



I-580 Express Lane Policy Committee Monday, February 10, 2020, 10:00 a.m.

Committee Chair:	Nate Miley, Alameda County, District 4	Executive Director:	Tess Lengyel
Vice Chair:	David Haubert, City of Dublin	Staff Liaison:	Gary Huisingh
Members:	Scott Haggerty, John Marchand, Jerry Thorne	Clerk of the Commission:	Vanessa Lee
Ex-Officio:	Pauline Russo Cutter, John Bauters		

1. Call to Order/Pledge of Allegiance

2. Roll Call

3. Public Comment

4. Consent Calendar

Page/Action

4.1. [Approve January 13, 2020 I-580 Express Lane PC Meeting Minutes](#) 1 A

5. Regular Matters

5.1. [I-580 Express Lanes Operations Update](#) 3 I

6. Committee Member Reports

7. Staff Reports

8. Adjournment

Next Meeting: Monday, March 9, 2020

Notes:

- All items on the agenda are subject to action and/or change by the Commission.
- To comment on an item not on the agenda (3-minute limit), submit a speaker card to the clerk.
- Call 510.208.7450 (Voice) or 1.800.855.7100 (TTY) five days in advance to request a sign-language interpreter.
- If information is needed in another language, contact 510.208.7400. Hard copies available only by request.
- Call 510.208.7400 48 hours in advance to request accommodation or assistance at this meeting.
- Meeting agendas and staff reports are available on the [website calendar](#).
- Alameda CTC is located near 12th St. Oakland City Center BART station and AC Transit bus lines. [Directions and parking information](#) are available online.



Alameda CTC Schedule of Upcoming Meetings for February and March 2020

Commission Chair

Mayor Pauline Russo Cutter,
City of San Leandro

Commission Vice Chair

Councilmember John Bauters,
City of Emeryville

AC Transit

Board Vice President Elsa Ortiz

Alameda County

Supervisor Scott Haggerty, District 1
Supervisor Richard Valle, District 2
Supervisor Wilma Chan, District 3
Supervisor Nate Miley, District 4
Supervisor Keith Carson, District 5

BART

Vice President Rebecca Saltzman

City of Alameda

Mayor Marilyn Ezy Ashcraft

City of Albany

Mayor Nick Pilch

City of Berkeley

Mayor Jesse Arreguin

City of Dublin

Mayor David Haubert

City of Fremont

Mayor Lily Mei

City of Hayward

Mayor Barbara Halliday

City of Livermore

Mayor John Marchand

City of Newark

Councilmember Luis Freitas

City of Oakland

Councilmember At-Large
Rebecca Kaplan
Councilmember Sheng Thao

City of Piedmont

Mayor Robert McBain

City of Pleasanton

Mayor Jerry Thorne

City of Union City

Mayor Carol Dutra-Vemaci

Executive Director

Tess Lengyel

Commission and Committee Meetings

Time	Description	Date
2:00 p.m.	Alameda CTC Commission Meeting	February 27, 2020 March 26, 2020
9:00 a.m.	Finance and Administration Committee (FAC)	March 9, 2020
9:30 a.m.	I-680 Sunol Smart Carpool Lane Joint Powers Authority (I-680 JPA)	
10:00 a.m.	I-580 Express Lane Policy Committee (I-580 PC)	
10:30 a.m.	Planning, Policy and Legislation Committee (PPLC)	
12:15 p.m.	Programs and Projects Committee (PPC)	

Advisory Committee Meetings

5:30 p.m.	Bicycle and Pedestrian Advisory Committee (BPAC)	February 13, 2020
1:30 p.m.	Joint Paratransit Advisory and Planning Committee (PAPCO) and Paratransit Technical Advisory Committee (ParaTAC)	February 24, 2020
1:30 p.m.	Alameda County Technical Advisory Committee (ACTAC)	March 5, 2020
5:30 p.m.	Independent Watchdog Committee (IWC)	March 9, 2020
9:30 a.m.	Paratransit Technical Advisory Committee (ParaTAC)	March 10, 2020
1:30 p.m.	Paratransit Advisory and Planning Committee (PAPCO)	March 23, 2020

All meetings are held at Alameda CTC offices located at 1111 Broadway, Suite 800, Oakland, CA 94607. Meeting materials, directions and parking information are all available on the [Alameda CTC website](http://www.alamedactc.org). Meetings subject to change.



