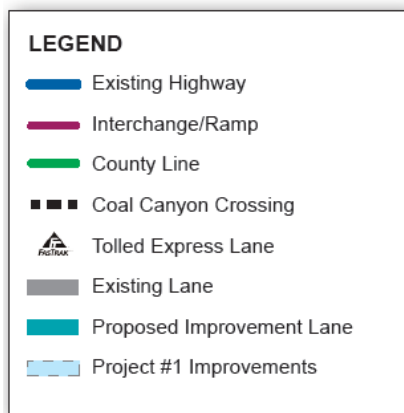
This project was originally planned as a High Occupancy Vehicle (HOV) connector into the SR-91 HOV lane. With the implementation of the 91 Express Lanes, the project will need to carefully coordinate the traffic operations and tolling policies that will result with the convergence of the SR-241 Toll Road, the existing OCTA 91 Express Lanes, and the proposed extension of the 91 Express Lanes by RCTC. The project will follow the SR-91 CIP (Project #1) in its implementation and will need to be designed accordingly. Continuous operations of the 91 Express Lanes will be a key consideration for this project. The preliminary analysis calls for the SR-91 center median to be widened to the south to make room for a two lane (one in each direction) direct connector and associated Express Auxiliary Lanes in each direction. The project would tie into the SR-91 CIP improvements at Coal Canyon.

Benefits

The project will provide connectivity from the 91 Express Lanes and the SR-241 Eastern Transportation Corridor System. The project improves access to SR-241 and South County for traffic that does not currently utilize the 91 Express Lanes, which also improves WB SR-91 by eliminating the need for HOV and Express Lane users to weave across four general purpose lanes to use the existing SB SR-241 connector. It will help alleviate congestion through the corridor by allowing SR-241 and 91 Express Lanes users to bypass the existing 241/91 general purpose connectors.

Current Status

Preliminary engineering concepts for a SR-241/91 Express Lanes direct connector have been developed by The Foothill/Eastern Transportation Corridor Agency (TCA) and Caltrans. The 91 Express Lanes Extension and SR-241 Connector Feasibility Study was completed in March 2009 and was initiated to evaluate the various alternatives. A Project Study Report was initiated in January 2011 and was completed by January 2012. The Draft Project Report and Draft Environmental Document were completed in late- 2016, and the Final Project Report and Environmental Document is anticipated to be completed in late-2017. Final Engineering is underway and anticipated to be completed in mid-2018.



PROJECTS BY YEAR 2030

Projects for implementation by 2030 include the interchange improvements at SR-71/SR-91, SR-91 widening improvements between SR-57 and SR-55, and I-15/SR-91 North Direct Connector. The 2030 projects are at least partially funded and underway in various stages of project development. OCTA, RCTC, and Caltrans have initiated preliminary planning activities for these projects to ensure readiness when local, state, or federal funding becomes available. Consequently, there may be opportunities to advance these projects if additional funding is made available. Projects for implementation by 2030 are expected to cost approximately \$650 million to \$754 million (in 2017 dollars, or as noted).

Project No.	Project Summary (Implementation Year)	Cost (\$M)
5	SR-71/SR-91 Interchange Improvements (2023)	123.4
6	SR-91 between SR-57 and SR-55 (2030)	347-450
7	I-15/SR-91 North Direct Connector (2030)	180
SUBTOTAL		650 – 754

Figure 2-3 – Summary of Projects for Implementation By 2030



Project No: 5

Anticipated Completion: 2023

Project Cost Estimate*

Total Project Cost	\$ 123,397,000
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Project Schedule

Preliminary Engineering	Completed
Environmental	Completed
Design	Completed
Construction	2021-2023

* Cost obtained from preliminary engineer's cost estimate (2011 dollars)

Project Description

The current project includes a new two-lane direct connector flyover from eastbound (EB) SR-91 to northbound (NB) SR-71 and modifications to the existing Green River Road EB SR-91 on-ramp.

Key Considerations

Project improvements must be coordinated with the following projects: the SR-91 Corridor Improvement Project (CIP) (Project #1 and #9) and the SR-241/91 Express Connector (Project #4). The Green River Road Overcrossing Replacement was completed in March 2009 (see Appendix B Project # B-1) and consisted of replacing the previously existing Green River Road Overcrossing with a new six-lane wide, 4-span overcrossing to accommodate widening of SR-91 by Projects #1, #4, and #9. The SR-91 CIP (Project #1, #9) project design-build team began construction activities in early 2014. The Project Report and Environmental Document for the SR-241/91 Express Connector (Project #4) is anticipated to be completed by late 2017.

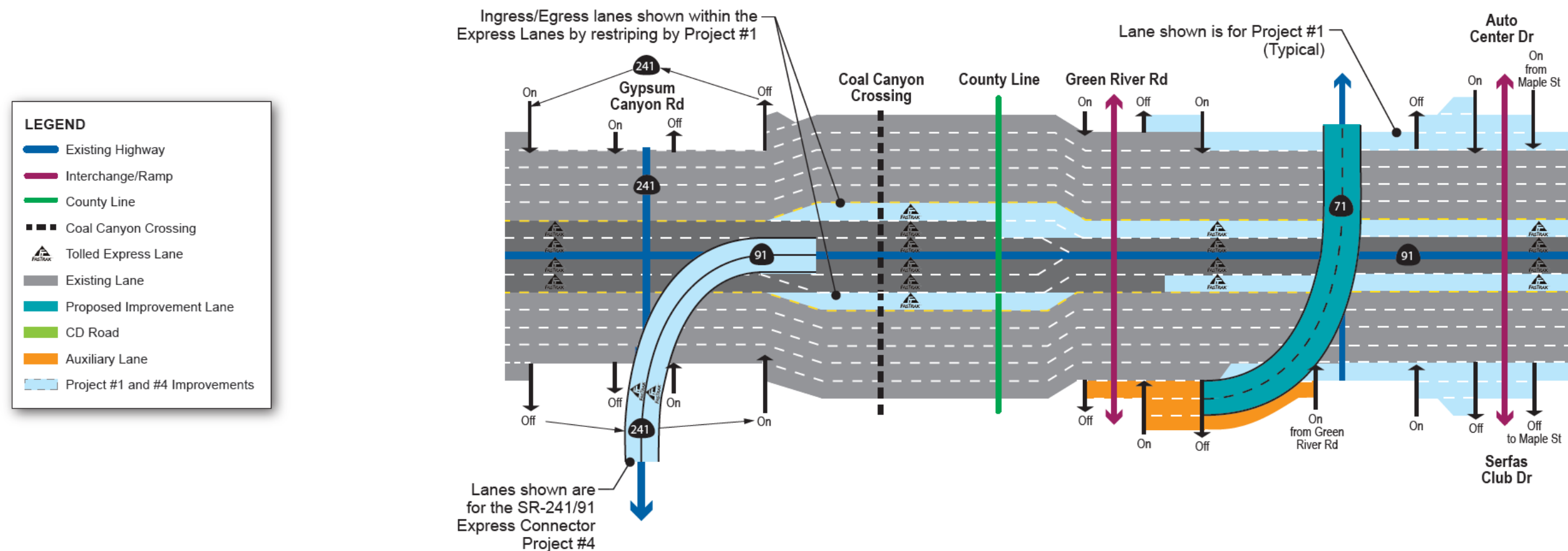
Close coordination with the U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, and California Department of Fish and Wildlife will also be required as the connector crosses the Santa Ana River below the Prado Dam. In addition, implementation of Major Investment Study (MIS) Corridor A (Concept #A-1) within the median of SR-91 will require the need for a three-level crossing of SR-91 and the proposed SR-71 direct flyover connector. Coordination will be required with an at-grade or grade-separated managed lane ingress/egress facility that may be located near the county boundary as part of the SR-91 CIP (Project #1, #9).

Benefits

The project will provide a new direct connector improvement from EB SR-91 to NB SR-71, replacing the geometric choke point created by the existing connector. The project will also improve traffic operations and operational efficiency by eliminating or minimizing weaving conflicts through the use of auxiliary lanes.

Current Status

The environmental phase was completed in June 2011. Final design was completed in 2015. Construction is deferred to 2021-2023 pending funding availability.



SR-91 Improvements between SR-57 and SR-55

Project No: 6

Anticipated Completion: 2030

Project Cost Estimate*

Total Project Cost, Low \$ 347,000,000
Total Project Cost, High \$ 450,000,000

Project Schedule

Conceptual Engineering	Completed
Preliminary Engineering	Completed
Environmental	2015-2019
Design	2020-2022
Construction	2028-2030

Project Description

Improve the SR-57/SR-91 interchange complex, including local interchanges, and adding capacity between SR-55 and SR-57. An improvement to NB SR-57 for an Orangethorpe Av Bypass was analyzed, but does not provide congestion relief to SR-91; therefore, is dropped from consideration. In addition, a drop on-ramp from Lakeview Av would be located between realigned WB SR-91 lanes for direct access to SB SR-55.

Specific improvements will be subject to approved plans developed in cooperation with local jurisdictions and affected communities. Improvements also include splitting the WB SR-91 Connector to SR-57 into separate exits and extending WB SR-91 lane additions through State College Blvd to connect with the auxiliary lane to Raymond Av-East St. The improvements for the Build Alternative include one EB GP lane from east of SR-57 to the SR-55 connector. One WB GP lane is added from NB SR-57 Connector through the State College Blvd interchange. An additional option was considered for WB SR-91 that included SR-57 connector metering instead of the lane additions from the SR-57 connectors; however, it did not relieve traffic congestion and is not considered further.

Key Considerations

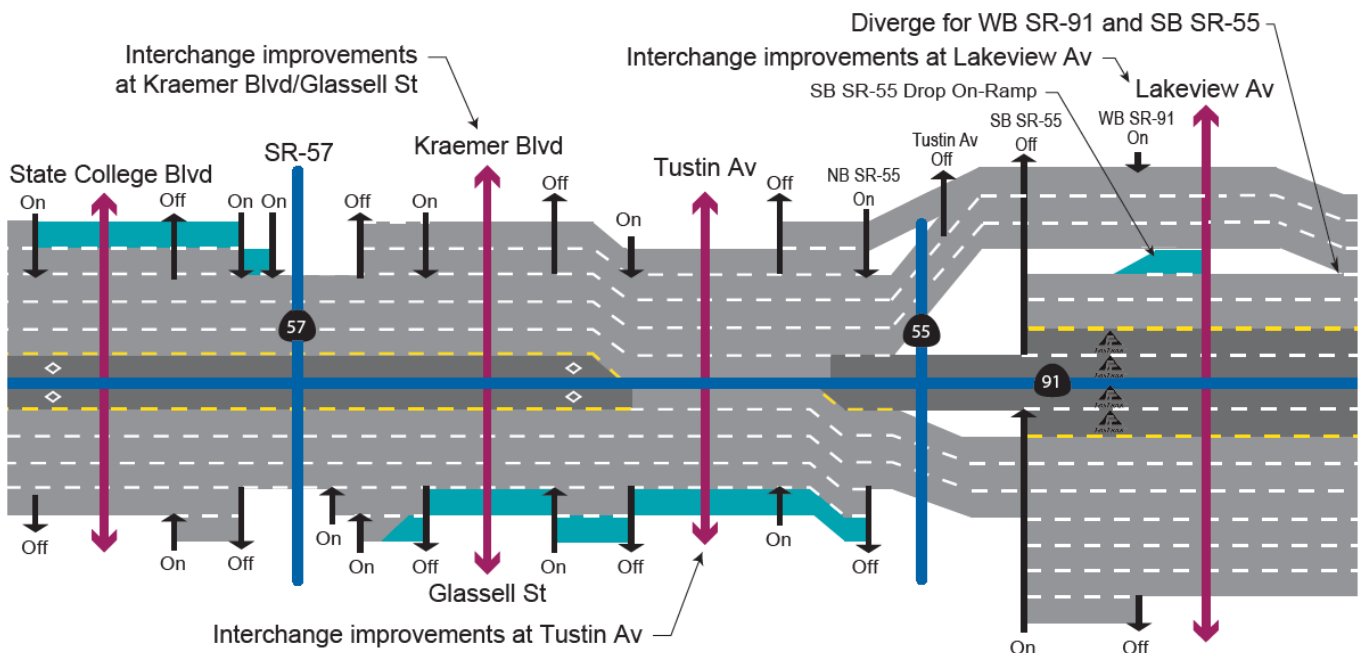
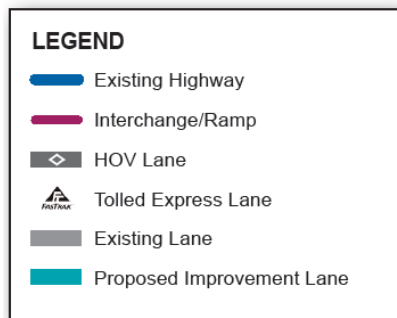
The proposed project improvements on WB and EB SR-91 may require right-of-way acquisition. A non-standard geometric cross-section will minimize the amount of acquisitions.

Benefits

The proposed project improvements on WB and EB SR-91 between SR-57 and SR-55 include, among other features, adding one EB general purpose lane to achieve lane balancing. The project improvements will reduce congestion and delay.

