



I-680 Sunol Express Lane Joint Powers Authority Meeting Agenda Monday, January 13, 2020, 9:30 a.m.

Committee Chair: Lily Mei, City of Fremont
Vice Chair: David Haubert, City of Dublin
Members: Scott Haggerty, Jerry Thorne,
Rich Tran (Santa Clara Valley
Transportation Authority)

Executive Director: Tess Lengyel
Staff Liaison: [Elizabeth Rutman](#)
Clerk of the Commission: [Vanessa Lee](#)

1. Call to Order/Pledge of Allegiance

2. Roll Call

3. Public Comment

4. Consent Calendar

Page/Action

- 4.1. [Approve the October 14, 2019 I-680 Sunol Smart Carpool Lane Joint Powers Authority \(JPA\) Meeting Minutes](#) 1 A

5. Regular Matters

- 5.1. [Approve the I-680 Sunol Smart Carpool Lane FY2019-20 First Quarter Financial Report](#) 5 A
- 5.2. [I-680 Southbound Express Lane from SR 237 to SR 84 Operations Status Update](#) 9 I
- 5.3. [I-680 Sunol Express Lanes from SR 237 to SR 84 Status Update](#) 13 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-680 Sunol Smart Carpool Lane Joint Powers Authority Meeting Minutes Monday, October 14, 2019, 9:30 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 Tran.

3. Public Comment

There were no public comments.

4. Consent Calendar

4.1. Approve the September 9, 2019 I-680 Sunol Smart Carpool Lane Joint Powers Authority (JPA) meeting minutes

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

Yes: Haggerty, Haubert, Mei, Thorne
No: None
Abstain: None
Absent: Tran

5. Regular Matters

5.1 Approve the Sunol Smart Carpool Lane Joint Powers Authority Audited Annual Financial Report for the Year Ended June 30, 2019

David Alvey from Maze & Associates presented financial highlights of the audited financial report and expressed what is considered to be an unmodified or clean audit opinion.

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

Yes: Haggerty, Haubert, Mei, Thorne
No: None
Abstain: None
Absent: Tran

5.2. I-680 Southbound Express Lane Project from SR-84 to Alcosta Boulevard Project (PN 1490001) - Update on initiation of the Project Plans, Specifications, and Estimate (PS&E) and Construction Contract Document Phase

John Pulliam presented an update on the I-680 Southbound Express Lane from SR 84 to Alcosta Boulevard Project. The preparation of Plans, Specifications, and Estimate (PS&E) and Construction Contract Documents is proposed to be performed by WMH Corporation. He noted that the contract will be recommended for approval by the

Programs and Projects Committee. Mr. Pulliam noted that the delivery of the I-680 Southbound Express Lane Project will be integrated and coordinated with a Caltrans State Highway Operation and Protection Program (SHOPP) project.

Commissioner Haggerty asked if this project went before the Metropolitan Transportation Commission (MTC). Mr. Pulliam stated that staff met with MTC on October 11, 2019 to provide them with an update. Art Dao stated that this project is a significant regional project and it's not in the current Regional Transportation Plan (RTP). There is a process to amend the RTP to include this project, because the Federal Highway Administration (FHWA) and Caltrans will not approve the environmental document for this project unless it's in the RTP.

This item is for information only.

5.3. I-680 Sunol Express Lanes (PN 1369.000): Monthly Operations Status Update

Liz Rutman provided an update on the I-680 Southbound Express Lane for August 2019. She presented the average toll trip data and roadway segment speeds and corridor performance information. Ms. Rutman also discussed average speeds and density, and toll rates during operational hours. She concluded the update by reviewing estimated gross toll revenues versus the forecasted operating budget.

Commissioner Haggerty wanted to ensure that tolls were still being charged in the lane during construction. Ms. Rutman noted that toward the end of construction in the August/September 2020 timeframe, tolling will be affected for a few months while changes to the new toll system occurs. Gary Huisinh noted that staff is working with Caltrans to ensure good will and communication to users of the lane during the time that tolls will be affected.

This item is for information only.

