



I-580 Express Lane Policy Committee
Meeting Minutes
Monday, July 10, 2017, 10:00 a.m.

3.1

1111 Broadway, Suite 800, Oakland, CA 94607 • PH: (510) 208-7400 • www.AlamedaCTC.org

1. Roll Call

A roll call was conducted. All members were present with the exception of Commissioner Miley, Commissioner Kaplan, and Commissioner Valle.

Subsequent to the roll call:

Commissioner Miley arrived during item 4.2

2. Public Comment

There were no public comments.

3. Consent Calendar

3.1. Approve the June 12, 2017 I-580 Express Lane PC Meeting Minutes

Commissioner Thorne moved to approve the Consent Calendar with an amendment to correct the votes on the Consent Calendar. Commissioner Haggerty seconded the motion. The motion passed with the following votes:

Yes: Marchand, Haggerty, Haubert, Thorne

No: None

Abstain: None

Absent: Miley, Kaplan and Valle

4. Regular Matters

4.1. Approve the release of a request for proposals to procure consultant services to perform the I-580 Express Lanes "Before and After" Study; and Authorize the Executive Director to negotiate a professional services agreement with the top-ranked firm.

Saravana Suthanthira recommended that the Commission approve the release of a request for proposals (RFP) for professional services to perform the "Before and After" Study (Study) activities and authorize the Executive Director to negotiate a professional services agreement with the top-ranked firm. She stated that AB 574 requires a report on the findings, conclusions, and recommendations of the I-580 Express Lanes program performance to be completed within three years of the first revenue day. Upon approval of this item, staff intends to issue the RFP in September 2017 and expects to return to the Commission in January 2018 with an award recommendation. The resulting contract would be funded by I-580 Express Lanes Operations revenues. The estimated duration to complete the Study is one year.

Commissioner Haggerty moved to approve the item. Commissioner Thorne seconded the motion. The motion passed with the following votes:

Yes: Marchand, Thorne, Haggerty, Haubert

No: None

Abstain: None

Absent: Miley, Kaplan and Valle

4.2. Status update on the operation of I-580 Express Lanes

Liz Rutman provided an update on the operation of I-580 Express Lanes for the month of May 2017. She shared information on the corridor performance specifically average daily trips and speed/density data locations. Ms. Rutman also covered speed and density heat maps, and average daily toll rates. She concluded by providing information on toll rate plan adjustments and express lane financials.

This item was for information only.

4.3. I-580 Express Lane Toll Rate Plan Presentation

Liz Rutman presented an update on the I-580 Express Lane Toll Rate plan. She stated that The Commission approved a set of Business Rules in January 2015, adopted the Ordinance for Administration of Tolls and Enforcement of Toll Violations for the I-580 Express Lanes in July 2015, and adopted a Toll Policy in September 2015. Ms. Rutman stated that the minimum toll rate on I-580 was increased to \$0.50 effective January 1, 2017. The currently implemented maximum toll rates on I-580 are \$9.00 in the eastbound direction and \$13.00 in the westbound direction

This item was for information only.

5. Committee Member Reports

There were no committee reports.

6. Staff Reports

Art Dao introduced the Steve Mattas, from Meyers Nave LLP, as the legal counsel for the I-680 JPA and I-580 PC Express lane committees. He also noted that there were two new staff members Leslie Lara-Enriquez and Kristen Villanueva.

7. Adjournment/ Next Meeting

The next meeting is:

Date/Time: Monday, September 11, 2017 at 10:00a.m.

Location: Alameda CTC Offices, 1111 Broadway, Suite 800, Oakland, CA 94607

Attested by:



Vanessa Lee, Clerk of the Commission



DATE: September 5, 2017

SUBJECT: I-580 Express Lanes (PN 1373.002): Monthly Operation Update

RECOMMENDATION: Receive a status update on the operation of I-580 Express Lanes

Summary

The Alameda CTC is the project sponsor of the I-580 Express Lanes, located in the Tri-Valley corridor through the cities of Dublin, Pleasanton, and Livermore, which are now in operation having opened to traffic on February 19th and 22nd of 2016. See Attachment A for express lane operation limits.