I-580 Express Lane Policy Committee Meeting Minutes Monday, January 13, 2020, 10:00 a.m.

4.1

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1. Call to Order/Pledge of Allegiance

2. Roll Call

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

Subsequent to the roll call:

Commissioner Miley arrived during Item 5.1

3. Public Comment

There were no public comments.

4. Consent Calendar

4.1. Approve the October 14, 2019 I-580 Express Lane PC meeting minutes.

Commissioner Thorne moved to approve consent calendar. Commissioner Marchand seconded the motion. The motion passed with the following votes:

Yes: Cutter, Haggerty, Haubert, Marchand, Thorne, Valle

No: None

Abstain: None

Absent: Miley

5. Regular Matters

5.1. I-580 Express Lanes: Monthly Operations Status Update

Ashley Tam presented the I-580 Express Lanes monthly operations update. The update covered average trips by month, user trip breakdown, corridor speed and density heat maps for both directions of travel, and historical toll rates. She concluded by reviewing estimated gross toll revenues versus forecasted operating budget. Liz Rutman noted that this month, staff implemented a toll rate adjustment in both directions, which tweaked the parameters for the pricing algorithm, placing an emphasis on volume to better track pricing with congestion. Tess Lengyel noted that the change was made at the request of the Committee.

Commissioner Cutter asked if there is a big shift in the volume in the toll lane verses the general-purpose lane when the toll rate increases or the maximums are hit. Ms. Rutman stated that the speed differentials are not significantly affected when the maximum toll is reached.

Commissioner Haggerty wanted to know why the contacts for CHP for I-680 express lanes were lower than the I-580 express lanes enforcement and wanted to know if

we could get information on other contacts that CHP is making with users of the lane. Ms. Rutman stated that other contacts could consist of car seats violations or speeding, and that staff would work with CHP on this request.

Commissioner Miley asked about data on traffic going over the Altamont Pass and requested data to be included in the I-580 express lanes presentation. Ms. Lengyel stated that staff will share information that is gathered from other reports at a future Alameda CTC meeting.

This item was for information only.

6. Committee Member Reports

There were no committee member reports.

7. Staff Reports

Tess Lengyel reminded the Commissioners that the full Commission meeting is January 30, 2020.

8. Adjournment/ Next Meeting

The next meeting is:

Date/Time: Monday, February 10, 2020 at 10:00 a.m.

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



Memorandum

5.1

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DATE: February 3, 2020

TO: I-580 Express Lane Policy Committee

FROM: Liz Rutman, Director of Express Lanes Implementation and Operations
Ashley Tam, Associate Transportation Engineer

SUBJECT: I-580 Express Lanes Operation Update

Recommendation

This item is to provide the Commission with an update on the operation of the I-580 Express Lanes. This item is for information only.

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 opened to traffic in February 2016. See Attachment A for express lane operation limits.

The December 2019 operations report indicates that the express lane facility continues to provide travel time savings and travel reliability throughout the day. Express lane users typically experienced higher speeds and lower average lane densities than the general purpose lanes, resulting in a more comfortable drive and travel time savings for express lane users.

Background

The I-580 Express Lanes, extending from Hacienda Drive to Greenville Road in the eastbound direction and from Greenville Road to the I-680 Interchange in the westbound direction, were opened to traffic in February 2016. 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 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 purpose 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.

December 2019 Operations Update:

Approximately 675,000 express lane trips were recorded during operational hours in December, which is an average of approximately 32,100 daily trips. Table 1 presents the breakdown of trips based on toll classification and direction of travel. 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 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. Approximately 75 percent of all trips by users without a toll tag are assessed tolls via FasTrak account.

Table 1. Express Lane Trips by Type and Direction

Trip Classification		Percent of Trips ¹
		December
By Type	HOV-eligible with FasTrak flex tag	50%
	SOV with FasTrak standard or flex tag	31%
	No valid toll tag in vehicle	19%
By Direction	Westbound	43%
	Eastbound	57%

1. Excludes "trips" by users that had no toll tag and either no license plate or one that could not be read by the Electronic Tolling System with sufficient accuracy that a toll could be assessed.

Express lane users typically experience higher speeds and lower 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).

