



I-580 Express Lane Policy Committee Special Meeting Agenda Monday, January 13, 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:	Elizabeth Rutman
Members:	Scott Haggerty, John Marchand, Jerry Thorne	Clerk of the Commission:	Vanessa Lee
Ex-Officio:	Richard Valle, Pauline Cutter		

1. Call to Order/Pledge of Allegiance

2. Roll Call

3. Public Comment

4. Consent Calendar

Page/Action

4.1. [Approve October 14, 2019 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, February 10, 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 January through March 2020

Commission Chair

Supervisor Richard Valle, District 2

Commission Vice Chair

Mayor Pauline Cutter,
City of San Leandro

AC Transit

Board Vice President Elsa Ortiz

Alameda County

Supervisor Scott Haggerty, District 1
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 Ezzy Ashcraft

City of Albany

Mayor Rochelle Nason

City of Berkeley

Mayor Jesse Arreguin

City of Dublin

Mayor David Haubert

City of Emeryville

Councilmember John Bauters

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-Vernaci

Executive Director

Arthur L. Dao

Commission and Committee Meetings

Time	Description	Date
2:00 p.m.	Alameda CTC Commission Meeting	January 30, 2020 February 27, 2020 March 26, 2020
9:00 a.m.	Finance and Administration Committee (FAC)	February 10, 2020 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)	
12:00 p.m.	Programs and Projects Committee (PPC)	

Advisory Committee Meetings

1:30 p.m.	Alameda County Technical Advisory Committee (ACTAC)	February 6, 2020 March 5, 2020
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
5:30 p.m.	Independent Watchdog Committee (IWC)	March 13, 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).



I-580 Express Lane Policy Committee
Meeting Minutes
Monday, October 14, 2019, 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 4.1

3. Public Comment

There were no public comments.

4. Consent Calendar

4.1. Approve the September 9, 2019 I-580 Express Lane PC meeting minutes.

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

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

No: None

Abstain: None

Absent: None

5. Regular Matters

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

Liz Rutman 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.

Commissioner Haubert wanted to confirm that in May, the toll hit \$15. Ms. Rutman stated that the dynamic pricing algorithm hit \$15; however, the agency currently has a soft toll cap at \$12 in the eastbound direction.

Commissioner Cutter asked if there is an idea of where commuters are traveling to once they come through the lane and wanted to know if there was data on origins and destination of users of the lane. Ms. Rutman stated that there are origin destination databases on the market that do not require use of the toll facility and noted that there are legalities that would have to be considered so that privacy laws are protected.

Commissioner Cutter asked if we refund tolls when there are incidents. Ms. Rutman stated that there are times when there is an incident, Caltrans requires that the lanes be open to all users. In those times, the agency will reverse tolls charged to users who were impacted by incidents and forced into the express lane.

Commissioner Haggerty asked if the Committee get an update on the Dublin Grade. Tess Lengyel noted that there will be an update on the Dublin Grade as part of the I-580 Design Alternatives Assessment work that is being done at this time. Ms. Lengyel noted that the Dublin Grade will be the next focus.

This item was for information only.

6. Committee Member Reports

There were no committee reports.

7. Staff Reports

Art Dao stated that this Committee will not meet in November. The next meeting is scheduled for January 13, 2020.

8. Adjournment/ Next Meeting

The next meeting is:

Date/Time: Monday, January 13, 2020 at 10:00a.m.

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



Memorandum

5.1

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DATE: January 6, 2020

TO: I-580 Express Lane Policy Committee

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

SUBJECT: I-580 Express Lanes (PN 1373.002): 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 September-November 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.

September – November 2019 Operations Update:

Approximately 2,096,000 express lane trips were recorded during operational hours in September through November, which is an average of approximately 33,800 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 74 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
		September-November
By Type	HOV-eligible with FasTrak flex tag	49%
	SOV with FasTrak standard or flex tag	32%
	No valid toll tag in vehicle	19%
By Direction	Westbound	44%
	Eastbound	56%

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 April 2019 through September 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 Hacienda Road. The express lane operated at LOS C or better at most times, with a short

period of LOS D experienced near Fallon Road in the morning commute. By comparison, the general purpose lanes experienced average speeds as low as 45 mph and LOS D throughout longer sections of the corridor for longer periods of time. During this six-month period, the evening westbound reverse-commute congestion between Hacienda Road and San Ramon Road improved such that, outside of the commute hours, westbound express lane users experience average speeds of 65 mph or higher and average LOS A.