The June and July 2017 operations report indicates that the new express lane facility continues to provide travel time savings and travel reliability throughout the day. Express lane users experienced average speeds up to 27 mph greater than the average speeds in the general purpose lanes, along with lesser average lane densities than the general purpose lanes, in the most congested segments of the corridor.

Background

The I-580 Express Lanes, extending from Hacienda Drive to Greenville Road in the eastbound direction and from Greenville Road to San Ramon Road/Foothill Road in the westbound direction, were opened to traffic on February 19th and 22nd of 2016 in the eastbound and westbound directions, respectively. See Attachment A for express lane operation limits. Motorists using the I-580 Express Lanes facility benefit from travel time savings and travel reliability as the express lanes optimize the corridor capacity by providing a new choice to drivers. Single occupancy vehicles (SOVs) may choose to pay a toll and travel within the express lanes, while carpools, clean-air vehicles, motorcycles, and transit vehicles enjoy the benefits of toll-free travel in the express lanes.

An All Electronic Toll (AET) collection method has been employed to collect tolls. Toll rates are calculated based on real-time traffic conditions (speed and volume) in express and general purposes lanes and can change as frequently as every three minutes. California Highway Patrol (CHP) officers provide enforcement services and the California Department of Transportation (Caltrans) provides roadway maintenance services through reimbursable service agreements.

June/July 2017 Operations Update: Over 732,000 express lane trips were recorded during operational hours in June, an average of approximately 33,300 daily trips. There were nearly 652,000 express lane trips recorded in July, or 32,600 average daily trips. Table 1 presents the breakdown of trips based on toll classification and direction of travel; these percentages have remained consistent for the last six months. Pursuant to the Commission-adopted "Ordinance for Administration of Tolls and Enforcement of Toll Violations for the I-580 Express Lanes," if a vehicle uses the express lanes without a valid FasTrak® toll tag then the license plate read by the Electronic Tolling System is used to either assess a toll either by means of an existing FasTrak account to which the license plate is registered or by issuing a notice of toll evasion violation to the registered vehicle owner.

Table 1. Express Lane Trips by Type and Direction

Trip Classification		Percent of Trips	
		June	July
By Type	HOV-eligible with FasTrak flex tag	39%	39%
	SOV with FasTrak standard or flex tag	40%	39%
	No valid toll tag in vehicle	21%	22%
By Direction	Westbound	46%	47%
	Eastbound	54%	53%

Express lane users generally experience higher speeds and lesser lane densities than the general purpose lanes. Lane density is measured by the number of vehicles per mile per lane and reported as Level of Service (LOS). LOS is a measure of freeway performance based on vehicle maneuverability and driver comfort levels, graded on a scale of A (best) through F (worst). Table 2 summarizes the average speed differentials and LOS at four locations in each of the westbound and eastbound directions during respective commute hours for June and July. The table provides an overall snapshot of the express lane benefits for each month during commute hours.

Attachment B presents the speed and density heat maps for the I-580 corridor during revenue hours for the six-month period from January 2017 – June 2017. These heat maps are a graphical representation of the overall condition of the corridor, showing the average speeds and densities along the express lane corridor and throughout the day for both the express and general purpose lanes, and are used to evaluate whether the express lane is meeting both federal and state performance standards. During these six months, the average speeds in the westbound express lane ranged from 55 to 70 mph during the morning commute hours (5 am to 11 am) with lower speeds occurring between Isabel Avenue and Hacienda Road. The express lane operated at LOS C or better at all times, with LOS C occurring only for a short period of time in the middle of the corridor

(Isabel Avenue to Hacienda Road) during the morning commute hours. By comparison, the general purpose lanes experienced speeds as low as 42 mph and LOS D throughout several sections of the corridor. During the evening commute, the westbound lanes reflect a small period of reverse-commute congestion between Hacienda Road and San Ramon Road from 5 pm to 6 pm, though the express lane continued to operate at LOS A or better during this time. Outside of the commute hours, express lane users experience average speeds of 70 mph or higher and average LOS A.