5.4. I-680 Sunol Express Lanes (PN 1369.000): Monthly Status Update

Trinity Nguyen presented the I-680 Sunol Express Lane Construction status update. Ms. Nguyen presented construction highlights and next steps in the project's development including continued preliminary toll system design and coordination with civil design for construction staging/sequencing, and continued coordination with PG&E regarding power service. She also gave an update on other projects in the corridor and the expected construction timing.

This item is for information only.

6. Committee Member Report

There were no committee reports.

7. Staff Reports

There were no staff reports.

8. Adjournment/ Next Meeting

The next meeting is:

Date/Time: Monday, January 13, 2020 at 9:30a.m.

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

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Memorandum

5.1

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DATE: January 6, 2020

TO: I-680 Sunol Express Lane Joint Powers Authority

FROM: Yoana Navarro, Accounting Manager
Patricia Reavey, Deputy Executive Director of Finance
and Administration

SUBJECT: I-680 Sunol Smart Carpool Lane FY2019-20 First Quarter Financial Report

Recommendation

It is recommended that the Authority approve the I-680 Sunol Smart Carpool Lane FY2019-20 First Quarter Financial Report.

Summary

This financial report summarizes revenues and expenses related to the I-680 Sunol Smart Carpool Lane for the fiscal year through September 30, 2019. Net toll and other revenue was \$704,153 or 2.4 percent more than projected revenues through the first quarter of FY2019-20. Operating expenses through the first quarter totaled \$373,881 or 35.8 percent less than budget. These variances together result in an increase to net position of \$330,272. This positive variance relates to actual revenues coming in slightly higher and expenses coming in lower than projections, mostly due to costs associated with the budgeted toll revenue forecasting project, operations and maintenance and enforcement. As of September 30, 2019, the I-680 Sunol Smart Carpool Lane had cash and investments totaling \$6.36 million.

Background

The I-680 Sunol Smart Carpool Lane JPA is in a strong position compared to budget after the first quarter of the fiscal year and remains sustainable. The FY2019-20 operating budget approved by the I-680 Sunol Smart Carpool Lane Board in May 2019 includes \$2.75 million of toll revenues which is offset by \$2.50 million of expenses, including depreciation, resulting in an increase of \$253,628 to projected net position for the year. The projected net position at the end of FY2019-20 is \$6,421,563 comprised of \$1,134,096 invested in capital assets, \$1,500,000 reserved for maintenance, \$2,500,000 reserved for operational risk, and \$1,287,467 of unrestricted funds. There was no capital budget proposed for FY2019-20.

Fiscal Impact: There is no fiscal impact associated with the approval of this item.

Attachment:

- A. I-680 Sunol Smart Carpool Lane Statement of Operating Revenues and Expenses As of September 30, 2019

I-680 SUNOL SMART CARPOOL LANE
Statement of Operating Revenues and Expenses
As of September 30, 2019

	<u>YTD Actuals</u>	<u>YTD Budget</u>	<u>% Used</u>	<u>Favorable / (Unfavorable) Variance</u>
Beginning Net Position, June 30, 2019	\$ 6,719,871			
<u>OPERATING REVENUES</u>				
Toll Revenue	675,375	675,000	100.1%	375
Interest Income	28,778	12,500	0.0%	16,278
Total Operating Revenues:	<u>704,153</u>	<u>687,500</u>	<u>102.4%</u>	<u>16,653</u>
<u>OPERATING EXPENSES</u>				
Operations and Maintenance	67,278	112,500	59.8%	45,222
Revenue Collection Fees	71,385	81,250	87.9%	9,865
Alameda CTC Operations and Management	77,458	62,500	123.9%	(14,958)
Enforcement	80,303	106,250	75.6%	25,947
Express Lane Operations Monitoring Technicians	21,629	30,000	72.1%	8,371
Utilities	8,888	16,250	54.7%	7,362
Alameda CTC Administration	8,621	13,750	62.7%	5,129
IT Support	9,675	12,500	77.4%	2,825
Insurance	10,978	10,000	109.8%	(978)
Legal Fees	1,475	12,500	11.8%	11,025
Roadway Maintenance	162	6,250	2.6%	6,088
Miscellaneous	3,350	6,250	53.6%	2,900
Special Project - Toll Revenue Forecasting	12,679	100,000	12.7%	87,321
Contingency	-	12,500	0.0%	12,500
Total Operating Expenses:	<u>373,881</u>	<u>582,500</u>	<u>64.2%</u>	<u>208,619</u>
Operating Surplus (Deficit)	<u>330,272</u>	<u>105,000</u>		
<u>Net Position</u>				
Invested in Capital Assets	855,872			
Maintenance Reserve	1,500,000			
Operational Risk Reserve	2,500,000			
Unrestricted Net position	2,194,271			
Total Net Position as of September 30, 2019	<u>\$ 7,050,143</u>			