In the eastbound direction, average express lane speeds from April 2019 through September 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)
September- November	Westbound	\$13.00 (9 of 62 days)	\$3.55
	Eastbound	\$12.00 (37 of 62 days)	\$2.85

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 3.67 million total trips through November 2019. Total gross revenues received through November 2019 include \$5.77 million in toll revenues and \$1.29 million in violation fees and penalties; the pro-rated forecast operating budget is \$2.57 million.

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

Attachments:

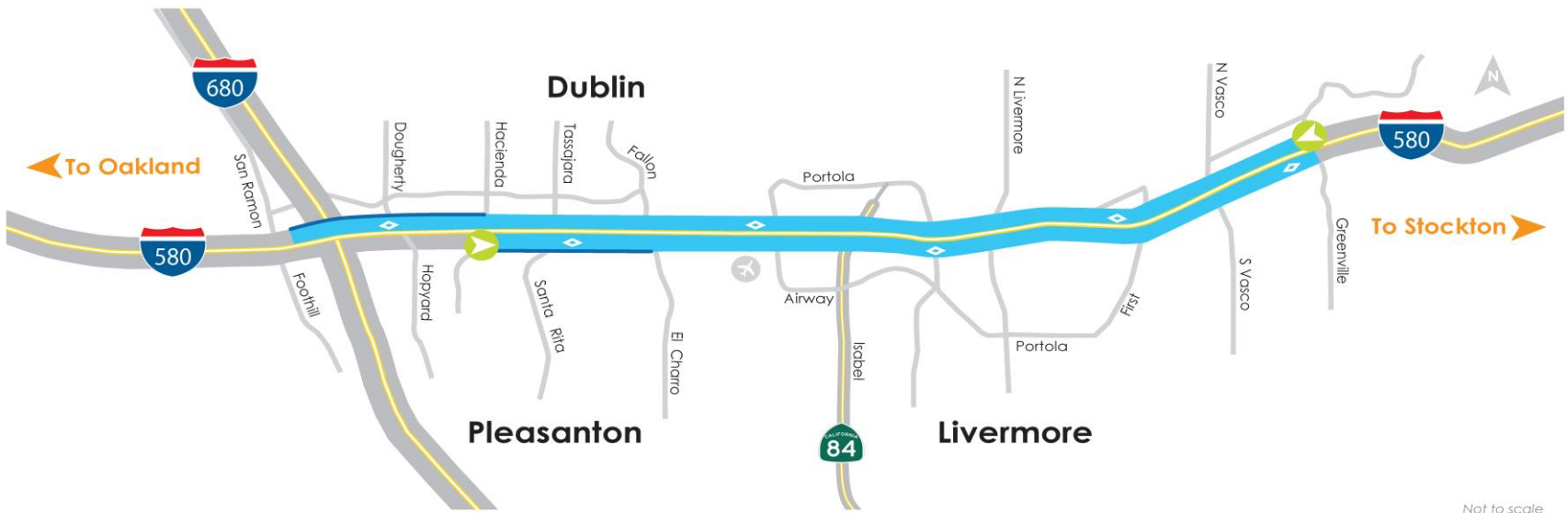
- A. I-580 Express Lanes Location Map
- B. I-580 Corridor Express Lanes Heat Maps April 2019 – September 2019

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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.