Table 2. Speed Differentials and Level of Service for June 2017

	Direction	I-580 in the Vicinity of	Speed Differential Range (mph)	Average Speed Differential (mph)	Average Express Lane LOS	Average General Purpose Lane LOS
June	Westbound Morning Commute: 5 am – 11 am	North First Street	6 - 7	7	A	C
		North Livermore Ave	3 - 5	4	B	C
		Fallon Road	3 - 13	9	C	D
		Santa Rita Road	8 - 18	12	B	C
	Eastbound Evening Commute: 2 pm – 7 pm	Hacienda Road	22 - 27	25	C	E
		Airway Blvd	7 – 11	9	B	C
		North Livermore Ave	8 – 12	10	B	C
		North First Street	10 - 30	19	B	D
July	Westbound Morning Commute: 5 am – 11 am	North First Street	5 - 8	6	A	C
		North Livermore Ave	1 - 6	4	B	C
		Fallon Road	4 - 11	8	B	C
		Santa Rita Road	8 - 16	11	B	C
	Eastbound Evening Commute: 2 pm – 7 pm	Hacienda Road	20 - 25	23	C	E
		Airway Blvd	6 – 10	8	B	C
		North Livermore Ave	7 – 12	9	A	C
		North First Street	12 - 25	17	B	C

In the eastbound direction, average express lane speeds from February 2017 through July 2017 ranged from 25 to 70 mph during the evening commute hours (2 pm – 7 pm) with the lowest speeds occurring at the eastern terminus of the express lanes, between Vasco Road and Greenville Road. Average express lane speeds throughout the rest of the day exceeded 70 mph. Most of the express lane corridor operates at LOS C better during the

evening commute hours, with limited sections of degraded LOS at the western end of the express lanes between 3 pm and 5 pm and at the eastern terminus between 4 pm and 6 pm. The express lanes averaged LOS B or better throughout the rest of the day in all locations. By comparison, the general purpose lanes experienced lower speeds and degraded levels of services for longer periods of time than the express lane during the evening commute hours.

Table 4 presents the maximum posted toll rates to travel the entire corridor in each direction, along with the average toll assessed to non-HOV users, for June and July 2017.

Table 4. Toll Rate Data for June and July 2017

Month	Direction	Maximum Posted Toll (Travel Entire Corridor)	Average Assessed ¹ Toll (All Toll Trips)
June	Westbound	\$10.25 (2 of 22 days)	\$2.32
	Eastbound	\$9.00 (21 of 22 days)	\$3.04
July	Westbound	\$11.50 (1 of 20 days)	\$2.22
	Eastbound	\$9.00 (18 of 20 days)	\$2.93

¹ Assessed toll is the toll rate applied to non-toll-free trips and reflects potential revenue generated by the trip. Not all potential revenue results in actual revenue received.

During Fiscal Year 2016-17, the I-580 Express Lanes have recorded over 7.8 million total trips. Total gross revenues received include \$10.1 million in toll revenues and \$3.1 million in violation fees and penalties. Gross revenues in July 2017 include \$720,000 in toll revenues and \$370,000 in fees and penalties.

Staff is coordinating education and outreach with partner agencies including CCTA, MTC, 511 Contra Costa as well as local CMAAs to promote consistent messaging and accessible information about the I-580, I-680 Sunol, and the I-680 Contra Costa County express lanes, which are scheduled to open later this summer.

Fiscal Impact: There is no fiscal impact.