Current Status

The project improvement for EB SR-91 widening and for improvements to SR-57/SR-91, Lakeview and SR-55/SR-91 were studied by the SR-91 Feasibility Study, which was completed in June 2009. Preliminary engineering was completed in 2014 and the Environmental phase began in early 2015. The proposed improvements are included in the Measure M2 program through the Environmental phase.



Project No: 7

Anticipated Completion: By 2030

Project Cost Estimate*

Total Project Cost	\$ 180,000,000
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Project Schedule**

Preliminary Engineering 2018-2019

Environmental	2018-2019
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Design/Construction	TBD
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* Cost from RCTC (2017 Dollars)

LEGEND

Existing Highway

Interchange/Ramp

 HOV or HOT Lane Tolled Express Lane

Existing Lane

 Proposed Improvement Lane

Project #1 and #5 Improvements

* Braided Connector

Project Description

The Project Approval and Environmental Document (PA/ED) for the SR-91 Corridor Improvement Project (CIP), from SR-241 to Pierce Street, included the addition of a 5th lane in each direction, the addition of auxiliary lanes at various locations, the addition of collector-distributor (CD) lanes at the I-15/SR-91 interchange, the extension of the 91 Express Lanes from the Orange County line to I-15, the construction of a SR-91 Express Lanes median direct connector to and from I-15 South, a SR-91 Express Lanes median direct connector to and from I-15 North (North Direct Connector, the subject project), and the construction of one Express Lane in each direction from the I-15/SR-91 interchange southerly to I-15/Cajalco Road (now part of RCTC I-15 Express Lanes Project [ELP]), and easterly to east of McKinley Street. Due to economic conditions, a Project Phasing Plan was developed to allow an Initial Phase (Project #1), with reduced improvements, to move forward as scheduled, with the remaining ultimate improvements to be completed later. Subsequently, the proposed I-15/SR-91 median North Direct Connector improvements have been pulled out from the CIP as a standalone project to be implemented prior to the Ultimate CIP (Project #9). The I-15 Express Lanes to be extended from Ontario Avenue to Cajalco Road are included in RCTC's I-15 Express Lane Project with an anticipated completion date in 2020.

Key Considerations

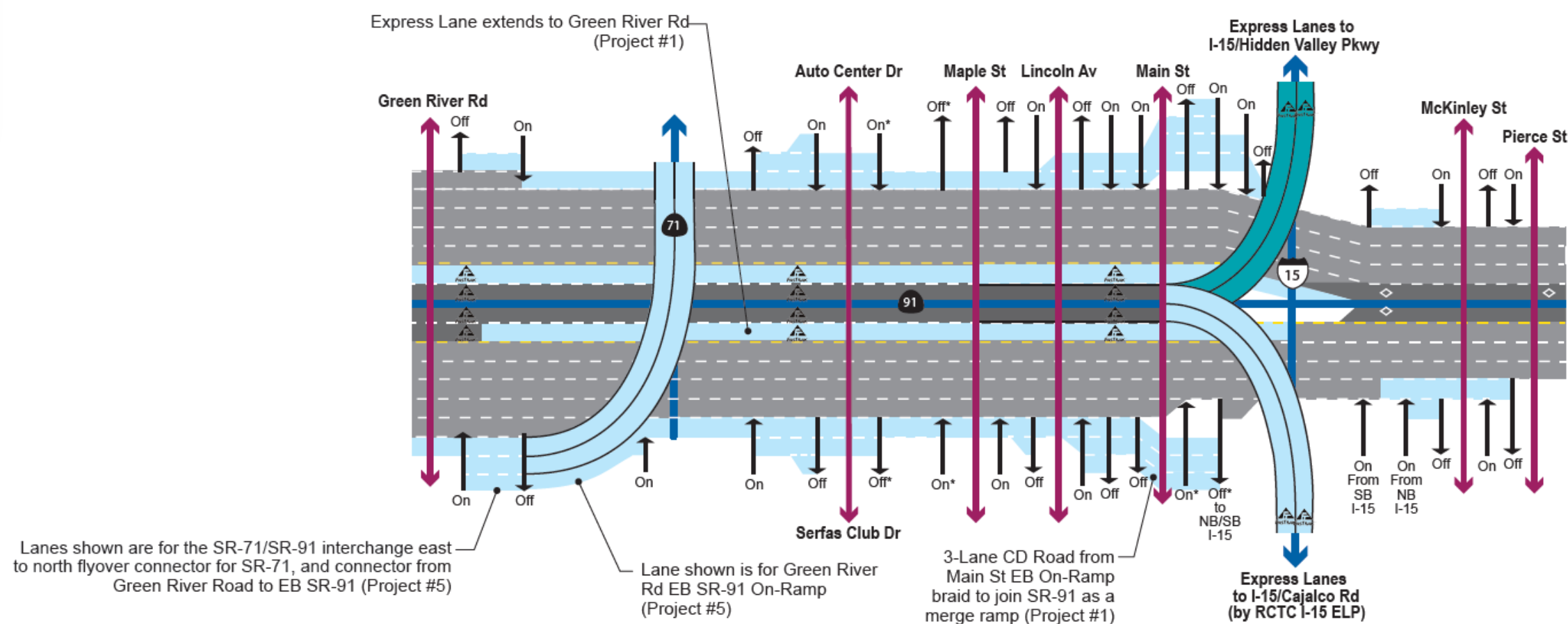
Coordination among many of the SR-91 freeway projects that overlap the project limits is critical to successfully delivering these projects on schedule and within budget. Designing to accommodate future projects is a recurring theme for each of these projects. Minimizing conflicts in scope between projects requires direct coordination between each project team. Additionally, future projects frequently have multiple alternatives under study, each with differing scope and construction footprints. Specifically, the project improvements need to continue to be coordinated with the Initial CIP (Project #1), the SR-71/SR-91 interchange (Project #4), the SR-241/91 Express Lanes Connector (Project #3), and RCTC's I-15 Express Lane Project.

Benefits

The I-15/SR-91 North Direct Connector project will reduce congestion and operational delays by providing direct median-to-median access between SR-91 and I-15 Express Lanes. Traffic operation will improve by eliminating weaving conflicts along SR-91 and I-15 by the use of the direct connectors. The project will provide motorists a choice to use the Express Lanes Connector for a fee in exchange for time savings.

Current Status

Preliminary engineering is complete as a component of the CIP project, but will be revisited at a future date as a standalone project. The Ultimate CIP Project, which includes the I-15/SR-91 North Direct Connector, is currently discussed in the environmental document for the Initial Phase that was completed in 2012. However, separate standalone environmental documentation will be prepared.

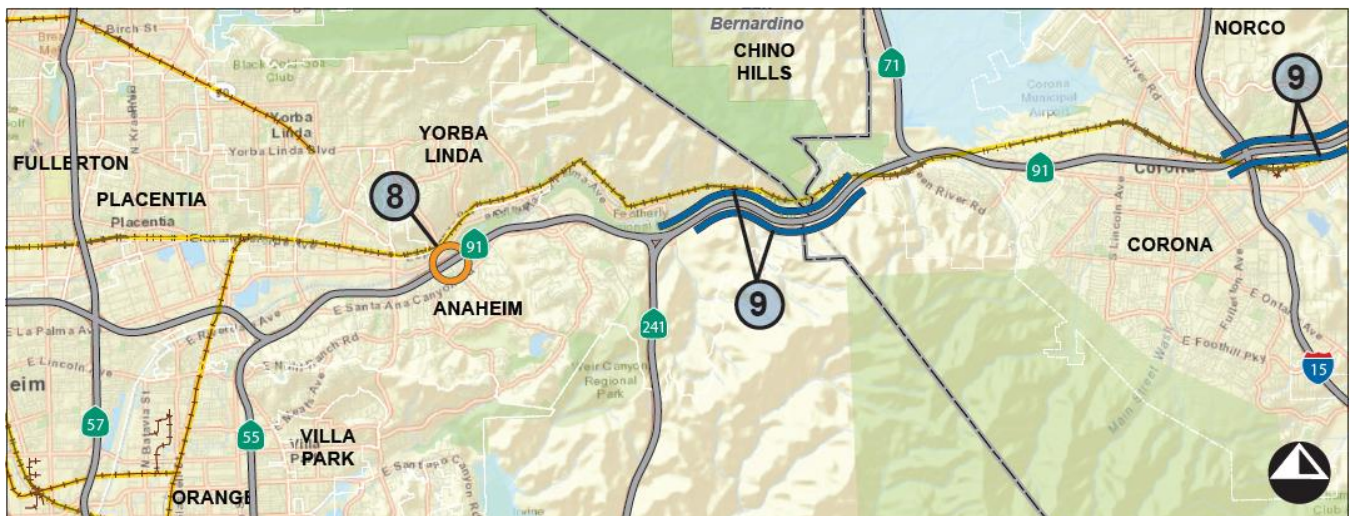


PROJECTS BY YEAR 2035

Projects for implementation by 2035 focus on longer-lead time projects and include a potential new interchange or overcrossing at Fairmont Boulevard; and the Ultimate SR-91 CIP that includes widening SR-91 by one GP lane in each direction from SR-241 to SR-71 and SR-91 improvements east of I-15.

Project No.	Project Summary (Implementation Year)	Cost (\$M)
8	Fairmont Boulevard Improvements (By 2035)	76.8
9	Ultimate CIP: Widen SR-91 by One GP Lane in Each Direction from SR-241 to SR-71, and SR-91 Improvements East of I-15 (2035)	TBD
SUBTOTAL		77+

Figure 2-4 – Summary of Projects for Implementation by 2035



Project No: 8

Anticipated Completion: By 2035

Project Cost Estimate*

Capital Cost	\$ 67,800,000
Support Cost	\$ 9,000,000
Total Project Cost	\$ 76,800,000

Project Schedule

Conceptual Engineering	Completed
Preliminary Engineering	TBD
Environmental	TBD
Design	TBD
Construction	TBD

* Costs from Feasibility Study (2009 dollars). R/W cost is undetermined at this time. Cost does not include potential impact to Santa Ana River.

LEGEND

- Existing Highway
- Interchange/Ramp
- \$ HOV or HOT Lane
- Existing Lane
- Proposed Improvement Lane

Project Description

The project would provide a new interchange with SR-91 at Fairmont Boulevard. On and off ramps will connect Fairmont Boulevard from the north to eastbound (EB) and westbound (WB) SR-91. The proposed interchange does not include a vehicular Fairmont Boulevard connection to Santa Ana Canyon Road to the south.

A pedestrian/bicycle connection is also proposed between La Palma Avenue and Santa Ana Canyon Road. This bridge and pathway will allow for direct Santa Ana River Trail access from both Anaheim south of SR-91 and from Yorba Linda.

Key Considerations

Interchange spacing and weaving issues (to SR-55) need to be evaluated. Widening of SR-91 may be needed to accommodate interchange ramps. Proximity of the Santa Ana River may require that the WB ramp junction be located north of the river. New connection requirements and interchange spacing needs to be considered. Ramp and bridge placement needs to take pedestrian/bicycle bridge into account, or incorporate the pedestrian/bike path into the design beyond the vehicular access limits of the project.

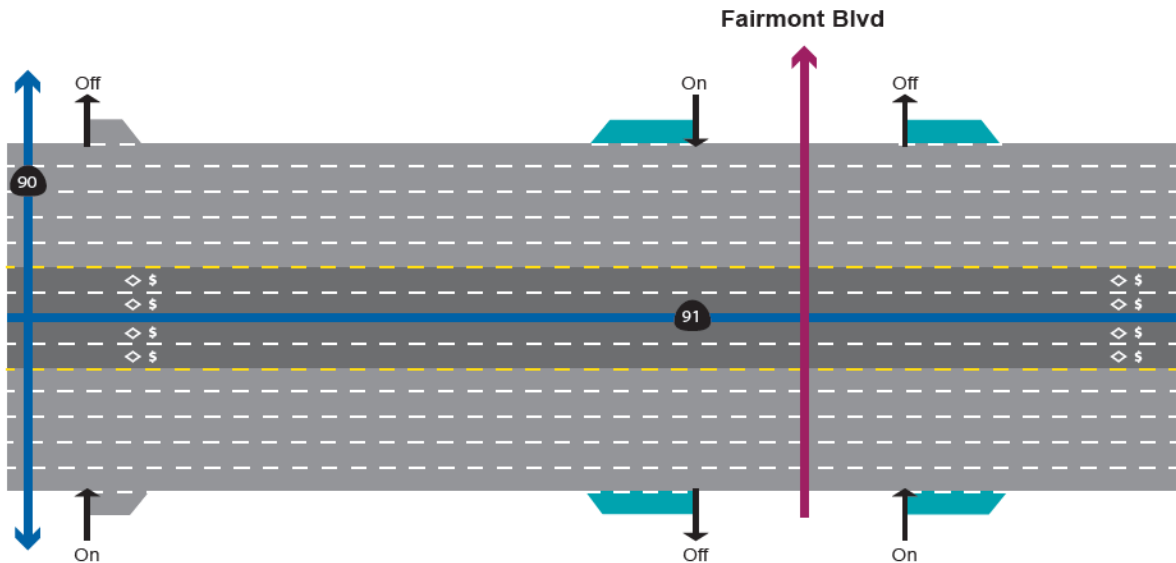
Benefits

The interchange is expected to relieve congestion at Imperial Highway (SR-90), Lakeview Avenue, and Weir Canyon Road Interchanges. Preliminary traffic modeling shows a 10-15% decrease in volumes at Weir Canyon and SR-90 interchanges with the interchange alternative.