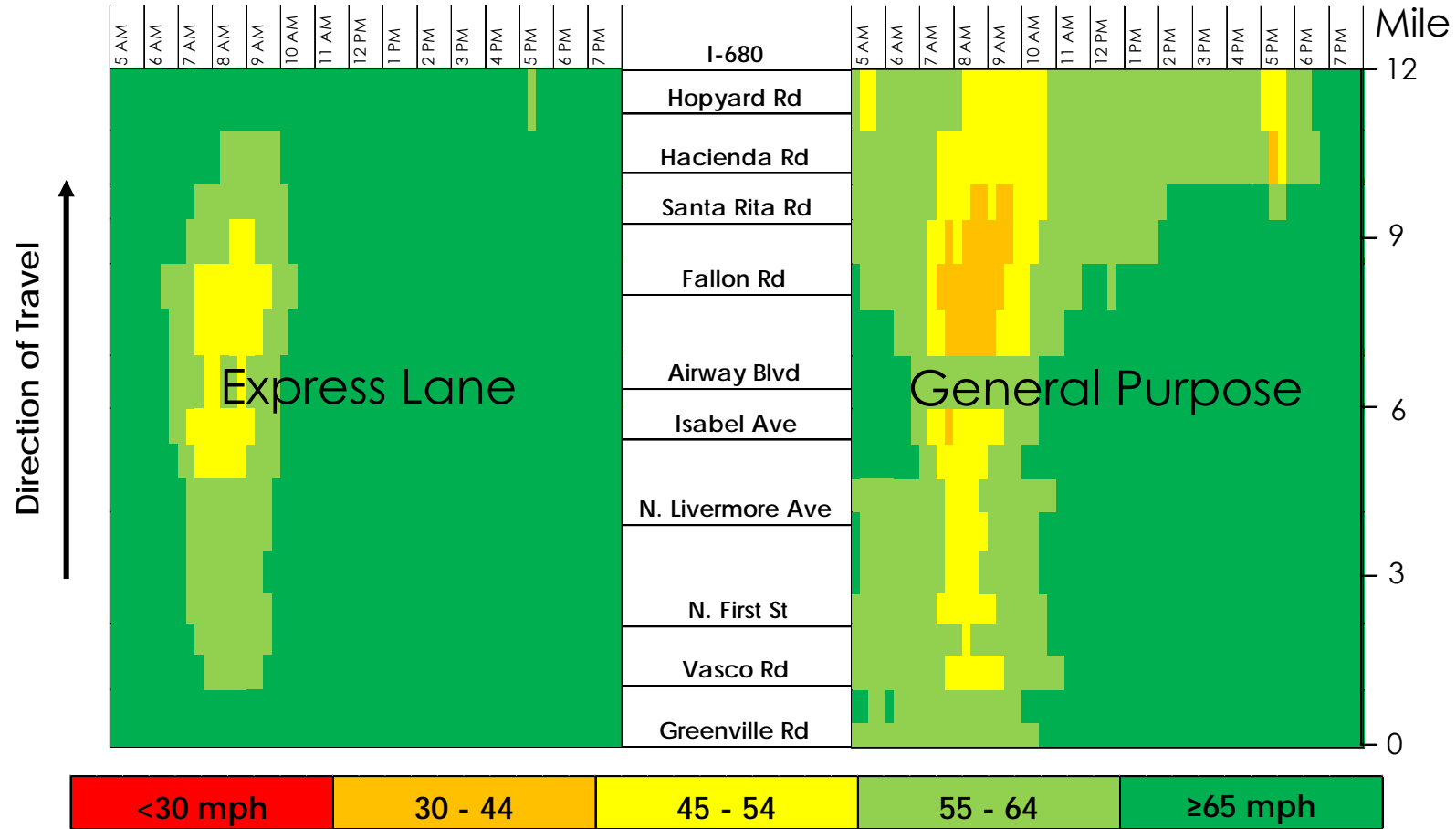
One Westbound Express Lane
Lane begins at Greenville
 No entry/exit from westbound express lane from Hacienda to end.
Please note: For access to I-680 or Dougherty, exit express lane before Hacienda.