Attachments

- A. I-580 Corridor Express Lane Location Map
- B. I-580 Corridor Heat Maps January 2017 – June 2017

Staff Contacts

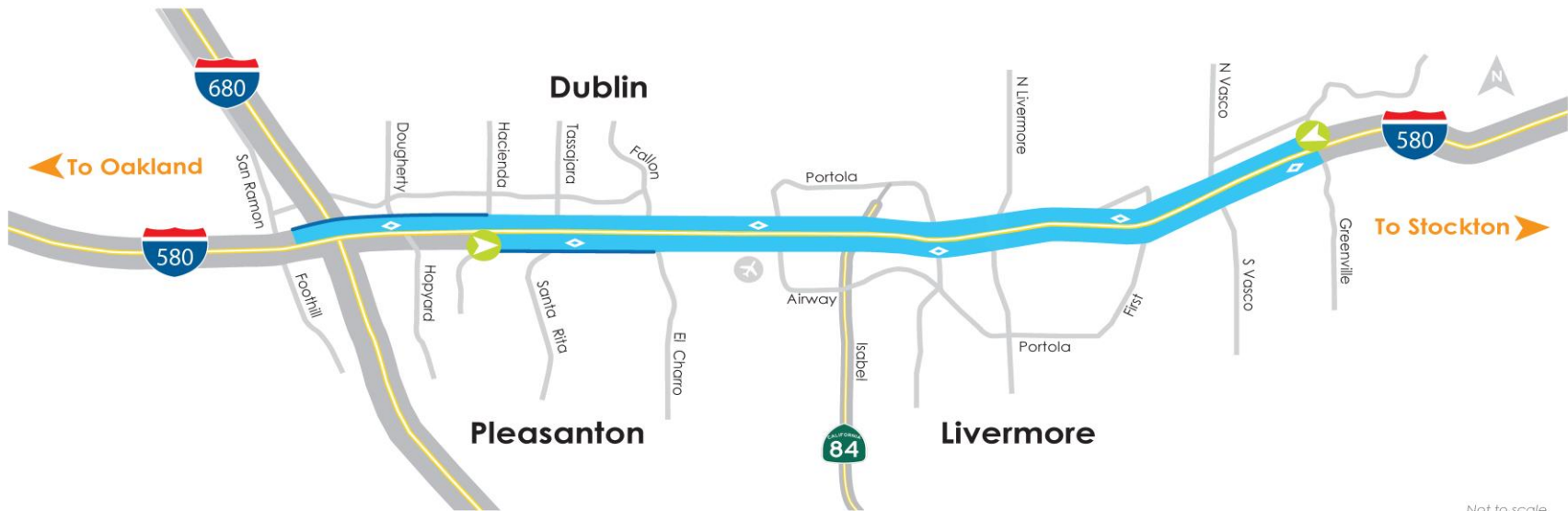
[Liz Rutman](#), Director of Express Lanes Implementation and Operations

[Ashley Tam](#), Assistant Transportation Engineer



I-580 Express Lanes Project Location Map

4.1A



Not to scale



Two Eastbound Express Lanes

Lanes begin at Hacienda

No entry/exit from eastbound express lanes from Hacienda to Fallon / El Charro.

Please note: For access to Santa Rita Road, do not enter express lanes.