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Memorandum

5.2

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DATE: January 6, 2020

TO: I-680 Sunol Express Lane Joint Powers Authority

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

SUBJECT: I-680 Sunol Southbound Express Lane from SR 237 to SR 84
Operations Update

Recommendation

This item is to provide an update on the Operation of the I-680 Southbound Express Lane. This item is for information only.

Summary

The purpose of this item is to provide the I-680 Sunol Smart Carpool Lane Joint Powers Authority ("Sunol JPA") with an Operations Update of the existing I-680 Southbound Express Lane facility for September through November 2019. 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 along the corridor.

Background

The I-680 Sunol Southbound Express Lane spans approximately 14 miles from SR 84 near Pleasanton to SR 237 in the City of Milpitas. Motorists using the express lane benefit from travel reliability as the express lane optimizes the corridor capacity by providing a choice to drivers: single occupancy vehicles (SOVs) have the option to pay a toll and travel within the express lane, while carpool, clean-air vehicles, motorcycles, and transit vehicles enjoy the benefits of toll-free travel in the express lane. The Alameda CTC, acting as the managing agency for the Sunol JPA, has been operating the express lane facility since it opened to traffic in September 2010. California Highway Patrol (CHP) officers provide enforcement services, and the California Department of Transportation (Caltrans) provides roadway maintenance services through reimbursable service agreements.

An All Electronic Toll (AET) collection method has been employed to collect tolls. Due to on-going construction of the new northbound express lane and conversion of the southbound lane to continuous access, toll rates are currently set on a time-of-day pricing

schedule with rates changing as frequently as every 15 minutes. When the new toll lanes open in late 2020, toll rates will be dynamically calculated based on traffic demand for the express lanes.

September-November 2019 Operations Update:

Nearly 219,000 express lane toll trips were recorded during operational hours from September through November, for an average of 3,500 toll trips a day. All 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). Table 1 summarizes the express lane speed and LOS at three points in the corridor during the morning commute hours from September through November. Although comprehensive traffic data is not currently available, daily observation of the corridor via closed circuit television cameras suggests that the express lane continually provides higher speeds and better LOS than the general purpose lanes, particularly during peak commute hours.

Table 1. Speeds and Level of Service in Express Lane

Express Lane Location	5 AM – 11 AM		8 AM – 9 AM	
	Avg Speed (mph)	Avg Express Lane LOS	Avg Speed (mph)	Avg Express Lane LOS
Andrade Rd	65	C	56	D
Washington Blvd	59	D	39	F
Mission Blvd / SR 262	72	B	68	C

Table 2 presents the maximum posted toll rate to travel the entire southbound express lane corridor and the average toll assessed to non-HOV users.

Table 2. Toll Rate Data

Month	Maximum Posted Toll (Travel Entire Corridor)	Average Assessed Toll (All Trips)
September-November	\$9.50	\$3.29

The estimated gross revenue generated from the I-680 Sunol express lane in Fiscal Year 2019-20 is \$1,085,000 through November 2019, and the forecasted operating budget is \$804,000.

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

Attachment:

- A. I-680 Southbound Express Lane Location Map

Sunol I-680 Southbound Express Lane Location Map



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Memorandum

5.3

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DATE: January 6, 2020

TO: I-680 Sunol Express Lane Joint Powers Authority

FROM: Trinity Nguyen, Director of Project Delivery
Liz Rutman, Director of Express Lanes Implementation and Operations

SUBJECT: I-680 Sunol Express Lanes from SR 237 to SR 84 Status Update

Recommendation

This item is to provide the Authority with an update on the status of I-680 Sunol Express Lanes – Phase 1 construction project. This item is for information only.