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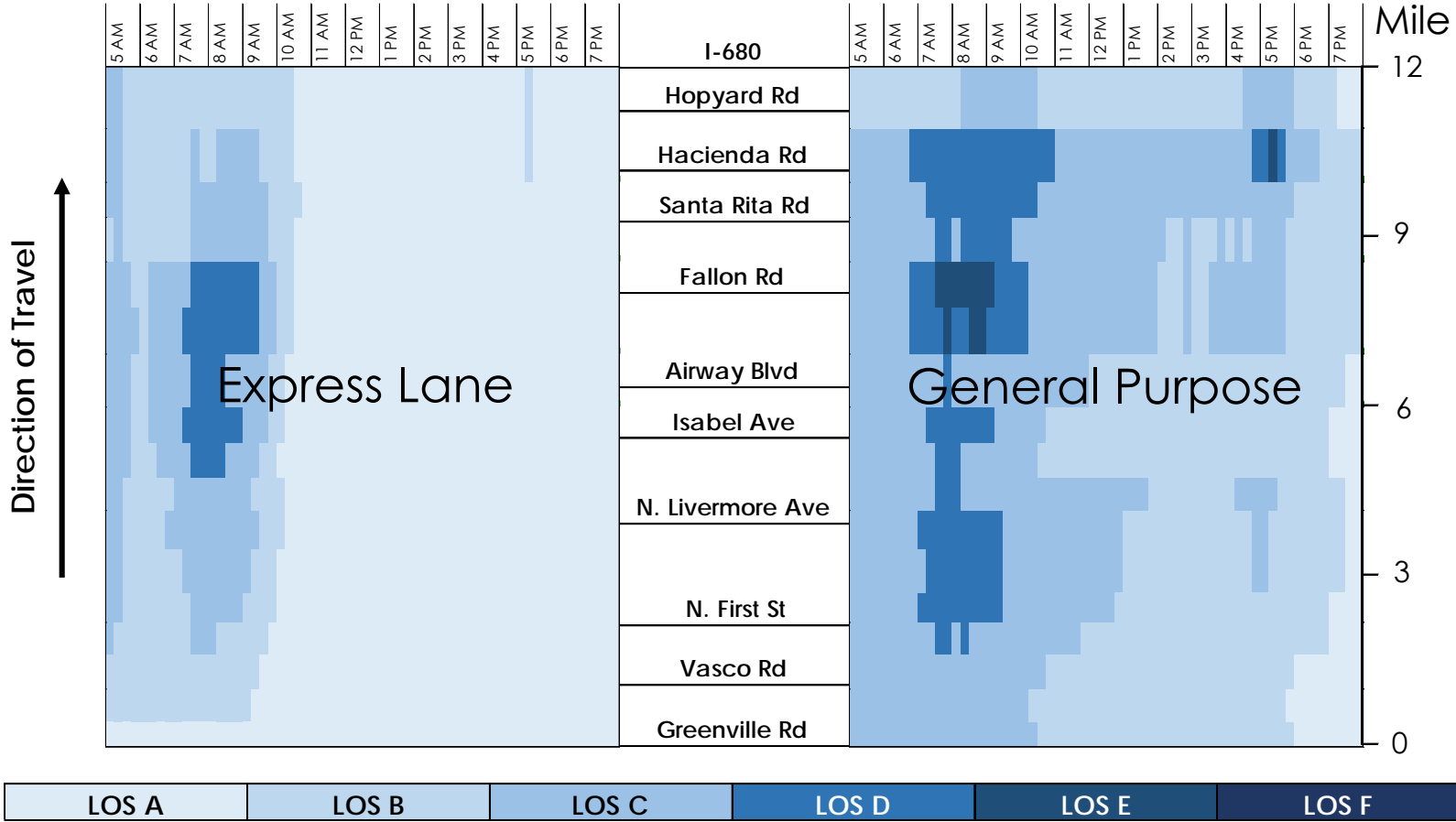
Westbound I-580 Corridor Speed Heat Maps