Current Status

The City of Anaheim completed a conceptual engineering study in December 2009 for the interchange. Multiple alternatives have been developed as part of the conceptual engineering study. Bicycle/pedestrian bridge is currently in initial planning stages. Project development is pending funding identification.

OCTA is currently studying multiple conceptual alternatives for intermediate access to the 91 Express Lanes. Alternatives may include different ingress and egress options near Fairmont Boulevard. Results of the analysis were expected by the end of summer 2016. The Plan will be updated as necessary in the future with study results.



Ultimate CIP: Widen SR-91 by One GP Lane in Each Direction from SR-241 to SR-71, and SR-91 Improvements East of I-15

Project No: 9
Anticipated Completion: 2035

Project Cost Estimate*
To Be Determined

Project Schedule**
Preliminary Engineering TBD
Environmental TBD
Design/Construction TBD

* Schedule for Ultimate Project anticipated by 2035

Project Description

The Project Approval and Environmental Document (PA/ED) for the SR-91 Corridor Improvement Project (CIP), from SR-241 to Pierce Street, included the addition of a 5th lane in each direction, the addition of auxiliary lanes at various locations, the addition of collector-distributor (CD) lanes at the I-15/SR-91 interchange, the extension of the 91 Express Lanes from the Orange County line to I-15, the construction of a SR-91 Express Lanes median direct connector to and from I-15 South, a SR-91 Express Lanes median direct connector to and from I-15 North (North Direct Connector, Project #7), and the construction of one Express Lane in each direction from the I-15/SR-91 interchange southerly to I-15/Cajalco Road (now part of RCTC I-15 Express Lanes Project [ELP]), and easterly to east of McKinley Street. Due to economic conditions, a Project Phasing Plan was developed to allow an Initial Phase (Project #1), with reduced improvements, to move forward as scheduled, with the remaining ultimate improvements to be completed later. The following is a summary of the proposed ultimate CIP improvements: SR-91 general purpose lanes from I-15 to Pierce Street; SR-91 general purpose lanes from SR-241 to Green River Road; and construction of one Express Lane in each direction from I-15 to east of McKinley Street. Ultimate project widens all SR-91 lanes to standard lane and shoulder widths from SR-241 to SR-71. These Ultimate improvements are the subject of this project. The I-15 Express Lanes to be extended from Ontario Avenue to Cajalco Road are included in RCTC's I-15 Express Lanes Project with an anticipated completion date in 2020. The SR-91 Express Lanes median direct connector to and from I-15 North (North Direct Connector) is now a separate project (Project #7),

Key Considerations

Coordination among many of the SR-91 freeway projects that overlap the project limits is critical to successfully delivering these projects on schedule and within budget. Designing to accommodate future projects is a recurring theme for each of these projects. Minimizing conflicts in scope between projects requires direct coordination between each project team. Additionally, future projects frequently have multiple alternatives under study, each with differing scope and construction footprints. Specifically, the project improvements need to continue to be coordinated with the Initial CIP (Project #1), the SR-71/SR-91 interchange (Project #5), the SR-241/91 Express Connector (Project #4), SR-91/I-15 North Direct Connector (Project #7), and RCTC's I-15 Express Lanes Project.

Benefits

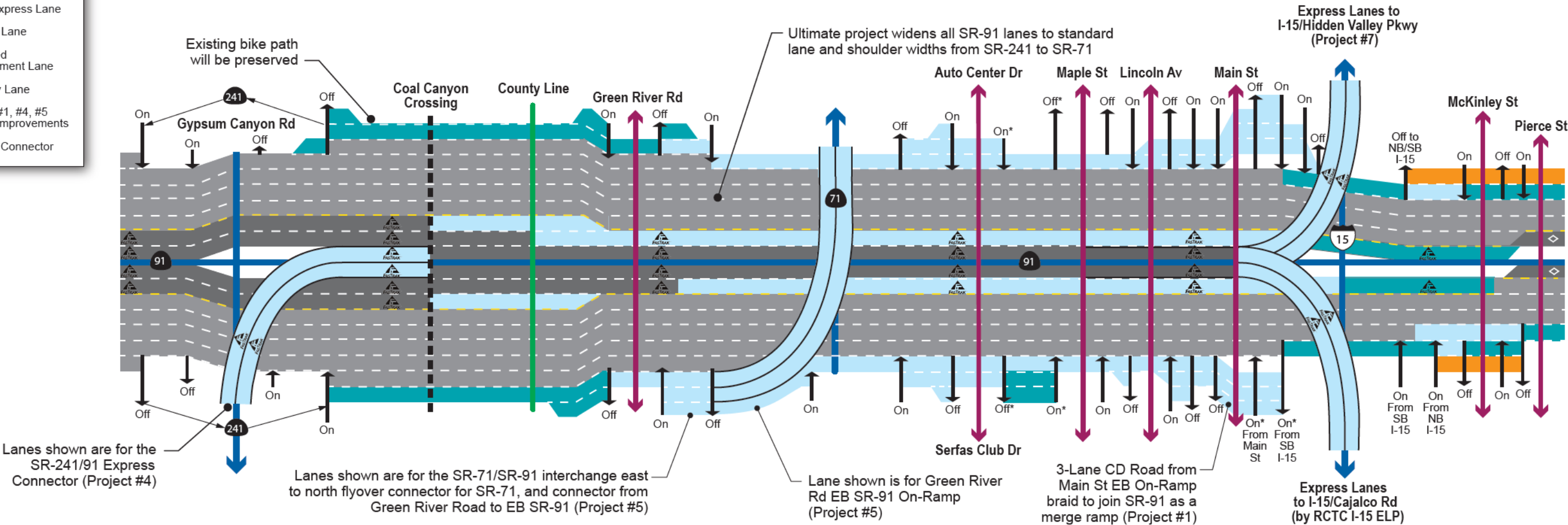
The Initial Phase and Ultimate CIP projects will reduce congestion and delays by providing additional SR-91 capacity from SR-241 to Pierce Street and along I-15 from SR-91 to Cajalco Road to the south and to Hidden Valley Parkway to the north. Traffic operation will improve by eliminating or reducing weaving conflicts along SR-91 and I-15 by the use of CD roads and auxiliary lanes. The project will provide motorists a choice to use Express Lanes for a fee in exchange for time savings.

Current Status

Preliminary engineering is complete but may need to be revisited at a future date. The Ultimate Project is currently discussed in the environmental document for the Initial Phase that was completed in 2012.

LEGEND

- Existing Highway
- Interchange/Ramp
- County Line
- Coal Canyon Crossing
- HOV Lane
- Tolled Express Lane
- Existing Lane
- Proposed Improvement Lane
- Auxiliary Lane
- Project #1, #4, #5 and #7 Improvements
- Braided Connector



SECTION 3: APPENDIX A - POST-2035 AND CONCEPTUAL PROJECTS

Concepts for potential Post-2035 implementation (potentially earlier if funding becomes available) focus on longer-lead time projects. This multi-billion dollar program may include: an elevated 4-lane facility (MIS Corridor A) from SR-241 to I-15; the Anaheim to Ontario International Airport Maglev High Speed Rail; the Irvine-Corona Expressway (ICE) 4-lane facility from SR-241/SR-133 to I-15/Cajalco Road (formerly known as MIS Corridor B), WB SR-91 to SB SR-55 Connector Improvements, and EB SR-91 Fifth Lane Addition at SR-241. These potential concepts include significant environmental constraints and right of way requirements in addition to requiring a significant amount of planning, design, and future policy and public input. The MIS Corridor A concept may incorporate projects being developed in the earlier programs as concept components.

Appendix Concept No.	Concept Summary (Implementation Year)	Cost (\$M)
A-1	Elevated 4-Lane Facility (MIS Corridor A) from SR-241 to I-15 (Post-2035)	2,720
A-2	Anaheim to Ontario International Airport Maglev High Speed Rail (Post-2035)	2,770-3,200
A-3	Irvine-Corona Expressway (ICE) 4-Lane Facility from SR-241/SR-133 to I-15/Cajalco Road (Post-2035)	8,855
A-4	WB SR-91 to SB SR-55 Connector Improvements (Post-2035)	75-150
A-5	EB SR-91 Fifth Lane Addition at SR-241	31
SUBTOTAL		14,451-14,956

Figure 3-1 – Summary of Concepts for Post-2035 Implementation



Elevated 4-Lane Facility (MIS Corridor A) from SR-241 to I-15

Concept No: A-1

Anticipated Completion: Post-2035

Concept Cost Estimate**

Capital Cost*	\$1,488,000,000
Support Cost (25%)	\$372,000,000
R/W Cost	\$860,000,000
Total Project Cost	\$2,720,000,000

Concept Schedule

Conceptual Engineering	TBD
Preliminary Engineering	TBD
Environmental	TBD
Design	TBD
Construction	TBD

* Capital costs include \$160M for environmental mitigation excluding corresponding support cost, which is included in support cost estimate

** Costs derived from Riverside County - Orange County MIS, January 2006 (2005 dollars)

Concept Description

The improvements primarily consist of constructing a new 4-lane elevated expressway near or within the Santa Ana Canyon with freeway-to-freeway connectors at SR-241 and I-15. The facility may include managed lanes and potential reversible operations.

Key Considerations

Choice of alignment will be key to determining net capacity increase. Extensive right-of-way (R/W) will be required to implement the improvements if the alignment is not in the SR-91 corridor. When median connector projects or HOV/HOT projects are constructed and this 4-lane elevated facility is proposed within the median of SR-91 through Corona, then extensive managed lane closures would be required during construction (thus temporarily reducing SR-91 capacity during construction).

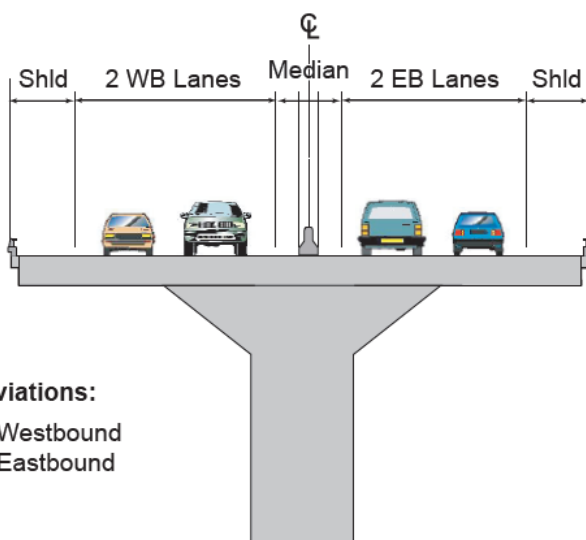
An alternative could be studied for the median Corridor A viaduct along with reduced SR-91 geometric standards to minimize R/W impacts. Also, direct connectors (such as for High Occupancy Vehicle (HOV) / High Occupancy Toll (HOT) at I-15/SR-91) to/from the median could be precluded by Maglev columns located within the same median area. Caltrans and Maglev highway R/W, maintenance, safety, and operations considerations would need to be analyzed if shared use with a Maglev facility were pursued. Additional mitigation costs may be required for improvements to SR-241 and SR-133 as a result of additional Corridor traffic volumes. Corridor A as managed lanes, with the extension of 91 Express Lanes to I-15, this project concept may affect traffic distribution due to "parallel" tolled facilities.

Benefits

The concept would provide significant congestion relief by allowing vehicles to bypass the at-grade freeway lanes and local arterial interchanges between SR-241 and I-15. Connections are proposed directly between SR-91, SR-241, and I-15.

Current Status

This concept is identified in the Riverside County - Orange County Major Investment Study (MIS) as part of the Locally Preferred Strategy to improve mobility between Riverside County and Orange County. No project development work is planned at this time



Abbreviations:

WB = Westbound
EB = Eastbound

Elevated 4-Lane Facility (MIS Corridor A) Cross-Section

Anaheim to Ontario International Airport Maglev High Speed Rail

Concept No: A-2

Anticipated Completion: 2035

Concept Cost Estimate*

Total Capital Cost, Low \$ 2,770,000,000

Total Capital Cost, High \$ 3,200,000,000

Concept Schedule

To be determined

* Concept costs from American Magline Group (2012 dollars)

Concept Description

Proposals for a new super-speed train corridor from Anaheim to Ontario are included in this concept. This concept includes an alternative that would use SR-91 right-of-way, or would be aligned adjacent to SR-91 right-of-way, or could potentially be co-located with the Major Investment Study (MIS) Corridor A (Concept #A-1) alignment. Another alignment opportunity is being investigated along SR-57.

Key Considerations

Alternative alignment impacts to SR-91 right-of-way envelope and/or Santa Ana River are undetermined. The choice of alignment will potentially impact MIS Corridor A (Concept #A-1). Right-of-way (R/W) will be required to implement the improvements. Potential considerations for co-locating the Magnetic Levitation (Maglev) train adjacent to Corridor A (and also SR-91) include providing a two-column structure with a barrier between the trains and vehicles. Caltrans and Maglev highway

R/W, maintenance, safety, and operations considerations would need to be analyzed if shared use with a Maglev facility were pursued. See the MIS Corridor A project for additional considerations. Coordination with Metrolink improvements will be required.