Attachment B presents the speed and density heat maps for the I-580 corridor during revenue hours for the six-month period from July 2019 through December 2019. 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 lanes are meeting both federal and state performance standards. During these six months, the average speeds at each traffic sensor location in the westbound express lane ranged from 50 to over 70 mph during the morning commute hours (5 am to 11 am) with the lower speeds occurring between Isabel Avenue and Santa Rita Road. The express lane operated at LOS C or better at most times, with a period of LOS D

experienced from Isabel Avenue to Fallon Road in the morning commute. By comparison, the general-purpose lanes experienced average speeds as low as 40 mph and LOS D throughout longer sections of the corridor for longer periods of time.

In the eastbound direction, average express lane speeds from July 2019 through December 2019 ranged from 20 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 65 mph. Most of the express lane corridor operates at LOS C or better during the evening commute hours, with limited sections of degraded LOS at the western end of the express lanes between 3 pm and 6 pm and at the eastern terminus between 3 pm and 7 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 lanes during the evening commute hours.

Table 2 presents the maximum posted toll rates to travel the entire corridor in each direction, along with the average toll assessed to toll-paying users.

Table 2. Toll Rate Data

Month	Direction	Maximum Posted Toll (Travel Entire Corridor)	Average Assessed ¹ Toll (All Toll Trips)
December	Westbound	\$12.25 (1 of 21 days)	\$2.33
	Eastbound	\$12.00 (10 of 21 days)	\$3.54

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.

In Fiscal Year 2019-20, the I-580 Express Lanes recorded nearly 4.34 million total trips through December 2019. Total gross revenues received through December 2019 include \$6.70 million in toll revenues and \$1.52 million in violation fees and penalties; the pro-rated forecast operating budget is \$3.09 million.

Fiscal Impact: There is no fiscal impact. This is an information item only.

Attachments:

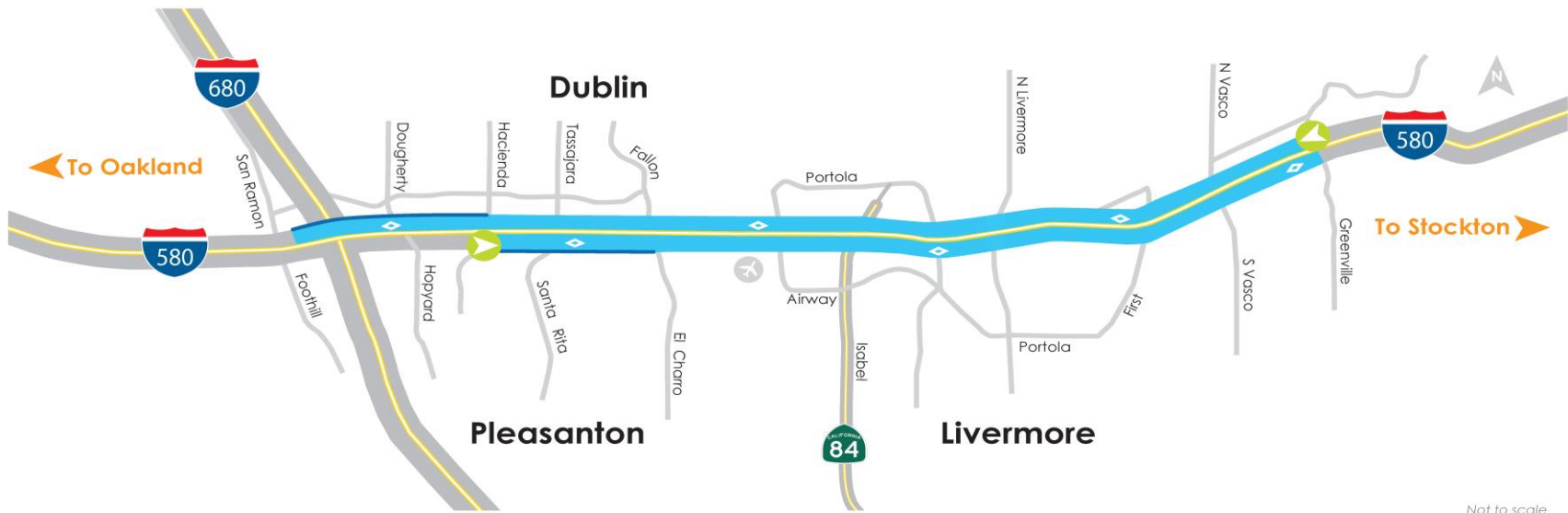
- A. I-580 Express Lanes Location Map
- B. I-580 Corridor Express Lanes Heat Maps July 2019 – December 2019