Summary

The Interstate 680 (I-680) Sunol Express Lanes (EL) Project will provide enhanced mobility for motorists in both the northbound and southbound directions as a combination of two projects, the I-680 Express Lanes (EL) project and the I-680 Southbound Conversion Project. The I-680 Sunol EL project will widen I-680 from SR 237 in Santa Clara County to SR 84 in Alameda County to construct a 14-mile long northbound High Occupancy Vehicle (HOV)/Express Lane in the corridor. The project is being implemented in a phased approach focused on providing immediate operational benefits based on funding availability. The I-680 Sunol Express Lane - Phase 1 (Phase 1) project, constructs an initial 9-mile HOV/Express Lane segment on northbound I-680 between south of Auto Mall Parkway and SR 84. The I-680 Southbound Access Conversion project will convert the existing southbound controlled access tolling configuration to an open access configuration to provide consistency with the new northbound express lane. This conversion has been incorporated into the northbound Phase 1 project.

The purpose of this item is to provide the Commission with a monthly status update on the project development and implementation activities which are either completed or planned for the Phase 1 project.

Background

The I-680 Sunol Express Lanes project will widen northbound I-680 from SR 237 in Santa Clara County to SR 84 in Alameda County to construct a 14-mile long northbound

HOV/Express Lane in the corridor. The project will provide a number of benefits including: 1) enhanced mobility by reducing traffic congestion; 2) reduced travel time and improved travel reliability; and 3) reduced congestion related accidents, thereby enhancing safety. The Express Lane facility will maximize available HOV lane capacity by offering solo drivers the choice to pay an electronic toll to access the lane, while regular carpool/carpool eligible users continue to use the lane at no cost. The Phase 1 project will provide an initial 9-mile segment of new HOV/Express Lane from south of Auto Mall Parkway to SR 84 to eliminate the bottlenecks and alleviate much of the daily traffic congestion.

The I-680 Southbound Express Lane was opened to traffic in September 2010 as a controlled access facility. To be consistent with the new northbound express lane and provide enhanced accessibility for users, the southbound direction will be converted to an open access configuration in conjunction with the Phase 1 project.

The Project Approval and Environmental Document (PA&ED) for the overall project was completed in July 2015. In December 2015, WMH Corporation was selected to prepare the civil design and will continue to provide design support during construction (DSDC). In June 2016, Kapsch TrafficCom Transportation NA, Inc. was selected to provide Toll System Integration Services. In November 2017, Bay Cities Paving & Grading Inc. was awarded the civil construction contract.

Alameda CTC, in partnership with Caltrans, is the implementing agency for preliminary engineering, environmental studies, design, right-of-way acquisition, and utility relocation. For the construction phase, Alameda CTC is the project sponsor and Caltrans is the implementing agency to administer the construction of the Phase 1 project. Attachment A, I-680 Sunol Express Lanes Progress Update, provides the current implementation schedule and delivery milestones.

The approved PA&ED documents included studies and analysis for construction of both the full project limits (SR 237 to SR 84) and an initial segment (south of Auto Mall Parkway to SR 84). The initial segment (Phase 1 project) is focused on providing immediate operational benefits within currently available funding. During development of the Phase 1 project, staff identified and implemented several geometric refinements to reduce costs and minimize environmental impacts.

In the interest of expediting important improvements for the public, Alameda CTC and Caltrans have agreed to incorporate a pavement rehabilitation project into the Phase 1 project.

Civil construction began on March 5, 2018 after the approval of the required initial submittals. To date, the contractor has achieved 67% progress on various bid items at various locations. The following is a detailed discussion of work in progress and/or upcoming major tasks.

Recently Completed Project activities (December 2019):

- Retaining Wall 711 complete
- Calaveras Bridge Widening complete

Upcoming Project Activities:

- Visible work activities for the three months ahead will include:
 - Continue construction of PG&E pedestals.
 - Begin pulling fiber optic cable for Electronic Toll System in Segment A
 - Continue progress on the retaining wall on northbound I-680 between Paseo Padre Parkway and Palm Avenue (Approximately 1,012 feet long).
 - Continue progress for retaining wall (Approximately 1,606 feet long) along northbound I-680 from north of the Alameda Creek Bridge Undercrossing to the Calaveras Road off-ramp.
 - Continue placement for median lights in Segment B.
 - Continue progress for completion of median barrier in Segment C.
 - Begin demo of median barrier in Segment B between Vargas and Sheridan
 - Construction of overhead sign foundations, sign installation and removal of toll signs in the median of Segment B and C.
 - Continue Drainage System work in front of retaining wall 755 (Southbound 680)
- Continue preliminary toll system design and coordinate with civil design for construction staging/sequencing (on-going).
- Continue to coordinate with PG&E, AT&T and Telco regarding power and communication service connection needs (on-going).