Benefits

The concept would provide congestion relief by providing a direct high-speed/high-capacity connection with Ontario International Airport for Orange County air passengers and business next-day deliveries. Maglev will make the trip in just 14.5 minutes. Relieves congestion on SR-91 by providing additional capacity in the corridor.

Current Status

Preliminary design, engineering and Phases 1 and 2 of a Preliminary Environmental Impact Statement/Environmental Impact Statement (PEIS/EIS) are completed. Congress has approved \$45M in SAFETEA-LU for the environmental phase of the project. The Anaheim to Ontario segment is included in the "Constrained" Plan of the Southern California Association of Governments (SCAG) Regional Transportation Plan (RTP) passed in April 2012. Construction funding of up to \$7 billion has been identified through a loan commitment from the China Export-Import Bank.

LEGEND

- Existing Highway
- High Speed Rail Representative Alignment



REPRESENTATIVE ALIGNMENT SHOWN FOR ILLUSTRATIVE PURPOSES ONLY

Irvine-Corona Expressway (ICE) 4-Lane Facility from SR-241/SR-133 to I-15/Cajalco Road

Concept No: A-3

Anticipated Completion: Post-2035

Concept Cost Estimate*

Capital Cost	\$ 7,675,000,000
Support Cost	\$ 880,000,000
R/W Cost	\$ 300,000,000
Total Project Cost	\$ 8,855,000,000

Concept Schedule

Geotechnical Feasibility	Completed
Preliminary Engineering	TBD
Environmental	TBD
Design	TBD
Construction	TBD

* Costs derived from the Feasibility Evaluation Report (2009 dollars)

Concept Description

The improvements primarily consist of constructing a highway and rail facility through the Cleveland National Forest with freeway-to-freeway connectors at SR-241/SR-133 and I-15/Cajalco Road. The facility would essentially be a continuation of SR-133 on the west end of the corridor, to I-15 on the east end.

Key Considerations

The tunnel concept is technically feasible based on the geotechnical investigation completed in December 2009. The initial project phase would be the construction of one 2-lane highway tunnel and one rail tunnel. The second project phase would include construction of a second 2-lane highway tunnel. Additional technical studies and geotechnical borings would be needed to refine the tunnel alignments and grades. Costs associated with the Irvine-Corona Expressway (ICE) tunnels are based on the Feasibility Evaluation Report completed in December 2009. A financial analysis will be needed for the construction, operations and toll requirements of the ICE tunnels.

Benefits

The concept would provide significant congestion relief by providing an alternative route between Orange and Riverside counties and would allow vehicles to bypass SR-91 between SR-241 and I-15. The concept would not disrupt SR-91 traffic during construction and would allow for additional route selection for incident management, emergency evacuation, and for continuity of the highway network by linking SR-133 to I-15.

Current Status

On August 27, 2010 the Riverside Orange Corridor Authority Board took action to defer additional study of the ICE concept until such time as financial considerations improve and/or technological advancements warrant reexamination. Review of the concept shall be done annually through the SR-91 Implementation Plan update to determine if any of the major assumptions with regard to financial considerations, private sector interest, or technological advancements have changed to make the tunnel financially viable. (See "ICE status summary" for further discussion).

LEGEND

- Existing Highway
- ICE (Corridor B)
Representative Alignment

NOTE: REPRESENTATIVE ALIGNMENT SHOWN FOR ILLUSTRATIVE PURPOSES ONLY



WB SR-91 to SB SR-55 Connector Improvements

Concept No: A-4

Anticipated Completion: Post-2035

Concept Cost Estimate*

Total Project Cost, Low \$ 75,000,000

Total Project Cost, High \$ 150,000,000

Concept Schedule

Conceptual Engineering TBD

Preliminary Engineering TBD

Environmental TBD

Design TBD

Construction TBD

Note: Project costs derived from the SR-91 PSR/PDS between SR-57 and SR-55 (2014 Dollars), and excludes support and R/W costs.

Concept Description

The project consists of operational improvements by modifying the connector to SB SR-55 from WB SR-91. The improvements would extend to Lakeview Avenue to the east and would include a new connector from WB SR-91 to SB SR-55 as a right-hand exit.

Key Considerations

Right-of-way impacts, detailed SR-55/SR-91 interchange improvements, and downstream impacts to SR-55 require further evaluation in a subsequent phase of project development. Conceptual design of SR-55/SR-91 would be coordinated with completed improvements at SR-91 and Tustin Avenue (Project #B-5), and with the SR-91 Environmental Study Improvements from SR-57 to SR-55 (Project #6).

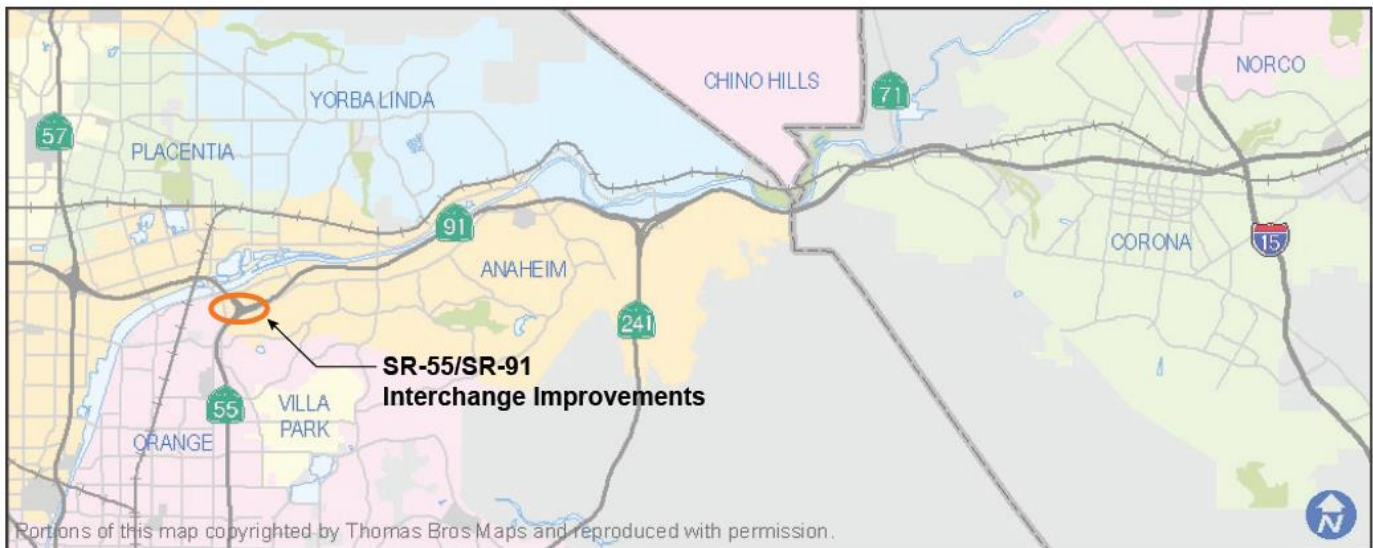
The study for Project #6 is currently being conducted which includes the SR-55/SR-91 interchange area, however, that project's objective is to primarily improve operations of the SR-91 between SR-55 and SR-57. Operational enhancements between SR-55 and Lakeview Avenue by Project #6 may provide some benefit for SR-55/SR-91 by addressing WB SR-91 weaving issues.

Benefits

Interchange improvements are anticipated to provide congestion relief for SR-91 traffic and potentially improve the connection from WB SR-91 to SB SR-55.

Current Status

SR-55/SR-91 project information was derived from the Final Alternatives Evaluation and Refinement Report, December 2005, by the Riverside County - Orange County Major Investment Study (MIS). Focused SR-91/SR-55 conceptual engineering needs to be scheduled. However, initial conceptual engineering was also studied as part of the SR-91 Feasibility Study Between State Route 57 and State Route 55 Interchange Areas in June 2009.



Concept No: A-5

Anticipated Completion: TBD

Concept Cost Estimate*

Capital Cost	\$ 25,000,000
Support Cost (25%)	\$ 6,250,000
R/W Cost	\$ 0
Total Project Cost	\$ 31,250,000

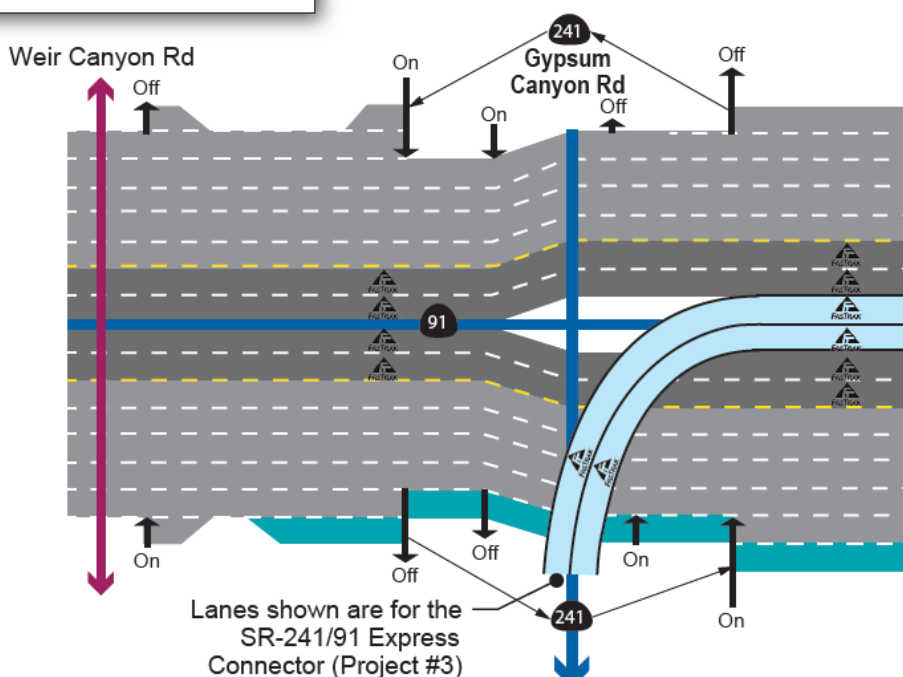
Concept Schedule

Conceptual Engineering	TBD
Preliminary Engineering	TBD
Environmental	TBD
Design	TBD
Construction	TBD

* This project currently does not have an identified funding source(s) for any of the project development phases; however, District 12 has indicated this is one of its top priority projects.

LEGEND

	Existing Highway
	Interchange/Ramp
	Tolled Express Lane
	Existing Lane
	Proposed Improvement Lane
	Project #3 Improvements



Concept Description

The location of the proposed EB SR-91 fifth general purpose (GP) lane addition (The Segment) is on EB SR-91 from Weir Canyon Road to the NB SR-241 Connector. The Segment consists of 4 (four) GP lanes and 2 (two) managed lanes (91 Express Lanes).

Upstream (westerly) from The Segment the EB SR-91 has 5 GP lanes and the 5th lane drops to the SB SR-241 Connector as some traffic volume exits to the SB SR-241. Downstream from The Segment the EB SR-91 gains the 5th lane back as the NB SR-241 Connector merges with SR-91 in a dedicated lane addition. This 5th lane continues beyond the Riverside County line providing enhanced mobility.

Key Considerations

This segment with 4 GP lanes might be creating a traffic choke point due to the decrease of capacity, potentially contributing to significant traffic delays passing through this segment along with other traffic issues such as queue jumping, weaving, merging and operational speed differential. However, additional traffic from NB SR-241 to EB SR-91 and Gypsum Canyon Rd on-ramp suggest balancing the number of lanes should be carefully examined. As such, additional capacity will enhance EB freeway operations along this Segment.

Benefits

1. Extends the existing 5th EB GP lane easterly and ties it to the existing 5th lane downstream. This could provide capacity enhancement and may result in removing an existing choke point. Significant delay savings is anticipated.
2. Potentially eliminate queue jumping in this area from EB SR-91 as well as Weir Canyon Rd.
3. Potentially reduce speed differential between through lanes, thus creating a more balanced flow.
4. Potentially provide lane balance at high traffic demand area.

Current Status

Additional traffic analysis and study is required to confirm the benefits to EB SR-91 by the proposed improvements. This location was identified by Caltrans as a high congestion location in the County. The concept is intended to improve the choke point that exists due to the presence of a 4 lane segment between 5 lane freeway segments. This project currently does not have an identified funding source for any of the project development phases; however, this concept is a District 12 top priority project.

SECTION 4: APPENDIX B - COMPLETED PROJECT EXHIBITS

The following exhibits represent completed projects from previous Plans since 2006, and are intended to be used as a reference to illustrate the progress made since the inception of the Plan. Note: some projects listed in the Plan as completed (see Section 1, Project Accomplishments) are not included herein since there was no exhibit created or necessary for use with prior Plans (such as for restriping projects, various safety enhancements, minor operational improvements, etc.).