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I-580 Express Lanes Location Map

5.1A



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

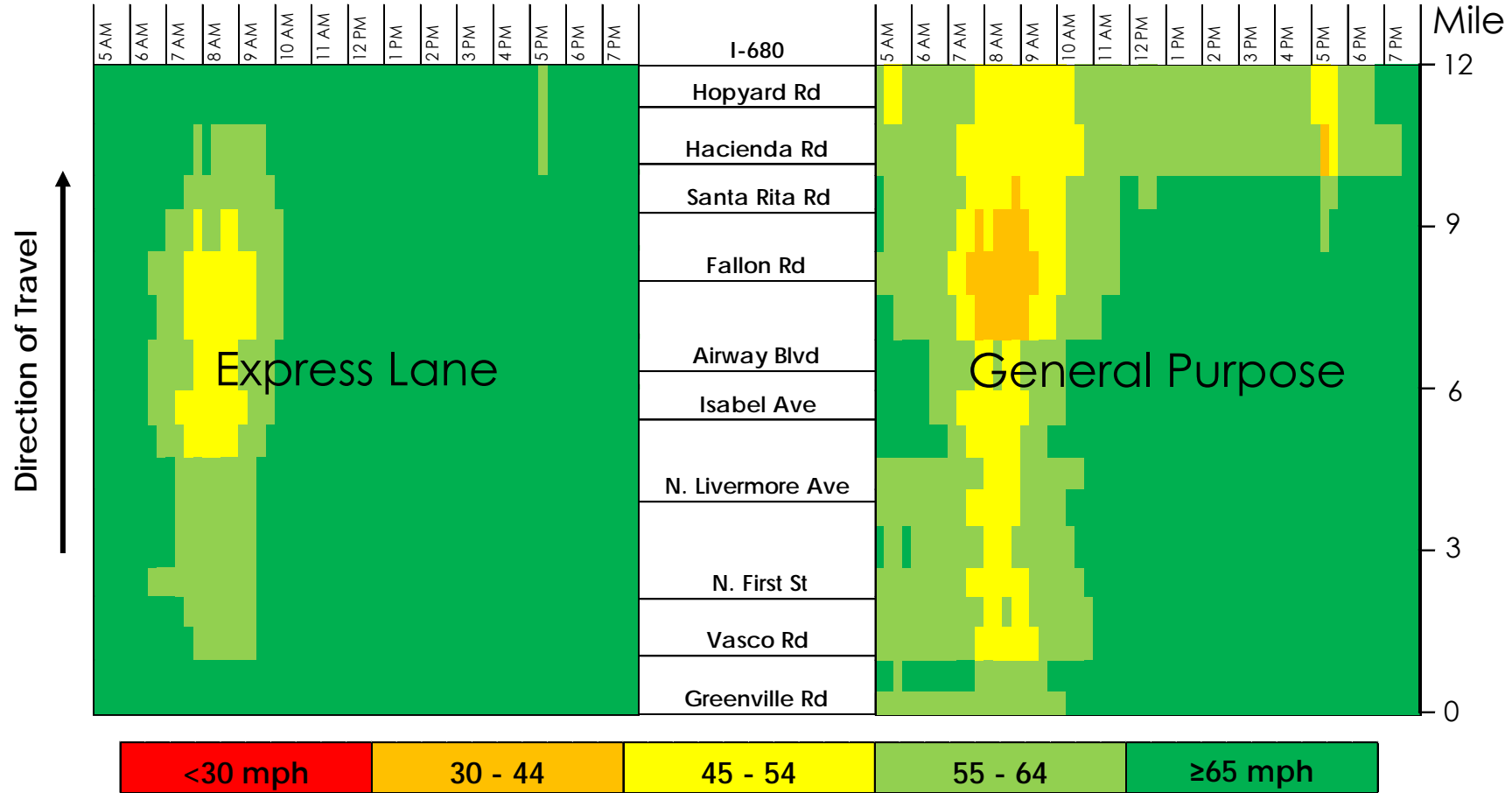
No entry/exit from westbound express lane from Hacienda to end.