Monday-Friday, April 2019 – September 2019



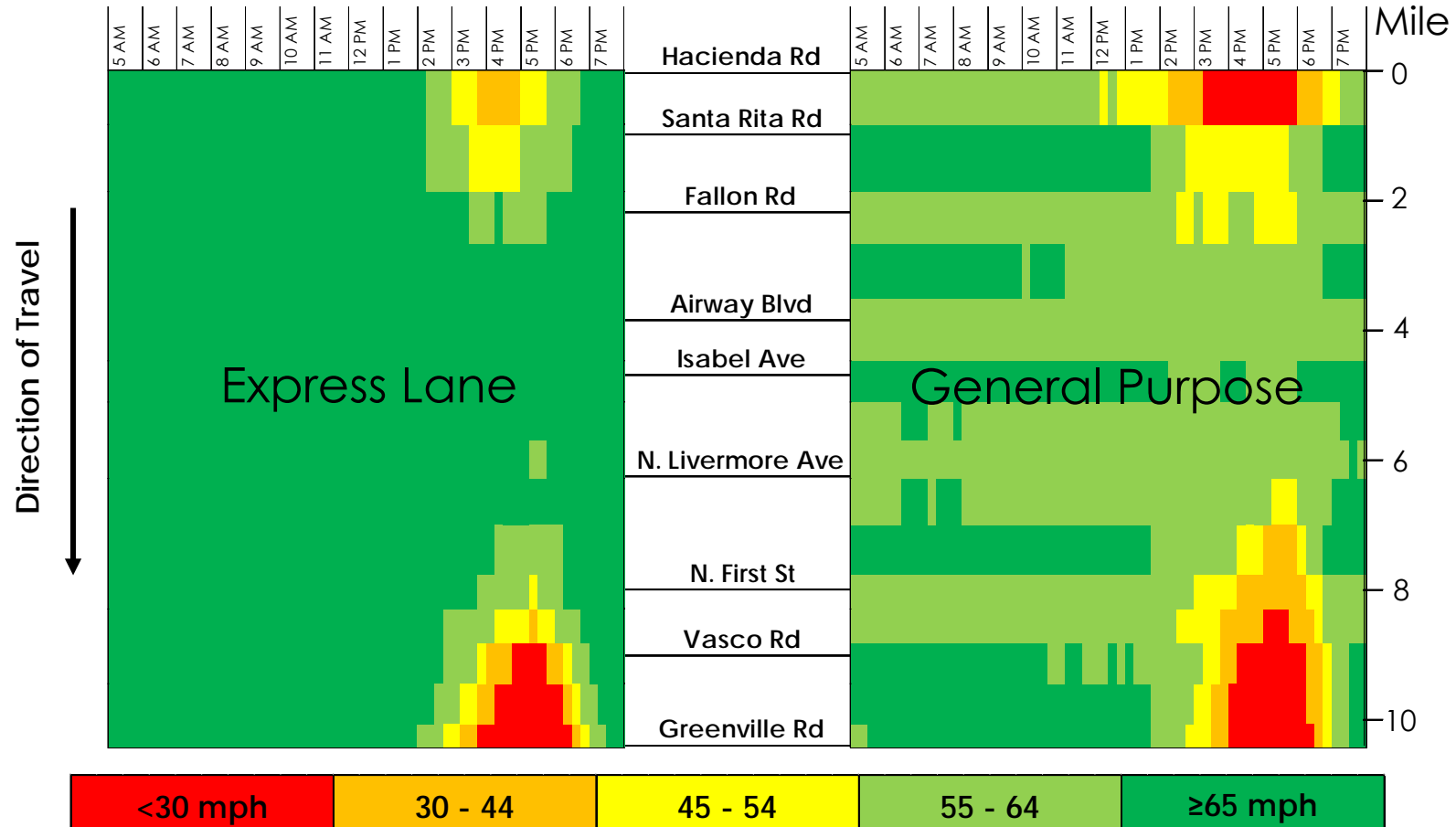
Westbound I-580 Corridor Density Heat Maps

Monday-Friday, April 2019 – September 2019



Eastbound I-580 Corridor Speed Heat Maps

Monday-Friday, April 2019 – September 2019



Eastbound I-580 Corridor Density Heat Maps

Monday-Friday, April 2019 – September 2019