Appendix Project No.	Project Improvements	Constructed
B-1	Green River Road Overcrossing Replacement	March 2009
B-2	North Main Street Corona Metrolink Station Parking Structure	June 2009
B-3	Eastbound Lane Addition from SR-241 to SR-71	September 2010
B-4	Widen SR-91 between SR-55 and SR-241 by Adding a 5 th GP Lane in Each Direction	December 2012
B-5	SR-91 WB Lane at Tustin Avenue	April 2016
B-6	Metrolink Service Improvements	June 2016

Appendix Project No: B-1

Actual Completion: March 2009

Project Costs

Capital Cost	\$ 21,000,000
Support Cost	\$ 3,000,000
R/W Cost	\$301,000
Total Project Cost	\$ 24,301,000

Project Schedule

Preliminary Engineering	Completed
Environmental	Completed
Design	Completed
Construction	Completed

Project Schedule Caltrans Equivalents:

Preliminary Engineering = PID

Environmental = PA/ED

Design = PS&E

Abbreviations:

CD = Collector Distributor Lane

FTR = Future

HOV = High Occupancy Vehicle

SHLD = Shoulder

Project Description

Improvements primarily consist of replacing the existing Green River Road overcrossing with a new six-lane wide, 4-span overcrossing to accommodate future widening of SR-91. The interior spans will accommodate up to eight mainline lanes in each direction including two HOV lanes. The exterior spans can accommodate two lanes, either for auxiliary lanes or collector distributor roads. Entrance and exit ramps will be realigned and widened to accommodate the new bridge, yet the interchange will retain its current configuration. New signals will be installed at the ramp intersections. Ramp and bridge improvements will be constructed within existing right of way.

Key Considerations

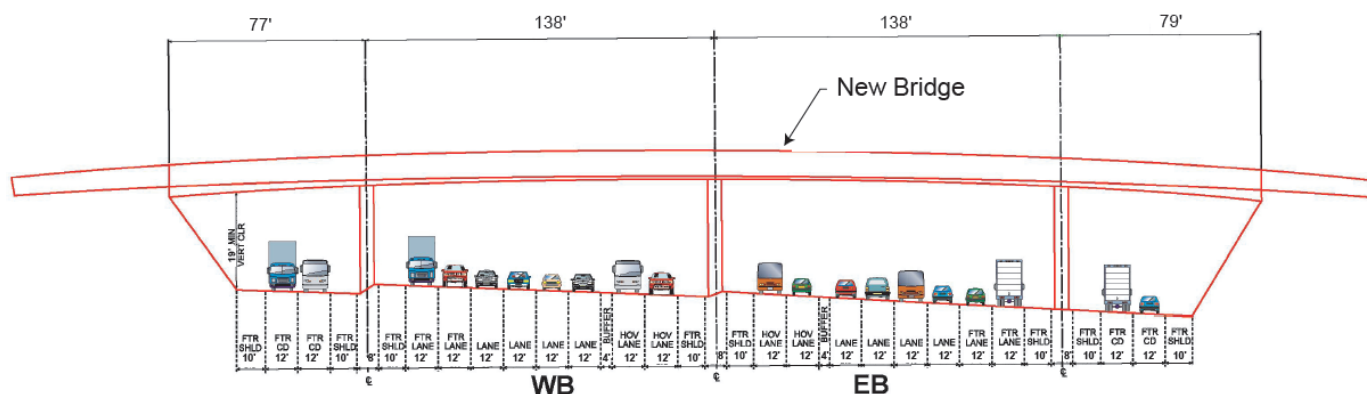
Design interface is required with the Eastbound Lane Addition from SR-241 to SR-71, SR-71/SR-91 Interchange Improvements, SR-91 Corridor Improvement Project, and SR-241/SR-91 HOV/HOT Connector.

Benefits

The project will improve the level of service at ramp and local street intersections at the interchange. Improvements will reduce ramp queues that extend into the freeway's general purpose lanes, thus contributing to congestion relief on SR-91.

Current Status

The project began construction in March 2007 and was completed in March 2009.



GREEN RIVER BRIDGE CROSS-SECTION

NOTE: All dimensions are approximate

North Main Street Corona Metrolink Station Parking Structure

Appendix Project No: B-2

Actual Completion: June 2009

Project Costs

Capital Cost	\$ 20,000,000
Support Cost	\$ 5,000,000
R/W Cost	\$0
Total Project Cost	\$ 25,000,000

Project Schedule

Preliminary Engineering	Completed
Environmental	Completed
Design	Completed
Construction	Completed

Project Description

The project provides a six level parking structure with 1,065 parking stalls. The construction is within the existing North Main Street Metrolink station property in Corona.

Key Considerations

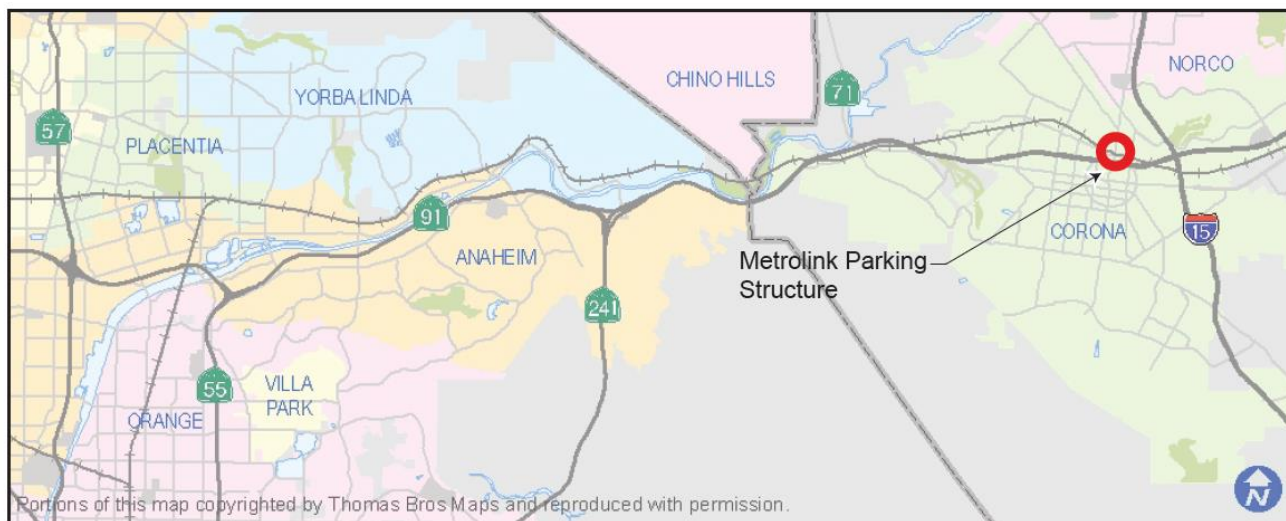
Proposed improvements were constructed within existing right of way. Currently there are 700 users of the facility, 200 more that were previously able to accommodate. Additionally RCTC has opened up the lot to park and ride carpools and vanpools and has issued over 120 permits for carpools to use the expanded station. This shows an added benefit of supporting carpooling as well as transit to offset congestion on SR-91.

Benefits

Demand for parking currently exceeds the capacity at the North Main Street Corona station. New parking capacity will allow Metrolink ridership to increase thereby diverting vehicle trips from SR-91.

Current Status

Construction was initiated in January 2008 and was completed in June 2009. The project was funded with Federal Congestion Management and Air Quality (CMAQ) funds.



Eastbound Lane Addition from SR-241 to SR-71

Appendix Project No: B-3

Actual Completion: September 2010

Project Cost Estimate

Capital Cost	\$ 41,000,000
Support Cost	\$ 8,000,000
R/W Cost	\$ 2,200,000
Total Project Cost	\$ 51,200,000

Project Schedule

Preliminary Engineering	Completed
Environmental	Completed
Design	Completed
Construction	Completed

Project Description

The project will provide an additional eastbound (EB) lane from the SR-91/SR-241 interchange to the SR-71/SR-91 interchange and will widen all EB lanes and shoulders to standard widths.

Key Considerations

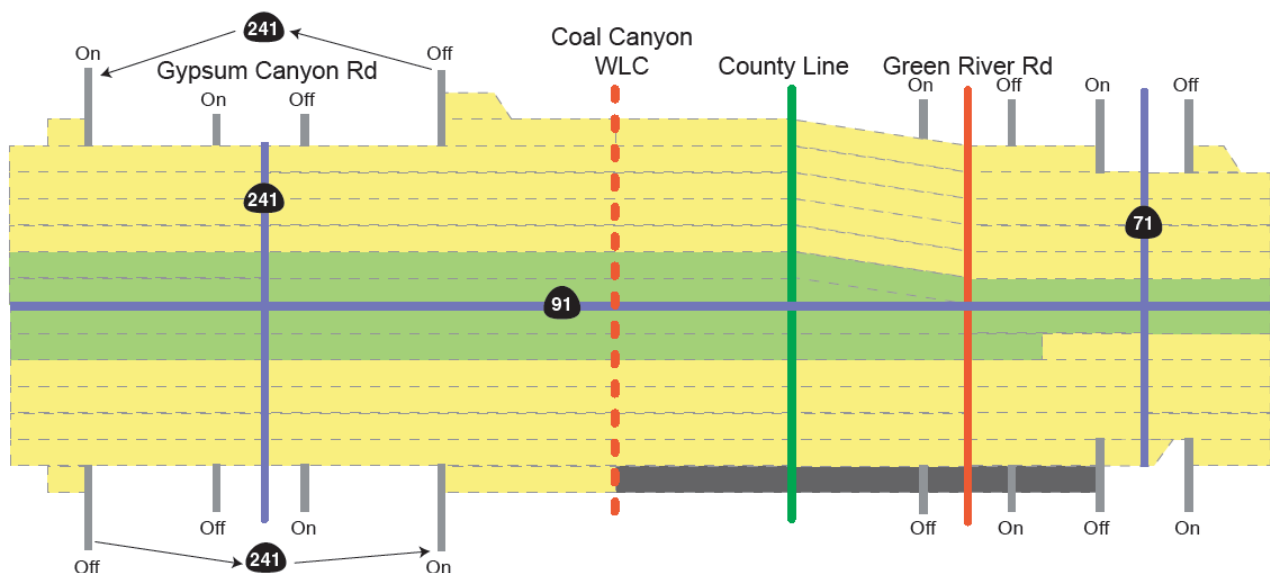
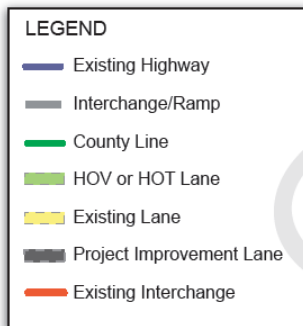
Coordination with the SR-91 Corridor Improvement Projects (Project #3 and #11) will be required. Staged construction would be required for all ramp reconstruction and freeway widening. Freeway operations would most likely be affected by this project, however, freeway lane closures are not anticipated. An EB concrete shoulder will be constructed with a 12 foot width to provide for future widening as contemplated by Project #3 and #11.

Benefits

The lane addition would help to alleviate the weaving condition between SR-241 and SR-71, as well as remove vehicles from the SR-91 mainline that would be exiting at Green River Road and SR-71.

Current Status

Funding is from the American Recovery and Reinvestment Act (ARRA) with \$71.44M approved, and the balance of project costs are from other sources. Construction began in late 2009 and was completed in September 2010.



Widen SR-91 between SR-55 and SR-241 by Adding a 5th GP Lane in Each Direction

Appendix Project No: B-4 Actual Completion: January 2013

Project Costs

Capital Cost	\$ 65,005,000
Support Cost	\$ 19,639,000
R/W Cost	\$ 573,000
Total Project Cost	\$ 85,217,000

Project Schedule

Preliminary Engineering	Completed
Environmental	Completed
Design	Completed
Construction	Completed

Project Description

This project proposes capacity and operational improvements by adding one general purpose (GP) lane on eastbound (EB) SR-91 from the SR-55/SR-91 connector to east of the Weir Canyon Road interchange and on westbound (WB) SR-91 from just east of Weir Canyon Road interchange to the Imperial Highway (SR-90) interchange. Additionally, this project would facilitate truck traffic approaching the truck scales in both directions.