One Westbound Express Lane

Lane begins at Greenville

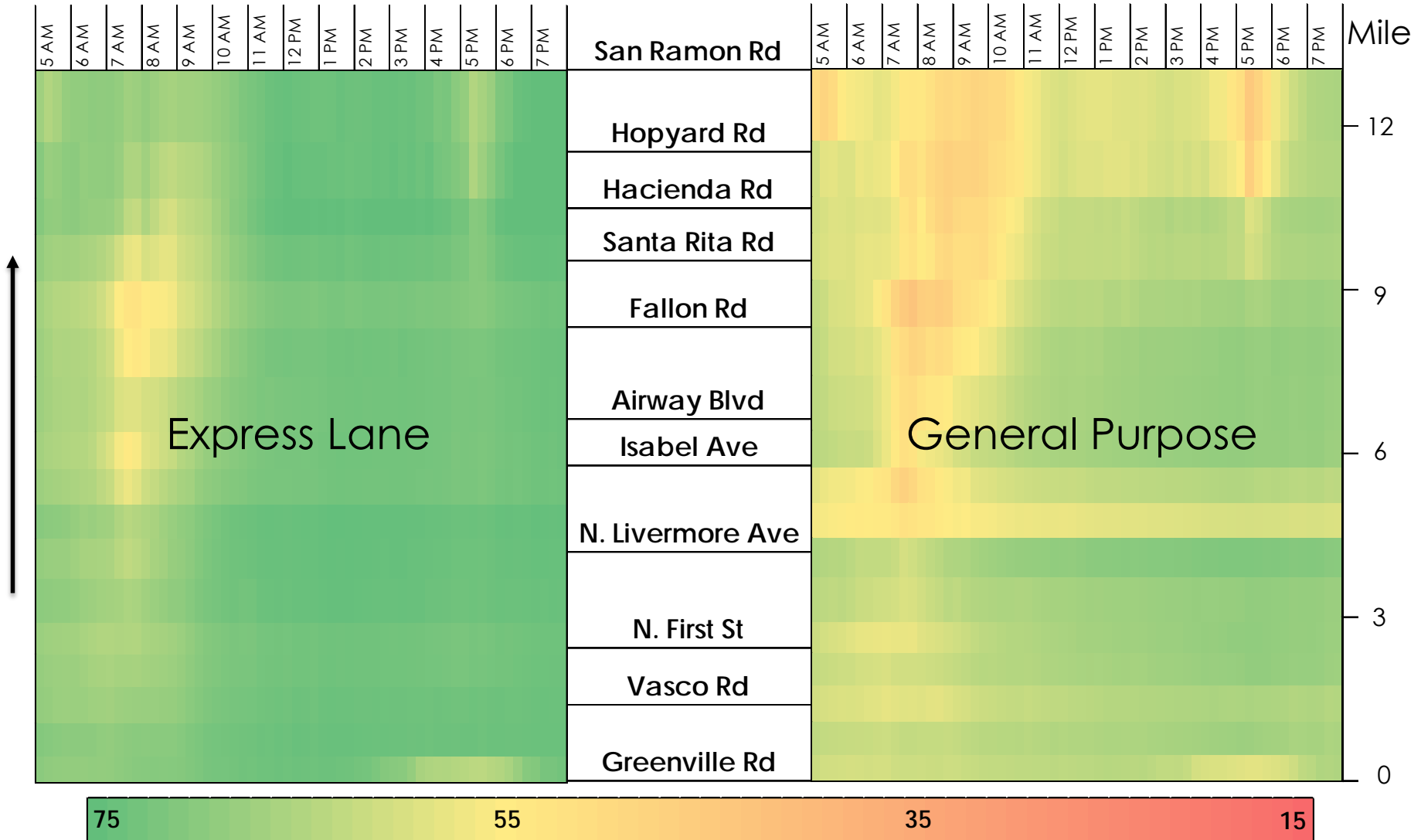
No entry/exit from westbound express lane from Hacienda to end.

Please note: For access to I-680 or Dougherty, exit express lane before Hacienda.