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

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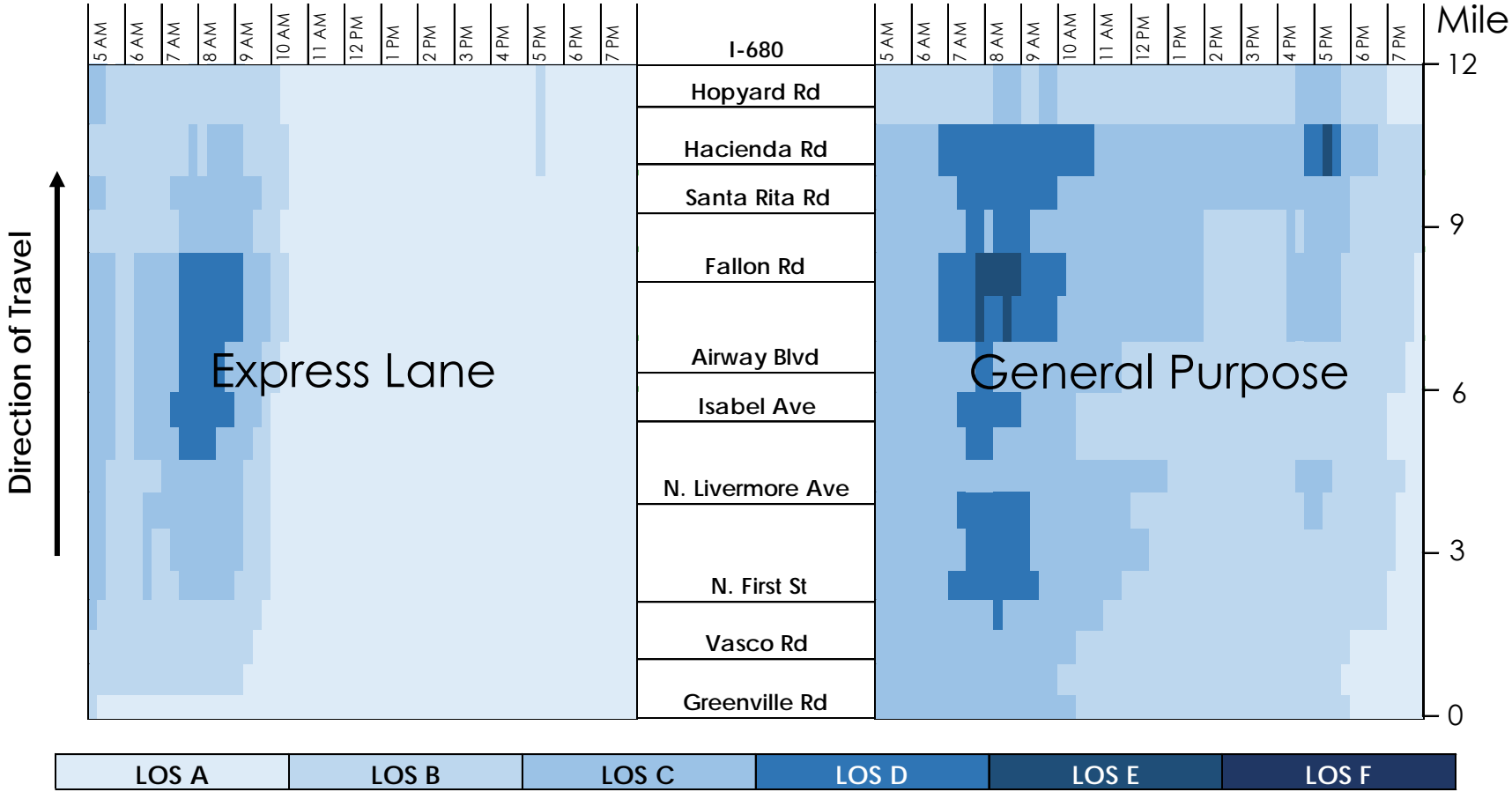
Westbound I-580 Corridor Speed Heat Maps