Key Considerations

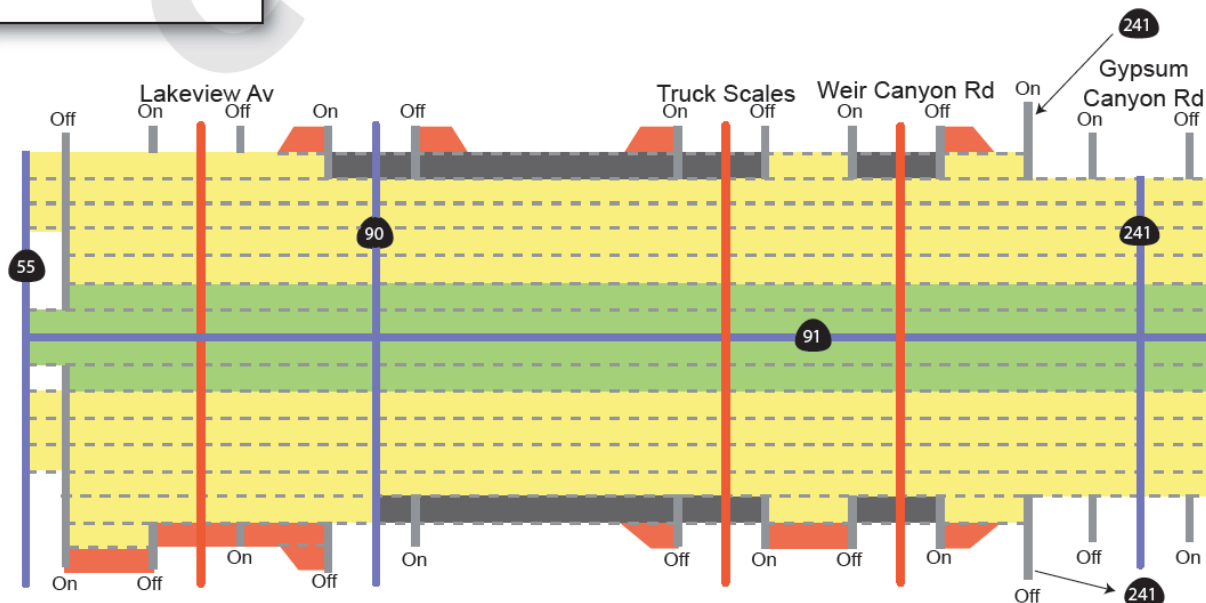
Caltrans is not considering relocation of the truck scales at this time.

Benefits

Alleviates congestion on WB SR-91 by eliminating the lane drop at the truck scales and providing a continuous GP lane to SR-90. Alleviates congestion on EB SR-91 by eliminating the lane drop for northbound (NB) SR-55 at SR-91 by providing an auxiliary lane to Lakeview Avenue, and at SR-90 by providing a continuous GP lane through Weir Canyon

LEGEND

- Existing Highway
- Interchange/Ramp
- Existing Interchange
- HOV or HOT Lane
- Existing Lane
- Project Improvement Lane
- Auxiliary Lane



NOTE: FAIRMONT BLVD IS CONTINGENT UPON IMPLEMENTATION OF THE PROJECT



SR-91 WB Lane at Tustin Avenue

Appendix Project No: B-5

Actual Completion: April 2016

Project Cost Estimate*

Capital Cost	\$ 22,218,000
Support Cost	\$ 16,382,000
R/W Cost	\$ 4,682,000
Total Project Cost	\$ 43,282,000

Project Schedule

Preliminary Engineering	Completed
Environmental	Completed
Design	Completed
Construction	Completed

Project Description

The project will add a westbound (WB) auxiliary lane on SR-91 beginning at the northbound (NB) SR-55 to WB SR-91 connector through the Tustin Avenue interchange. This project includes approximately 1.1 lane miles.

Key Considerations

Build Alternative 3 was selected from the Project Study Report (PSR), *On Westbound (WB) SR-91 Auxiliary Lane from the Northbound (NB) SR-55/WB SR-91 Connector to the Tustin Avenue Interchange*, and requires additional right-of-way. City of Anaheim utilities are within close proximity of the proposed widening section. Widening of the Santa Ana River bridge is required. Coordination with the City of Anaheim occurred for widening of Tustin Avenue and the WB SR-91 Off-Ramp that was completed in early 2011.


Benefits

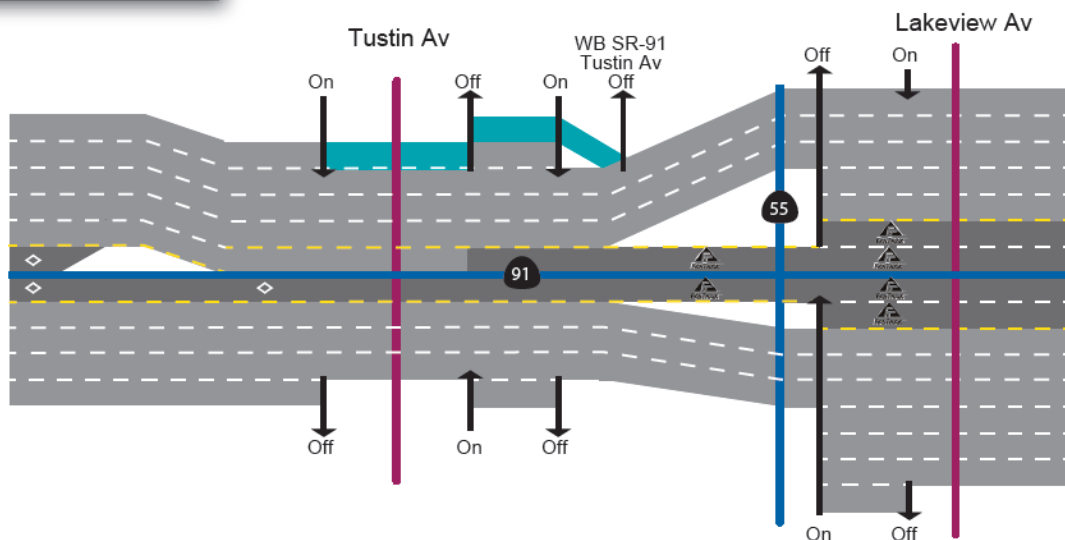
The project would reduce or eliminate operational problems and deficiencies on this section of WB SR-91 including weaving and merging maneuvers. This project would also address choke-point conditions, which are caused primarily by extensive weaving between the NB SR-55 to WB SR-91 connector and the WB SR-91 off-ramp to Tustin Avenue.

Current Status

Preliminary engineering was completed and approved by Caltrans. The environmental phase was completed in November 2010, and design was completed in mid-2013. Construction was initiated in February 2014. The project received \$14M from the Proposition 1B State-Local Partnership Program (SLPP), \$14M from Measure M, with the balance from Regional Improvement Program (RIP) funds. Contract acceptance and open to traffic in May 2016.

LEGEND

- Existing Highway
- Interchange/Ramp
- County Line
- ◇ HOV Lane
-  Tolted Express Lane
- Existing Lane
- Proposed Improvement Lane



Metrolink Service Improvements

Appendix Project No: B-6

Actual Completion: 2016

Project Cost Estimate*

IEOC Service Cost	\$ 1,160,000
Perris Valley Line Cost	\$ 248,000,000
Total Metrolink Costs	\$ 249,160,000

Project Schedule

Complete 2016

* Costs from OCTA and RCTC
(in 2015 dollars)

Project Description

Orange County Transportation Authority (OCTA) and the Riverside County Transportation Commission (RCTC) are coordinating on the implementation of additional commuter rail service on the Inland Empire – Orange County (IEOC) Line, which operates between Oceanside and San Bernardino. The ongoing success of the IEOC Line service and significant freeway construction on parallel corridors would bolster potential growth on Metrolink. Currently, there are sixteen (16) daily trains that run on the IEOC Line and nine (9) trains running on the 91 Line for a total of 25 daily trains. There will be an additional two IEOC roundtrips by late 2015. The long-term service improvements will include 24 IEOC trains by 2030.

Construction began in October 2013 and was opened to riders in early 2016 on the \$248,300,000 Perris Valley Line (PVL), which will expand Metrolink commuter rail service on the 91 Line (Riverside to Los Angeles, via Fullerton). The new service will extend

24 miles from downtown Riverside to south Perris and will add four new stations along the route. The PVL is expected to open to riders by December 2015. The project is located within the right of way of the existing San Jacinto Branch Line through Riverside, Moreno Valley and Perris. The PVL is the first extension of Metrolink service since the Antelope Valley Line was built in 1994. The initial schedule (December 2015) has nine trains through to Los Angeles and 12 between Perris and Riverside.

Key Considerations

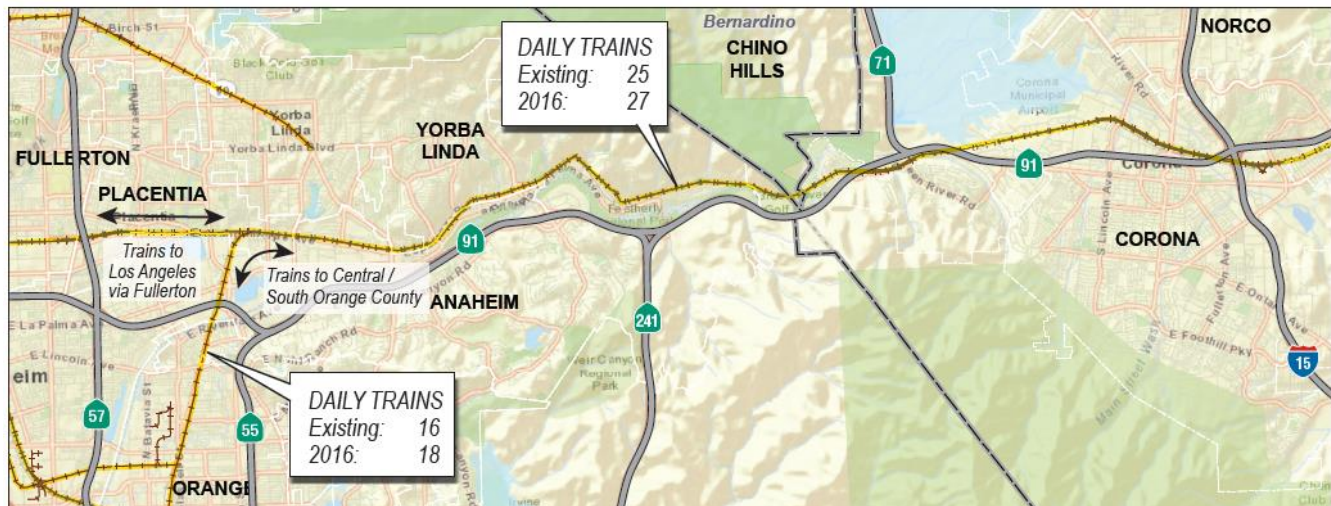
The long-term plan (by 2030) adds more service by constructing additional stations. The City of Anaheim is also proposing Anaheim Canyon Station improvements for a second track and platform to be implemented as part of the long-term plan. The City of Placentia is currently in the environmental phase for a new Metrolink commuter rail passenger station and parking lot to be constructed as part of the long-term plan.

Benefits

Enables development of expanded Metrolink service and improves efficiency, which will contribute to congestion relief on SR-91.

Current Status

Two additional IEOC Line roundtrips were added in late 2015 and nine trains from the expanded PVL were added early 2016.



SECTION 5:

REFERENCES

The following documents and resources were used in the development of the 2017 Plan. Data was provided by OCTA, RCTC, Caltrans Districts 8 and 12, Transportation Corridor Agencies (TCA), other agencies and online resources.

Measure M Next 10 Delivery Plan (Next 10 Plan), November 14, 2016

Riverside Transit Agency, Ten-Year Transit Network Plan, January 22, 2015

PSR-PDS on Route 91 Between SR-57 and SR-55, October 2014

PS&E for “Westbound State Route 91 Auxiliary Lane from the NB SR-55/WB SR-91 Connector to the Tustin Avenue Interchange”, 2014

PS&E for Initial SR-91 CIP Project, 2014

California Transportation Commission, Corridor Mobility Improvement Account (CMIA), Amended December 2012

M2020 Plan (Measure M), September 2012

PSR-PDS for SR-241/SR-91 Connector, January 2012

Project Report and Environmental Document (EIR/EIS) for SR-91 CIP from SR-241 to Pierce Street Project, October 2012

PS&E “On State Route 91 Between the SR-91/SR-55 Interchange and the SR-91/SR-241 Interchange in Orange County”, April 2011

Corridor System Management Plan (CSMP) Orange County SR-91 Corridor Final Report, August 2010

Project Study Report/Project Report “Right of Way Relinquishment on Westbound State Route 91 Between Weir Canyon Road and Coal Canyon”, May 2010

SR-91/Fairmont Boulevard Feasibility Study, December 2009

Feasibility Evaluation Report for Irvine-Corona Expressway Tunnels, December 2009

Plans, Specifications and Estimates (PS&E) for Eastbound SR-91 lane addition from SR-241 to SR-71, May 2009

PSR “On State Route 91 Between the SR-91/SR-55 Interchange and the SR-91/SR-241 Interchange in Orange County”, April 2009

91 Express Lanes Extension and State Route 241 Connector Feasibility Study, March 2009

PSR/PR “On Gypsum Canyon Road Between the Gypsum Canyon Road/SR-91 Westbound Off-Ramp (PM 16.4) and the Gypsum Canyon Road/SR-91 Eastbound Direct On-Ramp (PM 16.4)”, June 2008

Orange County Transportation Authority Renewed Measure M Transportation Investment Plan, November 2006

Riverside County-Orange County Major Investment Study (MIS) – Final Project Report: Locally Preferred Strategy Report, January 2006

California – Nevada Interstate Maglev Project Report, Anaheim-Ontario Segment; California-Nevada Super Speed Train Commission, American Magline Group, August 2003

Route Concept Reports for SR-91, Caltrans Districts 8 and 12

Various Preliminary Drawings and Cross Sections, Caltrans Districts 8 and 12

2017 State Route 91 Implementation Plan



SR-91 Implementation Plan

- Required by AB 1010 (Chapter 688, Statutes of 2002) and SB 1316 (Chapter 714, Statutes of 2008)
- Updated annually to capture past, present and future projects along SR-91
 - I-15 to SR-57
- Plan not constrained by funding availability
- Projects categorized by completion year (horizon years)
 - By 2021
 - By 2030
 - By 2035