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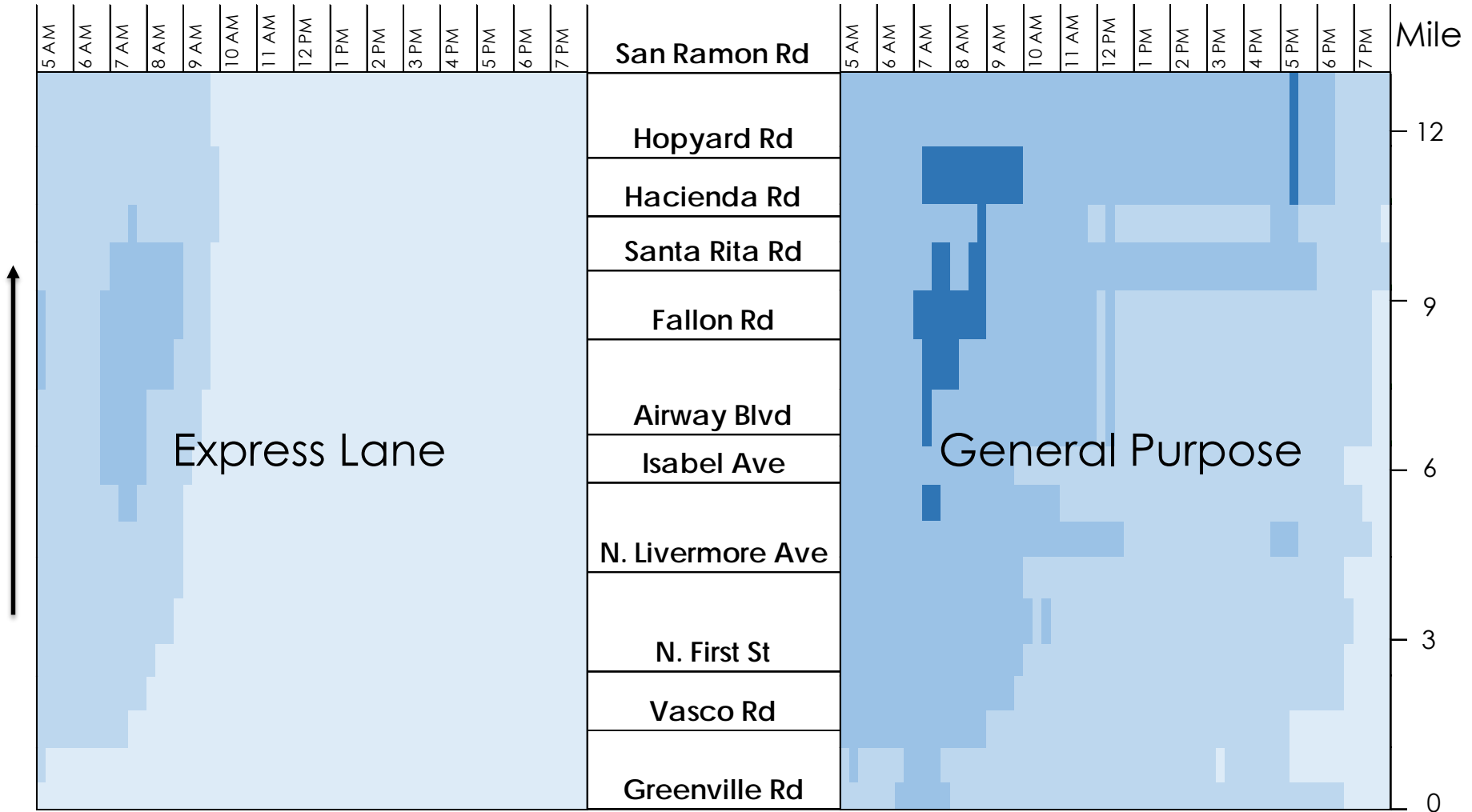
Westbound I-580 Corridor Speed Heat Maps 4.1B