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

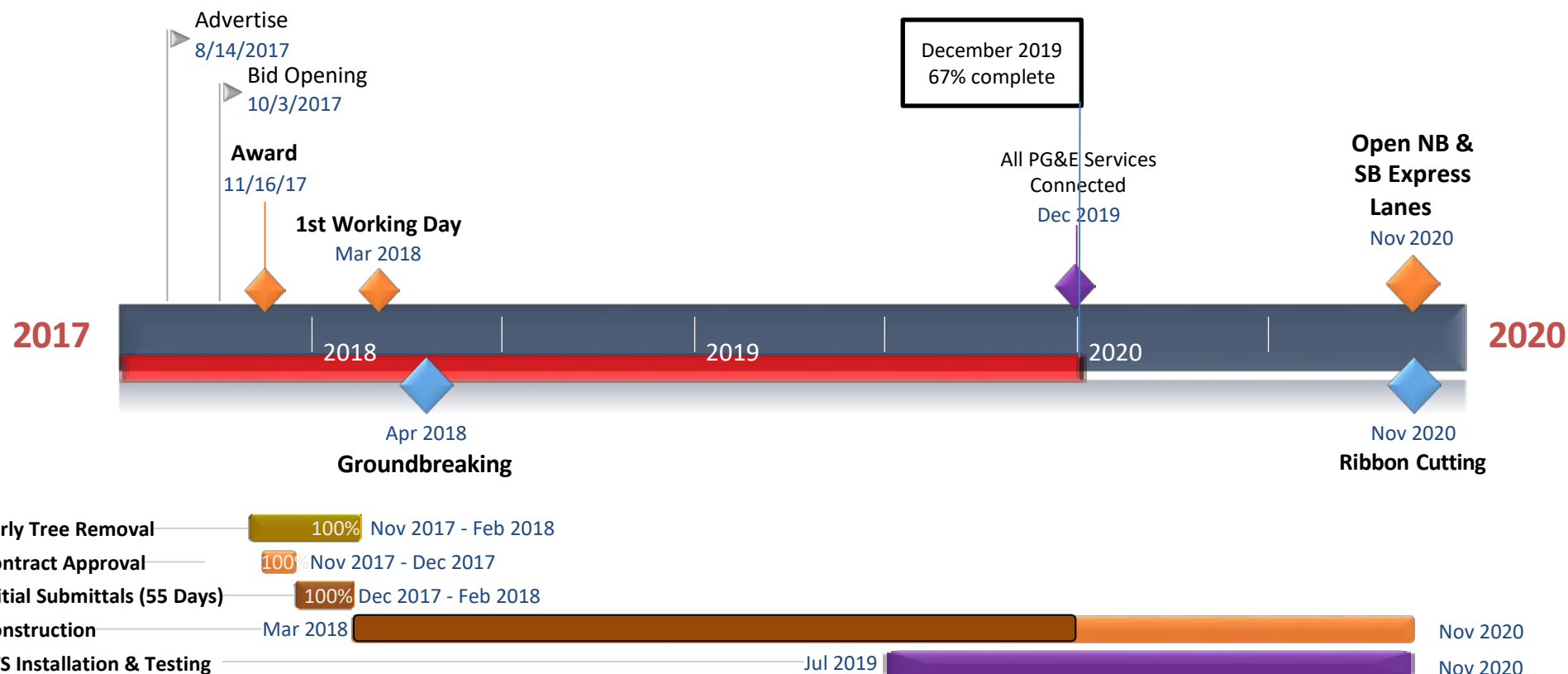
Attachment:

- A. I-680 Sunol Express Lanes Progress Update

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I-680 Sunol Express Lanes

Progress Update: December 2020



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