SR-91 – State Route 91

I-15 – Interstate 15

SR-57 – State Route 57

Culmination of Efforts

- Six Projects Completed



- \$478 Million Invested

Culmination of Efforts (continued)

- 17 Lane Miles Added



- 12% Increase in Throughput

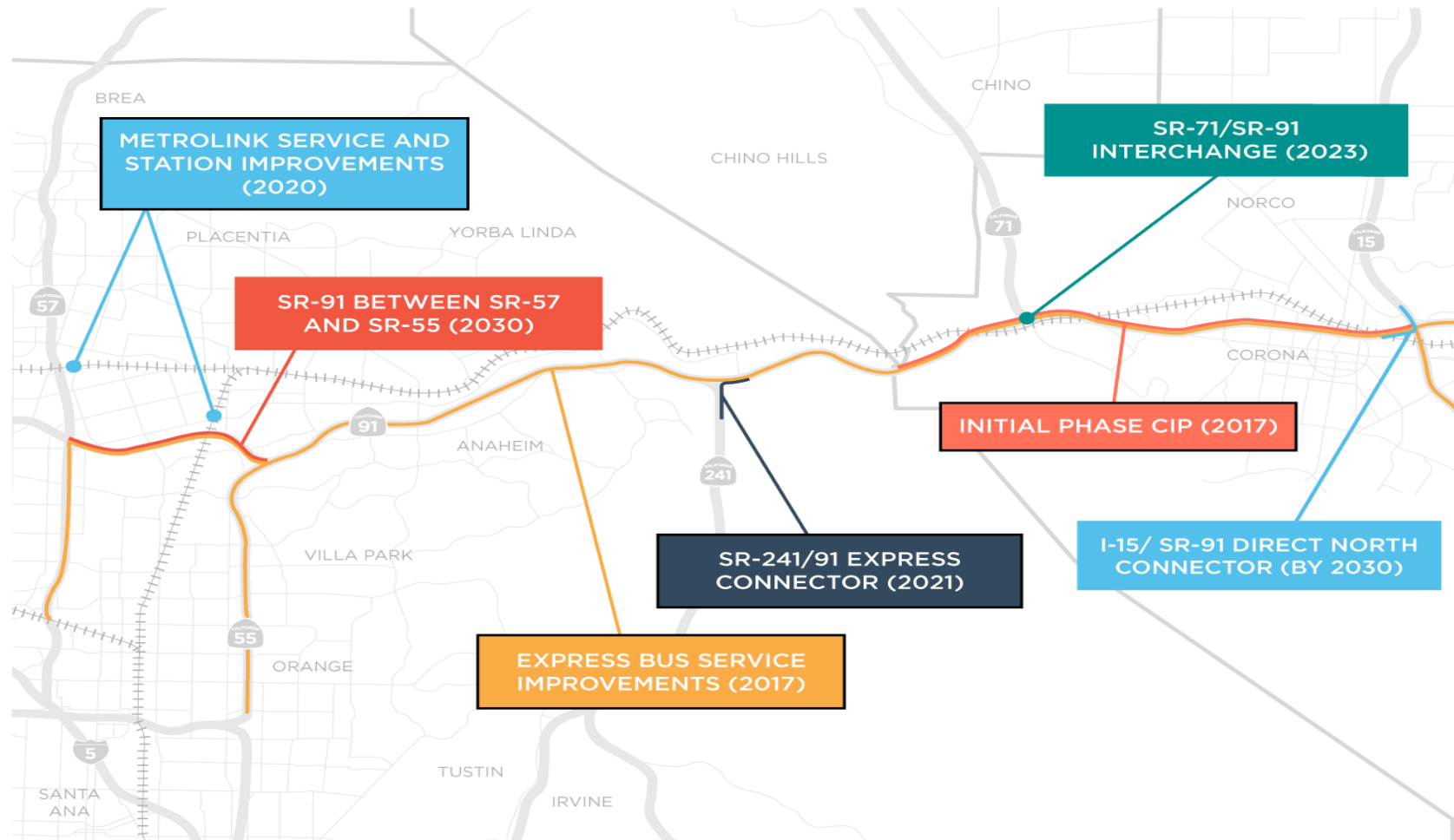
Culmination of Efforts (continued)

Benefits of Coordinated Efforts

- Addresses population/traffic growth
- Provides seamless connectivity between the counties
- Increases travel options
- Improves quality of life



By Year 2021 and 2030



SR-71 – State Route 71
SR-55 – State Route 55
CIP – Corridor Improvement Project
SR-241 – State Route 241
Black outline indicates projects by 2021

By Year 2035



Recommendation/Next Steps

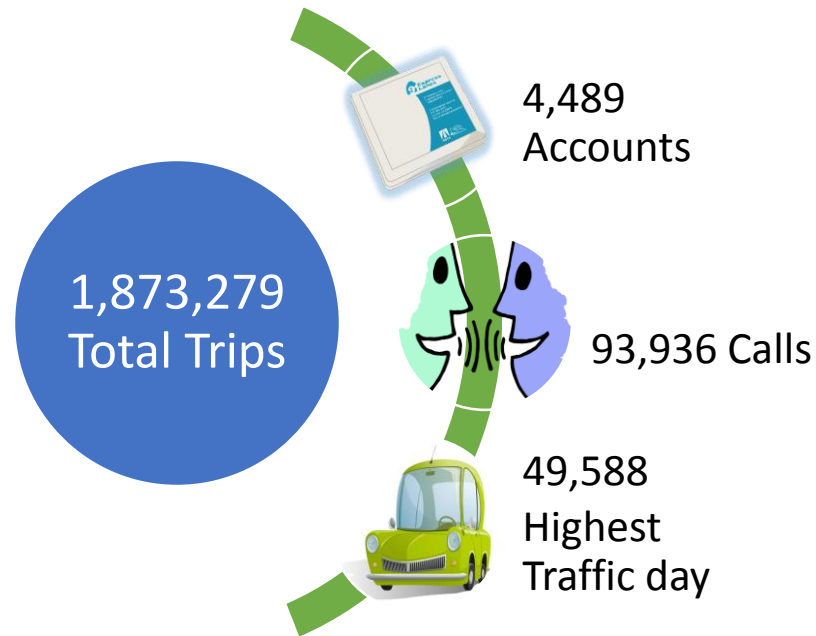
- Receive and file as an information item
- Present Plan to RCTC in July
- Provide approved Plan to State Legislature
- Continue project implementation efforts



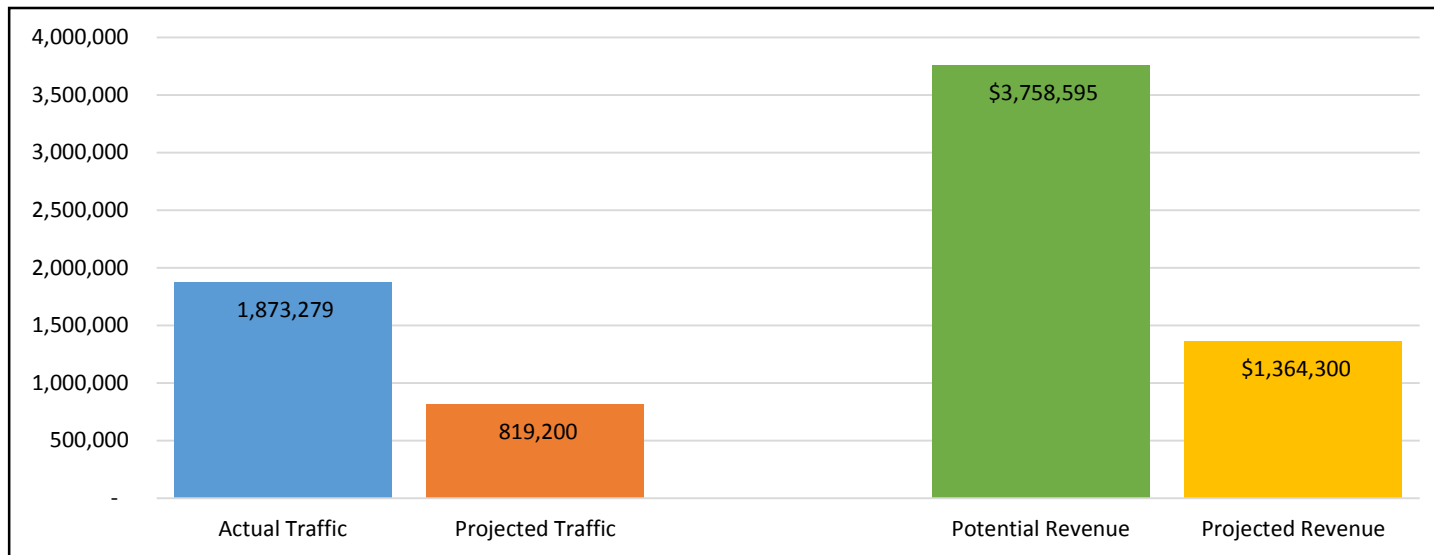
91 Express Lanes - Riverside Operations Report – First Seven Weeks