Monday-Friday, January 2017 – June 2017



Westbound I-580 Corridor Density Heat Maps

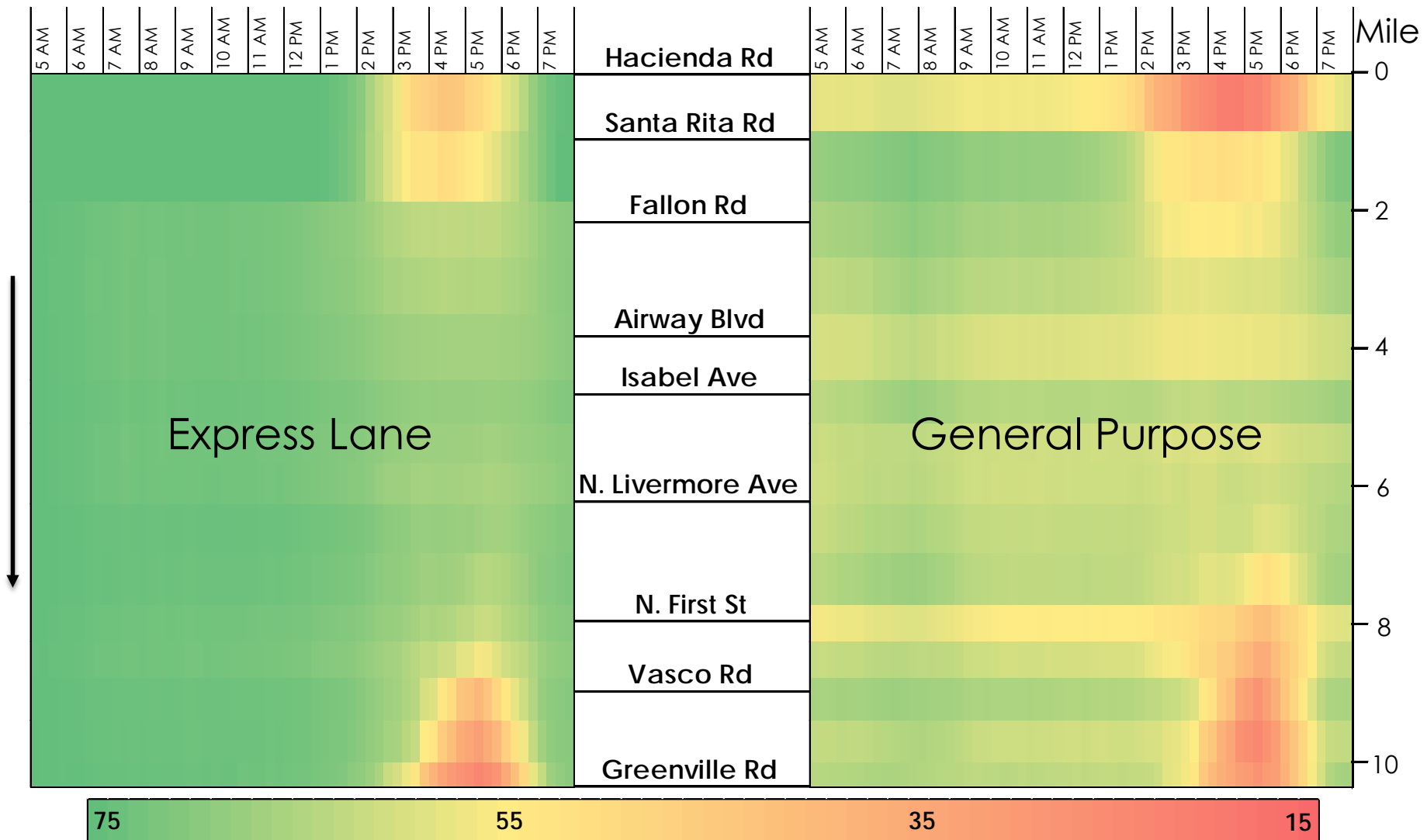
Monday-Friday, January 2017 – June 2017



LOS A	LOS B	LOS C	LOS D	LOS E	LOS F
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Eastbound I-580 Corridor Speed Heat Maps

Monday-Friday, February 2017 – July 2017



Eastbound I-580 Corridor Density Heat Maps

Monday-Friday, January 2017 – June 2017