Monday-Friday, July 2019 – December 2019



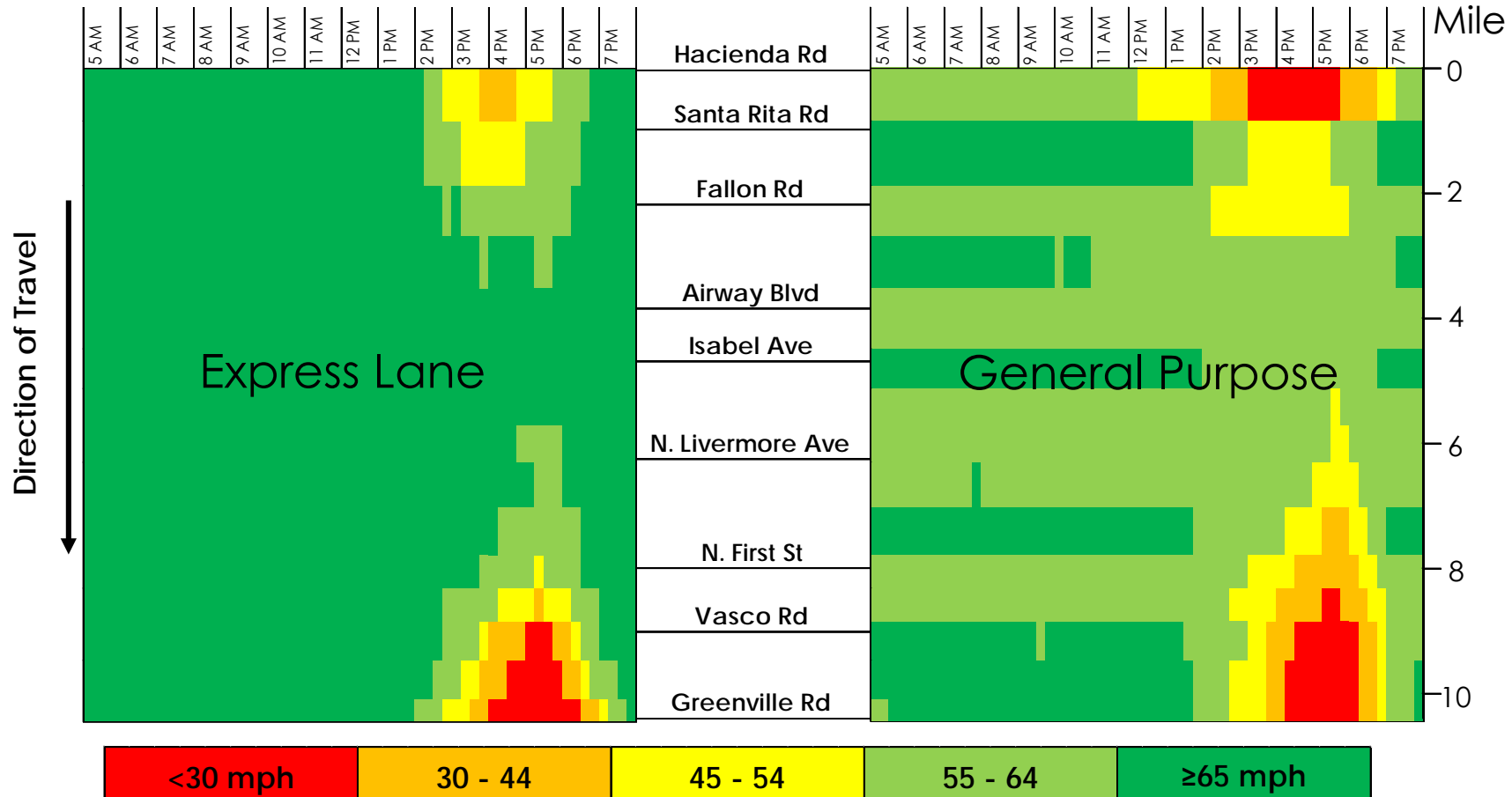
Westbound I-580 Corridor Density Heat Maps

Monday-Friday, July 2019 – December 2019



Eastbound I-580 Corridor Speed Heat Maps

Monday-Friday, July 2019 – December 2019



Eastbound I-580 Corridor Density Heat Maps

Monday-Friday, July 2019 – December 2019