June 2, 2017

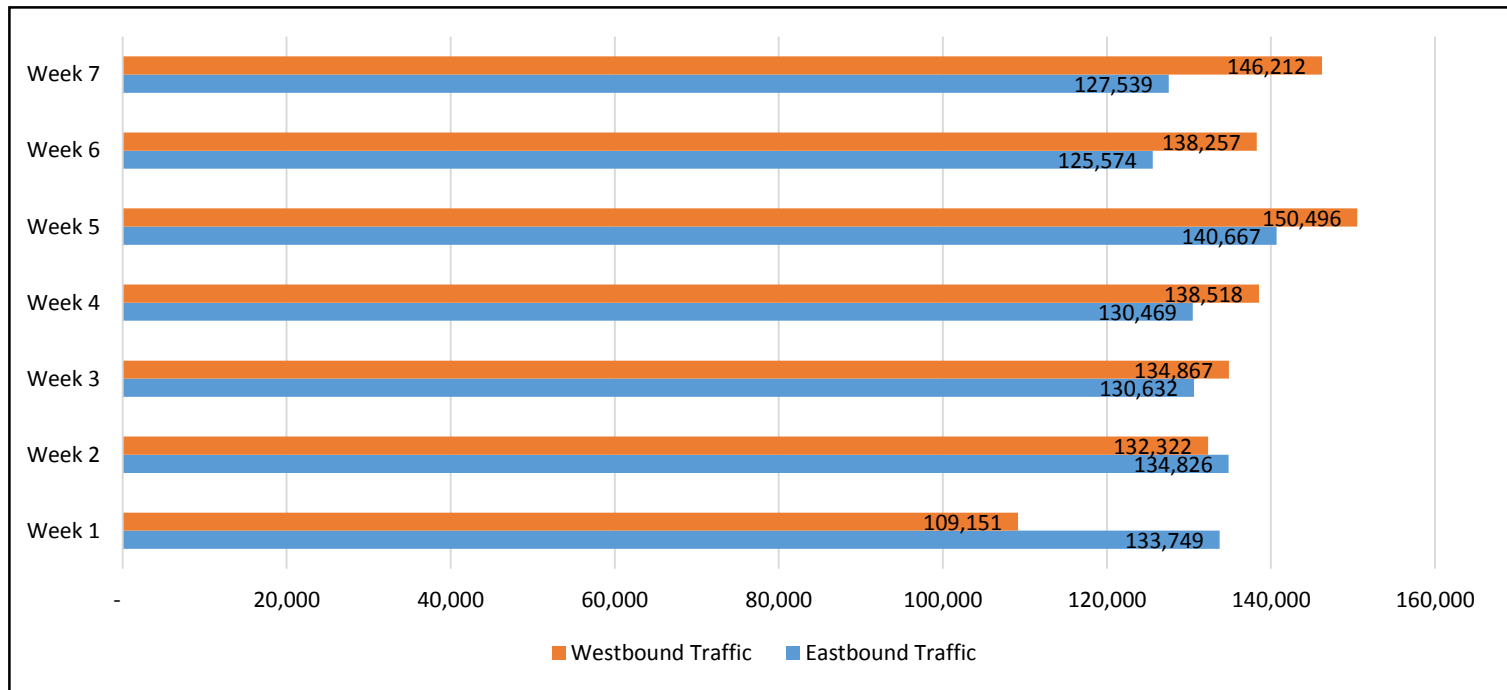
Seven Week Highlights



Total Traffic and Potential Revenue

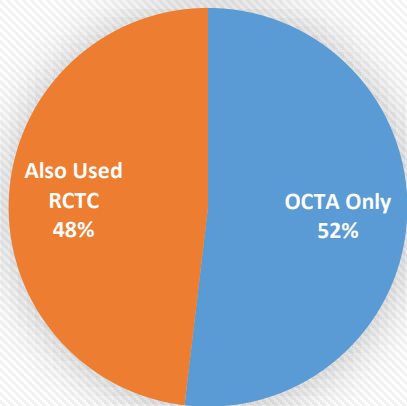


Traffic by Direction

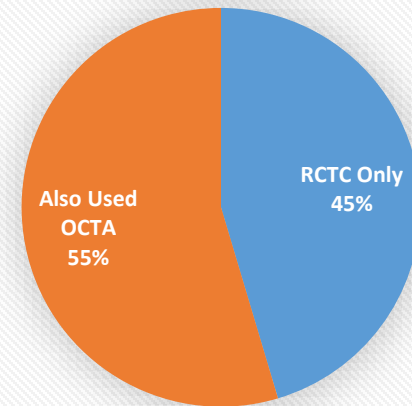


Segment Use

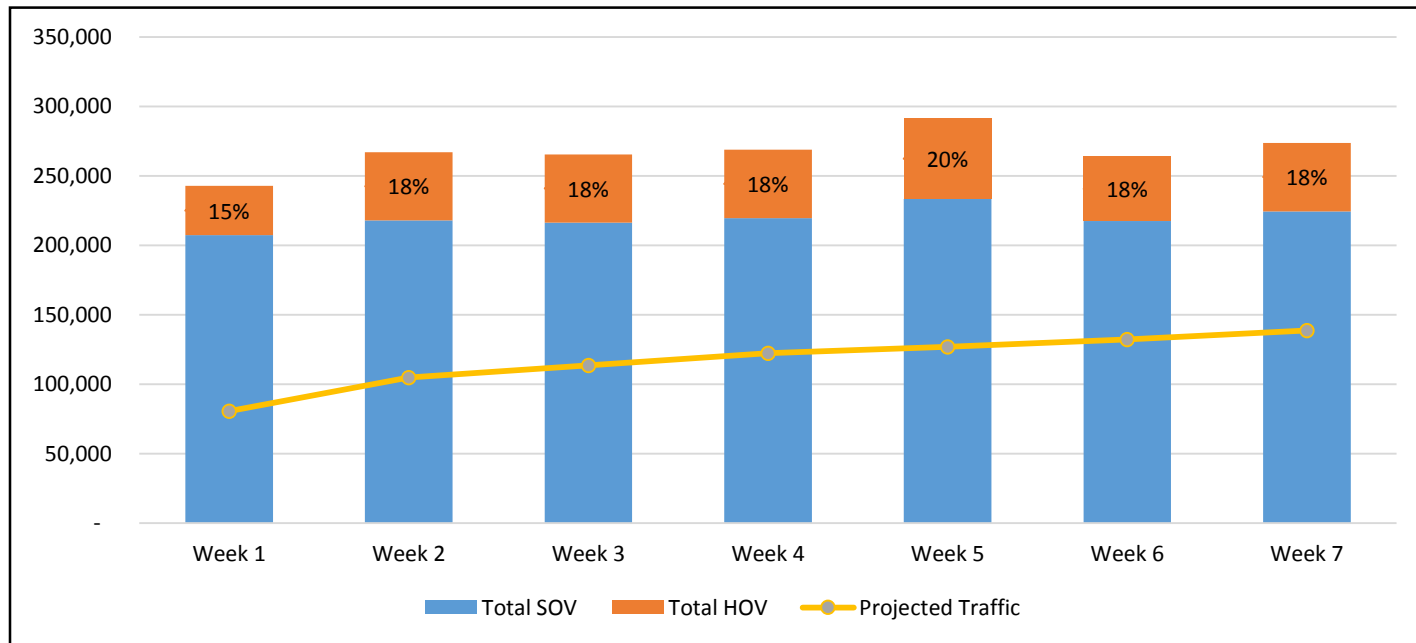
OCTA Transactions



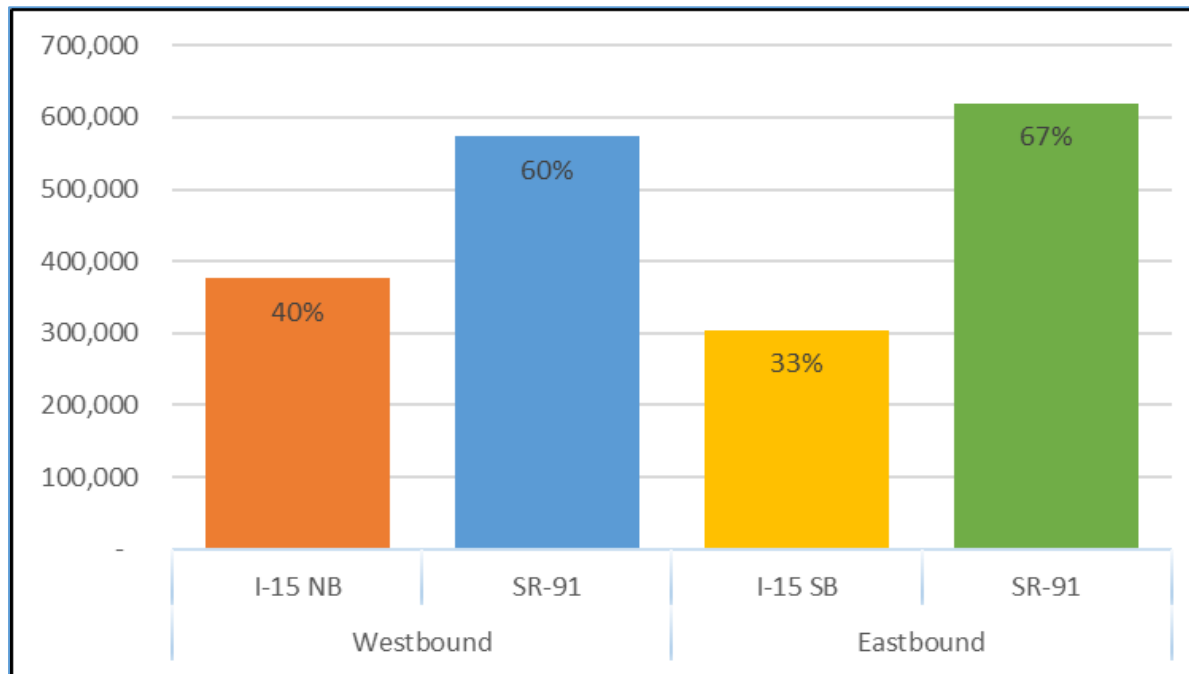
RCTC Transactions



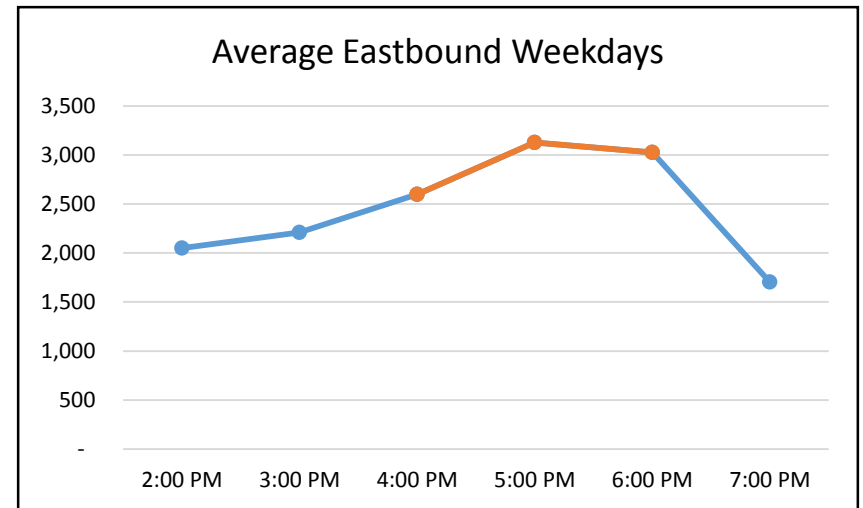
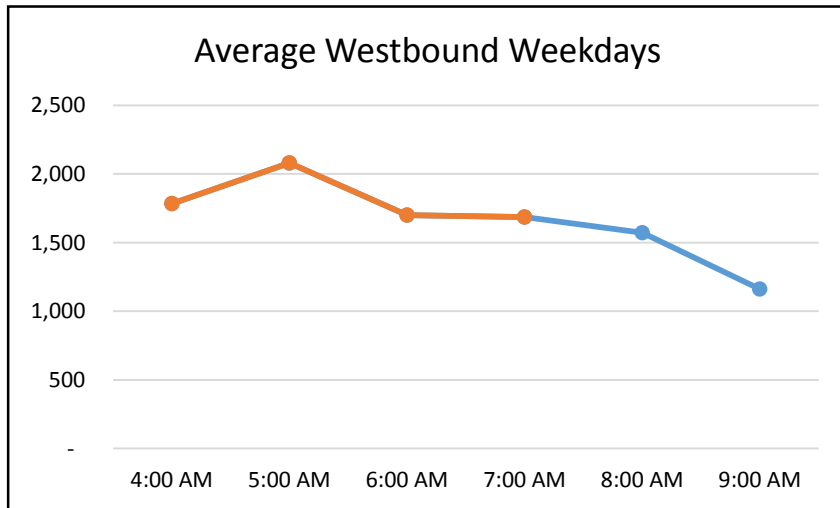
Weekly Traffic – HOV vs. SOV



I-15 and SR-91 Origin/Destination

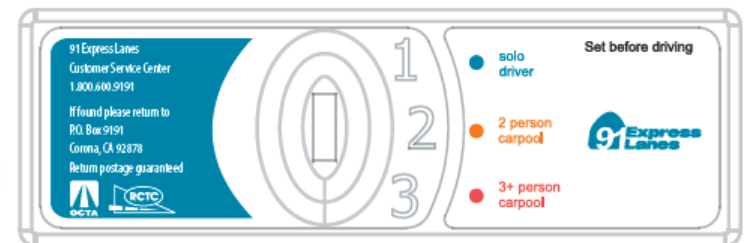
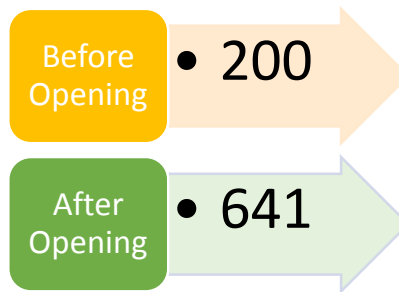


Peak Period Traffic



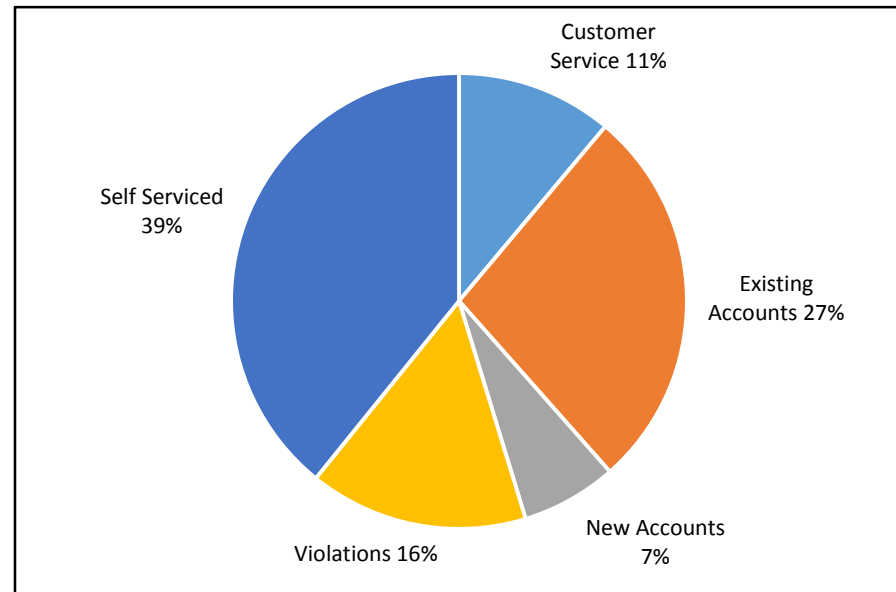
91 Express Lanes Account Openings

Week 1	937
Week 2	747
Week 3	657
Week 4	593
Week 5	603
Week 6	585
Week 7	367
Total	4,489



Call Center Statistics

Total Calls
93,936



Toll Rates

- Commission adopted an Opening Toll Policy in September 2016
 - Price per mile based on level of service volumes
 - Stantec projected estimated opening period volumes
- Actual volumes have consistently exceeded projected volumes for many hours warranting toll rate increases
- Weekly toll rate adjustments to manage eastbound peak period congestion

CHP Toll Enforcement

- Enforcement Targets
 - HOV 3+ violators
 - Vehicles without a transponder
 - Crossing channelizer
- Two units during peak periods



Freeway Service Patrol

Dedicated Express Lanes Service

- Two Trucks
- Initially 5 a.m. to 9 p.m.
- Responding to Incidents and Disabled Vehicles

Responses
210



Caltrans Express Lanes Maintenance

- Sunday Closures (Every three weeks)
 - 4/2/17
 - 4/23/17
 - 5/21/17
- Debris removal, sweeping, channelizer replacement, drain clearing



Upcoming Items

- Monthly reporting to SR-91 Advisory Committee to include RCTC
- Evaluating Improvements
 - Eastbound 91/15 split
 - Westbound SR-91 entrance
- Work with California Toll Operator Committee
 - Legislative Items
 - Technical Improvements
 - Statewide Marketing



91 Express Lanes Questions or Tour Requests

Jennifer Crosson
(951) 205-1496 or jcrosson@rctc.org